Cisco Unified CallManager Release 5.0-PBX Interoperability: Nortel CS1000M Release 4.0 to a Cisco 3845 Gateway Using E1-QSIG with MGCP

Revision 2, July 27, 2006

Table of Contents

Introduction

This is an application note for connectivity of Nortel CS1000M Release 4.0 PBX with Cisco Unified CallManager Release 5.0 using Cisco 3845 E1 QSIG as MGCP gateway.

The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified CallManager connected to the PBX via Cisco 3845 E1 QSIG link as MGCP gateway.

Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway and ISO QSIG switch type on the of Nortel CS1000M Release 4.0 PBX.

This Application Note uses the Cisco 3845 E1 voice gateway; however, other Cisco voice gateways are also an option to use since Cisco Unified CallManager QSIG implementation does not depend on the physical interface.

Network Topology

Figure 1.   Network Topology or Test Setup

Basic Call Setup End-to-End Configuration
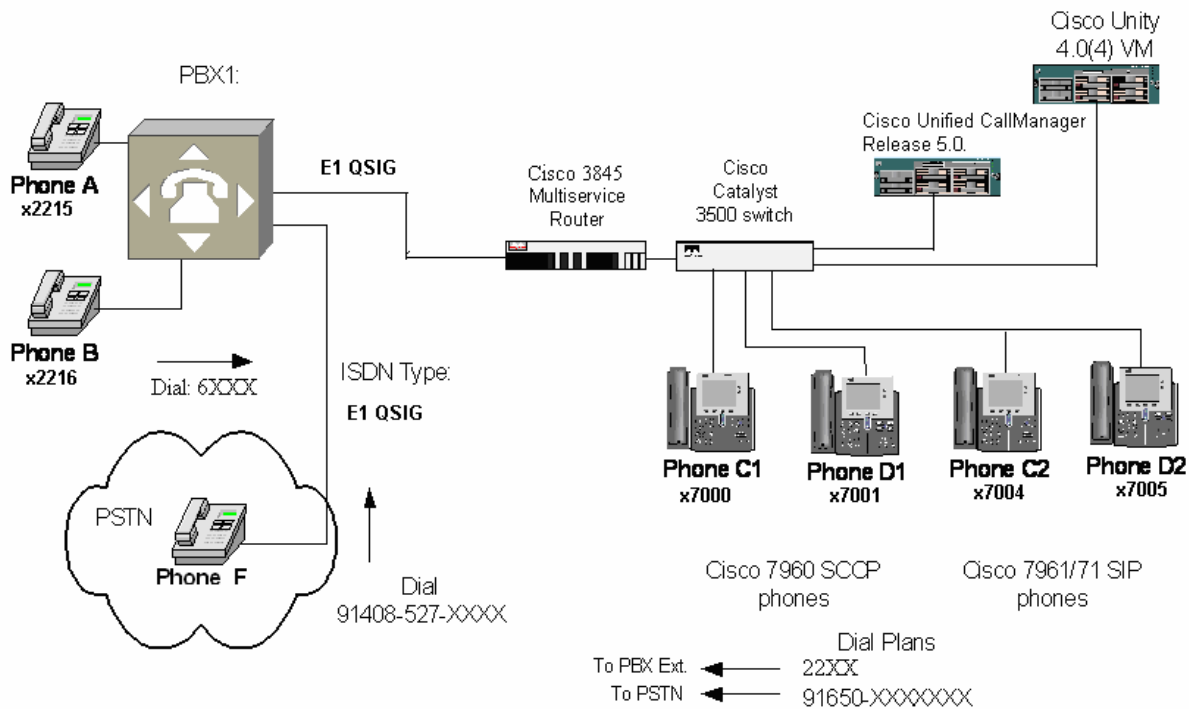
Limitations

Call Forwarding (Diversion) by Reroute

The Nortel does not initiate a Call Diversion by Reroute to deflect a call that is meant for a local station programmed to forward all calls to another station within the network. Thus, although the call was completed, no Reroute was done during the call. The Nortel, however, will respond to a Call Reroute message sent by another node and respond by initiating a new SETUP message to an alternate route.

Call Completion to Busy Subscriber

As of the publication of this Application Note, call is not completed when callback is invoked from a Nortel station calling a busy Cisco Unified CallManager 5.0 station. This is a bug which has been addressed by Cisco and integrated in Release 005.001(000.9901.002) (See DDTS CSCse27145)

Call Completion on No Reply

As of the publication of this Application Note, call is not completed when callback is invoked from a Nortel station calling a Cisco Unified CallManager station which does not reply. This is a bug which has been addressed by Cisco and integrated in Release 005.001(000.9901.002) (See DDTS CSCse27145)

Path Replacement for Call Diversion by Forward

As of the publication of this Application Note, the Nortel CS1000M PBX Release 4.0 did not initiate Path Replacement Proposal for Call Diversion by Forward to optimize the path for a call that is meant for a Cisco Unified CallManager station programmed to forward all calls to another Nortel station within the network. Thus, although the call was completed, no Path Replacement Proposal was sent by Nortel during the call. The Nortel, however, will respond to a Path Replacement Proposal message sent by another node and respond by initiating a new SETUP message to an alternate route.

As a work around, in cases where the Path Replacement is not initiated by the PBX, Reroute for Call Diversion by Forward may be used on Cisco Unified CallManager 5.0 instead of Path Replacement for Call Diversion by Forward. This will enable the optimal use of path between the originating station and terminating station by using one call leg instead of two call legs.

Note: Path Replacement for Call Diversion by Forward did work in tests using Nortel Meridian 1 PBX Release 25.15, Nortel Meridian 1 PBX Release 25.40 and Cisco Unified CallManager 5.0. A call was placed from a station on Nortel Meridian 1 PBX Release 25.15 to station on Cisco Unified CallManager which forwarded to a station on Nortel Meridian 1 P.BX Release 25.40. The Nortel Meridian 1 PBX Release 25.15 proposed Path Replacement and an optimized path was used for that call.

