



Nortel CS1000 Rel. 4.5 using SIP via Cisco Unified Communications Manager–Session Manager Edition 7.1(3) to Cisco Unified Communications Manager 7.1(3) and Cisco Unified Border Element (Enterprise Edition) 1.4 to Service Provider

November 24, 2009 - Initial Version

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Introduction

- This application note describes the necessary steps and configurations for connectivity between Nortel Communication Server 1000 (CS1000) Release 4.5 connecting to Cisco Unified Communications Manager-Session Manager Edition (Cisco UCM-SME) 7.1.3, via SIP trunk, with SIP connection to a Cisco Unified Communications Manager (Cisco UCM) 7.1(3) and SIP connection to SIP service provider (SP) using Cisco Unified Border Element (Cisco UBE). The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability between the different leaf nodes (Nortel CS1000, Cisco UCM and Cisco UBE/SP) via the Cisco UCM-SME
- The network topology diagram (Figures 1) shows the test setup for end-to-end interoperability between Cisco Unified Communications Manager (Cisco UCM) connected to the Nortel Communication Server 1000 (CS1000) PBX via a Cisco Unified Session Manager Edition (SME) using SIP trunk. Features tested are basic call, 3-way (ad-hoc) conference, call transfer (attended, unattended and Blind), call forward (all, busy and no answer), hold/resume, fax transmission, and DTMF interworking. This test setup also includes a connection to a PSTN SIP SP using SIP trunks. Cisco Unified Border Element (Cisco UBE) is used as a session border controller (SBC), providing demarcation, security, and interworking services between the customer's private network and the service provider's SIP network.
- During testing, a Cisco 3825 voice gateway was used to run the Cisco Unified Border Element features set. However other Cisco voice gateways can be used. The decision to choose the Cisco gateway model is left to the customer. The customer should choose a Cisco IOS gateway model based on the capabilities and the capacity that will be required based on the planned network deployment. Here is a list of Cisco IOS products capable of running Cisco UBE.

[Cisco 3900 Series Integrated Services Routers](#) (CUBE 1.4 will be available on IOS release 15.1.1T)

[Cisco 2900 Series Integrated Services Routers](#) (CUBE 1.4 will be available on IOS release 15.1.1T)

[Cisco 2800 Series Integrated Services Routers](#)

[Cisco 3800 Series Integrated Services Routers](#)

[Cisco AS5350XM Universal Gateway](#)

[Cisco AS5400XM Universal Gateway](#)

- The Cisco UCM is tested only for transit calls to and from the Nortel CS1000 through the Cisco UCM-SME. This note does not cover testing from Cisco UCM to the service provider through Cisco UCM-SME. For information on that configuration please see the Cisco Interoperability Portal under the Cisco UCM-SME section. Go to www.cisco.com/go/interoperability for details.
- If additional guidance on the Cisco UBE is needed, please refer to the Cisco UBE section on the Cisco Interoperability Portal (www.cisco.com/go/interoperability).
- This configuration was tested to AT&T. Results may vary based on service provider being used.

Network Topology

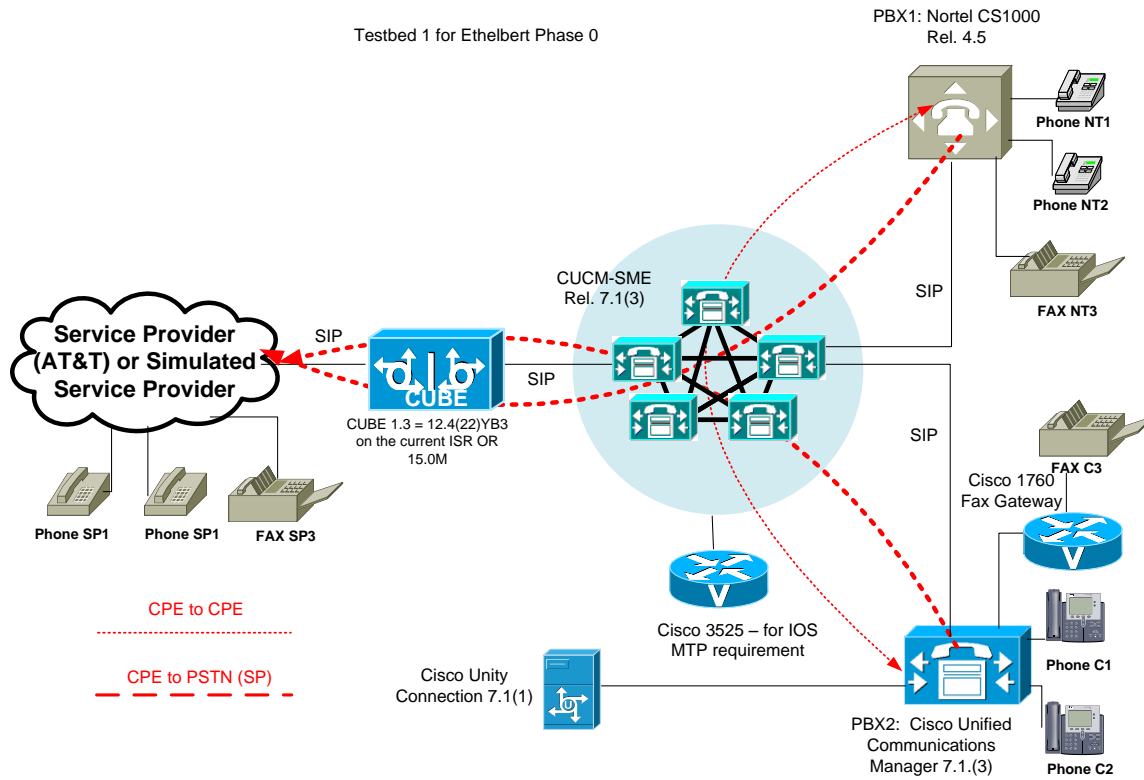


Figure 1. Basic Call Setup

Limitations

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

Early Offer Requirement

- For Nortel CS1000 and Cisco Unified Communications Manager (CUCM) via Cisco Unified Communications Manager Session Manager Edition (CUCM-SME) to interoperate properly with each other (Basic Call and/or Supplementary features), the CS1000 requires SIP INVITE with early offer (i.e. the delivery of media attributes with the SIP Invite message). SIP INVITE with early offer is enabled on the CUCM-SME by checking the “Media Termination Point Required” box under the SIP Trunk configuration page. An IOS MTP was employed to serve as a MTP resource registered to the CUCM-SME to offer G729 as originating codec option.

No Audio or One-Way Audio Issue

- There were audio issues (one way and no audio) found in some of the transfer, hold/resume and conference call scenarios when the Nortel PBX is the transferring/conferencing/holding node. Trace analysis shows that there are differences on how both systems implement the SIP protocol in its SIP header and SDP audio attributes in re-INVITES. There is no current workaround for this limitation aside from using an element such as CUBE to “modify/repair” the incoming SIP/SDP messages from the CUCM-SME. CUBE workaround examples are not part of this document. Please refer to the following link to obtain workaround information:

<http://www.cisco.com/en/US/solutions/collateral/ns340/ns414/ns728/ns833/777115.pdf>

Alerting Name Delivery and Presentation

- When calling from a CUCM IP Phone to a Nortel CS1000 phone, the CS1000 does not send alerting name information within its SIP 180 message back to the CUCM via CUCM-SME. When calling from a Nortel phone to a CUCM IP Phone, the CUCM sends alerting name information using PAI header within its 180 message back to the Nortel via the CUCM-SME. However, since the Nortel does not support alerting name delivery and presentation, this information is not displayed on the Nortel phone.

Name and Number Updates

- Although transferred, forwarded and conference calls are completed across the network, the calling/connected names and numbers are not updated accordingly.

Name and Number Presentation Restrictions

- Calling Line ID Restriction (CLIR) / Calling Name ID Restriction (CNIR): Aside from sending SIP Invite message with the SIP FROM: header set to “Anonymous”, both systems support P-Asserted Identity (PAI) method within the SIP INVITE message to send calling name / number information with the appropriate PRIVACY header setting to restrict the presentation of name and/or number. To restrict calling name and number, The Nortel CS1000 sets the privacy setting to id (for number) and user (for name). The CUCM sets the privacy setting to id to restrict *both* name and number.
- Connected Line ID Restriction (COLR) / Connected Name ID Restriction (CONR): The Nortel does not support the delivery and presentation of connected name and number. On the other hand, the CUCM supports P-Asserted Identity (PAI) method within the SIP RINGING (180) message to send connected name and number information along with PRIVACY header to restrict the presentation of name and number. Since the Nortel does not support the connected name and number feature, Nortel phones do not display this information regardless of the privacy settings sent by the CUCM via CUCM-SME.

Blind Call Transfers

- Both Nortel phones and Cisco Unified Communications Manager TNP phones (7961, 7970, 7971 and 7911) phones do not support SIP Blind Call Transfer. Blind Call Transfer testing was performed using CUCM Phone 7960 with SIP load.

**DTMF Relay**

- Nortel CS1000 only started to support RFC2833 for DTMF-Relay in their Release 5.0. Since the testing was done against a CS1000 with Release 4.5, the PBX can only send/receive DTMF using SIP INFO. There is no workaround for this limitation at this time aside from using CUBE to translate SIP INFO to RFC2833 telephone event. Thus, Nortel originated calls where DMTF relay is required such as password entry, menu navigation, etc. are not supported.

Call Conference

- To ensure conference calls are sustained, a Media Resource Group (MRG) selecting a Conference Bridge using the defined G729 device pool is created. Please refer to CUCM configuration.

Call Diversion

- For diverted calls, the CUCM uses the SIP Diversion header to pass the redirect information across the SIP Trunk while the Nortel CS1000 uses the SIP History-Info field. Thus, redirected calls from the CUCM to the Nortel side are treated as direct access calls with no redirecting number information. Since the CUCM does not support History-Info field, redirected calls from the Nortel are not recognized by the CUCM. Thus, again, these calls are treated as direct access calls. As a result, Cisco Unity and/or Nortel Call Pilot will not work as a centralized voice mail system for both systems. Users from one system cannot be a subscriber to the VM system hosted by the other system.

Message Waiting Indicator

- Due the reasons provided in the Call Diversion section, the delivery of MWI activation and deactivation messages across the SIP trunk is irrelevant at this time as a user of one system (CUCM or CS1000) cannot be a subscriber to the other systems VM.

T.38 Fax

- Although Nortel is configured to support T.38 fax relay (using G.729), fax transmission and reception to/from CUCM / Service Provider fax endpoints are not successful. The only successful configuration for a successful fax transmission to/from the Nortel CS1000 in this topology is by fax passthrough using codec such as G.711.

Features Supported

- Basic Calls
- Basic Calls with Calling/Connected Name and Number as allowed or restricted- Refer to the limitation section
- Call Conferencing- Refer to the limitation section
- Hold and Resume w/ MoH. - Refer to the limitation section
- Call Transfer (Blind, Attended, Early Attended)-Refer to the limitation section
- Call Forwarding – Find Me (Unconditional, Busy, No Answer)
- Simultaneous Calls
- CPE Auto Attendant
- Fax Pass-through
- DTMF Relay between Cisco UCM and Service Provider
- Voice Messaging – Refer to the limitation section for Call Diversion
- Mid-Call Codec Negotiation



- Dial Plans

Features Not Supported

- DMTF relay between Nortel CS1000 and CUCM / SP via CUCM-SME
- PRACK with SDP early media cut through
- T.38 Fax G3 / SG3
- Feature Codes from Nortel to SP via CUCM-SME
- SP IP Teleconferencing – Refer to the limitation section for DTMF relay



System Components

Hardware Requirements

- Cisco Unified Communications Manager MCS -7825H server: 2-node min cluster to serve as Cisco UCM-SME
- Cisco Unified Communications Manager MCS-7825H server to serve as another CPE or PBX
- Cisco 3825 IOS for MTP
- Cisco 1760 Router – as FAX gateway
- Unity server MCS-7835H
- Catalyst switch 3560 PoE-48
- Cisco 7961 and 7960 IP phones
- Cisco 3825 to serve as Cisco Unified Border Element (CUBE)
- Nortel CS1000E
 - Nortel IP phones (I2004)
 - Signaling Server
 - Call Server
 - Media Gateway

Software Requirements

The following software is required:

- Cisco Unified Communications Manager – Session Manager Edition (Cisco UCM-SME) Release 7.1(3)
- Cisco Unified Communications Manager (Cisco UCM) Rel. 7.1(3)
- Cisco Unified Border Element (CUBE) IOS Release
- Nortel CS1000 PBX Rel. 4.5
- Cisco IOS Release or Cisco CatOS Release (for the gateway)



Configuration

System Configuration

This section contains configuration menus and commands and describes configuration sequences and tasks.

Configuring the Nortel CS1000S

Element Manager Configuration

Nortel CS1000 System Overview

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 - Loops
 - Superloops
 - SNMP
 - + Software
- IP Telephony
 - + Nodes: Servers, Media Cards
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 - + Personal Directories
 - + Software
- Customers
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 - Electronic Switched Network
 - Network Routing Service
 - Flexible Code Restriction
 - Incoming Digit Conversion
- Services
 - + Backup and Restore
 - Date and Time
 - + Logs and Reports
 - + Security

Managing: [10.86.17.25](#)
Home - System Overview

Home - System Overview

- System Identification (SNMP)

Site Name

System Name

Contact Name System Contact

SNMP System Name System Name

SNMP Location System Location

- Call Server

IP Address 10.86.17.25

Type Nortel Communication Server 1000S/M

Version 2121

Release 450W

Redundancy State NOT APPLICABLE

CPU and Health State NOT APPLICABLE

+ Signaling Server

+ Web Server

- Users Logged into this Signaling Server

Nortel CS1000 System Node Configuration

CS 1000 ELEMENT MANAGER Help | Logout

Managing: **10.86.17.25**
 IP Telephony > Nodes: Servers, Media Cards > Node Configuration > IP Telephony: Node ID 1 > Edit

Edit

- Node Node ID 1

Voice LAN (TLAN) Node IP address *

Management LAN (ELAN) gateway IP address

Management LAN (ELAN) subnet mask

Voice LAN (TLAN) subnet mask

- SNMP

Enable SNMP traps

| IP address | Subnet mask | |
|--|--|---------------------------------------|
| <input style="border: 1px solid gray;" type="text" value="0.0.0.0"/> | <input style="border: 1px solid gray;" type="text" value="255.255.254.0"/> | <input type="button" value="Remove"/> |

- VGW and IP phone codec profile

Enable Echo canceller

Echo canceller tail delay

Voice activity detection threshold Range: -20 to +10

Idle noise level Range: -327 to +327

DTMF Tone detection

Enable V.21 FAX tone detection

FAX maximum rate (bps)

FAX playout nominal delay Range: 0 to 300

FAX no activity timeout Range: 10 to 32000

Nortel Node IP Address



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FAX no activity timeout Range: 10 to 32000

FAX packet size

- Codec G711 Select

Codec Name **G711**

Voice payload size (ms/frame)

Voice playback (jitter buffer) nominal delay Modifications: may cause changes to dependent settings

Voice playback (jitter buffer) maximum delay Modifications: may cause changes to dependent settings

VAD

- Codec G729A Select

Codec Name **G729A**

Voice payload size (ms/frame)

Voice playback (jitter buffer) nominal delay Modifications: may cause changes to dependent settings

Voice playback (jitter buffer) maximum delay Modifications: may cause changes to dependent settings

VAD

- Codec G723.1 Select

Codec Name **G723.1**

Voice payload size (ms/frame)

Voice playback (jitter buffer) nominal delay Modifications: may cause changes to dependent settings

Voice playback (jitter buffer) maximum delay Modifications: may cause changes to dependent settings

VAD

- Codec T38 FAX Select



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- Codec T38 FAX Select

Codec Name T38 FAX

- QoS

Diffserv Codepoint(DSCP) Control packets Range: 0 to 63

Diffserv Codepoint(DSCP) Voice packets Range: 0 to 63

Enable 802.1Q support

802.1Q Bits value (802.1p) Range: 0 to 7

- LAN configuration

Management LAN (ELAN) configuration

Call server IP address

Survivable Succession Media Gateway IP address

Signaling port Range: 1024 to 65535

Broadcast port Range: 1024 to 65535

Voice LAN (TLAN) configuration

Signaling port Range: 1024 to 65535

Voice port Range: 1024 to 65535

Routes

Host Table

- SNTP

SNTP Server

Mode

Interval Range: 1 to 2147483647

Port

SNTP Client

Mode



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SNTP Client

Mode

Interval Range: 1 to 2147483647

Port

SNTP server IP address

- H323 GW Settings

Primary gatekeeper IP address

Alternate gatekeeper IP address

Primary Network Connect Server IP address

Primary Network Connect Server Port number Range: 1024 to 65535

Alternate Network Connect Server IP address

Alternate Network Connect Server Port number Range: 1024 to 65535

Primary Network Connect Server timeout Range: 1 to 30

- Firmware

Firmware download server IP address

Firmware file path

User ID

Password

- SIP GW Settings

Primary Proxy / Re-direct IP address

Primary Proxy / Re-direct IP Port

Primary Proxy Supports Registration

Primary CDS Proxy or Re-direct server flag

Secondary Proxy / Re-direct IP address



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- SIP URI Map

| | |
|---|-----------------------------------|
| Public E.164/National domain name | <input type="text" value="+1"/> |
| Public E.164/Subscriber domain name | <input type="text" value="+732"/> |
| Public E.164/Unknown domain name | <input type="text"/> |
| Public E.164/Special Number domain name | <input type="text"/> |
| Private/UDP domain name | <input type="text"/> |
| Private/CDP domain name | <input type="text"/> |
| Private/Special Number domain name | <input type="text"/> |
| Private/Unknown (vacant number routing) domain name | <input type="text"/> |
| Unknown/Unknown domain name | <input type="text"/> |

- SIP CD Services

| | |
|---|---|
| Service Enabled | <input type="checkbox"/> |
| Service DN used for making VTRK call from Agent | <input type="text"/> |
| Converged Telephone Call Forward DN | <input type="text"/> |
| User Info. field for Invite message on the Converged Desktop MO Set | sip:convergeddesktop@pbxlab.org;nortelconverged=continueforce |
| User Info. field for Invite message on the Converged Desktop MV Set | sip:convergeddesktop@pbxlab.org;nortelconverged=conditionalfork |
| User Info. field in the notify message for Converged Desktop | sip:convergeddesktop@pbxlab.org |
| RAN route for Announce | <input type="text"/> Range: 0 to 127 |
| Wait time before a caller is sent to RAN Queue | <input type="text"/> Range: -1 to +32767 |
| Timeout for Ringing indication of the CD set | 10 Range: 5 to 60 |
| Timeout for CD Server | 5 Range: 1 to 30 |
| Timeout for call answered by other than CD phone set | 2 Range: 2 to 60 |

- SIP CTI Services

Service Enabled



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- SIP CTI Services Service Enabled

CTI Settings

Customer Number Range: 0 to 99

Maximum Associations per DN

International Calls As National

Dial Plan Prefix

National Prefix

International Prefix

Location Code Call Prefix

Special Number Prefix

Subscriber Prefix

CLID Parameters

Dialing Plan

Calling Device URI Format

Home Location Code

Country Code

Area Code

Subscriber / Number of digits to strip

Subscriber / Prefix to insert

National / Number of digits to strip

National / Prefix to insert

- Cards

- Card 10.86.17.27 Properties



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- Cards Add

- Card 10.86.17.27 Properties Remove

Role Follower

Management LAN (ELAN) IP address *

Management LAN (ELAN) MAC address *

Voice LAN (TLAN) IP address *

Voice LAN (TLAN) gateway IP address

Hostname *

Card TN *

Card processor type ▼

H323 ID

Enable Line TPS

System name

System location

System contact

- Signaling Servers Add

- Signaling Server 10.86.17.24 Properties Remove

Role Leader

Management LAN (ELAN) IP address *

Management LAN (ELAN) MAC address *

Voice LAN (TLAN) IP address *

Voice LAN (TLAN) gateway IP address

Hostname *



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- Signaling Servers Add

- Signaling Server 10.86.17.24 Properties Remove

Role Leader

Management LAN (ELAN) IP address

Management LAN (ELAN) MAC address

Voice LAN (TLAN) IP address

Voice LAN (TLAN) gateway IP address

Hostname

H323 ID

Enable Line TPS

Enable IP Peer Gateway (Virtual Trunk TPS)

Enable SIP Proxy / Redirect Server

SIP Transport Protocol

Local SIP Port

SIP Domain name

SIP Gateway Endpoint Name

SIP Gateway Authentication Password

Enable Gatekeeper

Network Routing Service Role

System name

System location

System contact



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Managing: 10.86.17.25
IP Telephony > Zones > Zone 4 > Zone Basic Property and Bandwidth Management

Zone Basic Property and Bandwidth Management

| Input Description | Input Value |
|----------------------------------|---------------------|
| Zone Number (ZONE): | 4 |
| Intrazone Bandwidth (INTRA_BW): | 1000000 |
| Intrazone Strategy (INTRA_STGY): | Best Quality (BQ) |
| Interzone Bandwidth (INTER_BW): | 1000000 |
| Interzone Strategy (INTER_STGY): | Best Bandwidth (BB) |
| Resource Type (RES_TYPE): | Shared (SHARED) |
| Zone Intent (ZBRN): | VTRK (VTRK) |
| Description (ZDES): | TODMZ |

Submit Refresh Delete Cancel



CS 1000 ELEMENT MANAGER Help | Logout

Managing: **10.86.17.25**
IP Telephony > Zones > Zone 5 > Zone Basic Property and Bandwidth Management

Zone Basic Property and Bandwidth Management

| Input Description | Input Value |
|----------------------------------|---------------------|
| Zone Number (ZONE): | 5 |
| Intrazone Bandwidth (INTRA_BW): | 1000000 |
| Intrazone Strategy (INTRA_STGY): | Best Quality (BQ) |
| Interzone Bandwidth (INTER_BW): | 1000000 |
| Interzone Strategy (INTER_STGY): | Best Bandwidth (BB) |
| Resource Type (RES_TYPE): | Shared (SHARED) |
| Zone Intent (ZBRN): | VTRK (VTRK) |
| Description (ZDES): | SUCCESSION |

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Network Routing Service (NRS) Configuration

NRS Overview Settings

NETWORK ROUTING SERVICE MANAGER

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Location: Home > NRS Overview >

=> IRS Overview

System Wide Settings

NRS Server Settings

Network Routing Service

| | |
|--------------------------------|--------------|
| Software version | sse-4.50.88 |
| Connected NRS role | PrimaryNRS |
| Primary NRS IP (TLAN) | 10.10.61.3 |
| Primary NRS state | ACTIVE |
| Alternate NRS IP (TLAN) | 10.10.61.130 |
| Alternate NRS state | UNKNOWN |
| Alternate permanent in service | OFF |

Configured Components

| | |
|----------------------------|----|
| # of Service Domains | 2 |
| # of L1 Domains (UDP) | 2 |
| # of L0 Domains (CDP) | 3 |
| # of Gateway Endpoints | 11 |
| # of User Endpoints | 4 |
| # of Routing Entries | 48 |
| # of Default Routes | 6 |
| # of Collaborative Servers | 0 |

Users Logged Into This NRS Manager

| | |
|-------|-------------|
| admin | 10.10.61.50 |
|-------|-------------|

NRS Server Settings

NETWORK ROUTING SERVICE MANAGER

Home
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Administration

[Help](#) | [Logout](#)

Location: Home > NRS Server Settings >

NRS Overview

System Wide Settings

[=> NRS Server Settings](#)

NRS Settings

Host name *

Primary IP (TLAN) *

Alternate IP (TLAN) *

Control priority

H.323 Gatekeeper Settings

Location request (LRQ) response timeout [Seconds]

SIP Server Settings

Mode

UDP transport enabled

UDP port

UDP maximum transmission unit (MTU)

TCP transport enabled

TCP port

TCP maximum transmission unit (MTU)

Network Connection Server (NCS) Settings

Primary NCS port

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IRS Overview

System Wide Settings

=> [IRS Server Settings](#)

Location request (LRQ) response timeout [Seconds]

H.323 Gatekeeper Settings

Location request (LRQ) response timeout [Seconds]

SIP Server Settings

Mode

UDP transport enabled

UDP port

UDP maximum transmission unit (MTU)

TCP transport enabled

TCP port

TCP maximum transmission unit (MTU)

Network Connection Server (NCS) Settings

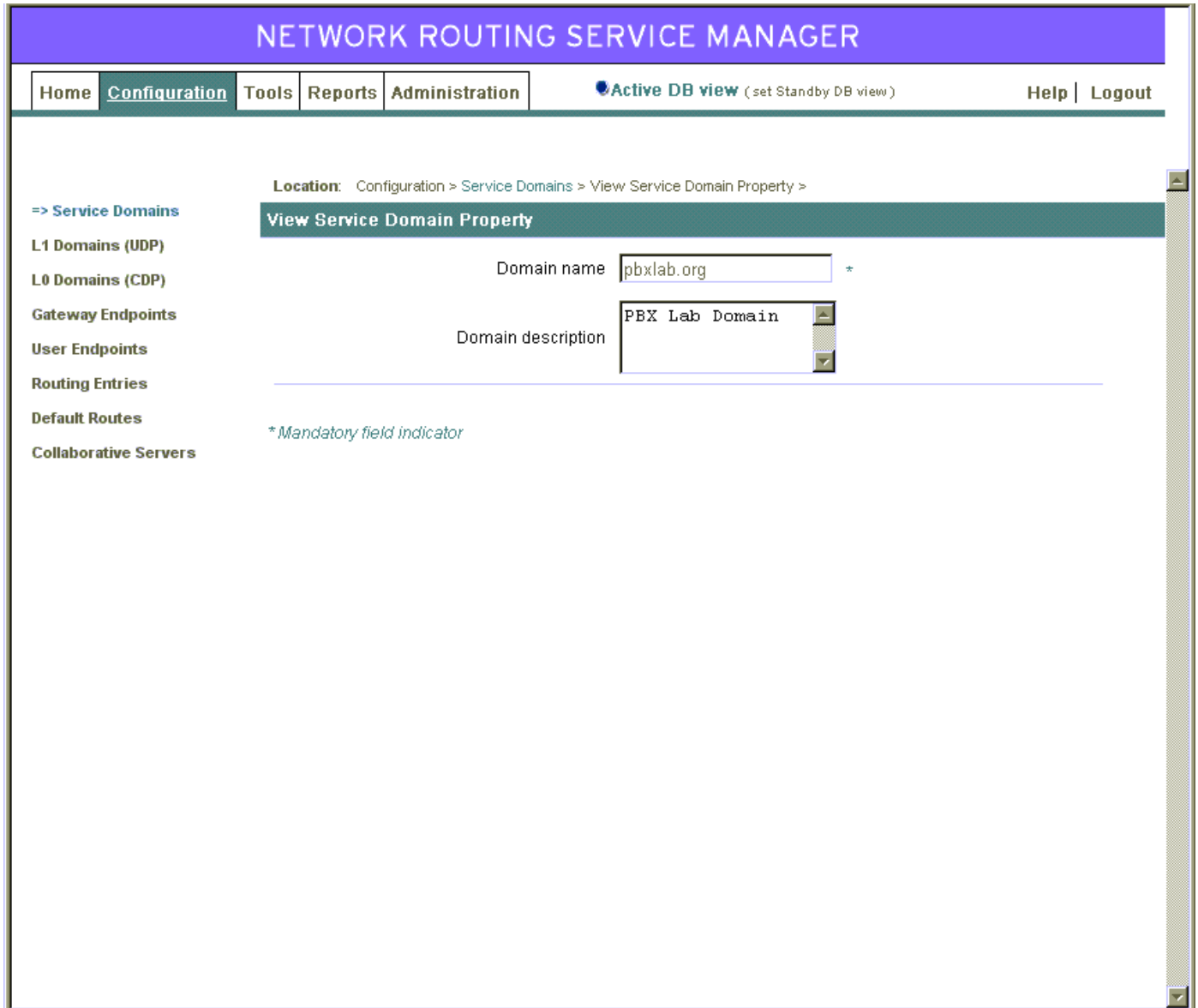
Primary NCS port

Alternate NCS port

Primary NCS timeout [Seconds]

*Mandatory field indicator

Service Domain Settings (pbxlab.org)



The screenshot displays the 'NETWORK ROUTING SERVICE MANAGER' web interface. The top navigation bar includes 'Home', 'Configuration', 'Tools', 'Reports', and 'Administration'. The 'Configuration' tab is active, and the current view is 'Active DB view (set Standby DB view)'. The breadcrumb trail indicates the path: Configuration > Service Domains > View Service Domain Property >. The main content area is titled 'View Service Domain Property' and shows the following fields:

- Domain name:** pbxlab.org *
- Domain description:** PBX Lab Domain

A note below the fields states: *Mandatory field indicator. On the left side, a sidebar menu lists various configuration categories: Service Domains, L1 Domains (UDP), L0 Domains (CDP), Gateway Endpoints, User Endpoints, Routing Entries, Default Routes, and Collaborative Servers.