System Components

Hardware Requirements

Cisco Catalyst 3500

Cisco 3845 router with VWIC-2MFT-E1 on NM-HD-VE and VWIC-2MFT-E1-DI on NM-HDV

Cisco Unified CallManager Server

Nortel CS1000M PBX

Software Requirements

PBX Release 4.0

Cisco Unified CallManager 5.0

Features

Features Supported

CLIP-Calling Line (Number) Identification Presentation

CLIR-Calling Line (Number) Identification Restriction

CNIP-Calling Name Identification Presentation

CNIR-Calling Name Identification Restriction

COLP-Connected Line (Number) Identification Presentation

COLR- Connected Line (Number) Identification Restriction

CONP-Connected Name Identification Presentation

CONR- Connected Name Identification Restriction

Sending Alerting Name

CT-Call Transfer (by join)

CFU-Call Forwarding Unconditional (by join)

CFB-Call Forwarding Busy (by join)

CFNR-Call Forwarding No Reply (by join)

CFU-Call Forwarding Unconditional (by Reroute) – see Limitations Section

CFB-Call Forwarding Busy (by Reroute) – see Limitations Section

CFNR-Call Forwarding No Reply (by Reroute) – see Limitations Section

CCBS-Call Completion to Busy Subscriber – see Limitations Section

CCNR-Call Completion No Reply – see Limitations Section

ANF-PR-Additional Network Feature Path Replacement (for Call Transfer by join)

ANF-PR-Additional Network Feature Path Replacement (for Call Diversion by forward switching) – see Limitations Section

ANF-PR-Additional Network Feature Path Replacement (for Trombone connection)

MWI- Message Waiting Indication (lamp ON, lamp OFF)

Configuration

Configuration Sequence and Tasks

Configuring the Nortel Meridian 1 Option 11C PBX

Configure in the following sequence:

1. Configure common equipment

2. Configure the D-Channel

3. Configure the Route Data Block.

4. Configure the Trunk Data Block

5. Configure the Coordinated Dialing Plan

6. Configure the Digital Station Phone

Configuration Menus and Commands

Nortel Configuration

****
Common Equipment Configuration
****
CEQU

  MPED 8D

  SUPL 000 004 008 012

      016 032 036 040

      044 048 064 068

      072 V096 V100

  TDS   000

  CONF 029 030 031 062

      094 095

  DLOP NUM DCH FRM TMDI LCMT YALM T1TE TRSH

  PRI 05 24 ESF NO   B8S FDL -   00

    06 23 ESF NO   B8S FDL -   00

    07 23 ESF NO   B8S FDL -   00

    36 24 ESF YES B8S FDL 0   00

  PRI2 04 11

  DTI2 02 12 13 21   Slot 2 to PSTN

  MISP

****
D-Channel Configuration
****
REQ prt
TYPE adan dch 4

ADAN   DCH 4
 CTYP MSDL
 CARD 04
 PORT 1
 DES E1_QSIG_Net
 USR PRI
 DCHL 4
 OTBF 32
 PARM RS422 DTE
 DRAT 64KC
 CLOK EXT
 IFC ISGF
  PINX_CUST 0
  ISDN_MCNT 300
 CLID OPT0

```
CO_TYPE  STD
SIDE NET
CNEG 1
RLS  ID  **
QCHID YES
RCAP COLP NDI CCBI CCNI PRI DV3I CTI  QMWI
PR_TRIGS DIV 2 3
        CNG 2 3
        CTR2 2 3
PR_RTN NO
MBGA NO
OVLR YES
DIDD 0
OVLS YES
OVLT 0
T310 120
T200 3
T203 10
N200 3
N201 260
 K   7


**************************
```
Trunk Data Block Configuration
```
**************************
REQ: prt
TYPE: tnb
TN   4 1
DATE
PAGE
DES

DES  E1-QSIG
TN   004 01
TYPE TIE
CDEN SD
CUST 0
TRK  PRI2
PDCA 1
PCML A
NCOS 0
RTMB 104 1
B-CHANNEL SIGNALING
TGAR 0
AST  NO
IAPG 0
CLS  UNR DTN WTA LPR APN THFD
    P10 VNL
TKID
AACR NO
DATE 30 JUN 2006
```

****

Route Data Block Configuration

****

REQ PRT
TYPE: rdb
CUST 0
ROUT 104

TYPE RDB
CUST 00
DMOD
ROUT 104
DES TO_CS101
TKTP TIE
NPID_TBL_NUM 0
ESN NO
CNVT NO
SAT NO
RCLS EXT
VTRK NO
NODE
DTRK YES
BRIP NO
DGTP PRI2
ISDN YES
    MODE PRA
    IFC ISGF
    SBN NO
    PNI 00001
    NCNA NO
    NCRD NO
    CTYP UKWN
    INAC NO
    ISAR NO
    CPFXS YES
    DAPC NO
    INTC NO
DSEL VOD
PTYP DTT
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 204
TCPP NO
TARG 01
CLEN 1
BILN NO
OABS
INST
ANTK
SIGO STD
ICIS YES
TIMR ICF 512
    OGF 512

```
     EOD  13952
     NRD  10112
     DDL  70
     ODT  4096
     RGV  640
     GRD  896
     SFB  3
     NBS  2048
     NBL  4096

     IENB  5
     TFD  0
     VSS  0


PAGE 002

     VGD  6
DRNG NO
CDR  NO
VRAT NO
MUS  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
PLEV 2
ALRM NO
ART  0
SGRP 0
AACR NO


REQ: prt
TYPE: rdb
CUST 0
ROUT 102

TYPE RDB
CUST 00
DMOD
ROUT 102
DES
TKTP TIE
NPID_TBL_NUM  0
ESN  NO
CNVT NO
SAT  NO
RCLS EXT
```

VTRK NO
NODE
DTRK YES
DGTP DTI2
ISDN NO
DSEL VCE
PTYP DTT
AUTO NO
DNIS NO
ICOG IAO
SRCH RRB
TRMB YES
STEP
ACOD 502
TARG 01
CLEN 1
BILN NO
OABS
INST
ANTK
SIGO STD
STYP SDAT
TIMR ICF 512
     OGF 512
     EOD 13952
     DSI 34944
     NRD 10112
     DDL 70
     ODT 4096
     RGV 640
     GRD 896
     SFB 3

     IENB 5
     TFD 0
     VSS 0
     VGD 6
SST 5 0
NEDC ETH
FEDC ETH
CPDC NO
DLTN NO
HOLD 02 02 40
SEIZ 02 02
SVFL 02 02
DRNG NO
CDR NO
VRAT NO
MUS NO
MANO NO
EQAR NO
FRL 0 0