L1 Domain Settings

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Location: Configuration > L1 Domains (UDP) > View L1 Domain Property >

View L1 Domain Property (pbxlab.org)

Service Domains

=> L1 Domains (UDP)

L0 Domains (CDP)

Gateway Endpoints

User Endpoints

Routing Entries

Default Routes

Collaborative Servers

| | |
|--|---|
| Domain name | <input style="width: 90%;" type="text" value="rtp"/> * |
| Domain description | <input style="width: 90%;" type="text"/> |
| Endpoint authentication enabled | <input type="text" value="Authentication off"/> |
| Authentication password | <input style="width: 90%;" type="text"/> |
| E.164 country code | <input style="width: 90%;" type="text" value="1"/> * |
| E.164 area code | <input style="width: 90%;" type="text" value="650"/> * |
| E.164 international dialing access code | <input style="width: 90%;" type="text" value="011"/> |
| E.164 national dialing access code | <input style="width: 90%;" type="text" value="9"/> |
| E.164 local (subscriber) dialing access code | <input style="width: 90%;" type="text" value="9"/> |
| Private L1 domain (UDP location) dialing access code | <input style="width: 90%;" type="text" value="9"/> |
| Special number | <input style="width: 90%;" type="text"/> |
| Emergency service access prefix | <input style="width: 90%;" type="text"/> |
| Special number label | <input style="width: 90%;" type="text" value="PrivateSpecial"/> |

*Mandatory field indicator

L0 Domain Settings

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Administration
Active DB view (set Standby DB view)
 Help | Logout

Location: Configuration > L0 Domains (CDP) > View L0 Domain Property >

View L0 Domain Property (pbxlab.org / rtp)

| | |
|--|--|
| <p>Service Domains</p> <p>L1 Domains (UDP)</p> <p style="color: #4a7ebb;">=> L0 Domains (CDP)</p> <p>Gateway Endpoints</p> <p>User Endpoints</p> <p>Routing Entries</p> <p>Default Routes</p> <p>Collaborative Servers</p> | <p>Domain name <input style="border: 1px solid #ccc;" type="text" value="interop"/> *</p> <p>Domain description <input style="border: 1px solid #ccc;" type="text"/></p> <p>Endpoint authentication enabled <input style="border: 1px solid #ccc;" type="text" value="Not configured"/></p> <p>Authentication password <input style="border: 1px solid #ccc;" type="text"/></p> <p>E.164 country code <input style="border: 1px solid #ccc;" type="text" value="1"/></p> <p>E.164 area code <input style="border: 1px solid #ccc;" type="text" value="415"/></p> <p>Private unqualified number label <input style="border: 1px solid #ccc;" type="text" value="PrivateUnknown"/></p> <p>E.164 international dialing access code <input style="border: 1px solid #ccc;" type="text" value="011"/></p> <p>E.164 national dialing access code <input style="border: 1px solid #ccc;" type="text" value="9"/></p> <p>E.164 local (subscriber) dialing access code <input style="border: 1px solid #ccc;" type="text" value="9"/></p> <p>Private L1 domain (UDP location) dialing access code <input style="border: 1px solid #ccc;" type="text" value="9"/></p> <p>Special number <input style="border: 1px solid #ccc;" type="text"/></p> <p>Emergency service access prefix <input style="border: 1px solid #ccc;" type="text"/></p> |
|--|--|

*Mandatory field indicator

Gateway Endpoint Entry Settings

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[Active DB view](#) (set Standby DB view)
 [Help](#) | [Logout](#)

Location: Configuration > Gateway Endpoints > View Gateway Endpoint Property >

View Gateway Endpoint Property (pbxlab.org / rtp / interop)

| | |
|---|---|
| Endpoint name | <input style="width: 90%;" type="text" value="CM-SIENNA"/> * |
| Endpoint description | <input style="width: 90%;" type="text" value="route to SME"/> <input style="width: 90%;" type="text" value="172.31.150.254"/> |
| Tandem gateway endpoint name | <input style="width: 90%;" type="text"/> Look up |
| Endpoint authentication enabled | <input style="width: 90%;" type="text" value="Not configured"/> |
| Authentication password | <input style="width: 90%;" type="text"/> |
| E.164 country code | <input style="width: 90%;" type="text" value="1"/> |
| E.164 area code | <input style="width: 90%;" type="text" value="650"/> |
| E.164 international dialing access code | <input style="width: 90%;" type="text" value="8"/> |
| E.164 national dialing access code | <input style="width: 90%;" type="text" value="8"/> |
| E.164 local (subscriber) dialing access code | <input style="width: 90%;" type="text" value="8"/> |
| Private L1 domain (UDP location) dialing access code | <input style="width: 90%;" type="text" value="8"/> |
| Private special number 1 | <input style="width: 90%;" type="text"/> |
| Private special number 2 | <input style="width: 90%;" type="text"/> |
| Static endpoint address type | <input style="width: 90%;" type="text" value="IP version 4"/> |
| Static endpoint address | <input style="width: 90%;" type="text" value="172.31.150.128"/> |

NETWORK ROUTING SERVICE MANAGER

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● **Active DB view** (set Standby DB view)

[Help](#) | [Logout](#)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------------------|--------------------------|------------------|--------------------------|--|-------------------------|----------------------|--|--|--|--------------------|--------------------------------|--|--|--|-----------------|----------------------------------|--|--|--|---|--------------------------------|--|--|--|------------------------------------|--------------------------------|--|--|--|--|--------------------------------|--|--|--|--|--------------------------------|--|--|--|--------------------------|----------------------|--|--|--|--------------------------|----------------------|--|--|--|------------------------------|---|--|--|--|-------------------------|---|--|--|--|---------------|---|--|--|--|-------------|--|--|--|--|---------------|----------------------------------|--|--|--|----------|-----------------------------------|--|--|--|-----------------------------------|--------------------------|--|--|--|
| <ul style="list-style-type: none"> Service Domains L1 Domains (UDP) L0 Domains (CDP) => Gateway Endpoints User Endpoints Routing Entries Default Routes Collaborative Servers | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Endpoint authentication enabled</td> <td style="width: 10%;"><input type="checkbox"/></td> <td style="width: 10%;">[NOT CONFIGURED]</td> <td style="width: 10%;"><input type="checkbox"/></td> <td style="width: 20%;"></td> </tr> <tr> <td>Authentication password</td> <td colspan="4"><input type="text"/></td> </tr> <tr> <td>E.164 country code</td> <td colspan="4"><input type="text" value="1"/></td> </tr> <tr> <td>E.164 area code</td> <td colspan="4"><input type="text" value="650"/></td> </tr> <tr> <td>E.164 international dialing access code</td> <td colspan="4"><input type="text" value="8"/></td> </tr> <tr> <td>E.164 national dialing access code</td> <td colspan="4"><input type="text" value="8"/></td> </tr> <tr> <td>E.164 local (subscriber) dialing access code</td> <td colspan="4"><input type="text" value="8"/></td> </tr> <tr> <td>Private L1 domain (UDP location) dialing access code</td> <td colspan="4"><input type="text" value="8"/></td> </tr> <tr> <td>Private special number 1</td> <td colspan="4"><input type="text"/></td> </tr> <tr> <td>Private special number 2</td> <td colspan="4"><input type="text"/></td> </tr> <tr> <td>Static endpoint address type</td> <td colspan="4"><input type="text" value="IP version 4"/></td> </tr> <tr> <td>Static endpoint address</td> <td colspan="4"><input type="text" value="172.31.150.128"/></td> </tr> <tr> <td>H.323 Support</td> <td colspan="4"><input type="text" value="Not RAS H.323 endpoint"/></td> </tr> <tr> <td>SIP support</td> <td colspan="4"><input type="text" value="Static SIP endpoint"/></td> </tr> <tr> <td>SIP transport</td> <td colspan="4"><input type="text" value="TCP"/></td> </tr> <tr> <td>SIP port</td> <td colspan="4"><input type="text" value="5060"/></td> </tr> <tr> <td>Network Connection Server enabled</td> <td colspan="4"><input type="checkbox"/></td> </tr> </table> | Endpoint authentication enabled | <input type="checkbox"/> | [NOT CONFIGURED] | <input type="checkbox"/> | | Authentication password | <input type="text"/> | | | | E.164 country code | <input type="text" value="1"/> | | | | E.164 area code | <input type="text" value="650"/> | | | | E.164 international dialing access code | <input type="text" value="8"/> | | | | E.164 national dialing access code | <input type="text" value="8"/> | | | | E.164 local (subscriber) dialing access code | <input type="text" value="8"/> | | | | Private L1 domain (UDP location) dialing access code | <input type="text" value="8"/> | | | | Private special number 1 | <input type="text"/> | | | | Private special number 2 | <input type="text"/> | | | | Static endpoint address type | <input type="text" value="IP version 4"/> | | | | Static endpoint address | <input type="text" value="172.31.150.128"/> | | | | H.323 Support | <input type="text" value="Not RAS H.323 endpoint"/> | | | | SIP support | <input type="text" value="Static SIP endpoint"/> | | | | SIP transport | <input type="text" value="TCP"/> | | | | SIP port | <input type="text" value="5060"/> | | | | Network Connection Server enabled | <input type="checkbox"/> | | | |
| Endpoint authentication enabled | <input type="checkbox"/> | [NOT CONFIGURED] | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Authentication password | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E.164 country code | <input type="text" value="1"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E.164 area code | <input type="text" value="650"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E.164 international dialing access code | <input type="text" value="8"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E.164 national dialing access code | <input type="text" value="8"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E.164 local (subscriber) dialing access code | <input type="text" value="8"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Private L1 domain (UDP location) dialing access code | <input type="text" value="8"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Private special number 1 | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Private special number 2 | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Static endpoint address type | <input type="text" value="IP version 4"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Static endpoint address | <input type="text" value="172.31.150.128"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H.323 Support | <input type="text" value="Not RAS H.323 endpoint"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIP support | <input type="text" value="Static SIP endpoint"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIP transport | <input type="text" value="TCP"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIP port | <input type="text" value="5060"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Connection Server enabled | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*Mandatory field indicator

Routing Entries Settings

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Service Domains

L1 Domains (UDP)

L0 Domains (CDP)

Gateway Endpoints

User Endpoints

=> [Routing Entries](#)

Default Routes

Collaborative Servers

Routing Entries

Show Routing Entries for (Service Domain / L1 Domain / L0 Domain / Endpoint)
 Select domains and enter a gateway endpoint name to show specified routing entries.
 Use the wildcard * by itself for all gateway endpoints :

/
 /
 /

Gateway Endpoint: [Look up](#)

With DN Type:

| # | DN Prefix | DN Type | Route Cost | SIP URI Phone Context |
|---|----------------------|--|------------|-----------------------|
| 1 | 011 | E.164 international | 1 | + |
| 2 | 1408 | E.164 national | 1 | +1 |
| 3 | 1732 | E.164 national | 1 | +1 |
| 4 | 1800 | E.164 national | 1 | +1 |
| 5 | 1925 | E.164 national | 1 | +1 |
| 6 | 45 | Private level 0 regional (CDP steering code) | 1 | interop.rtp |
| 7 | 48 | Private level 0 regional (CDP steering code) | 1 | interop.rtp |
| 8 | 56 | Private level 0 regional (CDP steering code) | 1 | interop.rtp |

Showing 1 - 8 of 8 < Previous | Next >



Call Server Setup

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 3
ADAN DCH 3
CTYP DCIP
DES SIP Trunk
USR ISLD
ISLM 4000
SSRC 1800
OTBF 32
NASA NO
IFC SL1
CNEG 1
RLS ID 4
RCAP ND2
MBGA NO
H323
OVLN NO
OVLS NO
```

LD 97 – Configure the Super-loop for the Virtual Trunks

```
>ld 97
MEM AVAIL: (U/P): 2854769 USED U P: 182454 59352 TOT: 3096575
DISK RECS AVAIL: 1152
REQ prt
TYPE supl
SUPL
SUPL SUPT SLOT XPEC0 XPEC1
000 STD LEFT 01 0 1 ----
004 STD LEFT 02 0 1 ----
008 STD LEFT 03 0 1 ----
012 STD LEFT 04 0 1 ----
016 STD LEFT 05 0 1 ----
032 STD LEFT 06 0 3 ----
036 STD LEFT 07 0 3 ----
040 STD LEFT 08 0 3 ----
044 STD LEFT 10 0 3 ----
048 STD LEFT 09 0 3 ----
064 STD LEFT 11 0 3 ----
068 STD LEFT 12 0 3 ----
072 STD LEFT 13 0 3 ----
096 ---- ----PHANTOM
100 VIRTUAL CARDS 65 - 68 85 - 88
104 VIRTUAL CARDS 69 - 72 89 - 92
108 VIRTUAL CARDS 73 - 76 93 - 96
112 VIRTUAL CARDS 77 - 80 97 - 99
128 STD LEFT 32 0 1 33 2 3
132 STD LEFT 34 0 1 35 2 3
136 STD LEFT 36 0 1 37 2 3
```



140 STD LEFT 38 0 1 39 2 3
144 STD LEFT 40 0 1 41 2 3
148 STD LEFT 42 0 1 43 2 3
152 STD LEFT 44 0 1 45 2 3
156 STD LEFT 46 0 1 47 2 3

LD 21 - Route Data Block

TYPE: rdb
CUST 0
ROUT 23
TYPE RDB
CUST 00
DMOD
ROUT 23
DES SIP_TIE
TKTP TIE
NPID_TBL_NUM 0
ESN NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 004
PCID SIP
CRID YES
NODE 1
DTRK NO
ISDN YES
MODE ISLD
DCH 22
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 3999
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
PAGE 002
TFD 0
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
FRL 0 0
FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
OHQ NO
OHQT 00
CBQ NO
AUTH NO
TTBL 0
ATAN NO
OHTD NO
PLEV 2
ALRM NO
ART 0



SGRP 0
AACR NO
REQ:

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

```
>ld 86
ESN000
MEM AVAIL: (U/P): 2819994 USED U P: 223389 69576 TOT: 3112959
DISK RECS AVAIL: 1152
REQ prt
CUST 0
FEAT rlb
RLI 20
RLI 20
ENTR 0
LTER NO
ROUT 23
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
SBOC NRR
IDBB DBD
IOHQ NO
OHQ NO
CBQ NO
ISET 0
NALT 5
MFRL 0
OVLL 0
```

LD 87 – Configure CDP steering codes