PAGE 002

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
OPDL 0
SGRP 0
AACR NO

****

Digital Phone Station Configuration

****
REQ: prt
TYPE: 2616
TN   001 0 0 0
DATE
PAGE
DES

DES CS101A
TN   001 0 00 00
TYPE 2616
CDEN 8D
CUST 0
AOM 0
FDN 2214
TGAR 1
LDN NO
NCOS 0
SGRP 0
RNPG 0
SCI 0
SSU
XLST
CLS CTD FBA WTA LPR MTD FNA HTA ADD HFD
     MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
     POD DSX VMD CMSD SLKD CCSD SWD LND CNDA
     CFTA SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD
     ICDD CDMD LLCN MCTD CLBD AUTU
     GPUD DPUD DNDA CFXA ARHD CLTD ASCD
     CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD AHD
     DDGA NAMA
     DRDD EXR0
     USRD ULAD RTDD RBDD RBHD PGND OCBD FLXD FTTC DNDY DNO3 MCBN CDMR
CPND_LANG ENG
RCO 0
EFD 2214
HUNT 2214
EHT 2214

```
LHK  0
PLEV 02
CSDN
AST
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0
DNDR 0
KEY  00 SCR 2213 0    MARP
     CPND
       NAME ZEUS13
       XPLN 9
       DISPLAY_FMT FIRST,LAST
   01
   02
   03 CFW 4  2217
   04 AO6
   05 TRN
   06
   07
   08
   09
   10
   11
   12
   13 MIK
   14 MCK
   15 TRN
DATE  6 JUN 2006


********************************************************************
```

Coordinated Dialing Plan (CDP) configuration

```
********************************************************************
MEM AVAIL: (U/P): 2817123    USED U P: 208645 70807    TOT: 3096575
DISK RECS AVAIL: 1152
REQ  prt
CUST 0
FEAT cdp
TYPE dsc
DSC  400
DSC  40
FLEN 0
DSP  LSC
RLI  6
NPA
NXX
```

Cisco Unified CallManager Configuration

CCM Gateway Configuration 1

CCM Gateway Configuration 2

CCM Gateway Configuration 3

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Gateway Details
Product   Cisco 3845
Gateway   3845_West
Protocol   MGCP
Domain Name * | 3845_West |
Description | 3845_West |
Cisco Unified CallManager Group * | Default ▼ |

Configured Slots, VICs and Endpoints
Module in Slot 0 | < None >   ▼ |
Module in Slot 1 | NM-HD-2VE   ▼ |
      Subunit 0 | < None >   ▼ |
      Subunit 1 | VWIC-2MFT-E1   ▼ | 1/1/ 0 E1PRI   1/1/ 1
Module in Slot 2 | NM-HDV   ▼ |
      Subunit 0 | VWIC-2MFT-E1   ▼ | 2/0/ 0 E1PRI   2/0/ 1
Module in Slot 3 | < None >   ▼ |
Module in Slot 4 | < None >   ▼ |

Product Specific Configuration
Global ISDN Switch Type | 4ESS   ▼ |
Switchback Timing * | Graceful   ▼ |
Switchback uptime-delay (min) | 10 |
Switchback schedule (hh:mm) | 12:00 |
Type Of DTMF Relay * | Current GW Config   ▼ |

| Save | Delete | Reset | Add New |

ⓘ *- indicates required item.

Done   🔒 Local intranet

Start | Router - Hy... | E1QSIGCCM... | Gateway C... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ...   9:45 AM

CCM Gateway Configuration 4

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation Cisco Unified CallManager Adminis

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Gateway Configuration   Related Links: Back to MGCP Configu

Status
ⓘ Status: Ready

Device Information

Product	Cisco MGCP E1 Port
Gateway	3845_West
Device Protocol	Digital Access PRI
Registration	Unregistered
IP Address	172.20.33.120
End-Point Name *	S1/SU1/DS1-0@3845_West
Description	S1/SU1/DS1-0@3845_West

Device Pool*   Default

Call Classification*   Use System Default

NetworkLocale   < None >

Media Resource Group List < None >

Location*   Hub_None

AAR Group   < None >

Load Information

☐ Transmit UTF-8 for Calling Party Name
☐ V150 (subset)

Multilevel Precedence and Preemption (MLPP) Information
MLPP Domain   < None >

MLPP Indication   Not available on this device
MLPP Preemption Not available on this device

Done   🔒 🖳 Local intranet

Start | 🗐 🔘 🖳 🖳 | 🌐Router - Hy... | 🗎E1QSIGCCM... | 🌐Gateway C... | 🗀C:\Documen... | 🌐Avaya Site ... | 🌐Clarinet - M... | 🗎Document1 ... | 🔊🗐 V² Ⓤ   9:45 AM

CCM Gateway Configuration 5

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation Cisco Unified CallManager Administ

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Gateway Configuration   Related Links: Back to MGCP Configu

Status
ⓘ Status: Ready

Device Information
Product   Cisco MGCP E1 Port
Gateway   3845_West
Device Protocol   Digital Access PRI
Registration   Registered with Cisco Unified CallManager CM-SATURN
IP Address   172.20.33.120
End-Point Name *   S2/SU0/DS1-0@3845_West
Description   [S2/SU0/DS1-0@3845_West]

Device Pool*   [Default ▾]

Call Classification* [Use System Default ▾]

NetworkLocale   [< None > ▾]

Media Resource Group List [< None > ▾]

Location*   [Hub_None ▾]

AAR Group   [< None > ▾]

Load Information   [ ]

☐ Transmit UTF-8 for Calling Party Name
☐ V150 (subset)

Multilevel Precedence and Preemption (MLPP) Information
MLPP Domain   [< None > ▾]

MLPP Indication   Not available on this device
MLPP Preemption Not available on this device

Done   🔒 Local intranet

Start | 🗐 🕐 🖥 🖳 | Router - Hy... | Gateway C... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ... | 9:49 AM

CCM Gateway Configuration 6

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Multilevel Precedence and Preemption (MLPP) Information
MLPP Domain   < None >
MLPP Indication   Not available on this device
MLPP Preemption Not available on this device

Interface Information
PRI Protocol Type*   PRI ISO QSIG E1
Protocol Side*   Network
Channel Selection Order*   Top Down
Channel IE Type*   Timeslot Number
PCM Type*   A-law
Delay for first restart (1/8 sec ticks)*   32
Delay between restarts (1/8 sec ticks)*   4

☑ Inhibit restarts at PRI initialization
☐ Enable status poll
☐ Unattended Port

Call Routing Information - Inbound Calls
Significant Digits*   All
Calling Search Space   < None >
AAR Calling Search Space   < None >
Prefix DN

Call Routing Information - Outbound Calls
Calling Party Presentation*   Default
Calling Party Selection*   Originator
Called party IE number type unknown*   Cisco CallManager
Calling party IE number type unknown* Cisco CallManager
Called Numbering Plan*   Cisco CallManager
Calling Numbering Plan*   Cisco CallManager

Done   Local intranet

Start   Router - Hy...   Gateway C...   C:\Documen...   Avaya Site ...   Clarinet - M...   Document1 ...   9:49 AM

CCM Gateway Configuration 7

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Calling party IE number type unknown* `Cisco CallManager`

Called Numbering Plan* `Cisco CallManager`

Calling Numbering Plan* `Cisco CallManager`

Number of digits to strip* `0`

Caller ID DN

SMDI Base Port* `0`

PRI Protocol Type Specific Information

☐ Display IE Delivery

☐ Redirecting Number IE Delivery - Outbound

☐ Redirecting Number IE Delivery - Inbound

☐ Send Extra Leading Character in Display IE***

☐ Setup non-ISDN Progress Indicator IE Enable****

☐ MCDN Channel Number Extension Bit Set to Zero**

☐ Send Calling Name In Facility IE

☐ Interface Identifier Present**

Interface Identifier Value** `0`

Connected Line ID Presentation (QSIG Inbound Call)* `Default`

UUIE Configuration

☐ Passing Precedence Level Through UUIE

Security Access Level* `2`

Product Specific Configuration

❓

Line Coding * `HDB3`

Framing * `CRC4`

Clock * `External`

Input Gain (-6..14 db) * `0`

Output Attenuation (-6..14 db) * `0`

Done   Local intranet

Start | Router - Hy... | Gateway C... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ...   9:49 AM

CCM Gateway Configuration 8

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

☐ Setup non-ISDN Progress Indicator IE Enable****
☐ MCDN Channel Number Extension Bit Set to Zero**
☐ Send Calling Name In Facility IE
☐ Interface Identifier Present**
Interface Identifier Value**   [0]
Connected Line ID Presentation (QSIG Inbound Call)* [Default ▼]

UUIE Configuration
☐ Passing Precedence Level Through UUIE
Security Access Level* [2]

Product Specific Configuration
                                                          ❓

Line Coding *   [HDB3 ▼]
Framing *   [CRC4 ▼]
Clock *   [External ▼]
Input Gain (-6..14 db) *   [0]
Output Attenuation (-6..14 db) * [0]
Echo Cancellation Enable *   [Enable ▼]
Echo Cancellation Coverage (ms) * [8 ▼]

[Save] [Delete] [Reset]

ⓘ *- indicates required item.

ⓘ **- applies to DMS-100 protocol only.

ⓘ ***- applies to DMS-100 protocol and DMS-250 protocol only.

ⓘ ****- may be required to force ringback from some PBXs.

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

Done   🔒 Local intranet

Start | Router - Hy... | Gateway C... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ...   9:49 AM

CCM Gateway Configuration 9

CCM Gateway Configuration 10

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Multilevel Precedence and Preemption (MLPP) Information
MLPP Domain   < None >
MLPP Indication   Not available on this device
MLPP Preemption Not available on this device

Interface Information
PRI Protocol Type*   PRI ISO QSIG E1
Protocol Side*   Network
Channel Selection Order*   Top Down
Channel IE Type*   Timeslot Number
PCM Type*   A-law
Delay for first restart (1/8 sec ticks)*   32
Delay between restarts (1/8 sec ticks)*   4

☑ Inhibit restarts at PRI initialization
☐ Enable status poll
☐ Unattended Port

Call Routing Information - Inbound Calls
Significant Digits*   All
Calling Search Space   < None >
AAR Calling Search Space   < None >
Prefix DN

Call Routing Information - Outbound Calls
Calling Party Presentation*   Default
Calling Party Selection*   Originator
Called party IE number type unknown* Cisco CallManager
Calling party IE number type unknown* Cisco CallManager
Called Numbering Plan*   Cisco CallManager
Calling Numbering Plan*   Cisco CallManager

Done   Local intranet

Start   Router - Hy...   Gateway C...   C:\Documen...   Avaya Site ...   Clarinet - M...   Document1 ...   9:59 AM

CCM Gateway Configuration 11

Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Calling party IE number type unknown*	Cisco CallManager
Called Numbering Plan*	Cisco CallManager
Calling Numbering Plan*	Cisco CallManager
Number of digits to strip*	0
Caller ID DN	
SMDI Base Port*	0

PRI Protocol Type Specific Information

☐ Display IE Delivery
☐ Redirecting Number IE Delivery - Outbound
☐ Redirecting Number IE Delivery - Inbound
☐ Send Extra Leading Character in Display IE***
☐ Setup non-ISDN Progress Indicator IE Enable****
☐ MCDN Channel Number Extension Bit Set to Zero**
☐ Send Calling Name In Facility IE
☐ Interface Identifier Present**

Interface Identifier Value**	0
Connected Line ID Presentation (QSIG Inbound Call)*	Default

UUIE Configuration

☐ Passing Precedence Level Through UUIE

Security Access Level*	2

Product Specific Configuration

❓

Line Coding *	HDB3
Framing *	CRC4
Clock *	External
Input Gain (-6..14 db) *	0
Output Attenuation (-6..14 db) *	0

Done | Local intranet

Start | Router - Hy... | Gateway C... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ... | 9:59 AM

CCM Gateway Configuration 12

Gateway Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

☐ Setup non-ISDN Progress Indicator IE Enable****

☐ MCDN Channel Number Extension Bit Set to Zero**

☐ Send Calling Name In Facility IE

☐ Interface Identifier Present**

Interface Identifier Value**   [0]

Connected Line ID Presentation (QSIG Inbound Call)* [Default ▼]

UUIE Configuration

☐ Passing Precedence Level Through UUIE

Security Access Level* [2]

Product Specific Configuration

                                         ❓

Line Coding *   [HDB3 ▼]

Framing *   [CRC4 ▼]

Clock *   [External ▼]

Input Gain (-6..14 db) *   [0]

Output Attenuation (-6..14 db) * [0]

Echo Cancellation Enable *   [Enable ▼]

Echo Cancellation Coverage (ms) * [8 ▼]

[Save] [Delete] [Reset]

ⓘ *- indicates required item.

ⓘ **- applies to DMS-100 protocol only.

ⓘ ***- applies to DMS-100 protocol and DMS-250 protocol only.

ⓘ ****- may be required to force ringback from some PBXs.