```
>ld 87
ESN000
MEM AVAIL: (U/P): 2819994 USED U P: 223389 69576 TOT: 3112959
DISK RECS AVAIL: 1152
REQ prt
CUST 0
FEAT cdp
TYPE dsc
DSC
DSC 408
FLEN 0
DSP LSC
RLI 20
NPA
```



NXX
DSC 48
FLEN 0
DSP LSC
RLI 20
NPA
NXX

LD 21 – List Trunk Members

>Ld 21
PT1000
REQ: ltm
CUST 0
ROUT 23
TYPE TLST
TKTP TIE
ROUT 23
DES SIP_TIE
TN 068 0 00 00 MBER 1 SIP_IP_VTRK
TN 068 0 00 01 MBER 2 SIP_IP_VTRK
TN 068 0 00 02 MBER 3 SIP_IP_VTRK
TN 068 0 00 03 MBER 4 SIP_IP_VTRK
TN 068 0 00 04 MBER 5 SIP_IP_VTRK

LD 87 - COORDINATED DIALING PLAN

>LD 87

ESN000

MEM AVAIL: (U/P): 735094 USED U P: 268104 78145 TOT: 1081343

DISK RECS AVAIL: 768

REQ PRT

CUST 0

FEAT CDP

TYPE DSC

DSC 48

DSC 48



FLEN 0

DSP LSC

RLI 20

NPA

NXX

LD 90 Number Plan area code data block

>LD 90

ESN000

MEM AVAIL: (U/P): 735094 USED U P: 268104 78145 TOT: 1081343

DISK RECS AVAIL: 768

REQ PRT

CUST 0

FEAT NET

TRAN AC1

TYPE NPA

NPA 1408

RLI 20

SDRR NONE

ITEI NONE

NPA 1800



RLI 20

SDRR NONE

ITEI NONE

NPA 1732

RLI 20

SDRR NONE

ITEI NONE

MEM AVAIL: (U/P): 735094 USED U P: 268104 78145 TOT: 1081343

DISK RECS AVAIL: 768

LD 10 and LD 11 STATION PHONE CONFIGURATION

>LD 11

SL1000

MEM AVAIL: (U/P): 735097 USED U P: 268104 78142 TOT: 1081343

DISK RECS AVAIL: 768

DIGITAL TELEPHONES AVAIL: 31 USED: 17 TOT: 48

IP USERS AVAIL: 0 USED: 32 TOT: 32

BASIC IP USERS AVAIL: 0 USED: 0 TOT: 0

ACD AGENTS AVAIL: 5 USED: 10 TOT: 15

PCA AVAIL: 0 USED: 0 TOT: 0



AST AVAIL: 1 USED: 0 TOT: 1
TNS AVAIL: 2258 USED: 242 TOT: 2500
DATA PORTS AVAIL: 2499 USED: 1 TOT: 2500
REQ: PRT
TYPE: I2004
TN 65 0 0 7
DATE
PAGE
DES
KEM_RANGE
DES SMEPHN
TN 065 0 00 07 VIRTUAL
TYPE I2004
CDEN 8D
CUST 0
ZONE 005
FDN 814085771764
TGAR 1
LDN NO
NCOS 5
SGRP 0
RNPG 0
SCI 0
SSU
LNRS 16
XLST
SCPW



CLS CTD FBD WTA LPR MTD FNA HTA TDD HFA CRPD
MWD LMPN RMMD SMWD AAD IMD XHD IRD NIA OLD VCE DRG1
POD DSX VMD CMSD SLKD CCSD SWD LNA CNDA
CFTA SFD MRD DDV CNIA CDCA MSID DAPA BFED RCBD
ICDD CDMD LLCN MCTD CLBD AUTU
GPUD DPUD DNDA CFXA ARHD CLTD ASCD
CPFA CPTA ABDD CFHD FICD NAIA BUZZ AGRD MOAD AHD
DDGA NAMA
DRDD EXR0
USMD USRD ULAD RTDD RBDD RBHD PGND OCBF FLXD FTTC DNDY DNO3 MCBN
VOLA VOUD CDMR ICRD KEM2
CPND_LANG ENG
RCO 1
EFD 814085771764
HUNT 814085771764
EHT 814085771764
LHK 1
LPK 0
PLEV 02
CSDN
AST
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0
DNDR 0



KEY 00 SCR 5194 0 MARP

CPND

NAME NT_Phone1

XPLN 9

DISPLAY_FMT FIRST, LAST

01

02

03

04

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17 TRN

18 AO6

19 CFW 16 814085771764

20 RGA

21 PRK

22 RNP



23
24 PRS
25 CHG
26 CPN
DATE 14 OCT 2009
>ld 10
PBX000
MEM AVAIL: (U/P): 99144988 USED U P: 5042494 64931 TOT: 104252413
DISK SPACE NEEDED: 49 KBYTES
ANALOGUE TELEPHONES AVAIL: 7 USED: 1 TOT: 8
CLASS TELEPHONES AVAIL: 0 USED: 0 TOT: 0
WIRELESS TELEPHONES AVAIL: 0 USED: 0 TOT: 0
WIRELESS VISITORS AVAIL: 0 USED: 0 TOT: 0
ACD AGENTS AVAIL: 10 USED: 0 TOT: 10
AST AVAIL: 5 USED: 0 TOT: 5
SIP CONVERGED DESKTOPS AVAIL: 0 USED: 0 TOT: 0
SIP CTI TR87 AVAIL: 5 USED: 0 TOT: 5
TNS AVAIL: 32544 USED: 216 TOT: 32760
DATA PORTS AVAIL: 32760 USED: 0 TOT: 32760
PHANTOM PORTS AVAIL: 32760 USED: 0 TOT: 32760

REQ: prt
TYPE: 500
TN
CDEN
CUST
TEN



DATE
PAGE
DES
DES ANLG
TN 033 0 00 00 VIRTUAL
TYPE 500
CDEN 4D
CUST 0
ERL 00000
WRLS NO
DN 5195 0 MARP
AST NO
IAPG 0
HUNT
TGAR 0
LDN NO
NCOS 0
SGRP 0
RNPG 0
XLST
SCI 0
CLS UNR DTN FBD XFD WTA THFD FND HTD ONS
LPR XRD CWD SWD MWD RMMD SMWD LPD XHD SLKD CCSD LND TVD
CFTD SFD MRD C6D CNID CLBD AUTU
ICDD CDMD LLCN EHTD MCTD
GPUD DPUD CFXD ARHD OVDD AGTD CLTD LDTD ASCD
MBXD CPFA CPTA DDGA NAMA MIND



MCRD

EXR0 SHL ABDD CFHD DNDY DNO3

CWND USMD USRD BNRD RTDD RBDD RBHD FAXD CNUD CNAD PGND FTTC

CDMR MCDD T87D PKCH

PLEV 02

AACS NO

MLWU_LANG 0

DATE 21 SEP 2009

NACT



Cisco Unified Communications Manager- Session Manager Edition Configuration

Cisco Unified Communications Manager – Session Manager Edition – Software Release

The screenshot displays the Cisco Unified CM Administration web interface. At the top left is the Cisco logo. The main header reads "Cisco Unified CM Administration" and "For Cisco Unified Communications Solutions". On the right, there is a navigation dropdown menu set to "Cisco Unified CM Administration" with a "Go" button. Below this, the user is logged in as "CCMAdministrator" with links for "About" and "Logout". A secondary navigation menu includes "System", "Call Routing", "Media Resources", "Voice Mail", "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: 7.1.3.10000-3". To the right of the banner is a photograph of server racks in a data center. Below the banner, it shows "Last Successful Logon: Oct 29, 2009 3:37:43 PM", copyright information "Copyright © 1999 - 2009 Cisco Systems, Inc. All rights reserved.", and several paragraphs of legal notices regarding cryptographic features and compliance with U.S. and local laws. Links are provided for "Export Compliance Product Report", "Unified Communications System Documentation", and "Technical Support".



Cisco Unified Communications Manager – Session Manager Edition – Regional Configurations for Codec G711

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Region Configuration Related Links: Back To Find/List

Save Delete Reset Apply Config Add New

Find and List Regions Information

Name*

Region Relationships

| Region | Audio Codec | Video Call Bandwidth | Link Loss Type |
|----------|-------------|----------------------|--------------------|
| Default | G.711 | 384 | Use System Default |
| G729_SME | G.711 | 384 | Use System Default |

NOTE: Regions(s) not displayed Use System Default Use System Default Use System Default

Modify Relationship to other Regions

| Regions | Audio Codec | Video Call Bandwidth | Link Loss Type |
|---|---|---|---|
| <input type="text" value="Default"/> <input type="text" value="G729_SME"/> | <input type="button" value="Keep Current Setting"/> | <input checked="" type="radio"/> Keep Current Setting <input type="radio"/> Use System Default <input type="radio"/> None <input type="text" value=""/> kbps | <input type="button" value="Keep Current Setting"/> |

Save

i *- indicates required item.
i **The Audio Codec selection determines bandwidth only. The G.711 and G.722 codecs both result in a maximum bandwidth of 64 Kbps between regions and can be used interchangeably.

Cisco Unified Communications Manager – Session Manager Edition – Regional Configurations for Codec G729



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Region Configuration Related Links:

Find and List Regions Information

Name*

Region Relationships

| Region | Audio Codec | Video Call Bandwidth | Link Loss Type |
|----------|-------------|----------------------|--------------------|
| Default | G.711 | 384 | Use System Default |
| G729_SME | G.729 | 384 | Use System Default |

NOTE: Regions(s) not displayed Use System Default Use System Default Use System Default

Modify Relationship to other Regions

| Regions | Audio Codec | Video Call Bandwidth | Link Loss Type |
|---|---|---|---|
| <input type="text" value="Default"/> <input type="text" value="G729_SME"/> | <input type="button" value="Keep Current Setting"/> ▾ | <input checked="" type="radio"/> Keep Current Setting <input type="radio"/> Use System Default <input type="radio"/> None <input type="radio"/> <input type="text" value=""/> kbps | <input type="button" value="Keep Current Setting"/> ▾ |

*- indicates required item.

**The Audio Codec selection determines bandwidth only. The G.711 and G.722 codecs both result in a maximum bandwidth of 64 Kbps between regions and can be used interchangeably.



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Find and List Device Pools

Add New

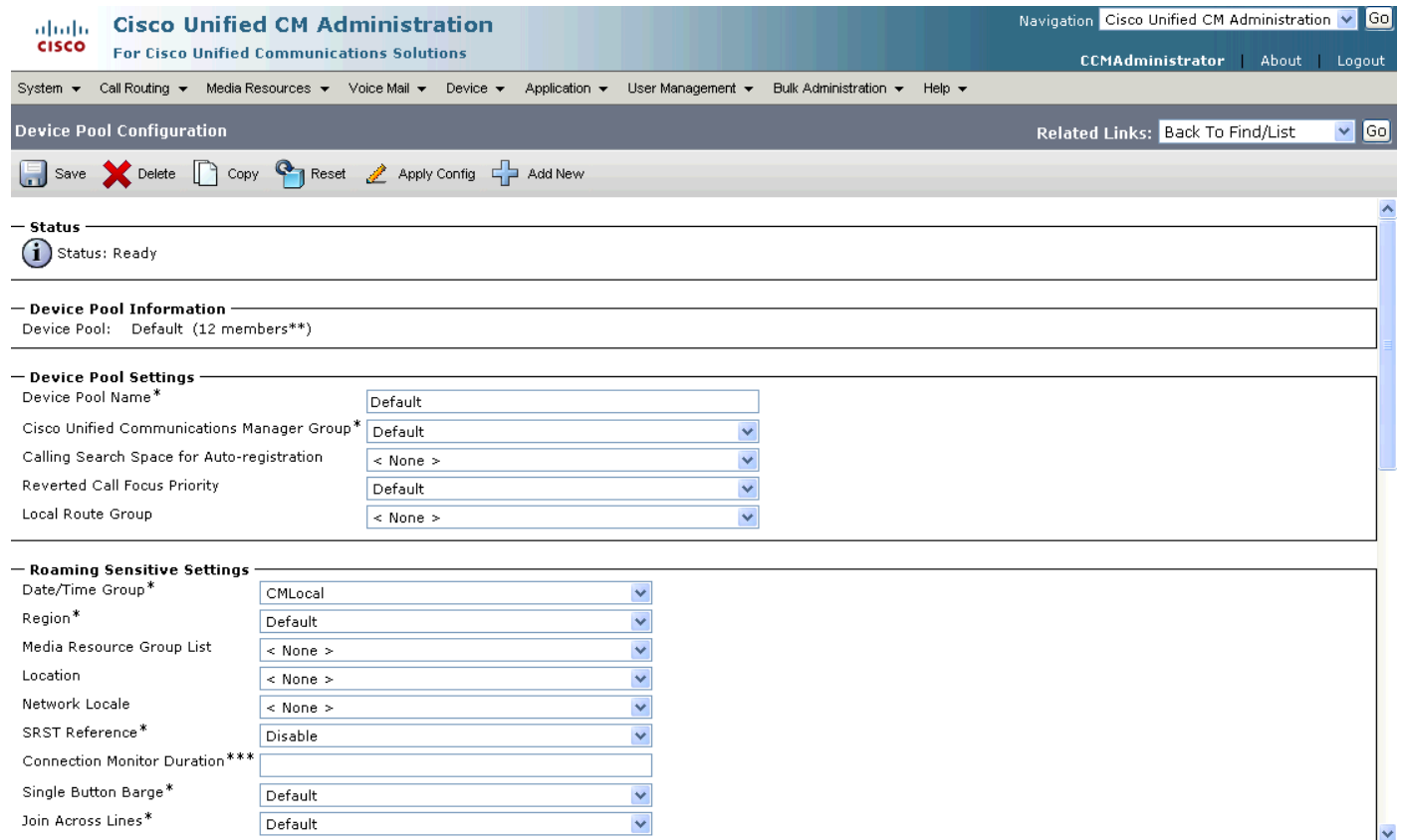
Status
 2 records found

Device Pool (1 - 2 of 2) Rows per Page: 50

Find Device Pool where: begins with

| <input type="checkbox"/> | Name ^ | Cisco Unified CM Group | Region | Date/Time Group | Copy |
|--------------------------|-----------------------------|-------------------------|--------------------------|-------------------------|------|
| <input type="checkbox"/> | Default | Default | Default | CMLocal | |
| <input type="checkbox"/> | G729_SME_DP | Default | G729_SME | CMLocal | |

Cisco Unified Communications Manager – Session Manager Edition – Device Pool Configuration (Default)



The screenshot shows the Cisco Unified CM Administration interface for Device Pool Configuration. The page includes a navigation bar with 'Cisco Unified CM Administration' and 'GO', and a breadcrumb trail: 'System > Call Routing > Media Resources > Voice Mail > Device > Application > User Management > Bulk Administration > Help'. The main title is 'Device Pool Configuration' with a 'Related Links: Back To Find/List' button. Below the title are icons for Save, Delete, Copy, Reset, Apply Config, and Add New. The configuration is organized into sections: Status (Ready), Device Pool Information (Default, 12 members**), Device Pool Settings, and Roaming Sensitive Settings. The Device Pool Settings section includes fields for Device Pool Name (Default), Cisco Unified Communications Manager Group (Default), Calling Search Space for Auto-registration (< None >), Reverted Call Focus Priority (Default), and Local Route Group (< None >). The Roaming Sensitive Settings section includes Date/Time Group (CMLocal), Region (Default), Media Resource Group List (< None >), Location (< None >), Network Locale (< None >), SRST Reference (Disable), Connection Monitor Duration (empty), Single Button Barge (Default), and Join Across Lines (Default).



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Device Pool Configuration Related Links:

Join Across Lines* ▾

Physical Location ▾

Device Mobility Group ▾

— Device Mobility Related Information** —**

Device Mobility Calling Search Space ▾

AAR Calling Search Space ▾

AAR Group ▾

Calling Party Transformation CSS ▾

Called Party Transformation CSS ▾

— Geolocation Configuration —

Geolocation ▾

Geolocation Filter ▾

— 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 | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> ▾ |
| International Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> ▾ |
| Unknown | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> ▾ |

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Device Pool Configuration Related Links:

Geolocation Configuration

Geolocation:

Geolocation Filter:

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 | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| International Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| Subscriber Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |

*- 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 Dependency Records.
 ***Leave the field blank or enter -1 to use the configuration from the enterprise parameter.
 ****These five parameters will overwrite device level settings when device is roaming and in the same device mobility group.



Cisco Unified Communications Manager – Session Manager Edition – Media Termination Point Configuration

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration CCMAdministrator | About | Logout

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

Find and List Media Termination Points

Status
3 records found

Media Termination Point (1 - 3 of 3) 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"/> | MTP00123456789 | SME_MTP | G729_SME_DP | Registered with CM-SIENNA | 172.31.150.88 | <input type="button" value="Copy"/> |
| <input type="checkbox"/> | MTP_2 | MTP_CM-SIENNA | Default | Registered with CM-SIENNA | 172.31.150.254 | Not Allowed |
| <input type="checkbox"/> | MTP_3 | MTP_172.31.150.128 | Default | Registered with CM-SIENNA | 172.31.150.128 | Not Allowed |



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

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Media Termination Point Configuration

Related Links:

Status

Status: Ready

Media Termination Point Information

| | |
|-------------------------------|--|
| Registration | Registered with Cisco Unified Communications Manager CM-SIENNA |
| IPv4 Address | 172.31.150.88 |
| IPv6 Address | 0000:0000:0000:0000:0000:0000:0000:0000 |
| Media Termination Point Type* | Cisco IOS Enhanced Software Media Termination Point |
| Media Termination Point Name* | <input type="text" value="MTP00123456789"/> |
| Description | <input type="text" value="SME_MTP"/> |
| Device Pool* | <input type="text" value="G729_SME_DP"/> |

Trusted Relay Point

*- indicates required item.



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

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Media Termination Point Configuration Related Links: Back To Find/List

Status

Status: Ready

Media Termination Point Information

| | |
|-------------------------------|--|
| Registration | Registered with Cisco Unified Communications Manager CM-SIENNA |
| IPv4 Address | 172.31.150.254 |
| Media Termination Point Type* | Cisco Media Termination Point Software |
| Host Server* | CM-SIENNA |
| Media Termination Point Name* | <input type="text" value="MTP_2"/> |
| Description | <input type="text" value="MTP_CM-SIENNA"/> |
| Device Pool* | <input type="text" value="Default"/> |

Trusted Relay Point

*- indicates required item.

Cisco Unified Communications Manager – Session Manager Edition – Media Resource Group

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration


CCAdministrator | About | Logout

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

Find and List Media Resource Groups



Add New

Status

 2 records found

Media Resource Group (1 - 2 of 2) Rows per Page 50 ▾

Find Media Resource Group where Name ▾ begins with ▾

| <input type="checkbox"/> | Name ^ | Description | Multi-cast | Copy |
|--------------------------|-----------------------------|-------------|------------|---|
| <input type="checkbox"/> | Default_MRG | Default MRG | false |  |
| <input type="checkbox"/> | G729_MRG | G729 | false |  |



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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Media Resource Group Configuration

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

Status
 Status: Ready

Media Resource Group Status
Media Resource Group: G729_MRG (used by 1 devices)

Media Resource Group Information
Name*
Description

Devices for this Group
Available Media Resources**

Selected Media Resources*

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

*- indicates required item.



Cisco Unified Communications Manager – Session Manager Edition Media Resource Group list Configuration

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Find and List Media Resource Group Lists

Add New

Status

2 records found

Media Resource Group List (1 - 2 of 2) Rows per Page: 50

Find Media Resource Group List where Name begins with

| <input type="checkbox"/> | Name ^ | Copy |
|--------------------------|-----------------------------|-------------------------------------|
| <input type="checkbox"/> | Default_MRG | <input type="button" value="Copy"/> |
| <input type="checkbox"/> | G729_MRGL | <input type="button" value="Copy"/> |



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

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Media Resource Group List Configuration Related Links:

Status
 Status: Ready

Media Resource Group List Status
Media Resource Group List: Default_MRG (used by 2 devices)

Media Resource Group List Information
Name*

Media Resource Groups for this List
Available Media Resource Groups
Selected Media Resource Groups

*- indicates required item.



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Media Resource Group List Configuration

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

Save Delete Copy Add New

Status
Status: Ready

Media Resource Group List Status
Media Resource Group List: G729_MRGL (used by 1 devices)

Media Resource Group List Information
Name*

Media Resource Groups for this List

Available Media Resource Groups:

Selected Media Resource Groups:

Save Delete Copy Add New

*- indicates required item.



Cisco Unified Communications Manager – Session Manager Edition- Route Patterns

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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System [Call Routing](#) [Media Resources](#) [Voice Mail](#) [Device](#) [Application](#) [User Management](#) [Bulk Administration](#) [Help](#)

Find and List Route Patterns

[+](#) Add New [Select All](#) [Clear All](#) [Delete Selected](#)

Status
 22 records found

Route Patterns (1 - 22 of 22) Rows per Page 50

Find Route Patterns where begins with [Find](#) [Clear Filter](#) [+](#) [-](#)

| <input type="checkbox"/> | Pattern ^ | Description | Partition | Route Filter | Associated Device | Copy |
|--------------------------|-----------------|-------------|-----------|--------------|-------------------|----------------------|
| <input type="checkbox"/> | *XXXXXXXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 01133143253060 | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 011XXXXXXXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 1.7323680193 | | | | To_Barza_RL | Copy |
| <input type="checkbox"/> | 1.7323680194 | | | | To_Nortel_RL | Copy |
| <input type="checkbox"/> | 14088533140 | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 1408XXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 17323684844 | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 1800XXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 1925XXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 4891 | | | | To_Barza_RL | Copy |
| <input type="checkbox"/> | 4893 | | | | To_Barza_RL | Copy |

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Find and List Route Patterns

[+](#) Add New [Select All](#) [Clear All](#) [Delete Selected](#)

| | | | | | | |
|--------------------------|-------------|--------|--|--|----------------------|----------------------|
| <input type="checkbox"/> | 14088533140 | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 1408XXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 17323684844 | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 1800XXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 1925XXXXXXX | To ATT | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 4891 | | | | To_Barza_RL | Copy |
| <input type="checkbox"/> | 4893 | | | | To_Barza_RL | Copy |
| <input type="checkbox"/> | 4895 | | | | CM-BARZA-H323-ICT | Copy |
| <input type="checkbox"/> | 489X | | | | To_Barza_RL | Copy |
| <input type="checkbox"/> | 50XX | | | | To_Nortel_RL | Copy |
| <input type="checkbox"/> | 5195 | | | | S0/SU3/DS1-0@MGCP_T1 | Copy |
| <input type="checkbox"/> | 5196 | | | | S0/SU2/DS1-0@MGCP_T1 | Copy |
| <input type="checkbox"/> | 6.@ | | | | To_CUBE_RL | Copy |
| <input type="checkbox"/> | 732.3680193 | | | | CM-BARZA-H323-ICT | Copy |
| <input type="checkbox"/> | 7323680194 | | | | S0/SU2/DS1-0@MGCP_T1 | Copy |
| <input type="checkbox"/> | 7323680195 | | | | S0/SU3/DS1-0@MGCP_T1 | Copy |
| <input type="checkbox"/> | 7323684891 | | | | To_Barza_RL | Copy |

[Add New](#) [Select All](#) [Clear All](#) [Delete Selected](#)



Route pattern from SME to Cisco UCM (1+) for analog DID line (for FAX line)

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration Go
CCMAdministrator About Logout

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

Route Pattern Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

Status
Status: Ready

Pattern Definition

Route Pattern* 1.7323680193
Route Partition < None >
Description
Numbering Plan -- Not Selected --
Route Filter < None >
MLPP Precedence* Default
Resource Priority Namespace Network Domain < None >
Gateway/Route List* To_Barza_RL (Edit)
Route Option
 Route this pattern
 Block this pattern No Error
Call Classification* OffNet
 Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
 Require Forced Authorization Code
Authorization Level* 0
 Require Client Matter Code

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration Go
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Route Pattern Configuration Related Links: Back To Find/List Go

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 PreDot
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



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration

Related Links: Back To Find/List Go

Save Delete Copy Add New

Connected Party Transformations

Connected Line ID Presentation* Default
Connected Name Presentation* Default

Called Party Transformations

Discard Digits PreDot
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

*. indicates required item.

Route pattern DID from SME to PBX DID Analog line (Nortel Ext# 5195):



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration [Go](#)
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Route Pattern Configuration Related Links: [Back To Find/List](#) [Go](#)

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

Status
Status: Ready

Pattern Definition

| | |
|--|---|
| Route Pattern* | <input type="text" value="7323680195"/> |
| Route Partition | < None > |
| Description | <input type="text"/> |
| Numbering Plan | -- Not Selected -- |
| Route Filter | < None > |
| MLPP Precedence* | Default |
| Resource Priority Namespace Network Domain | < None > |
| Gateway/Route List* | S0/SU3/DS1-0@MGCP_T1 (Edit) |
| Route Option | <input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="No Error"/> |
| Call Classification* | OffNet |
| <input type="checkbox"/> Allow Device Override | <input checked="" type="checkbox"/> Provide Outside Dial Tone |
| <input type="checkbox"/> Require Forced Authorization Code | <input type="checkbox"/> Allow Overlap Sending |
| Authorization Level* | <input type="text" value="0"/> |
| <input type="checkbox"/> Require Client Matter Code | <input type="checkbox"/> Urgent Priority |

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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

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

Calling Party Transformations

| | |
|---|----------------------|
| <input type="checkbox"/> Use Calling Party's External Phone Number Mask | |
| Calling Party Transform Mask | <input type="text"/> |
| Prefix Digits (Outgoing Calls) | <input type="text"/> |
| 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 | 5195 |
| Prefix Digits (Outgoing Calls) | <input type="text"/> |
| Called Party Number Type* | Cisco CallManager |
| Called Party Numbering Plan* | Cisco CallManager |

ISDN Network-Specific Facilities Information Element

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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

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*


Called Party Numbering Plan*

ISDN Network-Specific Facilities Information Element

Network Service Protocol

Carrier Identification Code

| Network Service | Service Parameter Name | Service Parameter Value |
|---|--|-------------------------|
| <input type="text" value="-- Not Selected --"/> | <input type="text" value="< Not Exist >"/> | <input type="text"/> |

 *- indicates required item.

Route pattern Outbound from SME to Service Provider for 011 dialing



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration

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

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

Status
 Status: Ready

Pattern Definition

| | | | |
|--|---|--|--|
| Route Pattern* | <input type="text" value="011XXXXXXXXXX"/> | | |
| Route Partition | < None > | | |
| Description | To ATT | | |
| Numbering Plan | -- Not Selected -- | | |
| Route Filter | < None > | | |
| MLPP Precedence* | Default | | |
| Resource Priority Namespace Network Domain | < None > | | |
| Gateway/Route List* | To_CUBE_RL (Edit) | | |
| Route Option | <input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="No Error"/> | | |
| Call Classification* | OffNet | | |
| <input type="checkbox"/> Allow Device Override | <input checked="" type="checkbox"/> Provide Outside Dial Tone | <input type="checkbox"/> Allow Overlap Sending | <input type="checkbox"/> Urgent Priority |
| <input type="checkbox"/> Require Forced Authorization Code | | | |
| Authorization Level* | <input type="text" value="0"/> | | |
| <input type="checkbox"/> Require Client Matter Code | | | |



Cisco Unified CM Administration Navigation Cisco Unified CM Administration
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Route Pattern Configuration Related Links: Back To Find/List

Calling Party Transformations

Use Calling Party's External Phone Number Mask

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*

Called Party Numbering Plan*

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For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links: Back To Find/List Go

Save
X Delete
Copy
+ Add New

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)

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

*- indicates required item.



Route Pattern Outbound from SME to Service Provider for 61+10D dialing for G711

The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Route Pattern Configuration" and includes a "Related Links" section with "Back To Find/List" and "Go". Below this is a toolbar with "Save", "Delete", "Copy", and "Add New" icons. The "Status" section shows "Status: Ready". The "Pattern Definition" section contains the following fields and options:

- Route Pattern*: 61XXXXXXXXXX
- Route Partition: < None >
- Description: outgoing FAX call to ATT using G.711u
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Resource Priority Namespace Network Domain: < None >
- Gateway/Route List*: To_CUBE_RL (Edit)
- Route Option: Route this pattern, Block this pattern (No Error)
- Call Classification*: OffNet
- Checkboxes: Allow Device Override, Provide Outside Dial Tone, Allow Overlap Sending, Urgent Priority
- Require Forced Authorization Code:
- Authorization Level*: 0
- Require Client Matter Code:



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links: Back To Find/List | Go

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*

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*

Called Party Numbering Plan*

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For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links: Back To Find/List Go

Save
✖ Delete
📄 Copy
➕ Add New

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)

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 > | <input style="width: 100%;" type="text"/> |

Save
Delete
Copy
Add New

*- indicates required item.



Route Pattern Outbound from SME to Service Provider for 1408xxxxxxx dialing

The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the text "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and the user "CCMAdministrator" with "About" and "Logout" links. A dropdown menu shows "Navigation Cisco Unified CM Administration Go". Below this is a menu bar with options: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Route Pattern Configuration" and includes a "Related Links: Back To Find/List Go" section. A toolbar contains icons for Save, Delete, Copy, and Add New. The "Status" section shows "Status: Ready". The "Pattern Definition" section contains the following fields:

- Route Pattern*: 1408XXXXXXXX
- Route Partition: < None >
- Description: To ATT
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Resource Priority Namespace Network Domain: < None >
- Gateway/Route List*: To_CUBE_RL (Edit)
- Route Option: Route this pattern, Block this pattern No Error
- Call Classification*: OffNet
- Checkboxes: Allow Device Override, Provide Outside Dial Tone, Allow Overlap Sending, Urgent Priority
- Require Forced Authorization Code
- Authorization Level*: 0
- Require Client Matter Code



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links:

Calling Party Transformations

Use Calling Party's External Phone Number Mask

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* ▾

Called Party Numbering Plan* ▾

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <https://172.31.150.254/ccmadmin/routePattern2Edit.do?key=577c79e2-ab8e-8c12-4fcd-ffd8d736d872> Go Links

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

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)

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



Route Pattern from SME to Cisco UCM for DID 7323680193:

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

Status
Status: Ready

Pattern Definition

Route Pattern* 1.7323680193
Route Partition < None >
Description
Numbering Plan -- Not Selected --
Route Filter < None >
MLPP Precedence* Default
Resource Priority Namespace Network Domain < None >
Gateway/Route List* To_Barza_RL (Edit)
Route Option
 Route this pattern
 Block this pattern No Error
Call Classification* OffNet
 Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
 Require Forced Authorization Code
Authorization Level* 0
 Require Client Matter Code

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For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration Go
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Route Pattern Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

Connected Party Transformations

Connected Line ID Presentation* Default
Connected Name Presentation* Default

Called Party Transformations

Discard Digits PreDot
Called Party Transform Mask
Prefix Digits (Outgoing Calls)
Called Party Number Type* Cisco CallManager
Called Party Numbering Plan* Cisco CallManager

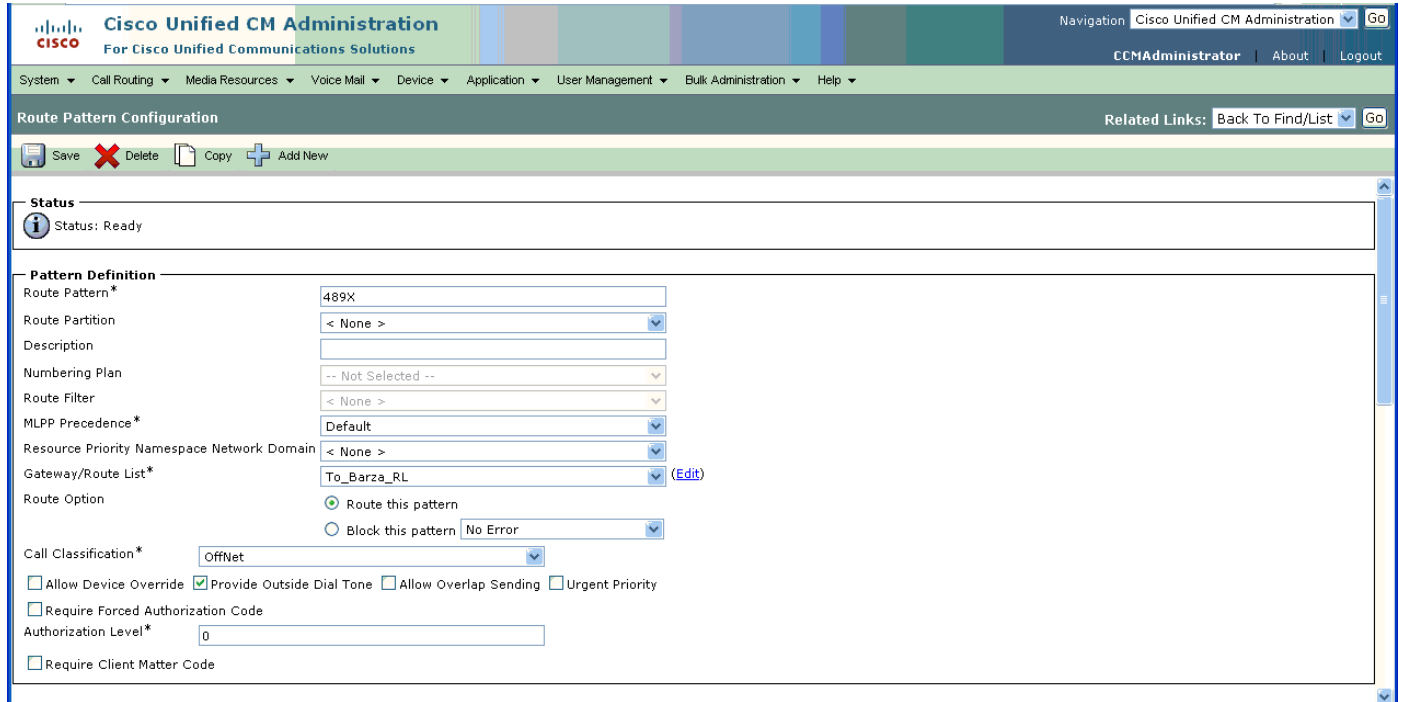
ISDN Network-Specific Facilities Information Element

Network Service Protocol -- Not Selected --
Carrier Identification Code
Network Service -- Not Selected -- Service Parameter Name < Not Exist > Service Parameter Value

Save Delete Copy Add New

*. indicates required item.

Route Pattern from (PBX Nortel to) SME to Cisco UCM



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the text "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and a navigation menu with items like "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", "Bulk Administration", and "Help". The user is logged in as "CCMAdministrator".

The main content area is titled "Route Pattern Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with "Save", "Delete", "Copy", and "Add New" icons. The "Status" section shows "Status: Ready".

The "Pattern Definition" section contains the following fields and options:

- Route Pattern*: 489X
- Route Partition: < None >
- Description: (empty text box)
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Resource Priority Namespace Network Domain: < None >
- Gateway/Route List*: To_Barza_RL (with an Edit link)
- Route Option:
 - Route this pattern
 - Block this pattern
- Call Classification*: OffNet
- Checkboxes:
 - Allow Device Override
 - Provide Outside Dial Tone
 - Allow Overlap Sending
 - Urgent Priority
- Require Forced Authorization Code:
- Authorization Level*: 0
- Require Client Matter Code:



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration

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

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

Require Client Matter Code

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)

Called Party Number Type* [Cisco CallManager](#)

Called Party Numbering Plan* [Cisco CallManager](#)

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration

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

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

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)

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 > | <input type="text"/> |

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

*. indicates required item.



SME route pattern outbound from SME to Service Provider for 1-800xxxxxxx dialing

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

Status
Status: Ready

Pattern Definition

Route Pattern* 1800XXXXXXX
Route Partition <None >
Description To ATT
Numbering Plan -- Not Selected --
Route Filter <None >
MLPP Precedence* Default
Resource Priority Namespace Network Domain <None >
Gateway/Route List* To_CUBE_RL (Edit)
Route Option
 Route this pattern
 Block this pattern No Error
Call Classification* OffNet
 Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
 Require Forced Authorization Code
Authorization Level* 0
 Require Client Matter Code

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For Cisco Unified Communications Solutions

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Route Pattern Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

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

Save Delete Copy Add New

* - indicates required item.



SME SIP Trunks:

Cisco Unified CM Administration

Navigation Cisco Unified CM Administration GO

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

Find and List Trunks

Trunks (1 - 11 of 11) Rows per Page 50

Find Trunks where Device Name begins with Find Clear Filter

| Name | Description | Calling Search Space | Device Pool | Route Pattern | Partition | Route Group | Priority | Trunk Type | SIP Trunk Security Profile |
|---|-----------------------------|----------------------|-----------------------------|-----------------------------|-----------|------------------------------|----------|---|--|
| ATnT_SIP_Trunk_G711 | G711 trunk to ATnT via CUBE | | Default | | | To_CUBE_RG | 1 | SIP Trunk | Non Secure SIP Trunk Profile |
| ATnT_SIP_Trunk_G729 | G729 trunk to ATnT via CUBE | | G729_SME_DP | | | To_CUBE_RG | 2 | SIP Trunk | Non Secure SIP Trunk Profile |
| CM-BARZA-H323-ICT | | | G729_SME_DP | 7323680195 | | | | Inter-Cluster Trunk (Non-Gatekeeper Controlled) | |
| CM-BARZA-H323-ICT | | | G729_SME_DP | 732.3680193 | | | | Inter-Cluster Trunk (Non-Gatekeeper Controlled) | |
| CM-BARZA-H323-ICT | | | G729_SME_DP | 4895 | | | | Inter-Cluster Trunk (Non-Gatekeeper Controlled) | |
| CM-BARZA-H323-ICT | | | G729_SME_DP | 5195 | | | | Inter-Cluster Trunk (Non-Gatekeeper Controlled) | |
| CUCM_Barza_SIP_Trunk_G711 | G711 trunk to Barza | | Default | | | To_Barza_RG | 1 | SIP Trunk | Non Secure SIP Trunk Profile |
| CUCM_Barza_SIP_Trunk_G729 | G729 trunk to Barza | | G729_SME_DP | | | To_Barza_RG | 2 | SIP Trunk | Non Secure SIP Trunk Profile |
| NTCS1K_with_CUBE | To Nortel CS1000 via CUBE | | G729_SME_DP | | | | | SIP Trunk | Non Secure SIP Trunk Profile |
| NT_SIP_TRUNK_G711 | G711 trunk to Nortel | | Default | | | To_Nortel_RG | 1 | SIP Trunk | Non Secure SIP Trunk Profile |
| NT_SIP_Trunk_G729 | G729 trunk to Nortel | | G729_SME_DP | | | To_Nortel_RG | 2 | SIP Trunk | Non Secure SIP Trunk Profile |

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

Status: Ready

Device Information

| | |
|-----------------------------|--|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | <input type="text" value="ATnT_SIP_Trunk_G711"/> |
| Description | <input type="text" value="G711 trunk to ATnT via CUBE"/> |
| Device Pool* | <input type="text" value="Default"/> |
| Common Device Configuration | <input type="text" value="< None >"/> |
| Call Classification* | <input type="text" value="Use System Default"/> |
| Media Resource Group List | <input type="text" value="< None >"/> |
| Location* | <input type="text" value="Hub_None"/> |
| AAR Group | <input type="text" value="< None >"/> |
| Packet Capture Mode* | <input type="text" value="None"/> |
| Packet Capture Duration | <input type="text" value="0"/> |

Media Termination Point Required
 Retry Video Call as Audio
 Transmit UTF-8 for Calling Party Name
 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.
 Use Trusted Relay Point*



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For Cisco Unified Communications Solutions

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

Save | Delete | Reset | Apply Config | 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.

[Clear Prefix Settings](#) | [Default Prefix Settings](#)

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

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain: < None >

Call Routing Information

Remote-Party-Id
 Asserted-Identity
Asserted-Type*: Default
SIP Privacy*: Default

Inbound Calls

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



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Trunk Configuration Related Links: Back To Find/List Go

Save Delete Reset Apply Config Add New

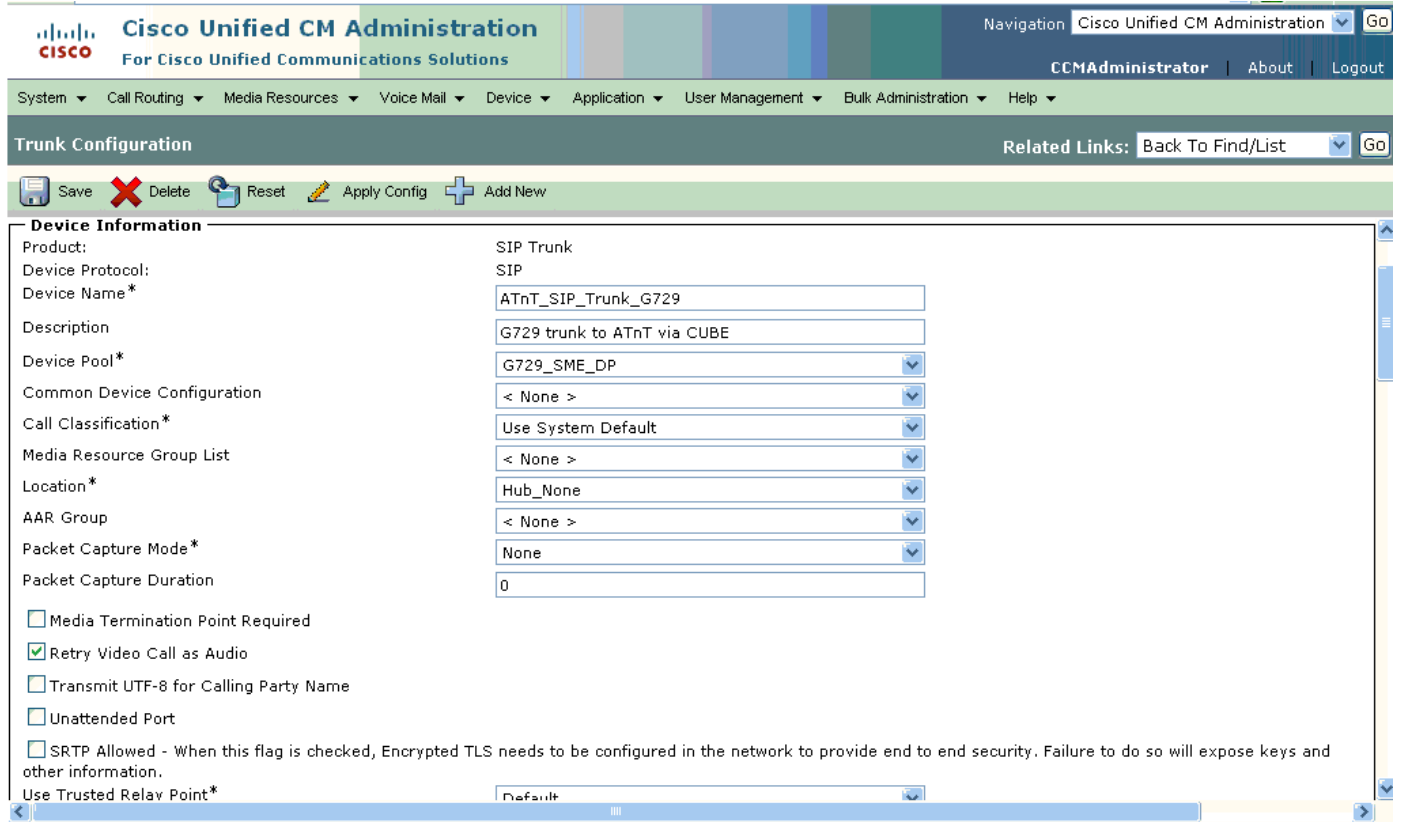
Inbound Calls

Significant Digits* All
Connected Line ID Presentation* Default
Connected Name Presentation* Default
Calling Search Space < None >
AAR Calling Search Space < None >
Prefix DN
 Redirecting Diversion Header Delivery - Inbound

Outbound Calls

Called Party Transformation CSS < None >
 Use Device Pool Called Party Transformation CSS
Calling Party Transformation CSS < None >
 Use Device Pool Calling Party Transformation CSS
Calling Party Selection* Originator
Calling Line ID Presentation* Default
Calling Name Presentation* Default
Caller ID DN
Caller Name
 Redirecting Diversion Header Delivery - Outbound

SME SIP trunk to Service Provider via CUBE for G729



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Trunk Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Reset, Apply Config, and Add New. The "Device Information" section is expanded, showing the following configuration details:

| | |
|---|-----------------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | ATnT_SIP_Trunk_G729 |
| Description | G729 trunk to ATnT via CUBE |
| Device Pool* | G729_SME_DP |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | < None > |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |
| <input type="checkbox"/> Media Termination Point Required | |
| <input checked="" type="checkbox"/> Retry Video Call as Audio | |
| <input type="checkbox"/> Transmit UTF-8 for Calling Party Name | |
| <input type="checkbox"/> Unattended Port | |
| <input type="checkbox"/> 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. | |
| Use Trusted Relay Point* | Default |



Cisco UCM-SME SIP trunk to Cisco UCM using Codec G729

The screenshot shows the Cisco Unified CM Administration web 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". The user is logged in as "CCMAdministrator". The main menu includes System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The current page is "Trunk Configuration" with a "Related Links" section containing "Back To Find/List".

Below the navigation bar, there are action buttons: Save, Delete, Reset, Apply Config, and Add New. The "Status" section shows "Status: Ready".

The "Device Information" section is expanded, showing the following configuration details:

| | |
|-----------------------------|---------------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | CUCM_Barza_SIP_Trunk_G729 |
| Description | G729 trunk to Barza |
| Device Pool* | G729_SME_DP |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | < None > |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |

Additional options at the bottom of the "Device Information" section include:

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



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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Trunk Configuration Related Links:

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.
Use Trusted Relay Point*

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 | Use Device Pool CSS | Calling Search Sp. |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id

Asserted-Identity



Cisco Unified CM Administration
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Trunk Configuration Related Links: [Back To Find/List](#) [Go](#)

Save Delete Reset Apply Config Add New

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

Outbound Calls

Called Party Transformation CSS

Use Device Pool Called Party Transformation CSS

Calling Party Transformation CSS

Use Device Pool Calling Party Transformation CSS

Calling Party Selection*

Calling Line ID Presentation*



Application Note

Cisco Unified CM Administration
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Trunk Configuration

Related Links:

| | |
|-------------------------------|---|
| Calling Party Selection* | <input type="text" value="Originator"/> |
| Calling Line ID Presentation* | <input type="text" value="Default"/> |
| Calling Name Presentation* | <input type="text" value="Default"/> |
| Caller ID DN | <input type="text"/> |
| Caller Name | <input type="text"/> |

Redirecting Diversion Header Delivery - Outbound

SIP Information

| | |
|--|---|
| Destination Address | <input type="text" value="192.168.201.254"/> |
| Destination Address IPv6 | <input type="text"/> |
| <input type="checkbox"/> Destination Address is an SRV | |
| Destination Port* | <input type="text" value="5060"/> |
| MTP Preferred Originating Codec* | <input type="text" value="G729/G729a"/> |
| Presence Group* | <input type="text" value="Standard Presence group"/> |
| SIP Trunk Security Profile* | <input type="text" value="Non Secure SIP Trunk Profile"/> |
| Rerouting Calling Search Space | <input type="text" value="< None >"/> |
| Out-Of-Dialog Refer Calling Search Space | <input type="text" value="< None >"/> |
| SUBSCRIBE Calling Search Space | <input type="text" value="< None >"/> |






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

 Save
  Delete
  Reset
  Apply Config
  Add New

| | |
|--|------------------------------|
| MTP Preferred Originating Codec* | G729/G729a |
| 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 |



Geolocation Configuration

Geolocation: < None >

Geolocation Filter: < None >

Send Geolocation Information

[Save](#) [Delete](#) [Reset](#) [Apply Config](#) [Add New](#)

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



Cisco UCM-SME SIP trunk to Cisco UCM using Codec G711

The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and the user "CCMAdministrator". A menu bar below contains options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Trunk Configuration" and features a toolbar with icons for Save, Delete, Reset, Apply Config, and Add New. The "Device Information" section is expanded, showing the following configuration details:

| | |
|---|---------------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | CUCM_Barza_SIP_Trunk_G711 |
| Description | G711 trunk to Barza |
| Device Pool* | Default |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | Default_MRG |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |
| <input type="checkbox"/> Media Termination Point Required | |
| <input checked="" type="checkbox"/> Retry Video Call as Audio | |
| <input type="checkbox"/> Transmit UTF-8 for Calling Party Name | |
| <input type="checkbox"/> Unattended Port | |
| <input type="checkbox"/> 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. | |
| Use Trusted Relay Point* | Default |

Cisco Unified CM Administration
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Trunk 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 | Use Device Pool CSS | Calling Search Sp |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id
 Asserted-Identity
 Asserted-Type*
 SIP Privacy*

Inbound Calls

Significant Digits*



Cisco Unified CM Administration For Cisco Unified Communications Solutions

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Trunk Configuration Related Links: Back To Find/List Go

Save Delete Reset Apply Config Add New

Inbound Calls

Significant Digits* All

Connected Line ID Presentation* Default

Connected Name Presentation* Default

Calling Search Space < None >

AAR Calling Search Space < None >

Prefix DN

Redirecting Diversion Header Delivery - Inbound

Outbound Calls

Called Party Transformation CSS < None >

Use Device Pool Called Party Transformation CSS

Calling Party Transformation CSS < None >

Use Device Pool Calling Party Transformation CSS

Calling Party Selection* Originator

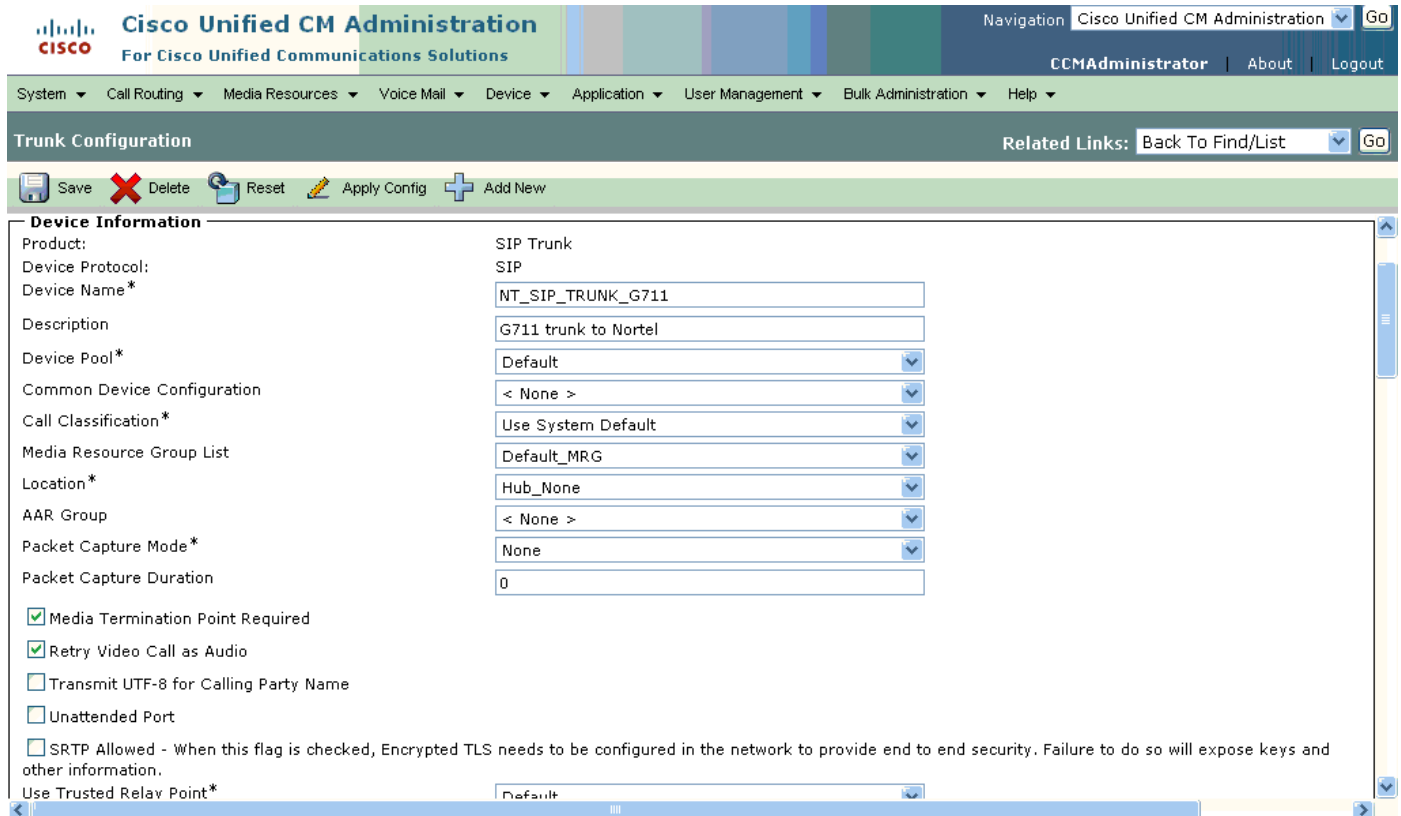
Calling Line ID Presentation* Default

Calling Name Presentation* Default

Caller ID DN

Caller Name

Cisco UCM_SME SIP trunk to Nortel using Codec G711



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Trunk Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Reset, Apply Config, and Add New. The "Device Information" section is expanded, showing the following configuration details:

| | |
|---|----------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | NT_SIP_TRUNK_G711 |
| Description | G711 trunk to Nortel |
| Device Pool* | Default |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | Default_MRG |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |
| <input checked="" type="checkbox"/> Media Termination Point Required | |
| <input checked="" type="checkbox"/> Retry Video Call as Audio | |
| <input type="checkbox"/> Transmit UTF-8 for Calling Party Name | |
| <input type="checkbox"/> Unattended Port | |
| <input type="checkbox"/> 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. | |
| Use Trusted Relav Point* | Default |

Cisco Unified CM Administration
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Trunk 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 | Use Device Pool CSS | Calling Search Sp |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id
 Asserted-Identity
 Asserted-Type*
 SIP Privacy*

Inbound Calls

Significant Digits*



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

Save Delete Reset Apply Config Add New

| | |
|--|----------|
| Connected Line ID Presentation* | Default |
| Connected Name Presentation* | Default |
| Calling Search Space | < None > |
| AAR Calling Search Space | < None > |
| Prefix DN | |
| <input type="checkbox"/> Redirecting Diversion Header Delivery - Inbound | |

Outbound Calls

| | |
|--|------------|
| Called Party Transformation CSS | < None > |
| <input checked="" type="checkbox"/> Use Device Pool Called Party Transformation CSS | |
| Calling Party Transformation CSS | < None > |
| <input checked="" type="checkbox"/> Use Device Pool Calling Party Transformation CSS | |
| Calling Party Selection* | Originator |
| Calling Line ID Presentation* | Default |
| Calling Name Presentation* | Default |
| Caller ID DN | |
| Caller Name | |
| <input type="checkbox"/> Redirecting Diversion Header Delivery - Outbound | |



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

Save Delete Reset Apply Config Add New

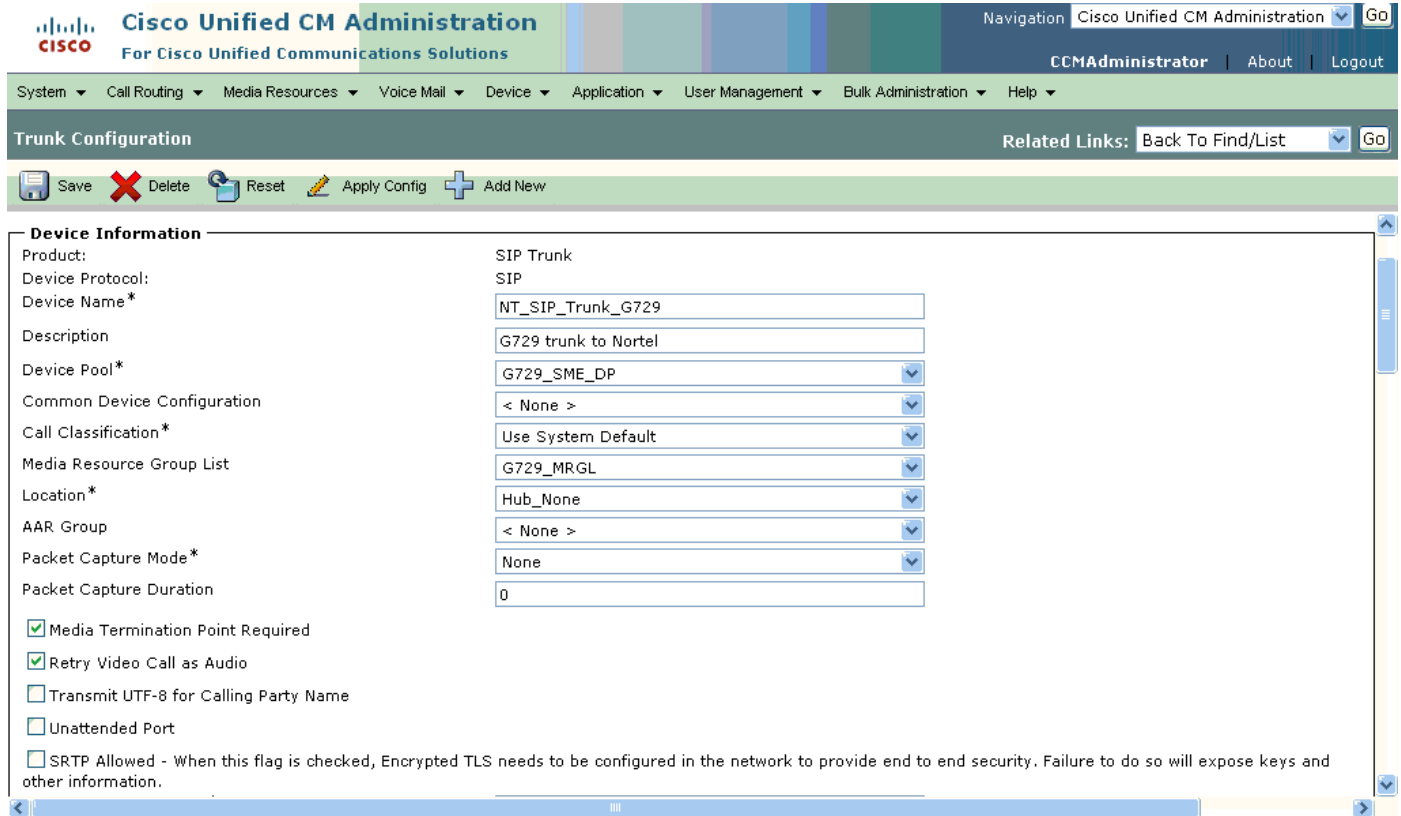
SIP Information

| | |
|--|---|
| Destination Address | <input type="text" value="10.10.61.2"/> |
| Destination Address IPv6 | <input type="text"/> |
| <input type="checkbox"/> Destination Address is an SRV | |
| Destination Port* | <input type="text" value="5060"/> |
| MTP Preferred Originating Codec* | <input type="text" value="711ulaw"/> |
| Presence Group* | <input type="text" value="Standard Presence group"/> |
| SIP Trunk Security Profile* | <input type="text" value="Non Secure SIP Trunk Profile"/> |
| Rerouting Calling Search Space | <input type="text" value="< None >"/> |
| Out-Of-Dialog Refer Calling Search Space | <input type="text" value="< None >"/> |
| SUBSCRIBE Calling Search Space | <input type="text" value="< None >"/> |
| SIP Profile* | <input type="text" value="Standard SIP Profile"/> |
| DTMF Signaling Method* | <input type="text" value="No Preference"/> |

Geolocation Configuration

| | |
|---|---|
| Geolocation | <input type="text" value="< None >"/> |
| Geolocation Filter | <input type="text" value="< None >"/> |
| <input type="checkbox"/> Send Geolocation Information | |

Cisco UCM_SME SIP trunk to Nortel using Codec G729



The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Trunk Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Reset, Apply Config, and Add New. The primary configuration pane is titled "Device Information" and contains the following fields and options:

| | |
|-----------------------------|----------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | NT_SIP_Trunk_G729 |
| Description | G729 trunk to Nortel |
| Device Pool* | G729_SME_DP |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | G729_MRGL |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |

Below the table are several checkboxes:

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

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For Cisco Unified Communications Solutions

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Trunk 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 | Use Device Pool CSS | Calling Search Sp |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id
 Asserted-Identity
 Asserted-Type*
 SIP Privacy*

Inbound Calls

Significant Digits*



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

Save Delete Reset Apply Config Add New

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

Outbound Calls

Called Party Transformation CSS

Use Device Pool Called Party Transformation CSS

Calling Party Transformation CSS

Use Device Pool Calling Party Transformation CSS

Calling Party Selection*

Calling Line ID Presentation*

Calling Name Presentation*

Caller ID DN

Caller Name



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

Save Delete Reset Apply Config Add New

SIP Information

| | |
|--|---|
| Destination Address | <input type="text" value="10.10.61.2"/> |
| Destination Address IPv6 | <input type="text"/> |
| <input type="checkbox"/> Destination Address is an SRV | |
| Destination Port* | <input type="text" value="5060"/> |
| MTP Preferred Originating Codec* | <input type="text" value="G729/G729a"/> |
| Presence Group* | <input type="text" value="Standard Presence group"/> |
| SIP Trunk Security Profile* | <input type="text" value="Non Secure SIP Trunk Profile"/> |
| Rerouting Calling Search Space | <input type="text" value="< None >"/> |
| Out-Of-Dialog Refer Calling Search Space | <input type="text" value="< None >"/> |
| SUBSCRIBE Calling Search Space | <input type="text" value="< None >"/> |
| SIP Profile* | <input type="text" value="Standard SIP Profile"/> |
| DTMF Signaling Method* | <input type="text" value="No Preference"/> |

Geolocation Configuration

| | |
|---|---|
| Geolocation | <input type="text" value="< None >"/> |
| Geolocation Filter | <input type="text" value="< None >"/> |
| <input type="checkbox"/> Send Geolocation Information | |



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Trunk Configuration Related Links:

Redirecting Diversion Header Delivery - Outbound

SIP Information

| | |
|--|---|
| Destination Address | <input type="text" value="192.168.201.254"/> |
| Destination Address IPv6 | <input type="text"/> |
| <input type="checkbox"/> Destination Address is an SRV | |
| Destination Port* | <input type="text" value="5060"/> |
| MTP Preferred Originating Codec* | <input type="text" value="711ulaw"/> |
| Presence Group* | <input type="text" value="Standard Presence group"/> |
| SIP Trunk Security Profile* | <input type="text" value="Non Secure SIP Trunk Profile"/> |
| Rerouting Calling Search Space | <input type="text" value="< None >"/> |
| Out-Of-Dialog Refer Calling Search Space | <input type="text" value="< None >"/> |
| SUBSCRIBE Calling Search Space | <input type="text" value="< None >"/> |
| SIP Profile* | <input type="text" value="Standard SIP Profile"/> |
| DTMF Signaling Method* | <input type="text" value="No Preference"/> |

Geolocation Configuration

| | |
|--------------------|---|
| Geolocation | <input type="text" value="< None >"/> |
| Geolocation Filter | <input type="text" value="< None >"/> |

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Trunk Configuration

Related Links: Back To Find/List Go

Save Delete Reset Apply Config Add New

| | |
|--|------------------------------|
| 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 |

Geolocation Configuration

| | |
|--------------------|----------|
| Geolocation | < None > |
| Geolocation Filter | < None > |

Send Geolocation Information

Save Delete Reset Apply Config Add New

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



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Trunk 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 | Use Device Pool CSS | Calling Search Sp. |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|--|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value=" < None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id
 Asserted-Identity
Asserted-Type*
SIP Privacy*

Inbound Calls

Significant Digits*



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For Cisco Unified Communications Solutions

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Trunk Configuration Related Links:

Inbound Calls

| | |
|---------------------------------|---|
| Significant Digits* | <input type="text" value="All"/> |
| Connected Line ID Presentation* | <input type="text" value="Default"/> |
| Connected Name Presentation* | <input type="text" value="Default"/> |
| Calling Search Space | <input type="text" value="< None >"/> |
| AAR Calling Search Space | <input type="text" value="< None >"/> |
| Prefix DN | <input type="text"/> |

Redirecting Diversion Header Delivery - Inbound

Outbound Calls

| | |
|--|---|
| Called Party Transformation CSS | <input type="text" value="< None >"/> |
| <input checked="" type="checkbox"/> Use Device Pool Called Party Transformation CSS | |
| Calling Party Transformation CSS | <input type="text" value="< None >"/> |
| <input checked="" type="checkbox"/> Use Device Pool Calling Party Transformation CSS | |
| Calling Party Selection* | <input type="text" value="Originator"/> |
| Calling Line ID Presentation* | <input type="text" value="Default"/> |
| Calling Name Presentation* | <input type="text" value="Default"/> |
| Caller ID DN | <input type="text"/> |
| Caller Name | <input type="text"/> |



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Trunk Configuration Related Links: Back To Find/List Go

Save Delete Reset Apply Config Add New

SIP Information

| | |
|--|------------------------------|
| Destination Address | 192.168.201.1 |
| Destination Address IPv6 | |
| <input type="checkbox"/> Destination Address is an SRV | |
| Destination Port* | 5060 |
| MTP Preferred Originating Codec* | G729/G729a |
| 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 |

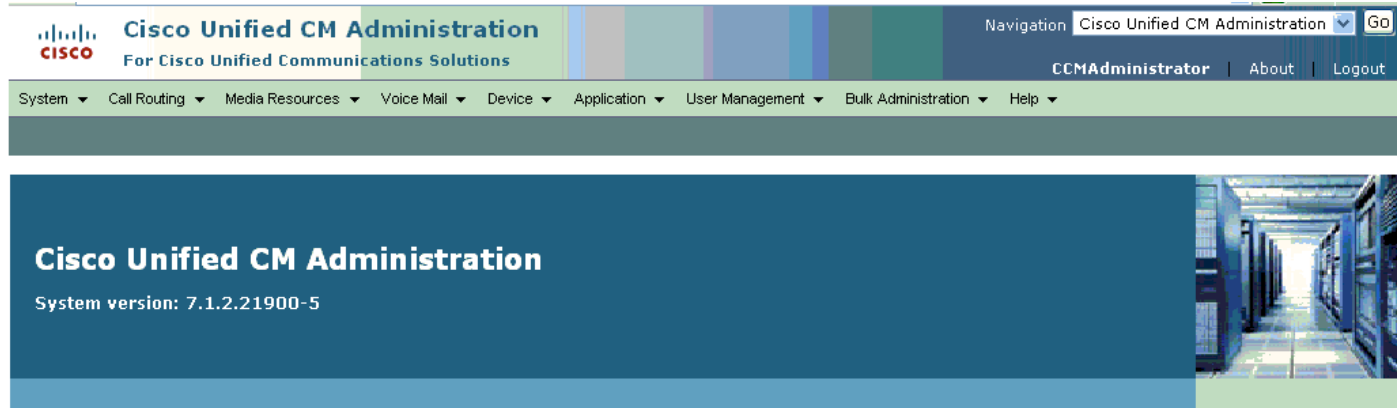
Geolocation Configuration

| | |
|---|----------|
| Geolocation | < None > |
| Geolocation Filter | < None > |
| <input type="checkbox"/> Send Geolocation Information | |



Configuring the Cisco Unified Communications Manager

Cisco UCM Software release



Last Successful Logon: Dec 7, 2009 6:11:11 AM

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This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at our [Export Compliance Product Report](#) web site.

For information about Cisco Unified Communications Manager please visit our [Unified Communications System Documentation](#) web site.

For Cisco Technical Support please visit our [Technical Support](#) web site.



Application Note

Cisco UCM Regional Configurations:

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Find and List Regions

Status
 9 records found

Regions (1 - 9 of 9) Rows per Page 50 ▾

Find Regions where Name

| <input type="checkbox"/> | Name ^ |
|--------------------------|---------------------------------|
| <input type="checkbox"/> | CUBE |
| <input type="checkbox"/> | Default |
| <input type="checkbox"/> | G729_SME_Region |
| <input type="checkbox"/> | MP |
| <input type="checkbox"/> | Remote-q711 |
| <input type="checkbox"/> | bogus |
| <input type="checkbox"/> | phones |
| <input type="checkbox"/> | remote-CUBE |
| <input type="checkbox"/> | remote-phones |



Default 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* Default

Region Relationships

| Region | Audio Codec | Video Call Bandwidth | Link Loss Type |
|-----------------|-------------|----------------------|--------------------|
| CUBE | G.711 | 384 | Use System Default |
| Default | G.711 | 384 | Use System Default |
| G729_SME_Region | G.711 | 384 | Use System Default |
| MP | G.729 | 384 | Use System Default |
| phones | G.711 | 384 | Use System Default |
| remote-CUBE | G.711 | 384 | Use System Default |
| Remote-g711 | G.711 | 384 | Use System Default |
| remote-phones | G.711 | 384 | Use System Default |

NOTE: Regions(s) not displayed Use System Default Use System Default Use System Default

Modify Relationship to other Regions

| Regions | Audio Codec | Video Call Bandwidth | Link Loss Type |
|-----------------|----------------------|---|----------------------|
| CUBE | Keep Current Setting | <input checked="" type="radio"/> Keep Current Setting | Keep Current Setting |
| Default | | <input type="radio"/> Use System Default | |
| G729_SME_Region | | <input type="radio"/> None | |
| MP | | <input type="radio"/> [] kbpc | |
| Remote-g711 | | | |



G729 region for G729 codec configurations

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Region Configuration Related Links: Back To Find/List

Save Reset

Region Information

Name*

Region Relationships

| Region | Audio Codec | Video Call Bandwidth | Link Loss Type |
|-------------------------------|--------------------|----------------------|--------------------|