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

Done   🔒 Local intranet

Start | Router - Hy... | Gateway C... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ...   9:59 AM

Phone Configuration 1

Find and List Phones - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation | Cisco Unified CallManager Admini

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Find and List Phones   Related Links: | CAPF Report i

Status
ⓘ 4 records found

Search Options
Find Phone where | Device Name ▼ | | begins with ▼ | | [Find] ☐ Search Within Results

Select item or enter search text ▼

(device.name begins with any)

Search Results

		Device Name(Line)	Description	Device Pool	Device Protocol	Status	IP Address	Copy	Copy
☐	☎ 7960	SEP00124362145B	Auto 7001	Default	SCCP	Registered with CM-SATURN	172.20.235.101	▣	▦
☐	☎ 7960	SEP00124362B4C5	Auto 7000	Default	SCCP	Registered with CM-SATURN	172.20.235.100	▣	▦
☐	☎ 7961	SEP00170EEE3279	Auto 7004	Default	SIP	Registered with CM-SATURN	172.20.235.102	▣	▦
☐	☎ 7961	SEP00170EEE32B4	Auto 7005	Default	SIP	Registered with CM-SATURN	172.20.235.103	▣	▦

[Add New] [Select All] [Clear All]   [Delete Selected]   [Reset Selected]   Rows per Page 50 ▼

Done   🔒 Local intranet

Start | Router - Hy... | Find and Li... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ...   9:50 AM

Phone Configuration 2 (SCCP Phone)

Phone Configuration 3 (SCCP Phone)

Phone Configuration 4 (SCCP Phone)

Phone Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Module 2   < None >
Module 2 Load Name [   ]

External Data Locations Information (Leave blank to use default)
Information   [   ]
Directory   [   ]
Messages   [   ]
Services   [   ]
Authentication Server[   ]
Proxy Server   [   ]
Idle   [   ]
Idle Timer (seconds) [   ]

Extension Information
☐   Enable Extension Mobility
Log Out Profile [-- Not Selected --   ▼]
Login in User ID < None >
Log in Time   < None >
Log out Time   < None >

Certification Authority Proxy Function (CAPF) Information
Certificate Operation*   [No Pending Operation   ▼]
Authentication String   [   ]
[Generate String]
Operation Completes By   [2006] : [6] : [22] : [12] (YYYY:MM:DD:HH)
Certificate Operation Status: None

MLPP Information
MLPP Domain   [< None >   ▼]
MLPP Indication*   [Default   ▼]
MLPP Preemption*   [Default   ▼]

Done   Local intranet

Start | Router - Hy... | Phone Con... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ...   9:50 AM

Phone Configuration 5 (SCCP Phone)

Phone Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Generate String

Operation Completes By   2006 : 6 : 22 : 12   (YYYY:MM:DD:HH)

Certificate Operation Status: None

MLPP Information

MLPP Domain   < None >

MLPP Indication*   Default

MLPP Preemption*   Default

Secure Shell Information

Secure Shell User

Secure Shell Password

Product Specific Configuration Layout

☐ Disable Speakerphone

☐ Disable Speakerphone and Headset

PC Port *   Enabled

Settings Access*   Enabled

Gratuitous ARP*   Enabled

PC Voice VLAN Access*   Enabled

Video Capabilities*   Disabled

Auto Line Select*   Disabled

Web Access*   Enabled

Save   Delete   Copy   Reset   Add New

ⓘ *- indicates required item.

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

Done   🔒 Local intranet

Start   Router - Hy...   Phone Con...   C:\Documen...   Avaya Site ...   Clarinet - M...   Document1 ...   9:50 AM

Phone Configuration 6 (SIP Phone)

Phone Configuration 7 (SIP Phone)

Phone Configuration 8 (SIP Phone)

Phone Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

External Data Locations Information (Leave blank to use default)

Information

Directory

Messages

Services

Authentication Server

Proxy Server

Idle

Idle Timer (seconds)

Extension Information

☐　　　Enable Extension Mobility

Log Out Profile |-- Not Selected -- ▼|

Login in User ID < None >
Log in Time   < None >
Log out Time   < None >

Certification Authority Proxy Function (CAPF) Information

Certificate Operation* |No Pending Operation ▼|

Authentication String

[Generate String]

Operation Completes By |2006| : |6| : |22| : |12| (YYYY:MM:DD:HH)

Certificate Operation Status: None

MLPP Information

MLPP Domain |< None > ▼|

Secure Shell Information

Secure Shell User

Secure Shell Password

Local intranet

Start │ 🖼 🕐 🖳 🖥 │ 🌐 Router - Hy... │ 🌐 Phone Con... │ 🗁 C:\Documen... │ Avaya Site ... │ Clarinet - M... │ 🗐 Document1 ... │ 9:57 AM

Phone Configuration 9 (SIP Phone)

Phone Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Operation Completes By   2006 : 6   : 22   : 12   (YYYY:MM:DD:HH)

Certificate Operation Status: None

MLPP Information

MLPP Domain   < None >

Secure Shell Information

Secure Shell User

Secure Shell Password

Product Specific Configuration Layout

☐ Disable Speakerphone

☐ Disable Speakerphone and Headset

PC Port *   Enabled

Settings Access *   Enabled

Gratuitous ARP *   Enabled

PC Voice VLAN Access *   Enabled

Video Capabilities *   Disabled

Auto Line Select *   Disabled

Web Access *   Enabled

Span to PC Port *   Disabled

Logging Display *   PC Controlled

Load Server

Save   Delete   Copy   Reset   Add New

ⓘ *- indicates required item.

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

Local intranet

Start | Router - Hy... | Phone Con... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document1 ...   9:58 AM

Directory Number Configuration 1 (SCCP Phone)

Directory Number Configuration 2 (SCCP Phone)

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Directory Number Settings

Voice Mail Profile	`< None >` ▼ (Choose <None> to use system default)
Calling Search Space	`< None >` ▼
Presence Group*	`Standard Presence group` ▼
AAR Group	`< None >` ▼
User Hold Audio Source	`< None >` ▼
Network Hold Audio Source	`< None >` ▼
Auto Answer*	`Auto Answer Off` ▼

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	☐ or		`< None >` ▼
Secondary Calling Search Space for Forward All			`< None >` ▼ **Find**
Forward Busy Internal	☐ or		`< None >` ▼
Forward Busy External	☐ or		`< None >` ▼
Forward No Answer Internal	☐ or		`< None >` ▼
Forward No Answer External	☐ or		`< None >` ▼
Forward No Coverage Internal	☐ or		`< None >` ▼
Forward No Coverage External	☐ or		`< None >` ▼
Forward on CTI Failure	☐ or		`< None >` ▼
No Answer Ring Duration (seconds)			
Call Pickup Group	`< None >` ▼		

MLPP Alternate Party Settings

Target (Destination)	
MLPP Calling Search Space	`< None >` ▼
MLPP No Answer Ring Duration (seconds)	

Done   🔒 Local intranet

Start   Router - Hy...   Directory ...   C:\Documen...   Avaya Site ...   Clarinet - M...   NortelE1QSI...   10:02 AM

Directory Number Configuration 3 (SCCP Phone)

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

MLPP Alternate Party Settings
Target (Destination)

MLPP Calling Search Space   < None >

MLPP No Answer Ring Duration (seconds)

Line 1 on Device SEP00124362B4C5
Display (Internal Caller ID)   SAT-0   Display text for a line appearance is intended for displaying text such as a name inst
                                               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)   SAT-0

Line Text Label

ASCII Line Text Label

External Phone Number Mask

Message Waiting Lamp Policy*   Use System Policy

Ring Setting (Phone Idle)*   Ring

Ring Setting (Phone Active)   Use System Default   Applies to this line when any line on the phone has a call in progress.