| CUBE | G.729 | 384 | Use System Default |
| Default | G.711 | 384 | Use System Default |
| G729_SME_Region | G.729 | 384 | Use System Default |
| phones | G.729 | 384 | Use System Default |
| Remote-g711 | G.711 | 384 | Use System Default |
| remote-phones | 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 | Audio Codec | Video Call Bandwidth | Link Loss Type |
|--|---|---|---|
| <input type="checkbox"/> CUBE <input type="checkbox"/> Default <input type="checkbox"/> G729_SME_Region <input type="checkbox"/> MP <input type="checkbox"/> Remote-g711 | <input type="text" value="Keep Current Setting"/> | <input checked="" type="radio"/> Keep Current Setting <input type="radio"/> Use System Default <input type="radio"/> None <input type="text" value=""/> kbps | <input type="text" value="Keep Current Setting"/> |



Cisco UCM Device Pool

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration **CCAdministrator** | About | Logout

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

Find and List Device Pools

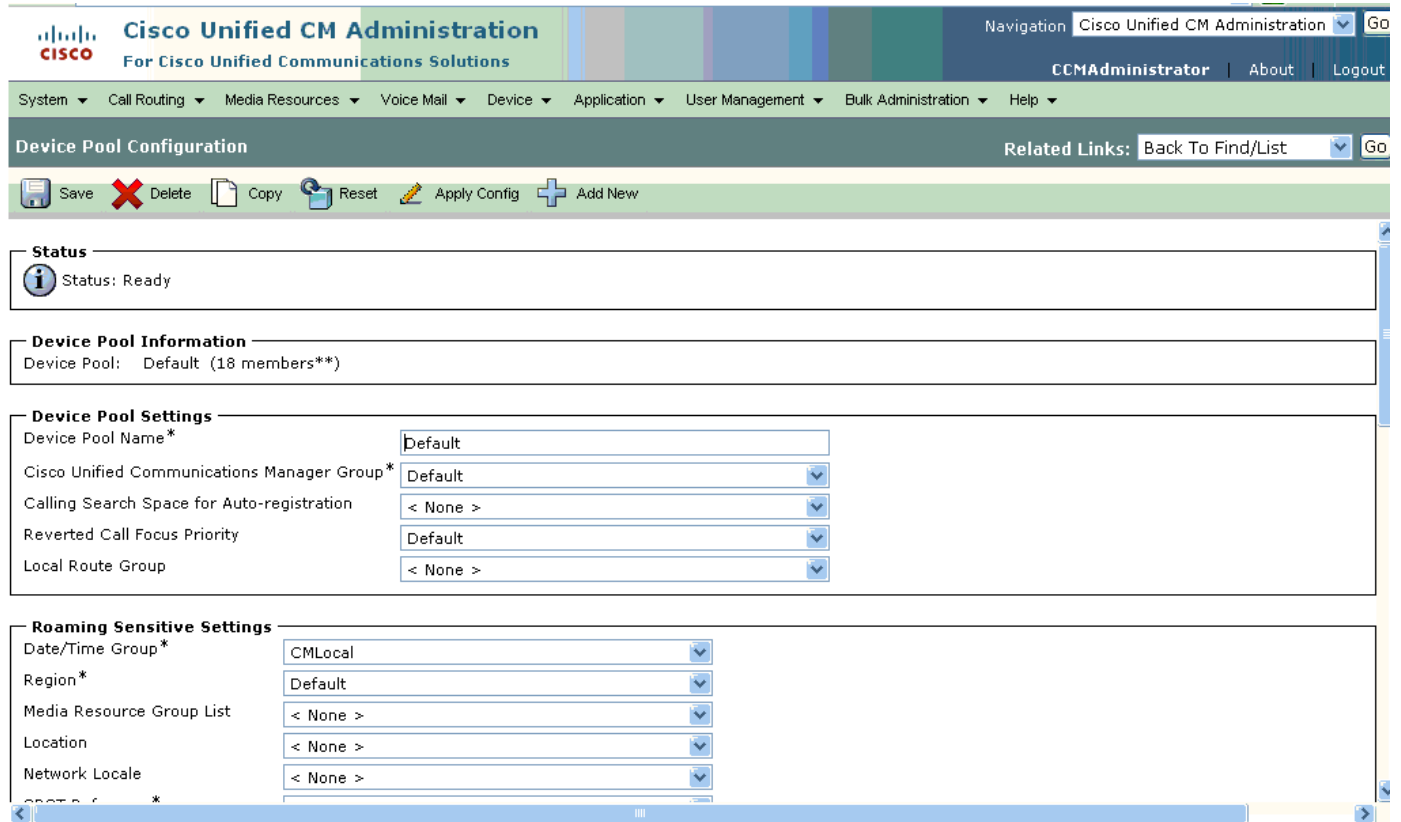
Status
 9 records found

Device Pool (1 - 9 of 9) 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"/> | CUBE | Default | CUBE | CMLocal | |
| <input type="checkbox"/> | Default | Default | Default | CMLocal | |
| <input type="checkbox"/> | G729_SME_DP | Default | G729_SME_Region | CMLocal | |
| <input type="checkbox"/> | MP | Default | MP | CMLocal | |
| <input type="checkbox"/> | boqus | Default | boqus | CMLocal | |
| <input type="checkbox"/> | phones | Default | phones | CMLocal | |
| <input type="checkbox"/> | remote-CUBE | Default | remote-CUBE | CMLocal | |
| <input type="checkbox"/> | remote-phones | Default | remote-phones | CMLocal | |
| <input type="checkbox"/> | remote_q711 | Default | Remote-q711 | CMLocal | |

Default Device Pool for codec G711 configurations



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title 'Cisco Unified CM Administration For Cisco Unified Communications Solutions', and user information 'CCMAdministrator | About | Logout'. A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled 'Device Pool Configuration' and includes a 'Related Links' section with a 'Back To Find/List' button. Below this is a toolbar with icons for Save, Delete, Copy, Reset, Apply Config, and Add New. The configuration is organized into several sections:

- Status:** Shows 'Status: Ready' with an information icon.
- Device Pool Information:** Displays 'Device Pool: Default (18 members**)'.
- Device Pool Settings:** A table of configuration options:

| | |
|---|----------|
| Device Pool Name* | Default |
| Cisco Unified Communications Manager Group* | Default |
| Calling Search Space for Auto-registration | < None > |
| Reverted Call Focus Priority | Default |
| Local Route Group | < None > |
- Roaming Sensitive Settings:** Another table of configuration options:

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

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save
 Delete
 Copy
 Reset
 Apply Config
 Add New

| | | |
|--------------------------------|----------|---|
| Network Locale | < None > | ▾ |
| SRST Reference* | Disable | ▾ |
| 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 > | ▾ |

Geo Location Configuration

| | | |
|---------------------|--------------------|---|
| Geo Location | -- Not Selected -- | ▾ |
| Geo Location Filter | < None > | ▾ |

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAAdministrator | About | Logout

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

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 | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| International Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| Subscriber Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |

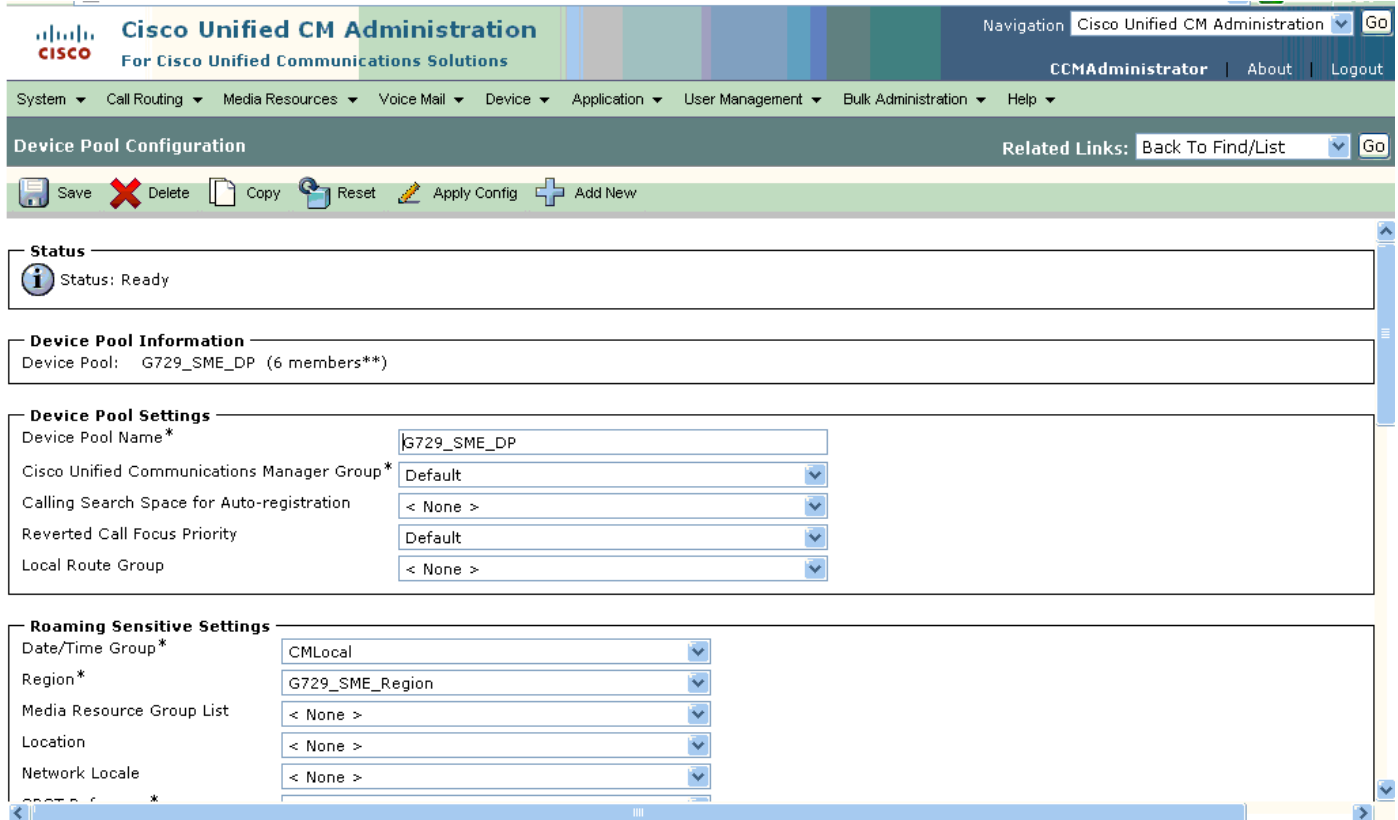
i *- indicates required item.

i **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 Dependency Records.

i ***Leave the field blank or enter -1 to use the configuration from the enterprise parameter.

i ****These five parameters will overwrite device level settings when device is roaming and in the same device mobility group.

G729 Device pool for codec G729 configurations



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and the user "CCMAdministrator". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Device Pool Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Copy, Reset, Apply Config, and Add New. The configuration is organized into several sections:

- Status:** Shows "Status: Ready" with an information icon.
- Device Pool Information:** Displays "Device Pool: G729_SME_DP (6 members)**".
- Device Pool Settings:** A table of configuration parameters:

| | |
|---|-------------|
| Device Pool Name* | G729_SME_DP |
| Cisco Unified Communications Manager Group* | Default |
| Calling Search Space for Auto-registration | < None > |
| Reverted Call Focus Priority | Default |
| Local Route Group | < None > |
- Roaming Sensitive Settings:** Another table of configuration parameters:

| | |
|---------------------------|-----------------|
| Date/Time Group* | CMLocal |
| Region* | G729_SME_Region |
| Media Resource Group List | < None > |
| Location | < None > |
| Network Locale | < None > |



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Device Pool Configuration Related Links:

| | |
|--------------------------------|----------|
| Network Locale | < None > |
| SRST Reference* | Disable |
| 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 > |

Geo Location Configuration

| | |
|---------------------|--------------------|
| Geo Location | -- Not Selected -- |
| Geo Location Filter | < None > |

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

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 | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| International Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |
| Subscriber Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input type="text" value="< None >"/> |

i *- indicates required item.

i **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 Dependency Records.

i ***Leave the field blank or enter -1 to use the configuration from the enterprise parameter.

i ****These five parameters will overwrite device level settings when device is roaming and in the same device mobility group.



Cisco UCM media Resource Group List

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Find and List Media Resource Group Lists

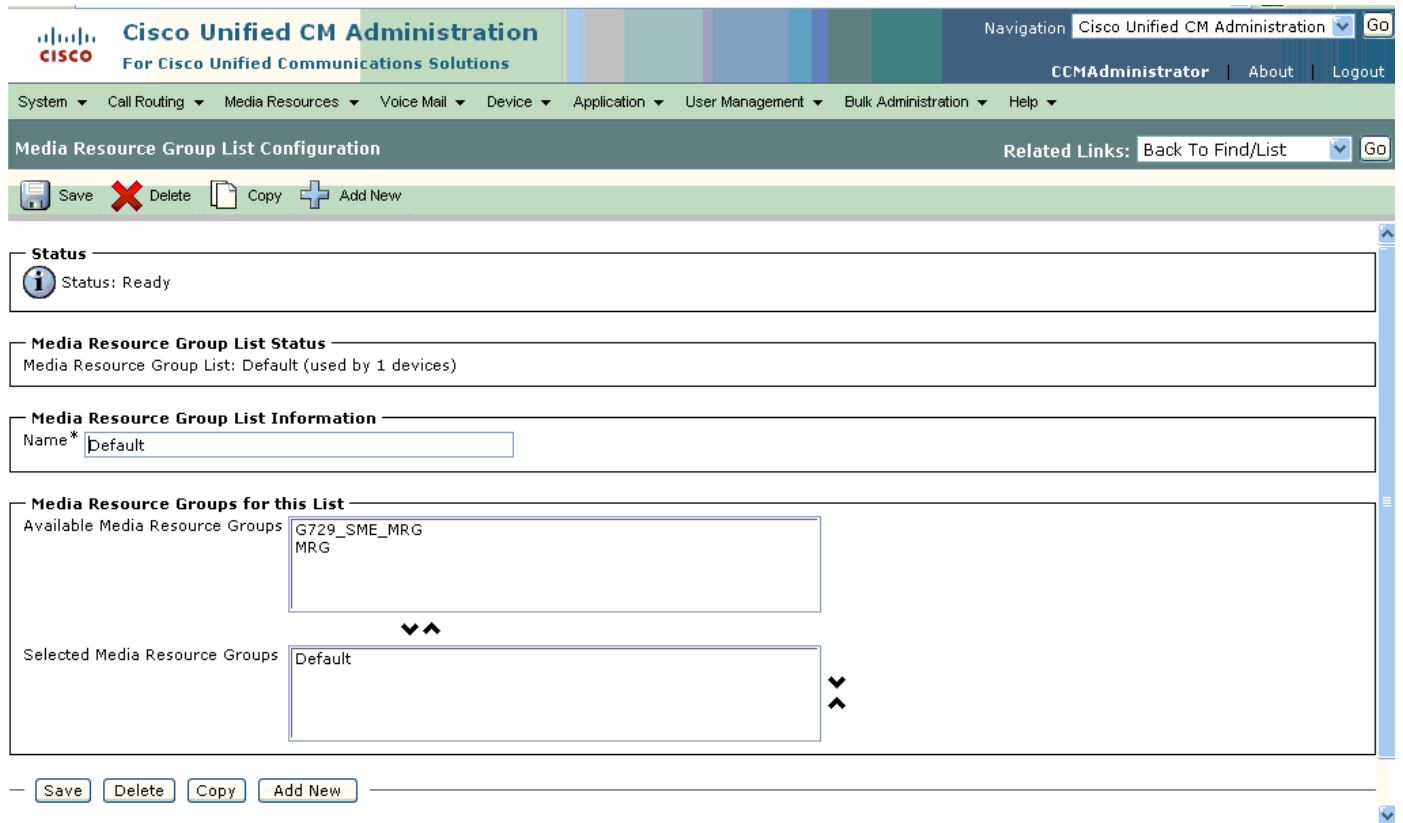
Status
 4 records found

Media Resource Group List (1 - 4 of 4) Rows per Page: 50 ▾

Find Media Resource Group List where Name begins with

| <input type="checkbox"/> | Name ^ | Copy |
|--------------------------|-------------------------------|------|
| <input type="checkbox"/> | Default | |
| <input type="checkbox"/> | G729_SME_MRGL | |
| <input type="checkbox"/> | MOH_MC_RL | |
| <input type="checkbox"/> | XCODE | |

Cisco UCM Default Media Resource Group List for codec G711

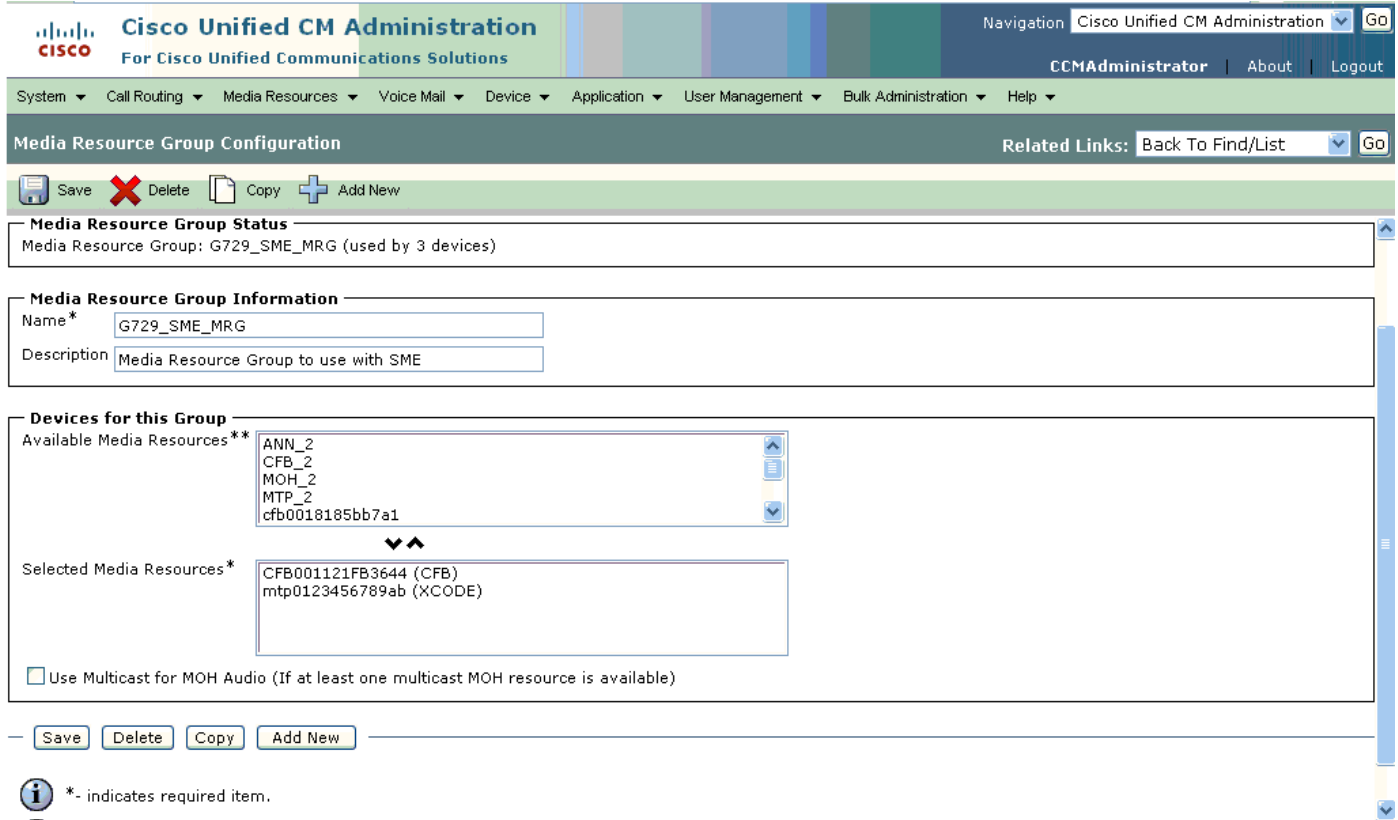


The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Media Resource Group List Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Copy, and Add New. The configuration details are as follows:

- Status:** Status: Ready
- Media Resource Group List Status:** Media Resource Group List: Default (used by 1 devices)
- Media Resource Group List Information:** Name* Default
- Media Resource Groups for this List:**
 - Available Media Resource Groups: G729_SME_MRG MRG
 - Selected Media Resource Groups: Default

At the bottom of the configuration area, there are buttons for Save, Delete, Copy, and Add New.

Cisco UCM G729 Media Resource Group List for codec G729



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and the user "CCMAdministrator". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Media Resource Group Configuration" and includes a "Related Links" section with "Back To Find/List".

Below the navigation is a toolbar with icons for Save, Delete, Copy, and Add New. The configuration is organized into three sections:

- Media Resource Group Status:** Shows "Media Resource Group: G729_SME_MRG (used by 3 devices)".
- Media Resource Group Information:** Contains input fields for "Name*" (G729_SME_MRG) and "Description" (Media Resource Group to use with SME).
- Devices for this Group:** Features two list boxes. The "Available Media Resources**" list includes ANN_2, CFB_2, MOH_2, MTP_2, and cfb0018185bb7a1. The "Selected Media Resources*" list includes CFB001121FB3644 (CFB) and mtp0123456789ab (XCODE). A checkbox for "Use Multicast for MOH Audio (If at least one multicast MOH resource is available)" is present and unchecked.

At the bottom of the configuration area are buttons for Save, Delete, Copy, and Add New. An information icon and the text "*- indicates required item." are located at the bottom left of the page.



Cisco UCM Route list configurations

Cisco Unified CM Administration For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCAdministrator About Logout

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

Find and List Route Lists

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

Status 4 records found

Route List (1 - 4 of 4) Rows per Page 50

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

| <input type="checkbox"/> | Name ^ | Description | Enabled | Status |
|--------------------------|---------------------------------------|-------------------|---------|---------------------------------|
| <input type="checkbox"/> | To_ATT_SIP_trunk_RL | | true | Registered with 192.168.201.254 |
| <input type="checkbox"/> | To_SME_RL | Route List to SME | true | Registered with 192.168.201.254 |
| <input type="checkbox"/> | VoAVPN_CUBE_RL | | true | Registered with 192.168.201.254 |
| <input type="checkbox"/> | remote-voavpn-cube_RG | | true | Registered with 192.168.201.254 |

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



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Route List Configuration Related Links:

Route List Information

Name*

Description

Cisco Unified Communications Manager Group*

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

Route List Member Information

Selected Groups**

Removed Groups***

Route List Details



Cisco UCM Route Group to SME

The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and the user "CCMAdministrator" with "About" and "Logout" links. A menu bar contains options like "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", "Bulk Administration", and "Help".

The main content area is titled "Find and List Route Groups". It features a toolbar with "Add New", "Select All", "Clear All", and "Delete Selected" buttons. Below this, a "Status" box indicates "4 records found".

The "Route Group" section shows a list of 4 records. A search filter is applied: "Find Route Group where Route Group Name begins with". The list table has a header "Name" and contains the following entries:

| <input type="checkbox"/> | Name ^ |
|--------------------------|---------------------------------------|
| <input type="checkbox"/> | To_ATT_SIP_trunk |
| <input type="checkbox"/> | To_SME_RG |
| <input type="checkbox"/> | VoAVPN_CUBE_RG |
| <input type="checkbox"/> | remote-voavpn-cube_RG |

At the bottom of the list, there are buttons for "Add New", "Select All", "Clear All", and "Delete Selected".



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Route Group Configuration

Related Links:

Route Group Information

Route Group Name*

Distribution Algorithm*

Route Group Member Information

Find Devices to Add to Route Group

Device Name contains

Available Devices**

| | |
|---------------------|----------------------------------|
| 172.31.150.33 | <input type="button" value="↑"/> |
| 192.168.201.110 | <input type="button" value="↓"/> |
| 192.168.210.10 | <input type="button" value="↓"/> |
| AALN/S0/SU0/1@c2801 | <input type="button" value="↓"/> |
| G711_To_SME | <input type="button" value="↓"/> |

Port(s)

Current Route Group Members

Selected Devices***

| |
|-------------------------|
| G711_To_SME (All Ports) |
|-------------------------|

Removed Devices****

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save
✖ Delete
+ Add New

Current Route Group Members

Selected Devices***

G711_To_SME (All Ports)

▼

▲

Reverse Order of Selected Devices

▼

▲

Removed Devices****

Route Group Members

G711 To SME

Save
Delete
Add New

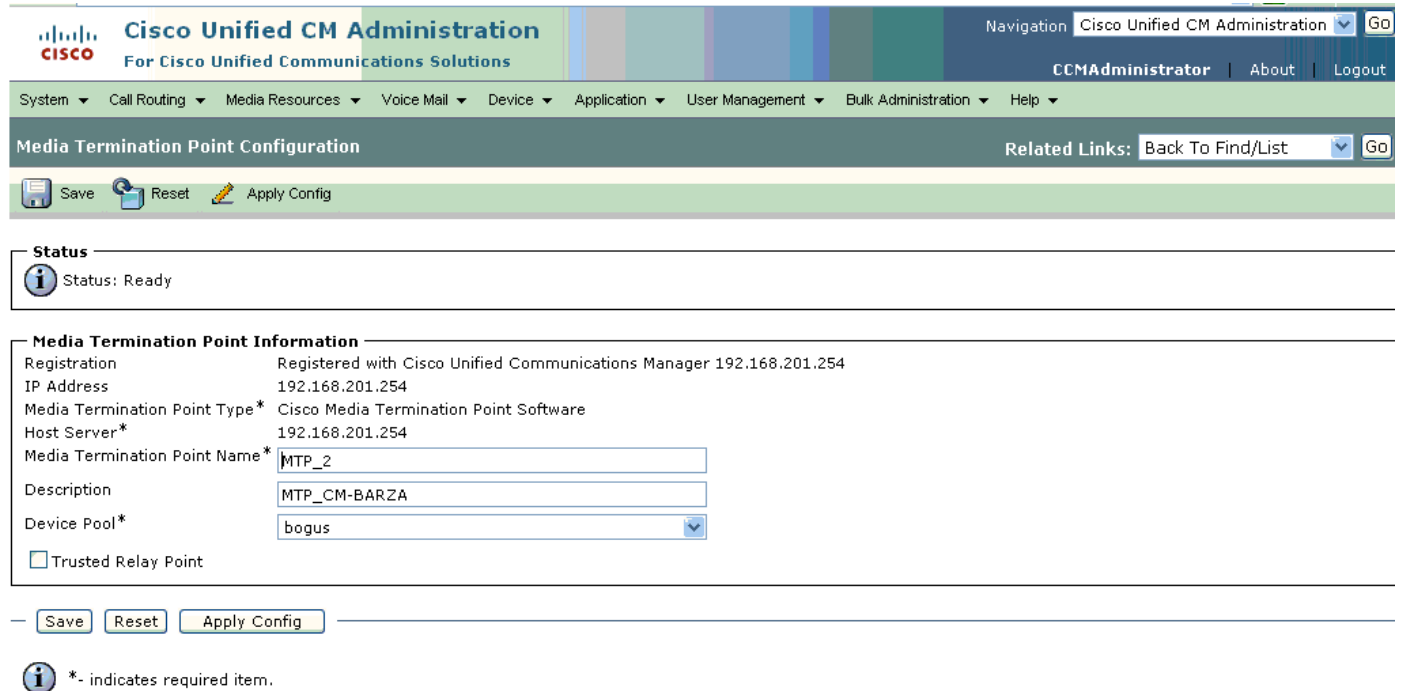
*- indicates required item.

**Select device, select port, and click Add to Route Group

***Ordered by highest priority

****Will be removed from Route Group when you click Save

Cisco UCM Media Termination configurations



The screenshot shows the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and a navigation menu with "Cisco Unified CM Administration" selected. The user is logged in as "CCMAdministrator". The breadcrumb trail shows: System > Call Routing > Media Resources > Voice Mail > Device > Application > User Management > Bulk Administration > Help. The main content area is titled "Media Termination Point Configuration" and includes "Related Links: Back To Find/List" and "Go". Below this are buttons for "Save", "Reset", and "Apply Config".

Status
Status: Ready

Media Termination Point Information

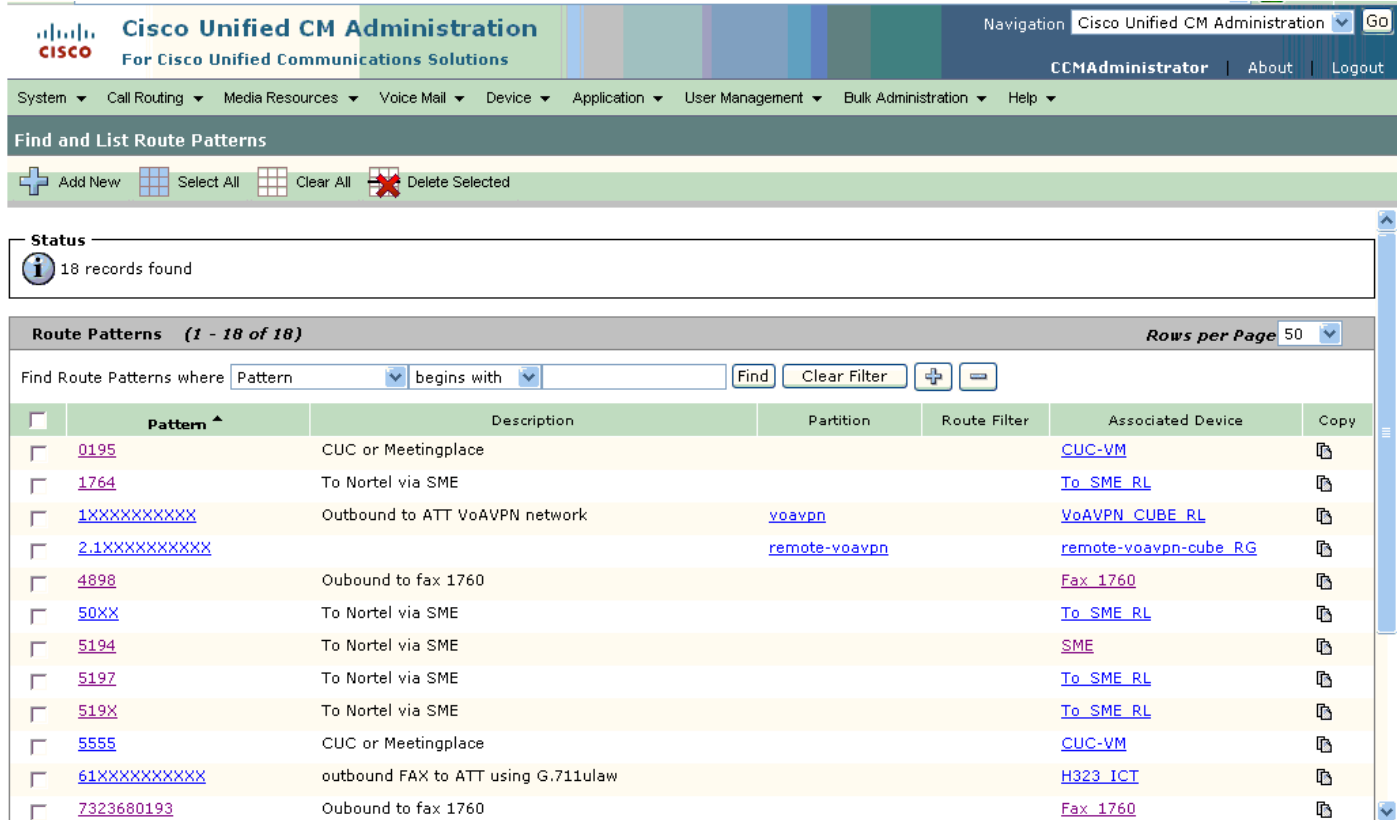
| | |
|-------------------------------|--|
| Registration | Registered with Cisco Unified Communications Manager 192.168.201.254 |
| IP Address | 192.168.201.254 |
| Media Termination Point Type* | Cisco Media Termination Point Software |
| Host Server* | 192.168.201.254 |
| Media Termination Point Name* | <input type="text" value="MTP_2"/> |
| Description | <input type="text" value="MTP_CM-BARZA"/> |
| Device Pool* | <input type="text" value="bogus"/> |

Trusted Relay Point

Save Reset Apply Config

i *- indicates required item.

Cisco UCM Route patterns:



The screenshot shows the Cisco Unified CM Administration web interface. The page title is "Find and List Route Patterns". Below the navigation menu, there are controls for "Add New", "Select All", "Clear All", and "Delete Selected". A status box indicates "18 records found". The main content area displays a table of route patterns with columns for "Pattern", "Description", "Partition", "Route Filter", "Associated Device", and "Copy".

| <input type="checkbox"/> | Pattern ^ | Description | Partition | Route Filter | Associated Device | Copy |
|--------------------------|-------------------------------|-------------------------------------|-------------------------------|--------------|---------------------------------------|------|
| <input type="checkbox"/> | 0195 | CUC or Meetingplace | | | CUC-VM | |
| <input type="checkbox"/> | 1764 | To Nortel via SME | | | To SME RL | |
| <input type="checkbox"/> | 1XXXXXXXXXX | Outbound to ATT VoAVPN network | voavpn | | VoAVPN_CUBE_RL | |
| <input type="checkbox"/> | 2.1XXXXXXXXXX | | remote-voavpn | | remote-voavpn-cube_RG | |
| <input type="checkbox"/> | 4898 | Oubound to fax 1760 | | | Fax_1760 | |
| <input type="checkbox"/> | 50XX | To Nortel via SME | | | To SME RL | |
| <input type="checkbox"/> | 5194 | To Nortel via SME | | | SME | |
| <input type="checkbox"/> | 5197 | To Nortel via SME | | | To SME RL | |
| <input type="checkbox"/> | 519X | To Nortel via SME | | | To SME RL | |
| <input type="checkbox"/> | 5555 | CUC or Meetingplace | | | CUC-VM | |
| <input type="checkbox"/> | 61XXXXXXXXXX | outbound FAX to ATT using G.711ulaw | | | H323_ICT | |
| <input type="checkbox"/> | 7323680193 | Oubound to fax 1760 | | | Fax_1760 | |



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

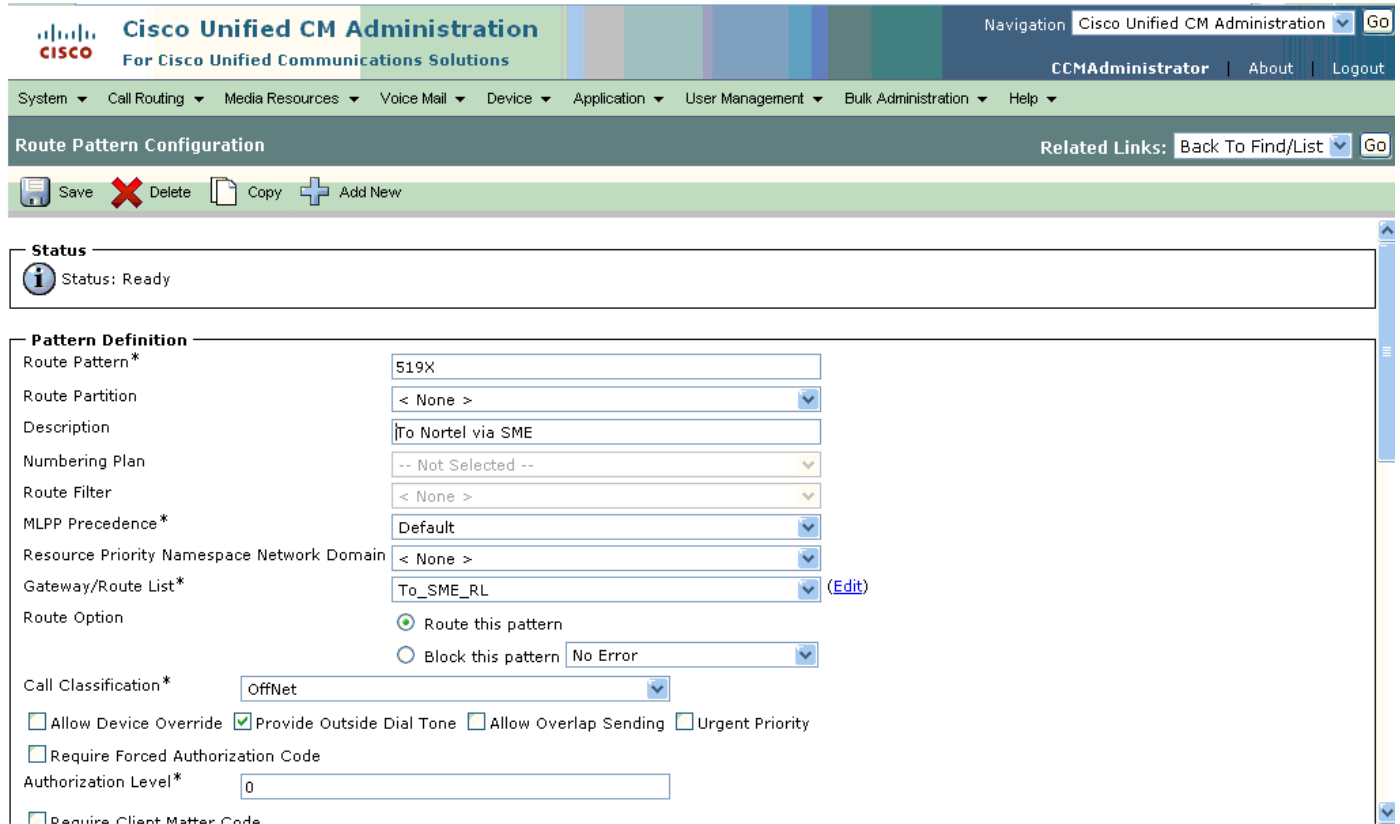
CCMAdministrator | About | Logout

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

Find and List Route Patterns

| | | | | | |
|--------------------------|--|---|-------------------------------|---------------------------------------|--|
| <input type="checkbox"/> | 1764 | To Nortel via SME | | To SME RL | |
| <input type="checkbox"/> | 1XXXXXXXXXX | Outbound to ATT VoAVPN network | voavpn | VoAVPN_CUBE RL | |
| <input type="checkbox"/> | 2.1XXXXXXXXXX | | remote-voavpn | remote-voavpn-cube_RG | |
| <input type="checkbox"/> | 4898 | Oubound to fax 1760 | | Fax 1760 | |
| <input type="checkbox"/> | 50XX | To Nortel via SME | | To SME RL | |
| <input type="checkbox"/> | 5194 | To Nortel via SME | | SME | |
| <input type="checkbox"/> | 5197 | To Nortel via SME | | To SME RL | |
| <input type="checkbox"/> | 519X | To Nortel via SME | | To SME RL | |
| <input type="checkbox"/> | 5555 | CUC or Meetingplace | | CUC-VM | |
| <input type="checkbox"/> | 61XXXXXXXXXX | outbound FAX to ATT using G.711ulaw | | H323 ICT | |
| <input type="checkbox"/> | 7323680193 | Oubound to fax 1760 | | Fax 1760 | |
| <input type="checkbox"/> | 7323680199 | Oubound to fax 1760 - changed to 9 | | Fax 1760 | |
| <input type="checkbox"/> | 8.011XXXXXXXXXXXX | Outbound calls to ATT PSTN via direct to CUBE | | To ATT SIP trunk RL | |
| <input type="checkbox"/> | 8.1XXXXXXXXXXXX | Outbound calls to ATT PSTN via direct to CUBE | | To ATT SIP trunk RL | |
| <input type="checkbox"/> | 9.011XXXXXXXXXXXX | outbound calls to PSTN via SME | | H323 ICT | |
| <input type="checkbox"/> | 9.1XXXXXXXXXXXX | outbound calls to PSTN via SME | | H323 ICT | |
| <input type="checkbox"/> | [034][1780][869][1268] | | | c2801 FAX | |

Cisco UCM route to Nortel PBX via SME:



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title 'Cisco Unified CM Administration For Cisco Unified Communications Solutions', and user information 'CCMAdministrator | About | Logout'. A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled 'Route Pattern Configuration' and includes a 'Related Links' section with 'Back To Find/List' and a 'Go' button. Below this is a toolbar with 'Save', 'Delete', 'Copy', and 'Add New' icons. The 'Status' section shows 'Status: Ready'. The 'Pattern Definition' section contains the following fields and options:

- Route Pattern*: 519X
- Route Partition: < None >
- Description: To Nortel via SME
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Resource Priority Namespace Network Domain: < None >
- Gateway/Route List*: To_SME_RL (Edit)
- Route Option:
 - Route this pattern
 - Block this pattern No Error
- Call Classification*: OffNet
- Checkboxes:
 - Allow Device Override
 - Provide Outside Dial Tone
 - Allow Overlap Sending
 - Urgent Priority
- Require Forced Authorization Code:
- Authorization Level*: 0
- Require Client Matter Code



Cisco Unified CM Administration For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

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

Calling Party Transformations

Use Calling Party's External Phone Number Mask

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*

Called Party Numbering Plan*

Cisco Unified CM Administration

For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Route Pattern Configuration Related Links: Back To Find/List Go

Save
✖ Delete
Copy
+ Add New

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)

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

* - indicates required item.



Cisco UCM route to DID FAX analog line 0193:

The screenshot shows the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the text "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar contains menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Route Pattern Configuration" and includes a "Related Links" section with "Back To Find/List" and "Go". Below this is a toolbar with "Save", "Delete", "Copy", and "Add New" icons. The "Pattern Definition" section contains the following fields and options:

- Route Pattern*: 7323680193
- Route Partition: < None >
- Description: Outbound to fax 1760
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Resource Priority Namespace Network Domain: < None >
- Gateway/Route List*: Fax_1760 (Edit)
- Route Option: Route this pattern, Block this pattern (No Error)
- Call Classification*: OffNet
- Checkboxes: Allow Device Override, Provide Outside Dial Tone, Allow Overlap Sending, Urgent Priority
- Require Forced Authorization Code
- Authorization Level*: 0
- Require Client Matter Code

The "Calling Party Transformations" section at the bottom contains the checkbox Use Calling Party's External Phone Number Mask.



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Route Pattern Configuration Related Links:

Calling Party Transformations

Use Calling Party's External Phone Number Mask

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*

Called Party Numbering Plan*

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration GO

CCMAdministrator | About | Logout

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Route Pattern Configuration

Related Links: Back To Find/List GO

Save
✖ Delete
📄 Copy
➕ Add New

Connected Party Transformations

Connected Line ID Presentation* Default ▾

Connected Name Presentation* Default ▾

Called Party Transformations

Discard Digits < None > ▾

Called Party Transform Mask 0193

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 -- ▾

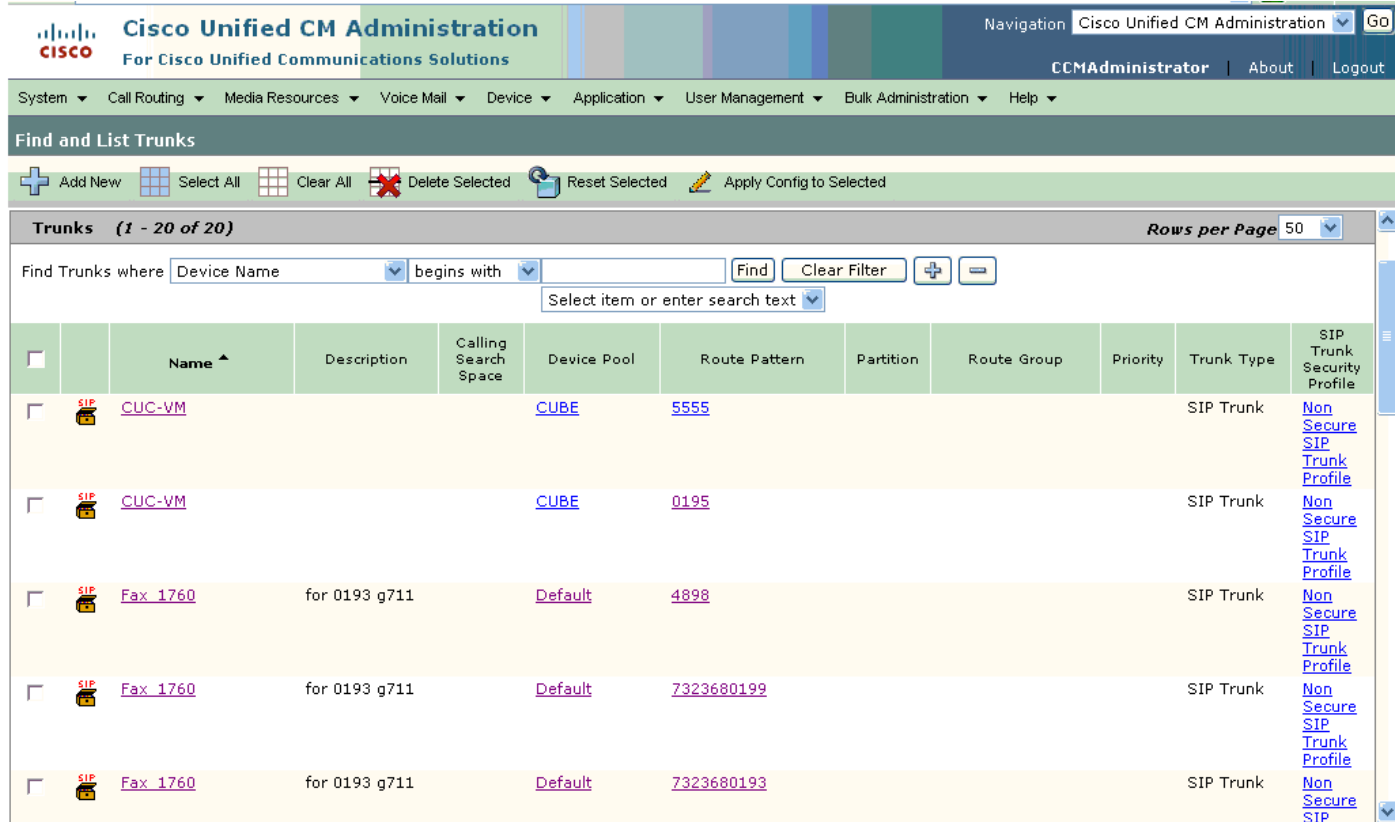
Carrier Identification Code

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







Save
Delete
Copy
Add New

* - indicates required item.

Cisco UCM SIP trunks configurations:



The screenshot shows the Cisco Unified CM Administration web interface. The top navigation bar includes 'Cisco Unified CM Administration' and 'For Cisco Unified Communications Solutions'. The user is logged in as 'CCMAdministrator'. The main menu includes 'System', 'Call Routing', 'Media Resources', 'Voice Mail', 'Device', 'Application', 'User Management', 'Bulk Administration', and 'Help'. The current page is 'Find and List Trunks'. Below the navigation is a toolbar with actions: 'Add New', 'Select All', 'Clear All', 'Delete Selected', 'Reset Selected', and 'Apply Config to Selected'. The main content area is titled 'Trunks (1 - 20 of 20)' and shows a search filter for 'Device Name' set to 'begins with'. Below the search bar is a table of SIP trunks.

| <input type="checkbox"/> |  | Name ^ | Description | Calling Search Space | Device Pool | Route Pattern | Partition | Route Group | Priority | Trunk Type | SIP Trunk Security Profile |
|--------------------------|---|--------------------------|---------------|----------------------|-------------------------|----------------------------|-----------|-------------|----------|------------|--|
| <input type="checkbox"/> |  | CUC-VM | | | CUBE | 5555 | | | | SIP Trunk | Non Secure SIP Trunk Profile |
| <input type="checkbox"/> |  | CUC-VM | | | CUBE | 0195 | | | | SIP Trunk | Non Secure SIP Trunk Profile |
| <input type="checkbox"/> |  | Fax_1760 | for 0193 g711 | | Default | 4898 | | | | SIP Trunk | Non Secure SIP Trunk Profile |
| <input type="checkbox"/> |  | Fax_1760 | for 0193 g711 | | Default | 7323680199 | | | | SIP Trunk | Non Secure SIP Trunk Profile |
| <input type="checkbox"/> |  | Fax_1760 | for 0193 g711 | | Default | 7323680193 | | | | SIP Trunk | Non Secure SIP |



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

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Find and List Trunks

| | | | | | | | | |
|--------------------------|--|------------------------------|-----------------------------------|-----------------------------|---------------------------------|---|---|---|
| <input type="checkbox"/> | | G711_To_SME | G711 trunk to SME | Default | To_SME_RG | 1 | SIP Trunk | Profile Non Secure SIP Trunk Profile |
| <input type="checkbox"/> | | H323 ICT | H323 ICT to SME 172.31.150.254 | G729_SME_DP | 61XXXXXXXXXX | | Inter-Cluster Trunk (Non-Gatekeeper Controlled) | |
| <input type="checkbox"/> | | H323 ICT | H323 ICT to SME 172.31.150.254 | G729_SME_DP | 9.011XXXXXXXXXX | | Inter-Cluster Trunk (Non-Gatekeeper Controlled) | |
| <input type="checkbox"/> | | H323 ICT | H323 ICT to SME 172.31.150.254 | G729_SME_DP | 9.1XXXXXXXXXX | | Inter-Cluster Trunk (Non-Gatekeeper Controlled) | |
| <input type="checkbox"/> | | MeetingPlace | MP7.0 | MP | | | SIP Trunk | Non Secure SIP Trunk Profile |
| <input type="checkbox"/> | | Nortel_CS1K | To Nortel CS1K Rel 4.5 | G729_SME_DP | | | SIP Trunk | Non Secure SIP Trunk Profile |
| <input type="checkbox"/> | | SME | To SME | G729_SME_DP | 5194 | | SIP Trunk | Non Secure SIP Trunk Profile |



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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Find and List Trunks

| | | | | | | | | | | |
|--------------------------|--|----------------------------------|-----------------------------|----------------------------|-------------------------|--|----------------------------------|---|-----------|--|
| <input type="checkbox"/> | | VoAVPN_CUBE | | css-voavpn | CUBE | | VoAVPN_CUBE_RG | 2 | SIP Trunk | View SIP Trunk Profile |
| <input type="checkbox"/> | | VoAVPN_CUBE_q711 | | css-voavpn | Default | | VoAVPN_CUBE_RG | 1 | SIP Trunk | View SIP Trunk Profile |
| <input type="checkbox"/> | | c2801_FAX | Fax gateway for SP test bed | | CUBE | [034][1780][869][1268] | | | SIP Trunk | View SIP Trunk Profile |
| <input type="checkbox"/> | | c2801_FAX_q711 | | | Default | | | | SIP Trunk | View SIP Trunk Profile |
| <input type="checkbox"/> | | c3825_CUBE | SIP Trunk to CUBE/ATT | | CUBE | | To_ATT_SIP_trunk | 2 | SIP Trunk | View SIP Trunk Profile |
| <input type="checkbox"/> | | c3825_CUBE_q711 | | | Default | | To_ATT_SIP_trunk | 1 | SIP Trunk | View SIP Trunk Profile |



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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Find and List Trunks

| | | | | | | | | | |
|--------------------------|--|---|-----------------------------|-----------------------------------|--|---------------------------------------|-----------|--|--|
| <input type="checkbox"/> | | c2801_FAX | Fax gateway for SP test bed | CUBE | [034][1780][869][1268] | | SIP Trunk | Non Secure SIP Trunk Profile | |
| <input type="checkbox"/> | | c2801_FAX_q711 | | Default | | | SIP Trunk | Non Secure SIP Trunk Profile | |
| <input type="checkbox"/> | | c3825_CUBE | SIP Trunk to CUBE/ATT | CUBE | To ATT SIP trunk | 2 | SIP Trunk | Non Secure SIP Trunk Profile | |
| <input type="checkbox"/> | | c3825_CUBE_q711 | | Default | To ATT SIP trunk | 1 | SIP Trunk | Non Secure SIP Trunk Profile | |
| <input type="checkbox"/> | | remote-voavpn-cube | | css-remote-voavpn | remote-CUBE | remote-voavpn-cube_RG | 2 | SIP Trunk | Non Secure SIP Trunk Profile |
| <input type="checkbox"/> | | remote-voavpn-cube_q711 | | css-remote-voavpn | remote_q711 | remote-voavpn-cube_RG | 1 | SIP Trunk | Non Secure SIP Trunk Profile |



Cisco UCM SIP trunk to IOS/FAX_1760 gateway for analog line (4898 or 0193) for Codec G711

The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and the user "CCMAdministrator" with "About" and "Logout" links. A menu bar contains "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", "Bulk Administration", and "Help". The main content area is titled "Trunk Configuration" and includes a "Related Links" section with "Back To Find/List" and a "Go" button. Below this is a toolbar with icons for "Save", "Delete", "Reset", "Apply Config", and "Add New".

The configuration is organized into sections:

- Status:** Shows "Status: Ready" with an information icon.
- Device Information:** A table of configuration parameters:

| | |
|-----------------------------|--------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | Fax_1760 |
| Description | for 0193 g711 |
| Device Pool* | Default |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | Default |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |
- Checkboxes for "Media Termination Point Required" (unchecked), "Retry Video Call as Audio" (checked), and "Transmit LITE 8 for Calling Party Name" (unchecked).



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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Trunk Configuration Related Links:

Media Termination Point required

Retry Video Call as Audio

Transmit UTF-8 for Calling Party Name

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.

Use Trusted Relay Point*

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 | Use Device Pool CSS | Calling Search Sp |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Trunk Configuration Related Links:

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

Outbound Calls

- Called Party Transformation CSS
- Use Device Pool Called Party Transformation CSS
- Calling Party Transformation CSS



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Trunk Configuration Related Links:

Outbound Calls

Called Party Transformation CSS:

Use Device Pool Called Party Transformation CSS

Calling Party Transformation CSS:

Use Device Pool Calling Party Transformation CSS

Calling Party Selection*:

Calling Line ID Presentation*:

Calling Name Presentation*:

Caller ID DN:

Caller Name:

Redirecting Diversion Header Delivery - Outbound

SIP Information

Destination Address:

Destination Address IPv6:

Destination Address is an SRV

Destination Port*:

MTP Preferred Originating Codec*:

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Trunk Configuration Related Links: Back To Find/List Go

Save
 Delete
 Reset
 Apply Config
 Add New

Destination Address is an SRV

Destination Port*

MTP Preferred Originating Codec*

Presence Group*

SIP Trunk Security Profile*

Rerouting Calling Search Space

Out-Of-Dialog Refer Calling Search Space

SUBSCRIBE Calling Search Space

SIP Profile*

DTMF Signaling Method*

Geo Location Configuration

Geo Location

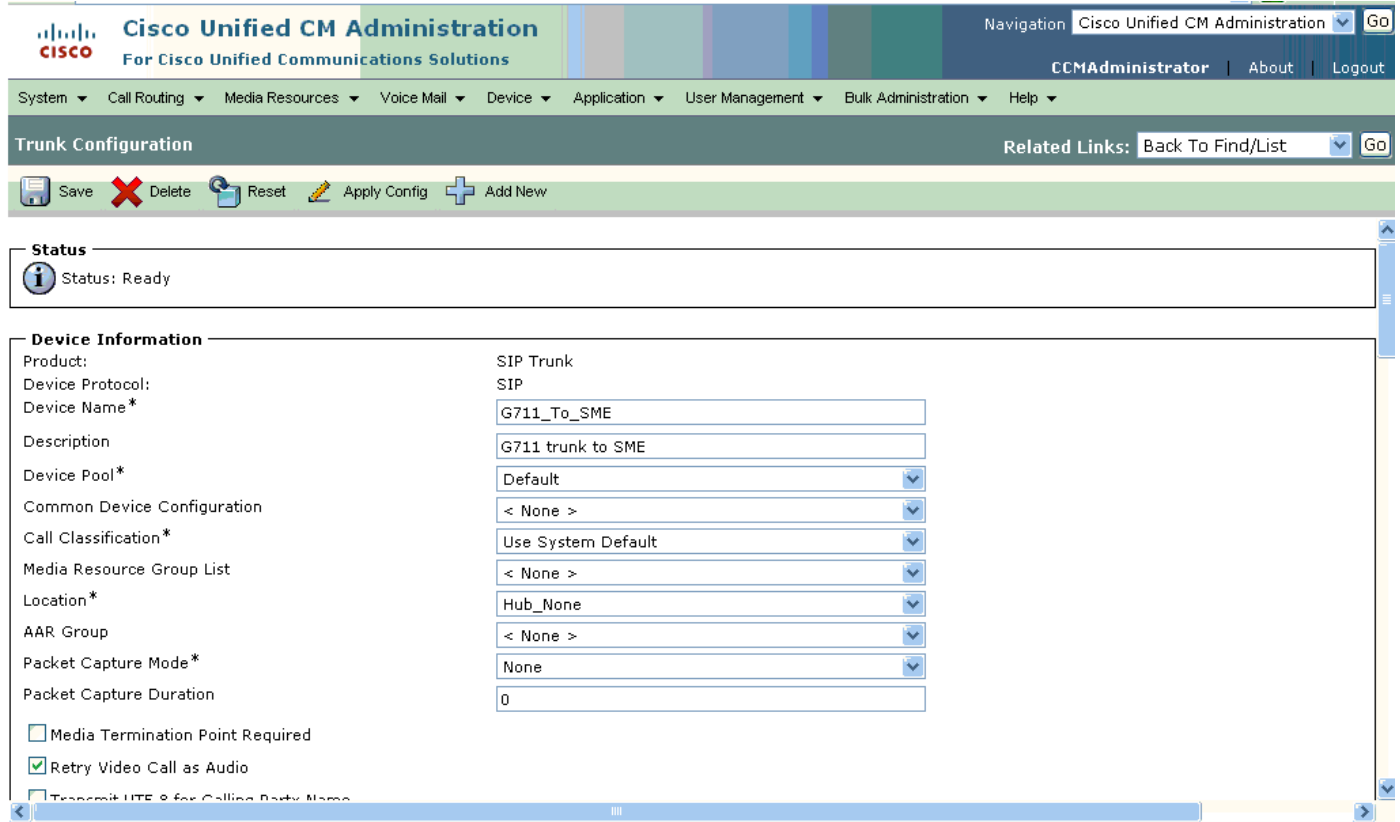
Geo Location Filter

Send GeoLocation Information

Save
Delete
Reset
Apply Config
Add New

*- indicates required item.

Cisco UCM SIP trunk outbound via SME using Codec G711



The screenshot shows the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Trunk Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Reset, Apply Config, and Add New. The configuration is organized into sections: "Status" (showing "Status: Ready") and "Device Information".

| Device Information | |
|--|--------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | G711_To_SME |
| Description | G711 trunk to SME |
| Device Pool* | Default |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | < None > |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |
| <input type="checkbox"/> Media Termination Point Required <input checked="" type="checkbox"/> Retry Video Call as Audio <input type="checkbox"/> Transmit UTE 9 for Calling Party Name | |



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAAdministrator | About | Logout

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

Trunk Configuration Related Links:

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.

Use Trusted Relay Point*

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 | Use Device Pool CSS | Calling Search Sp. |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id

Asserted-Identity



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Trunk Configuration Related Links:

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

Outbound Calls

Called Party Transformation CSS
 Use Device Pool Called Party Transformation CSS
Calling Party Transformation CSS
 Use Device Pool Calling Party Transformation CSS



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Trunk Configuration Related Links:

Outbound Calls

Called Party Transformation CSS

Use Device Pool Called Party Transformation CSS

Calling Party Transformation CSS

Use Device Pool Calling Party Transformation CSS

Calling Party Selection*

Calling Line ID Presentation*

Calling Name Presentation*

Caller ID DN

Caller Name

Redirecting Diversion Header Delivery - Outbound

SIP Information

Destination Address

Destination Address IPv6

Destination Address is an SRV

Destination Port*

MTP Preferred Originating Codec*

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Trunk Configuration Related Links:

| | |
|--|---|
| MTP Preferred Originating Codec* | <input type="text" value="711ulaw"/> |
| Presence Group* | <input type="text" value="Standard Presence group"/> |
| SIP Trunk Security Profile* | <input type="text" value="Non Secure SIP Trunk Profile"/> |
| Rerouting Calling Search Space | <input type="text" value="< None >"/> |
| Out-Of-Dialog Refer Calling Search Space | <input type="text" value="< None >"/> |
| SUBSCRIBE Calling Search Space | <input type="text" value="< None >"/> |
| SIP Profile* | <input type="text" value="Standard SIP Profile"/> |
| DTMF Signaling Method* | <input type="text" value="No Preference"/> |

Geo Location Configuration

Geo Location

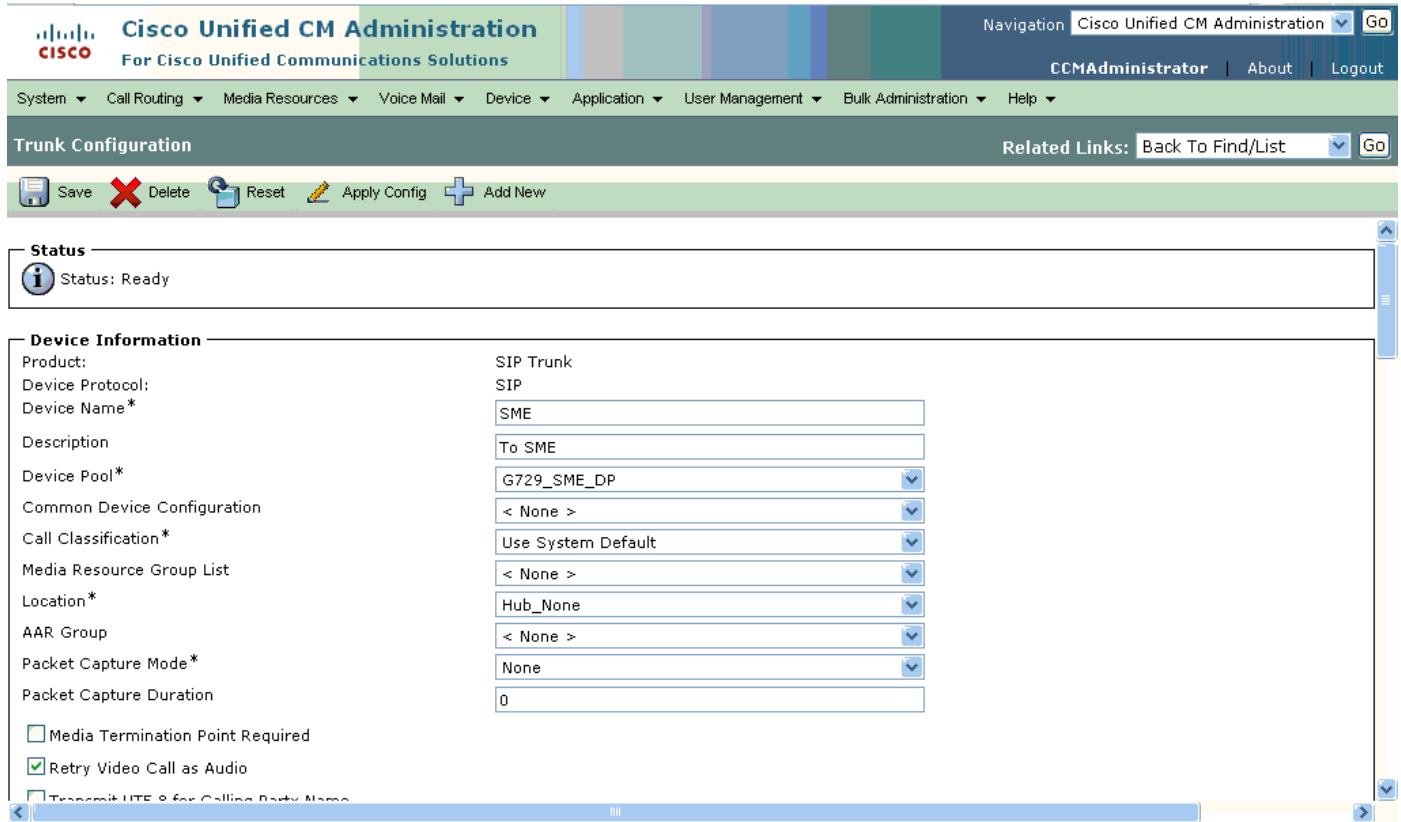
Geo Location Filter

Send GeoLocation Information

i *- indicates required item.

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

Cisco UCM SIP trunk outbound via SME using Codec G729



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Trunk Configuration" and includes a "Related Links: Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Reset, Apply Config, and Add New. The configuration is organized into sections: "Status" (showing "Ready") and "Device Information".

| Device Information | |
|---|--------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | SME |
| Description | To SME |
| Device Pool* | G729_SME_DP |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | < None > |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |
| <input type="checkbox"/> Media Termination Point Required <input checked="" type="checkbox"/> Retry Video Call as Audio <input type="checkbox"/> Transmit LITE 8 for Calling Party Name | |



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration | Go

CCMAdministrator | About | Logout

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

Trunk Configuration

Related Links: Back To Find/List | Go

Save | Delete | Reset | Apply Config | Add New

- Retry Video Call as Audio
- Transmit UTF-8 for Calling Party Name
- 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.

Use Trusted Relay Point*

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 | Use Device Pool CSS | Calling Search Sp. |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration | Go
CCMAdministrator | About | Logout

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

Trunk Configuration

Related Links: Back To Find/List | Go

Save | Delete | Reset | Apply Config | Add New

- Retry Video Call as Audio
- Transmit UTF-8 for Calling Party Name
- 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.

Use Trusted Relay Point*

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 | Use Device Pool CSS | Calling Search Sp. |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go
CCMAdministrator | About | Logout

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

Trunk Configuration Related Links: Back To Find/List Go

Save Delete Reset Apply Config Add New

Call Routing Information

- Remote-Party-Id
- Asserted-Identity
- Asserted-Type* PAI
- SIP Privacy* Default

Inbound Calls

- Significant Digits* All
- Connected Line ID Presentation* Default
- Connected Name Presentation* Default
- Calling Search Space < None >
- AAR Calling Search Space < None >
- Prefix DN
- Redirecting Diversion Header Delivery - Inbound

Outbound Calls

- Called Party Transformation CSS < None >
- Use Device Pool Called Party Transformation CSS
- Calling Party Transformation CSS < None >



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Trunk Configuration

Related Links:

| | |
|--|---|
| MTP Preferred Originating Codec* | <input type="text" value="G729/G729a"/> |
| Presence Group* | <input type="text" value="Standard Presence group"/> |
| SIP Trunk Security Profile* | <input type="text" value="Non Secure SIP Trunk Profile"/> |
| Rerouting Calling Search Space | <input type="text" value="< None >"/> |
| Out-Of-Dialog Refer Calling Search Space | <input type="text" value="< None >"/> |
| SUBSCRIBE Calling Search Space | <input type="text" value="< None >"/> |
| SIP Profile* | <input type="text" value="Standard SIP Profile"/> |
| DTMF Signaling Method* | <input type="text" value="RFC 2833"/> |

Geo Location Configuration

| | |
|---------------------|---|
| Geo Location | <input type="text" value="-- Not Selected --"/> |
| Geo Location Filter | <input type="text" value="< None >"/> |

Send GeoLocation Information



Cisco UCM SIP trunk outbound to Nortel PBX using Codec G729

The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Trunk Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Reset, Apply Config, and Add New. The "Device Information" section is expanded, showing the following configuration details:

| | |
|-----------------------------|------------------------|
| Product: | SIP Trunk |
| Device Protocol: | SIP |
| Device Name* | Nortel_CS1K |
| Description | To Nortel CS1K Rel 4.5 |
| Device Pool* | G729_SME_DP |
| Common Device Configuration | < None > |
| Call Classification* | Use System Default |
| Media Resource Group List | G729_SME_MRGL |
| Location* | Hub_None |
| AAR Group | < None > |
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |

Below the table, several checkboxes are visible:

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



Application Note

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

CCAdministrator | About | Logout

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

Trunk Configuration Related Links:

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.
Use Trusted Relay Point*

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 | Use Device Pool CSS | Calling Search Sp |
|----------------|--------------------------------------|--------------------------------|-------------------------------------|---|
| Unknown Number | <input type="text" value="Default"/> | <input type="text" value="0"/> | <input checked="" type="checkbox"/> | <input type="text" value="< None >"/> |

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id
 Asserted-Identity
Asserted-Type*



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For Cisco Unified Communications Solutions

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Trunk Configuration Related Links:

Inbound Calls

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

Redirecting Diversion Header Delivery - Inbound

Outbound Calls

| | |
|--|------------|
| Called Party Transformation CSS | < None > |
| <input checked="" type="checkbox"/> Use Device Pool Called Party Transformation CSS | |
| Calling Party Transformation CSS | < None > |
| <input checked="" type="checkbox"/> Use Device Pool Calling Party Transformation CSS | |
| Calling Party Selection* | Originator |
| Calling Line ID Presentation* | Default |
| Calling Name Presentation* | Default |
| Caller ID DN | |
| Caller Name | |



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Trunk Configuration Related Links:

Inbound Calls

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

Redirecting Diversion Header Delivery - Inbound

Outbound Calls

| | |
|--|------------|
| Called Party Transformation CSS | < None > |
| <input checked="" type="checkbox"/> Use Device Pool Called Party Transformation CSS | |
| Calling Party Transformation CSS | < None > |
| <input checked="" type="checkbox"/> Use Device Pool Calling Party Transformation CSS | |
| Calling Party Selection* | Originator |
| Calling Line ID Presentation* | Default |
| Calling Name Presentation* | Default |
| Caller ID DN | |
| Caller Name | |



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Trunk Configuration Related Links:

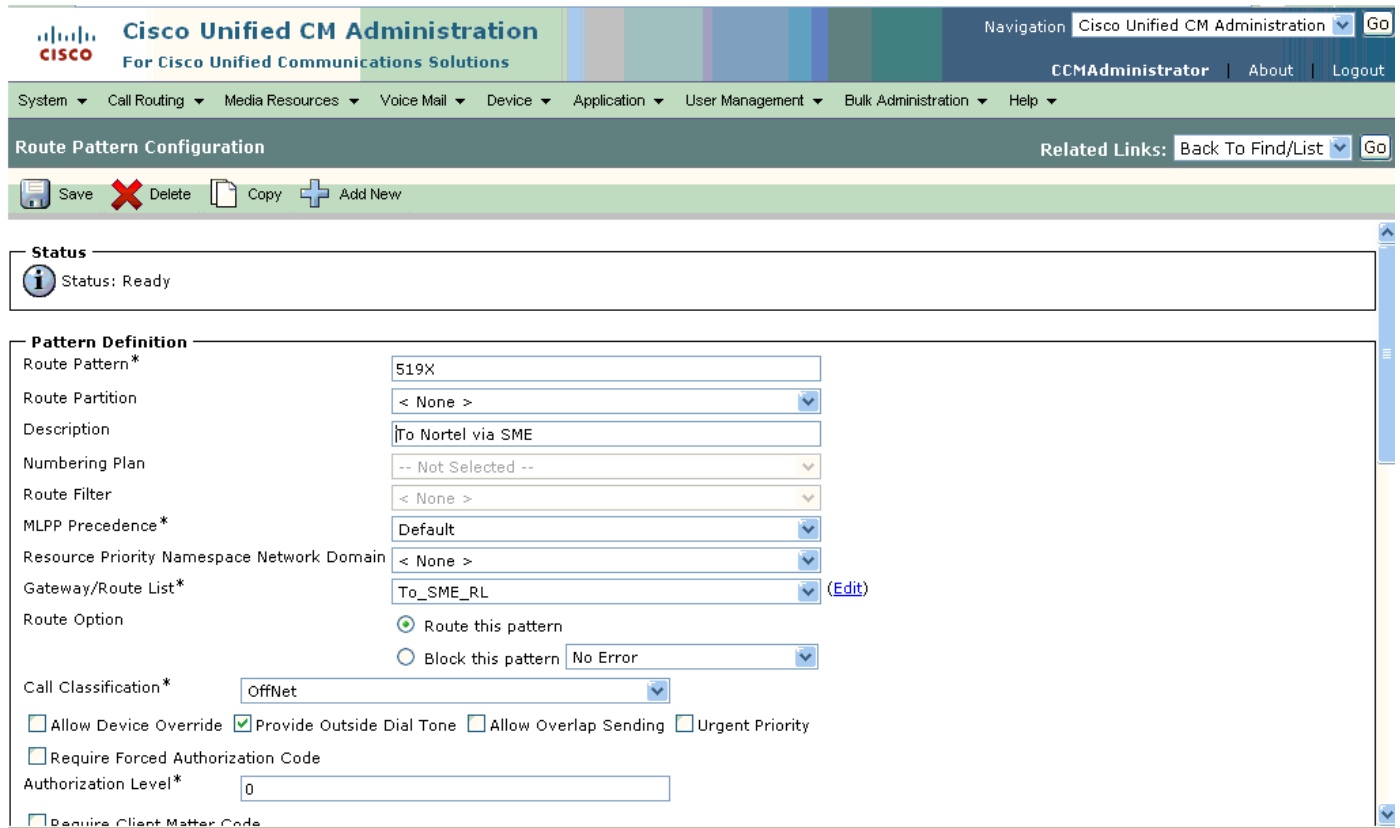
SIP Information

| | |
|--|---|
| Destination Address | <input type="text" value="10.10.61.2"/> |
| Destination Address IPv6 | <input type="text"/> |
| <input type="checkbox"/> Destination Address is an SRV | |
| Destination Port* | <input type="text" value="5060"/> |
| MTP Preferred Originating Codec* | <input type="text" value="G729/G729a"/> |
| Presence Group* | <input type="text" value="Standard Presence group"/> |
| SIP Trunk Security Profile* | <input type="text" value="Non Secure SIP Trunk Profile"/> |
| Rerouting Calling Search Space | <input type="text" value="< None >"/> |
| Out-Of-Dialog Refer Calling Search Space | <input type="text" value="< None >"/> |
| SUBSCRIBE Calling Search Space | <input type="text" value="< None >"/> |
| SIP Profile* | <input type="text" value="Standard SIP Profile"/> |
| DTMF Signaling Method* | <input type="text" value="No Preference"/> |

Geo Location Configuration

| | |
|---|---|
| Geo Location | <input type="text" value="-- Not Selected --"/> |
| Geo Location Filter | <input type="text" value="< None >"/> |
| <input type="checkbox"/> Send GeoLocation Information | |

Cisco UCM SIP trunk outbound to Nortel PBX Via SME for extension 519x



The screenshot displays the Cisco Unified CM Administration web interface. The top navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and a navigation menu with "Cisco Unified CM Administration" selected. Below this is a secondary menu with "CCMAdministrator", "About", and "Logout". A breadcrumb trail shows "System" > "Call Routing" > "Media Resources" > "Voice Mail" > "Device" > "Application" > "User Management" > "Bulk Administration" > "Help". The main content area is titled "Route Pattern Configuration" and includes a "Related Links" section with "Back To Find/List". A toolbar contains "Save", "Delete", "Copy", and "Add New" icons. The "Status" section shows "Status: Ready". The "Pattern Definition" section contains the following fields:

- Route Pattern*: 519X
- Route Partition: < None >
- Description: |To Nortel via SME
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Resource Priority Namespace Network Domain: < None >
- Gateway/Route List*: To_SME_RL (Edit)
- Route Option:
 - Route this pattern
 - Block this pattern No Error
- Call Classification*: OffNet
- Allow Device Override
- Provide Outside Dial Tone
- Allow Overlap Sending
- Urgent Priority
- Require Forced Authorization Code
- Authorization Level*: 0
- Require Client Matter Code



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Route Pattern Configuration Related Links:

Calling Party Transformations

Use Calling Party's External Phone Number Mask

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*

Called Party Numbering Plan*

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Route Pattern Configuration Related Links: Back To Find/List Go

Save
✖ Delete
📄 Copy
➕ Add New

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)

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

*- indicates required item.



Cisco UCM SIP phone configurations:

The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and user information "CCMAdministrator | About | Logout". A secondary navigation bar lists menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Phone Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with icons for Save, Delete, Copy, Reset, Apply Config, and Add New. The configuration details are organized into several sections:

- Status:** Shows "Status: Ready".
- Association Information:** Contains a "Modify Button Items" button and a list of 7 lines. Line 1 is "Line [1] - 4894 (no partition)". Lines 2-6 are "Line [2] - Add a new DN" through "Line [6] - Add a new DN". Line 7 is "None".
- Phone Type:** Shows "Product Type: Cisco 7960" and "Device Protocol: SIP".
- Device Information:** A table of configuration parameters:

| | |
|-----------------------------|--|
| Registration | Registered with Cisco Unified Communications Manager 192.168.201.254 |
| IP Address | 172.31.150.98 |
| Active Load ID | Unknown |
| Is Active | <input checked="" type="checkbox"/> |
| MAC Address* | 0015FA0CB1DC |
| Description | RISIP4894 |
| Device Pool* | Default View Details |
| Common Device Configuration | < None > View Details |
| Phone Button Template* | Standard 7960 SIP |
| Common Phone Profile* | Standard Common Phone Profile |
| Calling Search Space | < None > |
| AAR Calling Search Space | < None > |
| Media Resource Group List | C7960_SME_MRCI |



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Phone Configuration Related Links:

| | | |
|--|----------------------|--|
| AAR Calling Search Space | < None > | <input type="button" value="v"/> |
| Media Resource Group List | G729_SME_MRGL | <input type="button" value="v"/> |
| User Hold MOH Audio Source | < None > | <input type="button" value="v"/> |
| Network Hold MOH Audio Source | < None > | <input type="button" value="v"/> |
| Location* | Hub_None | <input type="button" value="v"/> |
| AAR Group | < None > | <input type="button" value="v"/> |
| Privacy* | Default | <input type="button" value="v"/> |
| Device Mobility Mode* | Default | <input type="button" value="v"/> View Current Device |
| Owner User ID | < None > | <input type="button" value="v"/> |
| Phone Load Name | <input type="text"/> | |
| Use Trusted Relay Point* | Default | <input type="button" value="v"/> |
| Always Use Prime Line* | Default | <input type="button" value="v"/> |
| Always Use Prime Line for Voice Message* | Default | <input type="button" value="v"/> |
| Calling Party Transformation CSS | < None > | <input type="button" value="v"/> |
| Geo Location | < None > | <input type="button" value="v"/> |

Use Device Pool Calling Party Transformation CSS
 Ignore Presentation Indicators (internal calls only)
 Logged Into Hunt Group



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Phone Configuration Related Links:

Logged Into Hunt Group
 Remote Device

Protocol Specific Information

Presence Group*

SIP Dial Rules

MTP Preferred Originating Codec*

Device Security Profile*

Rerouting Calling Search Space

SUBSCRIBE Calling Search Space

SIP Profile*

Digest User

Media Termination Point Required
 Unattended Port
 Require DTMF Reception

External Data Locations Information (Leave blank to use default)

Information

Directory

Messages



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Trunk Configuration Related Links:

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

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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Phone Configuration Related Links:

External Data Locations Information (Leave blank to use default)

Information

Directory

Messages

Services

Authentication Server

Proxy Server

Idle

Idle Timer (seconds)

Configuration File Encryption Symmetric Key Information

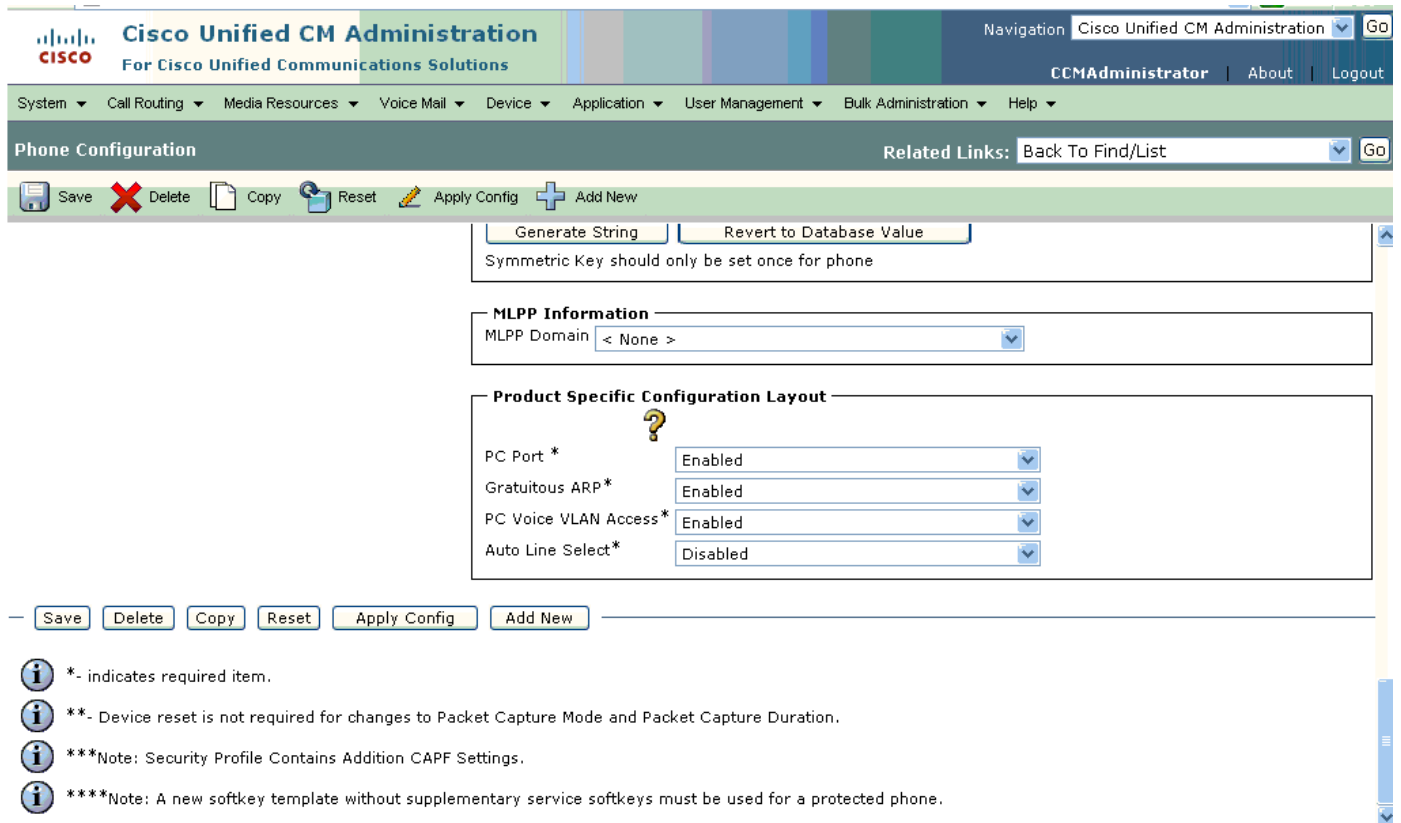
Symmetric Key

Symmetric Key should only be set once for phone

MLPP Information

MLPP Domain

Product Specific Configuration Layout



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Phone Configuration Related Links:

Symmetric Key should only be set once for phone





MLPP Information

MLPP Domain

Product Specific Configuration Layout

?

| | |
|-----------------------|---------------------------------------|
| PC Port * | <input type="text" value="Enabled"/> |
| Gratuitous ARP* | <input type="text" value="Enabled"/> |
| PC Voice VLAN Access* | <input type="text" value="Enabled"/> |
| Auto Line Select* | <input type="text" value="Disabled"/> |

-  *- indicates required item.
-  **- Device reset is not required for changes to Packet Capture Mode and Packet Capture Duration.
-  ***Note: Security Profile Contains Addition CAPF Settings.
-  ****Note: A new softkey template without supplementary service softkeys must be used for a protected phone.



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Directory Number Configuration Related Links:

Directory Number Information

| | |
|---------------------|---|
| Directory Number* | <input type="text" value="4894"/> |
| Route Partition | <input style="border: none;" type="text" value=" < None > "/> |
| Description | <input type="text" value="SMESIP4894"/> |
| Alerting Name | <input type="text" value="ALERTSIP4894"/> |
| ASCII Alerting Name | <input type="text" value="ALERTSIP4894"/> |
| Associated Devices | <input type="text" value="SEP0015FA0CB1DC"/> |
| | ▼ ▲ |
| Dissociate Devices | <input type="text"/> |

Directory Number Settings

| | | |
|-------------------------------|---|---------------------------------------|
| Voice Mail Profile | <input type="text" value="Default"/> | (Choose <None> to use system default) |
| Calling Search Space | <input style="border: none;" type="text" value=" < None > "/> | |
| Presence Group* | <input type="text" value="Standard Presence group"/> | |
| User Hold MOH Audio Source | <input style="border: none;" type="text" value=" < None > "/> | |
| Network Hold MOH Audio Source | <input style="border: none;" type="text" value=" < None > "/> | |



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Directory Number Configuration Related Links: Configure Device (SEP0015FA0CB1DC)

AAR Settings

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

Call Forward and Call Pickup Settings

| | Voice Mail | Destination | Calling Search Space |
|--|-----------------------------|----------------------|----------------------|
| Calling Search Space Activation Policy | | | Use System Default |
| Forward All | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Secondary Calling Search Space for Forward All | | | < None > |
| Forward Busy Internal | <input type="checkbox"/> or | 914085771764 | < None > |
| Forward Busy External | <input type="checkbox"/> or | 914085771764 | < None > |
| Forward No Answer Internal | <input type="checkbox"/> or | 914085771764 | < None > |
| Forward No Answer External | <input type="checkbox"/> or | 914085771764 | < None > |
| Forward No Coverage Internal | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward No Coverage External | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward on CTI Failure | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward Unregistered Internal | <input type="checkbox"/> or | 914085771764 | < None > |



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Directory Number Configuration

Related Links:

| | | | |
|-----------------------------------|--|---|--|
| Forward Unregistered Internal | <input type="checkbox"/> or | <input type="text" value="914085771764"/> | <input type="text" value=" < None >"/> |
| Forward Unregistered External | <input type="checkbox"/> or | <input type="text" value="914085771764"/> | <input type="text" value=" < None >"/> |
| No Answer Ring Duration (seconds) | <input type="text"/> | | |
| Call Pickup Group | <input type="text" value=" < None >"/> | | |

Park Monitoring

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

MLPP Alternate Party Settings

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



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Directory Number Configuration Related Links: Configure Device (SEP0015FA0CB1DC) [Go]

Save Delete Reset Apply Config Add New

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*

Line 1 on Device SEP0015FA0CB1DC

Display (Internal Caller ID) Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.

ASCII Display (Internal Caller ID)

Line Text Label

ASCII Line Text Label

External Phone Number Mask

Monitoring Calling Search Space

Multiple Call/Call Waiting Settings on Device SEP0015FA0CB1DC

Note: The range to select the Max Number of calls is: 1-2

Maximum Number of Calls*

Busy Trigger* (See the Busy Trigger Max Calls)



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Directory Number Configuration Related Links:

Multiple Call/Call Waiting Settings on Device SEP0015FA0CB1DC

Note: The range to select the Max Number of calls is: 1-2

Maximum Number of Calls*

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

Forwarded Call Information Display on Device SEP0015FA0CB1DC

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

Users Associated with Line

i *- indicates required item.

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



Cisco UCM - Voice mail configurations

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Find and List Voice Mail Pilots

Status
 3 records found

Voice Mail Pilot (1 - 3 of 3) Rows per Page 50 ▾

Find Voice Mail Pilot where: Voice Mail Pilot Number ▾ begins with ▾

| | | Pilot Number ^ | Description | Calling Search Space |
|-------------------------------------|--|----------------|-------------------------------|----------------------|
| <input type="checkbox"/> | | | Default | |
| <input type="checkbox"/> | | | No Voice Mail | |
| <input checked="" type="checkbox"/> | | 0195 | | |



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Voice Mail Pilot Configuration Related Links:

Status

Status: Ready

Voice Mail Pilot Information

Voice Mail Pilot Number


Calling Search Space

Description

Make this the default Voice Mail Pilot for the system

*- indicates required item.

Cisco UCM - Voice Mail Ports









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

Find and List Voice Mail Ports

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



Status

 2 records found

Voice Mail Port (1 - 2 of 2) Rows per Page 50

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

Select item or enter search text

| <input type="checkbox"/> | Device Name | Description | Device Pool | Device Security Mode | Calling Search Space | Ext. | Partition | Status | IP Address | Copy |
|--------------------------|------------------------------|-------------|----------------------|----------------------------|----------------------|------|-----------|---------------------------------|----------------|---|
| <input type="checkbox"/> | CiscoUM1-VI1 | | CUBE | Non Secure Voice Mail Port | | 1500 | | Registered with 192.168.201.254 | 192.168.201.50 |  |
| <input type="checkbox"/> | CiscoUM1-VI2 | | CUBE | Non Secure Voice Mail Port | | 1501 | | Registered with 192.168.201.254 | 192.168.201.50 |  |

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



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

Save Delete Copy Reset Apply Config Add New

Status
Status: Ready

Device Information

| | |
|-----------------------------|--|
| Registration | Registered with Cisco Unified Communications Manager 192.168.201.254 |
| IP Address | 192.168.201.50 |
| Port Name* | CiscoUM1-VI1 |
| Description | |
| Device Pool* | CUBE |
| 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 |
| Geo Location | < None > |

Directory Number Information

| | |
|-------------------|----------|
| Directory Number* | 1500 |
| Partition | < None > |

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

Save
 Delete
 Copy
 Reset
 Apply Config
 Add New

| | |
|--------------------------|--|
| Calling Search Space | <input type="text" value=" < None >"/> |
| AAR Calling Search Space | <input type="text" value=" < None >"/> |
| Location* | <input type="text" value=" Hub_None"/> |
| Device Security Mode* | <input type="text" value=" Non Secure Voice Mail Port"/> |
| Use Trusted Relay Point* | <input type="text" value=" Default"/> |
| Geo Location | <input type="text" value=" < None >"/> |

Directory Number Information

| | |
|---|--|
| Directory Number* | <input type="text" value=" 1500"/> |
| Partition | <input type="text" value=" < None >"/> |
| Calling Search Space | <input type="text" value=" < None >"/> |
| AAR Group | <input type="text" value=" < None >"/> |
| Internal Caller ID Display | <input type="text" value=" VoiceMail"/> |
| Internal Caller ID Display (ASCII format) | <input type="text" value=" VoiceMail"/> |
| External Number Mask | <input type="text"/> |

Save
Delete
Copy
Reset
Apply Config
Add New

*- indicates required item.



Cisco UCM - Voice Mail Message Configurations

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Find and List Voice Mail Profiles


Status

3 records found

Voice Mail Profile (1 - 3 of 3) Rows per Page: 50 ▾

Find Voice Mail Profile where Voice Mail Profile Name begins with

| | Name ^ | Description | Pilot | Calling Search Space | Copy |
|--------------------------|-----------------------------|---------------------------------|-------|----------------------|------|
| <input type="checkbox"/> | ATT-UnityC | | 0195 | | |
| | Default | Default voice messaging profile | | | |
| <input type="checkbox"/> | NoVoiceMail | No Voice Mail | | | |


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Voice Mail Profile Configuration Related Links:

Status

 Status: Ready

Voice Mail Profile Information

Voice Mail Profile ATT-UnityC (used by 3 devices)


Voice Mail Profile Name*


Description

Voice Mail Pilot**

Voice Mail Box: Mask

Make this the default Voice Mail Profile for the System

 *- indicates required item.

 **- 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 >).



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Voice Mail Profile Configuration Related Links:

Status

Status: Ready

Voice Mail Profile Information

Voice Mail Profile ATT-UnityC (used by 3 devices)

Voice Mail Profile Name*

Description

Voice Mail Pilot**

Voice Mail Box Mask

Make this the default Voice Mail Profile for the System

*- indicates required item.

**- 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 IOS Gateway Configurations

Configuring the Cisco Unified Border Element (CUBE)