Multiple Call/Call Waiting Settings on Device SEP00124362B4C5
Note:The range to select the Max Number of calls is: 1-200
Maximum Number of Calls*   4

Busy Trigger*   3   (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP00124362B4C5
☑ Caller Name

☑ Caller Number

☑ Redirected Number

☑ Dialed Number

Save   Delete   Copy   Reset   Add New

Done   Local intranet

Start   Router - Hy...   Directory ...   C:\Documen...   Avaya Site ...   Clarinet - M...   NortelE1QSI...   10:02 AM

Directory Number Configuration 4 (SIP Phone)

Directory Number Configuration 5 (SIP Phone)

Directory Number Configuration 6 (SIP Phone)

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

MLPP Alternate Party Settings

Target (Destination)

MLPP Calling Search Space   < None >

MLPP No Answer Ring Duration (seconds)

Line 1 on Device SEP00170EEE3279

Display (Internal Caller ID)   SAT-4   Display text for a line appearance is intended for displaying text such as a name inst
                                                                        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)   SAT-4

Line Text Label   SAT-4

ASCII Line Text Label   SAT-4

External Phone Number Mask

Message Waiting Lamp Policy*   Use System Policy

Ring Setting (Phone Idle)*   Ring

Ring Setting (Phone Active)   Use System Default   Applies to this line when any line on the phone has a call in progress.

Multiple Call/Call Waiting Settings on Device SEP00170EEE3279

Note:The range to select the Max Number of calls is: 1-200

Maximum Number of Calls*   4

Busy Trigger*   1   (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP00170EEE3279

☑ Caller Name

☑ Caller Number

☑ Redirected Number

☑ Dialed Number

Save   Delete   Copy   Reset   Add New

Done   Local intranet

Start | Router - Hy... | Directory ... | C:\Documen... | Avaya Site ... | Clarinet - M... | NortelE1QSI... | 10:09 AM

Route Pattern Configuration 1

Find and List Route Patterns - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation | Cisco Unified CallManager Adminis

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Find and List Route Patterns

─Status─
ⓘ 7 records found

─Search Options─
Find Route Patterns where | Pattern ▾ | | begins with ▾ | | | **Find** | ☐ Search Within Results
(numplan.dnorpattern begins with any)

─Search Results─

	Pattern	Description	Partition	Route Filter	Associated Device
☐	22XX				S1/SU1/DS1-0@3845_West
☐	2444				
☐	25XX				S1/SU1/DS1-0@3845_West
☐	52XX				S2/SU0/DS1-0@3845_West
☐	5444				
☐	8.2				S1/SU1/DS1-0@3845_West
☐	91650XXXXXXX				S1/SU1/DS1-0@3845_West

| Add New | Select All | Clear All | Delete Selected | Rows per Page | 50 ▾ |

Done   🔒 Local intranet

Start | | 🅜 💿 🖳 🖥 | | Router - Hy... | Find and Li... | C:\Documen... | Avaya Site ... | Clarinet - M... | NortelE1QSI... | 10:13 AM

Route Pattern Configuration 2 (ENBLOC Mode)

Route Pattern Configuration 3 (ENBLOC Mode)

Route Pattern Configuration 4 (ENBLOC Mode)

Route Pattern Configuration 5 (ENBLOC Mode)

Route Pattern Configuration 6 (OVERLAP Mode)

Route Pattern Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation   Cisco Unified CallManager Administ

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions

Logged in as: CCM

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

Route Pattern Configuration

Related Links: Back To Fin

Status
(i) Status: Ready

Pattern Definition

Route Pattern*	5.2
Route Partition	< None >
Description	
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence*	Default
Gateway/Route List *	S1/SU1/DS1-0@3845_West (Edit) Find
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

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Done   🔒 Local intranet

Start   Router - Hy...   Route Patt...   C:\Documen...   Avaya Site ...   Clarinet - M...   NortelE1QSI...   10:35 AM

Route Pattern Configuration 7 (OVERLAP Mode)

Connected Name and Number Restriction 1

Translation Pattern for Incoming Calls

Translation Pattern Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation Cisco Unified CallManager Adminis

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Translation Pattern Configuration   Related Links: Back To Fin

Status
ⓘ Status: Ready

Pattern Definition
Translation Pattern   709X
Partition   < None >
Description
Numbering Plan   < None >
Route Filter   < None >
MLPP Precedence*   Default
Calling Search Space   < None >
Route Option   ⦿ Route this pattern
                           ○ Block this pattern No Error
☑ Provide Outside Dial Tone ☑ Urgent Priority

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

Connected Party Transformations

Done   🔒 Local intranet

Start │ 🗀 🕐 🖳 🖥 │ Router - Hy... │ Translatio... │ C:\Documen... │ Avaya Site ... │ Clarinet - M... │ NortelE1QSI... │ ◁ 🔊 VC 🔵   10:37 AM

Connected Name and Number Restriction 2

Translation Pattern for Incoming Calls

Calling Name and Number Restriction 1

Route Pattern Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation | Cisco Unified CallManager Admini

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Route Pattern Configuration   Related Links: Back To Fin

Status
ⓘ Status: Ready

Pattern Definition

Route Pattern*	22XX
Route Partition	< None >
Description	
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence*	Default
Gateway/Route List *	S1/SU1/DS1-0@3845_West (Edit) Find
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

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask
Calling Party Transform Mask | |
Prefix Digits (Outgoing Calls) | |

Done   Local intranet

Start | Router - Hy... | Route Patt... | C:\Documen... | Avaya Site ... | Clarinet - M... | NortelE1QSI... | Document3 ... | 10:40 AM

Calling Name and Number Restriction 2

Route Pattern Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

☐ Allow Device Override ☐ Provide Outside Dial Tone ☐ Allow Overlap Sending ☐ Urgent Priority
☐ Require Forced Authorization Code
Authorization Level* [0]
☐ 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* [Restricted ▼]
Calling Name Presentation* [Restricted ▼]

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) [   ]

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.