```
c3825_CUBE#sh ver
Cisco IOS Software, 3800 Software (C3825-IPVOICEK9-M), Version 15.0(1)XA, RELEAS
E SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Thu 22-Oct-09 01:41 by prod_rel_team
```

ROM: System Bootstrap, Version 12.3(11r)T2, RELEASE SOFTWARE (fc1)

```
c3825_CUBE uptime is 3 weeks, 4 days, 21 hours, 54 minutes
System returned to ROM by reload at 01:46:30 UTC Fri Nov 6 2009
System restarted at 01:49:07 UTC Fri Nov 6 2009
System image file is "flash:c3825-ipvoicek9-mz.150-1.XA.bin"
```

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If you require further assistance please contact us by sending email to export@cisco.com.

Cisco 3825 (revision 1.1) with 489471K/34816K bytes of memory.
Processor board ID FTX1025A25D
2 Gigabit Ethernet interfaces
5 Serial interfaces
2 Channelized T1/PRI ports
DRAM configuration is 64 bits wide with parity enabled.
479K bytes of NVRAM.
62720K bytes of ATA System CompactFlash (Read/Write)

License Info:

License UDI:

```
-----  
Device#  PID          SN  
-----  
*0      CISCO3825      FTX1025A25D
```

Configuration register is 0x2102

c3825_CUBE#

c3825_CUBE# sh run
Building configuration...