Done   🔒 Local intranet

Start | Router - Hy... | Route Patt... | C:\Documen... | Avaya Site ... | Clarinet - M... | NortelE1QSI... | Document3 ... | 10:40 AM

Call Forward on Busy and No Reply 1

Call Forward on Busy and No Reply 2

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Directory Number Settings

Voice Mail Profile	< None > ▼	(Choose <None> to use system default)
Calling Search Space	< None > ▼	
Presence Group*	Standard Presence group ▼	
AAR Group	< None > ▼	
User Hold Audio Source	< None > ▼	
Network Hold Audio Source	< None > ▼	
Auto Answer*	Auto Answer Off ▼	

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space	
Forward All	☐ or		< None > ▼	
Secondary Calling Search Space for Forward All			< None > ▼	Find
Forward Busy Internal	☐ or	2216	< None > ▼	
Forward Busy External	☐ or	2216	< None > ▼	
Forward No Answer Internal	☐ or	2216	< None > ▼	
Forward No Answer External	☐ or	2216	< None > ▼	
Forward No Coverage Internal	☐ or		< None > ▼	
Forward No Coverage External	☐ or		< None > ▼	
Forward on CTI Failure	☐ or		< None > ▼	
No Answer Ring Duration (seconds)				
Call Pickup Group	< None > ▼			

MLPP Alternate Party Settings

Target (Destination)	
MLPP Calling Search Space	< None > ▼
MLPP No Answer Ring Duration (seconds)	

Done | Local intranet

Start | Router - Hy... | Directory ... | C:\Documen... | Avaya Site ... | Clarinet - M... | NortelE1QSI... | Document4 ... | 10:43 AM

Call Forward on Busy and No Reply 3

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

─ MLPP Alternate Party Settings ─
Target (Destination)

MLPP Calling Search Space   < None >

MLPP No Answer Ring Duration (seconds)

─ Line 1 on Device SEP00124362B4C5 ─
Display (Internal Caller ID)   SAT-0   Display text for a line appearance is intended for displaying text such as a name inst
                                                 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) SAT-0
Line Text Label

ASCII Line Text Label

External Phone Number Mask

Message Waiting Lamp Policy*   Use System Policy

Ring Setting (Phone Idle)*   Ring

Ring Setting (Phone Active)   Use System Default   Applies to this line when any line on the phone has a call in progress.

─ Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 ─
Note:The range to select the Max Number of calls is: 1-200
Maximum Number of Calls*   4

Busy Trigger*   3   (Less than or equal to Max. Calls)

─ Forwarded Call Information Display on Device SEP00124362B4C5 ─
☑ Caller Name
☑ Caller Number
☑ Redirected Number
☑ Dialed Number

─ Save │ Delete │ Copy │ Reset │ Add New ─

Done   Local intranet

Start │ Router - Hy... │ Directory ... │ C:\Documen... │ Avaya Site ... │ Clarinet - M... │ NortelE1QSI... │ Document4 ...   10:43 AM

Service Parameters Configuration 1

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation | Cisco Unified CallManager Adminis

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions

Logged in as: CCM

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

Service Parameter Configuration

Related Links: | Parameters for All S

Status
ⓘ Status: Ready

Select Server and Service

Server * | CM-SATURN (Active) |

Service * | Cisco CallManager (Active) |

All parameters apply only to the current server except parameters that are in the Clusterwide group(s).

Cisco CallManager (Active) Parameters on server CM-SATURN (Active)

Parameter Name	Parameter Value	Suggested Value
CCM Call Throttling		
Code Yellow Entry Latency *	20	20
Code Yellow Exit Latency Calculation *	40	40
Code Yellow Duration *	99999	99999
Max Events Allowed *	2000	2000
System Throttle Sample Size *	10	10
System		
CDR Enabled Flag *	False	False
CDR Log Calls with Zero Duration Flag *	False	False
Digit Analysis Complexity *	StandardAnalysis	StandardAnalysis
Database Debounce Timer *	0	0

Done   🔒 Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:18 AM

Service Parameters Configuration 2

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

CDR Log Calls with Zero Duration Flag *	False	False
Digit Analysis Complexity *	StandardAnalysis	StandardAnalysis
Database Debounce Timer *	0	0
Maximum Phone Fallback Queue Depth *	10	10
Maximum Number of Registered Devices *	5000	5000

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

SDL Trace

SDL Trace Data Flags *	0x00000111	0x00000111
SDL Trace Flush Immediately *	True	True
SDL Trace Data Size *	0	0
SDL Trace Flag *	True	True
SDL TraceType Flags *	0x8000EB15	0x8000EB15
SDL XML Trace Flag *	False	False

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Clusterwide Parameters (Device - General)

Call Diagnostics Enabled *	Disabled	Disabled
CTI New Call Accept Timer *	4	4
CTI Generate Digits Interval *	250	250
CTI Dial Digits Interval *	250	250
Retain Media on Disconnect with PI for Active Call *	False	False
Station and Backup Server KeepAlive Interval *	60	60
Station KeepAlive Interval *	30	30
Status Enquiry Poll Flag *	False	False
Strip # Sign from Called Party Number *	True	True

Done   Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:18 AM

Service Parameters Configuration 3

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Station KeepAlive Interval *	30	30
Status Enquiry Poll Flag *	False	False
Strip # Sign from Called Party Number *	True	True
T301 Timer *	180000	180000
T302 Timer *	15000	15000
T303 Timer *	4000	4000
T304 Timer *	30000	30000
T305 Timer *	30000	30000
T306 Timer *	30000	30000
T308 Timer *	4000	4000
T309 Timer *	90000	90000
T310 Timer *	60000	60000
T313 Timer *	4000	4000
T316 Timer *	120000	120000
T317 Timer *	100000	100000
T321 Timer *	30000	30000
T322 Timer *	4000	4000
Tone on Hold Timer *	10	10
Unknown Caller ID Flag *	True	True
Call Classification *	OffNet	OffNet

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Clusterwide Parameters (Device - Phone)

Always Use Prime Line *	False	False
Always Use Prime Line for Voice Message *	False	False

Done   Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:18 AM

Service Parameters Configuration 4

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Clusterwide Parameters (Device - Phone)