```
Current configuration : 10310 bytes  
!  
! Last configuration change at 00:48:34 UTC Tue Dec 1 2009  
! NVRAM config last updated at 23:32:53 UTC Tue Nov 24 2009  
!  
version 15.0  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname c3825_CUBE  
!  
boot-start-marker  
boot-end-marker  
!  
card type t1 0 2  
logging buffered 20000000  
no logging console  
!
```

```
no aaa new-model
network-clock-participate wic 2
network-clock-select 1 T1 0/2/0
!
dot11 syslog
ip source-route
ip cef
!
!
!
no ipv6 cef
multilink bundle-name authenticated
!
!
!
!
isdn switch-type primary-ni
!
voice-card 0
dspfarm
dsp services dspfarm1
!
!
!
voice service voip
address-hiding2
allow-connections sip to sip
redirect ip2ip
h323
sip
header-passing error-passthru3
no update-callerid
no anat
midcall-signaling passthru4
g729 annexb-all5
!
voice class codec 16
codec preference 1 g729r8
codec preference 2 g711ulaw
!
voice class sip-profiles 1
request INVITE sip-header Diversion modify "< sip:(.*)@(.*)>" "< sip:732320\1@\2>7
```

¹ This command enables DSP Farm, allowing DSP resources to register to Cisco Unified CM as MTP, CFB or Transcoder devices.

² Enables IP addressing hiding between the private network (CUCM side) and the public network (AT&T)

³ This command allows for SIP error messages to pass-through end-to-end without modification through CUBE.

⁴ This command must be enabled at a global level to maintain integrity of SIP signaling between AT&T network and Cisco Unified CM across CUBE.

⁵ This command allows CUBE to negotiate all flavors of G729 codec and must be configured in order to interoperate seamlessly across AT&T's BVOIP services. The command can be enabled either globally, such as in this example, or per dial-peer basis using the "voice-class sip g729 annexb-all" command.

⁶ This command enables multiple codec support and performs codec filtering required for correct interoperability between AT&T SIP network and Cisco Unified CM.



```
"
request REINVITE sdp-header Attribute modify "a=T38FaxFillBitRemoval:0" ""
response ANY sdp-header Audio-Attribute add "a=silenceSupp:off - - -"
!
voice class sip-profiles 100
request ANY sdp-header Audio-Attribute add "a=silenceSupp:off - - -"
response ANY sdp-header Audio-Attribute add "a=silenceSupp:off - - -"
!
!
voice register global
dialplan-pattern 1 .... extension-length 4
call-forward system redirecting-expanded
!
!
!
voice translation-rule 1
rule 1 //732320\1/
!
voice translation-rule 5
rule 1 /0003076/ /7323680196/
!
voice translation-rule 10
rule 1 /21/ /1\1/
!
voice translation-rule 99
rule 1 /^61/ /1\1/
!
!
voice translation-profile Diversion-header-expand
translate redirect-called 1
!
voice translation-profile fax
translate called 5
!
voice translation-profile fax-call
translate called 10
!
voice translation-profile fax-strip6
translate called 99
!
voice translation-profile tdm-vm
translate called 2
!
!
!
!
!
!
license udi pid CISCO3825 sn FTX1025A25D
archive
log config
hidekeys
!
!
controller T1 0/2/0
cablelength long -7.5db
pri-group timeslots 1-4,24
!
```

⁷ This SIP profile expands the Diversion header number from a 4-digit extension to a full 10-digit D⁷ID number in order to obtain interoperability with AT&T's HIPCS (NSN) served users during call-forward calls.



```
controller T1 0/2/1
cablelength long 0db
!
ip ftp username cisco
ip ftp password cisco
!
!
!
!
!
interface GigabitEthernet0/0
ip address 99.136.103.65 255.255.255.0
ip access-group 101 in
duplex auto
speed auto
media-type rj45
!
interface GigabitEthernet0/1
ip address 192.168.201.1 255.255.255.0
duplex auto
speed auto
media-type rj45
!
interface Serial0/2/0:23
no ip address
encapsulation hdlc
isdn switch-type primary-ni
isdn incoming-voice voice
no cdp enable
!
ip forward-protocol nd
!
ip http server
no ip http secure-server
!
ip nat inside source list 101 interface GigabitEthernet0/0 overload
ip route 0.0.0.0 0.0.0.0 99.136.103.70
ip route 10.10.10.0 255.255.255.0 192.168.201.20
ip route 10.10.61.0 255.255.255.0 192.168.201.20
ip route 135.16.206.0 255.255.255.0 192.168.201.20
ip route 135.25.29.74 255.255.255.255 192.168.201.20
ip route 172.31.150.0 255.255.255.0 192.168.201.20
ip route 192.168.100.0 255.255.255.0 192.168.201.20
ip route 192.168.200.0 255.255.255.0 192.168.201.20
ip route 192.168.201.0 255.255.255.0 GigabitEthernet0/1
ip route 192.168.202.0 255.255.255.0 192.168.201.20
!
access-list 101 permit udp host 205.158.163.138 any
access-list 101 permit udp host 207.242.225.200 any
access-list 101 deny  udp any any eq 5060
access-list 101 deny  udp any any eq tftp
access-list 101 deny  tcp any any eq www
access-list 101 deny  tcp any any eq telnet
access-list 101 deny  tcp any any eq ftp
access-list 101 permit ip any any
!
!
tftp-server flash:running-config_62609
tftp-server flash:g729br8_issue_with_sip_phone.txt
!
control-plane
!
```

```

!
voice-port 0/2/0:23
!
no ccm-manager fax protocol cisco
!
mgcp fax t38 ecm
mgcp behavior g729-variants static-pt
!
sccp local GigabitEthernet0/18
sccp ccm 192.168.201.254 identifier 1 version 7.0
sccp
!
sccp ccm group 1
associate ccm 1 priority 1
associate profile 1 register cfb0018185bb7a1
associate profile 2 register mtp0123456789ab
!
dspfarm profile 2 transcode
codec g711ulaw
codec g711alaw
codec g729ar8
codec g729abr8
codec g729r8
codec g729br8
maximum sessions 4
associate application SCCP
!
dspfarm profile 1 conference
codec g711ulaw
codec g711alaw
codec g729ar8
codec g729abr8
codec g729r8
codec g729br8
maximum sessions 6
associate application SCCP
!
dial-peer voice 1999 voip
description outgoing dial-peer to AT&T (1XXXXXXXXXXXX)9
destination-pattern 1[1-9,1-9,1-9].....
session protocol sipv2
session target ipv4:207.242.225.200
incoming called-number 1[1-9,1-9,1-9].....
voice-class codec 1
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru10
voice-class sip early-offer forced11
voice-class sip profiles 112
dtmf-relay rtp-nte13

```

⁸ These commands configure the shared DSP resources as conference bridge (CFB) device for Cisco Unified CM.

⁹ **Dial-peer to Service Provider**

¹⁰ This command allows for privacy settings to be transparently passed across between AT&T network and Cisco Unified CM. In this example the command is set at the dial-peer level, you can also set the command at a global level to effect all dial-peers without needing to set the command on each dial-peer.

¹¹ This command enables delay offer-to-early offer conversion of initial SIP INVITE message to calls matched to this dial-peer level.

¹² This command enables the SIP profile feature for calls matching this dial-peer.

¹³ This command enables DTMF digit passing using RTP NTE (RFC 2833) to calls matching this dial-peer.



```
fax-relay sg3-to-g3
fax rate 14400
fax protocol pass-through g711ulaw
!
dial-peer voice 732320 voip
description incoming dial-peer from AT&T to CPE Cisco UCM
destination-pattern 732.....
session protocol sipv2
session target ipv4:192.168.201.254
incoming called-number 732368[04][18]9[1256]
voice-class codec 1
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip profiles 1
dtmf-relay rtp-nte
no vad
!
dial-peer voice 4339 voip
shutdown
destination-pattern 7323204339
session protocol sipv2
session target ipv4:192.168.201.254
incoming called-number 7323204339
voice-class codec 1
voice-class sip dtmf-relay force rtp-nte
dtmf-relay rtp-nte digit-drop
fax protocol pass-through g711ulaw
!
dial-peer voice 14339 voip
shutdown
destination-pattern 17323204339
session protocol sipv2
session target ipv4:207.242.225.200
incoming called-number 17323204339
voice-class codec 1
voice-class sip early-offer forced
dtmf-relay rtp-nte
fax protocol pass-through g711ulaw
!
dial-peer voice 4070 voip
destination-pattern 40..
rtp payload-type nse 99
rtp payload-type nte 100
session protocol sipv2
session target ipv4:192.168.201.254
incoming called-number 40..
voice-class codec 1
dtmf-relay rtp-nte
fax-relay sg3-to-g3
fax protocol pass-through g711ulaw
!
dial-peer voice 7323690 voip
description incoming dial-peer from AT&T to CPE NT
destination-pattern 732368019[45]
session protocol sipv2
session target ipv4:172.31.150.254
incoming called-number 7323680194
voice-class codec 1
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip profiles 1
dtmf-relay rtp-nte
```



```
fax-relay sg3-to-g3
fax rate 14400
fax protocol pass-through g711ulaw
!
dial-peer voice 7323680 voip
description incoming dial-peer from AT&T to CPE Cisco UCM
destination-pattern 7323680195
session protocol sipv2
session target ipv4:172.31.150.254
incoming called-number 7323680195
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip profiles 1
dtmf-relay rtp-nte
codec g711ulaw
fax-relay sg3-to-g3
fax rate 14400
fax protocol pass-through g711ulaw
no vad
!
dial-peer voice 314 voip
description incoming dial-peer from AT&T NSN to CPE Cisco UCM
destination-pattern 314332....
session protocol sipv2
session target ipv4:192.168.201.254
incoming called-number 314332....
voice-class codec 1
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip profiles 1
dtmf-relay rtp-nte
fax-relay sg3-to-g3
fax rate 14400
fax protocol t38 version 0 ls-redundancy 0 hs-redundancy 0 fallback pass-through g711ulaw14
!
dial-peer voice 11 voip
description outgoing dial-peer to AT&T international (011XXXXXXXX)
destination-pattern 011T
session protocol sipv2
session target ipv4:207.242.225.200
incoming called-number 011T
voice-class codec 1
voice-class sip asserted-id pai
voice-class sip early-offer forced
voice-class sip profiles 1
dtmf-relay rtp-nte
fax-relay sg3-to-g3
fax rate 14400
fax protocol pass-through g711ulaw
!
dial-peer voice 19993 pots
preference 2
destination-pattern 1[1-9,1-9,1-9].....
direct-inward-dial
port 0/2/0:23
forward-digits all
!
```

¹⁴ This command enables router to up speed to t38. The command “fax protocol pass-through g711ulaw” is to pass-through codec g711.



```
dial-peer voice 19991 voip
description outgoing dial-peer to AT&T (1XXXXXXXXXX)
preference 1
shutdown
destination-pattern 1800.....
session protocol sipv2
session target ipv4:207.242.225.250
incoming called-number 1.....
voice-class codec 1
voice-class sip asserted-id pai
voice-class sip early-offer forced
voice-class sip profiles 1
dtmf-relay rtp-nte
fax-relay sg3-to-g3
fax rate 14400
fax protocol pass-through g711ulaw
!
dial-peer voice 19995 voip
description outgoing dial-peer to AT&T (fax only)
translation-profile outgoing fax-call
destination-pattern 21.....
session protocol sipv2
session target ipv4:207.242.225.200
incoming called-number 21.....
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip early-offer forced
voice-class sip profiles 100
dtmf-relay rtp-nte
codec g711ulaw
no vad
!
dial-peer voice 6 voip
description outgoing dialpeer out to AT&T (61XXXXXXXXXX) using G.711ulaw
translation-profile outgoing fax-strip6
destination-pattern 61[1-9,1-9,1-9].....
session protocol sipv2
session target ipv4:207.242.225.200
incoming called-number 1[1-9,1-9,1-9].....
voice-class sip asserted-id pai
voice-class sip privacy-policy passthru
voice-class sip early-offer forced
voice-class sip profiles 1
dtmf-relay rtp-nte
codec g711ulaw
no vad
!
!
sip-ua
no remote-party-id
retry invite 2
!
!
line con 0
password cisco
login
line aux 0
line vty 0 4
password cisco
login
line vty 5
exec-timeout 0 0
```



```
password cisco
login
!
exception data-corruption buffer truncate
scheduler allocate 20000 1000
ntp master 1
end

c3825_CUBE#
```

Cisco IOS Gateway Configuration for FAX

FAX_1760#sh ver

```
Cisco IOS Software, C1700 Software (C1700-IPVOICE-M), Version 12.3(8)T11, RELEAS
E SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2005 by Cisco Systems, Inc.
Compiled Wed 10-Aug-05 19:07 by dchih
```

ROM: System Bootstrap, Version 12.2(4r)XL, RELEASE SOFTWARE (fc1)

```
FAX_1760 uptime is 1 day, 4 hours, 52 minutes
System returned to ROM by power-on
System image file is "flash:c1700-ipvoice-mz.123-8.T11.bin"
```

```
Cisco 1760 (MPC860P) processor (revision 0x200) with 61625K/3911K bytes of memor
y:
Processor board ID FOC064905E2 (3975313921), with hardware revision BB67
MPC860P processor: part number 5, mask 2
1 FastEthernet interface
6 Voice FXS interfaces
32K bytes of NVRAM.
16384K bytes of processor board System flash (Read/Write)
```

Configuration register is 0x2102

FAX_1760#

FAX_1760#sh run

Building configuration...

```
Current configuration : 2565 bytes
!
version 12.3
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname FAX_1760
!
boot-start-marker
boot system flash:c1700-ipvoice-mz.123-8.T11.bin
boot-end-marker
!
logging buffered 1000000 debugging
enable password cisco
!
memory-size iomem 25
mmi polling-interval 60
```

```
no mmi auto-configure
no mmi pvc
mmi snmp-timeout 180
voice-card 0
!
voice-card 3
!
no aaa new-model
ip subnet-zero
ip cef
!
!
!
no ip domain lookup
ip host cm-barza 192.168.201.254
no ftp-server write-enable
!
!
!
voice service voip
sip
!
!
voice class codec 1
codec preference 2 g729r8
!
!
!
!
!
!
!
!
!
!
interface FastEthernet0/0
ip address 172.31.150.33 255.255.255.0
speed auto
!
ip default-gateway 172.31.150.1
ip classless
ip route 0.0.0.0 0.0.0.0 172.31.150.1
ip http server
!
!
!
control-plane
!
!
!
voice-port 0/0
timeouts ringing infinity
station-id number 0193
caller-id enable
!
voice-port 0/1
!
voice-port 3/0
```



```
echo-cancel coverage 32
!
voice-port 3/1
!
voice-port 3/2
!
voice-port 3/3
!
no mgcp package-capability res-package
no mgcp package-capability fxr-package
no mgcp timer receive-rtcp
!
!
!
dial-peer voice 1 pots
description fax to CISCO UCM
destination-pattern 0193
port 0/0
forward-digits 0
!
dial-peer voice 2 voip
description outgoing FAX to AT&T using G.711ulaw
destination-pattern 61.....
session protocol sipv2
session target ipv4:192.168.201.254
incoming called-number 0193
dtmf-relay rtp-nte
playout-delay nominal 80
playout-delay mode fixed
codec g711ulaw
no vad
!
dial-peer voice 3 voip
destination-pattern 81.....
rtp payload-type nte 98
voice-class codec 1
session protocol sipv2
session target ipv4:192.168.201.254
dtmf-relay rtp-nte
fax rate 14400
fax protocol t38 ls-redundancy 0 hs-redundancy 0 fallback pass-through g711ulaw
!
dial-peer voice 4 voip
description outgoing FAX to Nortel
destination-pattern 519.
session protocol sipv2
session target ipv4:192.168.201.254
incoming called-number 51..
dtmf-relay rtp-nte
codec g711ulaw
no vad
!
dial-peer voice 5 voip
destination-pattern 91.....
rtp payload-type nte 98
voice-class codec 1
session protocol sipv2
session target ipv4:192.168.201.254
incoming called-number 0193
dtmf-relay rtp-nte
fax rate 14400
```




```
fax protocol t38 ls-redundancy 0 hs-redundancy 0 fallback pass-through g711ulaw
!  
!  
line con 0  
password cisco  
login  
line aux 0  
line vty 0 4  
exec-timeout 0 0  
password cisco  
login  
transport input telnet  
line vty 5  
exec-timeout 0 0  
password cisco  
login  
!  
end  
  
FAX_1760#
```

Acronyms

| Acronym | Definition |
|----------------|---|
| Cisco UCM | Cisco Unified Communications Manager |
| 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 |
| SME | Connected Line (Number) Identification Restriction |
| CONP | Connected Name Identification Presentation |
| MGCP | Media Gateway Control Protocol |
| CUBE | Cisco Unified Border Element |



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