Parameter	Value	Default
Always Use Prime Line *	False	False
Always Use Prime Line for Voice Message *	False	False
Builtin Bridge Enable *	Off	Off
Auto Answer Timer *	1	1
Extension Display on Cisco IP Phone Model 7910 *	False	False
Alternate Idle Phone Auto Answer Behavior *	False	False
Hold Type *	False	False
Line State Update Enabled *	True	True
Off-hook to First Digit Timer *	15000	15000
Override Auto Answer If Speaker Is Disabled *	True	True
Out-of-Bandwidth Text *	Not Enough Bandwidth	Not Enough Bandwidth
Forced Authorization Code Prompt Text *	Enter Authorization Code	Enter Authorization Code
Client Matter Code Prompt Text *	Enter Client Matter Code	Enter Client Matter Code
AAR Network Congestion Rerouting Text *	Network Congestion. Rerouting.	Network Congestion. Rerouting.
Ring Setting of Busy Station Policy *	Only Apply Ring Setting of Busy Station When Incoming Call Arri	Only Apply Ring Setting of Busy Stat Incoming Call Arrives
Transfer On-hook Enabled *	False	False
Ring Setting of Busy Station *	Beep Only	Beep Only
Ring Setting of Idle Station *	Ring	Ring
Privacy Setting *	True	True
SIP Station KeepAlive Interval *	120	120
SIP Station Realm *	ccmsipline	ccmsipline
Speed Dial Await Further Digits *	False	False
Display CTI Route Point Name or DN *	False	False

Done   Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:18 AM

Service Parameters Configuration 5

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

SIP Station Realm *	ccmsipline	ccmsipline
Speed Dial Await Further Digits *	False	False
Display CTI Route Point Name or DN *	False	False

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Clusterwide Parameters (Device - PRI and MGCP Gateway)

Calling Party Number Screening Indicator *	CallManager sets the screening indicator value - Default setting	CallManager sets the screening indi - Default setting
Clear Calls Flag When Datalink Is Down *	True	True
Device Status Poll Interval *	3000	3000
Disable Alerting Progress Indicator *	False	False
Discard Non Inband Progress in Overlap Sending *	False	False
Disable Resume from Shared-line MGCP FXS Port *	True	True
DTMF Silence Tone Flag *	False	False
Enable Display IE in Codeset 6 *	False	False
Enable Sending PRI NI2 Service Message *	False	False
Flash Hook Duration *	500	500
Gateway Poll Timer *	10	10
Location In PRI Progress Indicator IE (User Side Only) *	Use the Network Side PRI progress indicator IE	Use the Network Side PRI progress
Matching Calling Party with Attendant Flag *	False	False
MGCP Database Query Delay Timer *	1000	1000
MGCP FXS On-Hook Pending Timer *	3	3
MGCP Response Timer *	30	30
MGCP Timer *	3	3
Numbering Plan Info *	1	1

Done   Local intranet

Start   Router - Hy...   Service Pa...   C:\Documen...   Avaya Site ...   Clarinet - M...   Document6 ...   11:19 AM

Service Parameters Configuration 6

MGCP Response Timer *	30	30
MGCP Timer *	3	3
Numbering Plan Info *	1	1
Overlap Receiving Flag for PRI *	True	True
Port Release Timer *	0	0
SMDI Call Delay Timer *	0	0
Stable in State 4 Flag *	False	False
Suppress Out-of-Channels Alarms *	True	True
I-Frame Timer *	2000	2000
User-to-User IE Status *	False	False
Convert European Progress Message to Alerting *	False	False
Enable DMS PRI Notify Message from User to Network *	True	True

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Clusterwide Parameters (Device - H323)

Accept Unknown TCP Connection *	False	False
BRQ Enabled *	False	False
Call Present Disconnect Flag *	False	False
H225 Block Setup Destination *	False	False
H225 DB Retry Timer *	0	0
H225 Device Connect Timer *	0	0
H225 DTMF Duration *	100	100
H225 TspReg Retry *	2	2
H225 Intercluster Call Throttle Timer *	30	30
H225 T301 Timer *	180000	180000

Service Parameters Configuration 7

Service Parameter Configuration - Microsoft Internet Explorer		_ 8 X
File Edit View Favorites Tools Help		

H225 TspReq Retry *	2	2
H225 Intercluster Call Throttle Timer *	30	30
H225 T301 Timer *	180000	180000
H225 T302 Timer *	15000	15000
H225 T303 Timer *	4000	4000
H225 T304 Timer *	30000	30000
H225 T305 Timer *	30000	30000
H225 T310 Timer *	60000	60000
H225 TCP Timer *	5	5
H245 TCS Timeout *	10	10
H323 Calling Party Number Screening Indicator *	Calling number screened and passed	Calling number screened and passe
Tone on Connect *	False	False
RAS ARQ Timer *	3	3
RAS BRQ Timer *	3	3
RAS DRQ Timer *	3	3
RAS RRQ Timer *	3	3
Ras URQ Timer *	3	3
Retry Count for ARQ *	2	2
Retry Count for BRQ *	2	2
Retry Count for DRQ *	2	2
Retry Count for RRQ *	2	2
Retry Count for URQ *	1	1
Send Product ID and Version ID *	False	False
Send Progress Timer *	3000	3000

Done   Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:19 AM

Service Parameters Configuration 8

Retry Count for URQ *	1	1
Send Product ID and Version ID *	False	False
Send Progress Timer *	3000	3000
Send H225 User Info Message *	User Info for Call Progress Tone	User Info for Call Progress Tone
Status Enquiry Poll Timer *	10000	10000
Device Name of GK-controlled Trunk That Will Use Port 1720 *	None	None
Host Name/IP Address of GK That Will Use RAS UDP Port 1719 *	None	None
Fail Call If MTP Allocation Fails *	False	False

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Clusterwide Parameters (Device - SIP)

Retry Count for SIP Bye *	10	10
Retry Count for SIP Cancel *	10	10
Retry Count for SIP Invite *	6	6
Retry Count for SIP PRACK *	6	6
Retry Count for SIP Rel1XX *	10	10
Retry Count for SIP Response *	6	6
SIP Connect Timer *	500	500
SIP Disconnect Timer *	500	500
SIP Expires Timer *	180000	180000
SIP PRACK Timer *	500	500
SIP Rel1XX Timer *	500	500
SIP Trying Timer *	500	500
SIP Rel1XX Enabled *	False	False

Service Parameters Configuration 9

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

SIP Rel1XX Timer *	500	500
SIP Trying Timer *	500	500
SIP Rel1XX Enabled *	False	False
SIP Min-SE Value *	1800	1800
SIPS URI Handling *	Reject	Reject
SIP statistics Periodic update Timer *	2	2
SIP Session Expires Timer *	1800	1800
SIP Trunk TspReg Retry *	2	2

Clusterwide Parameters (Feature - General)

Call Park Display Timer *	10	10
Call Park Reversion Timer *	60	60
Maximum Call Duration Timer *	720	720
Maximum Hold Duration Timer *	360	360
Party Entrance Tone *	True	True
Suppress MOH to Conference Bridge *	True	True
Message Waiting Lamp Policy *	Primary Line - Light and Prompt	Primary Line - Light and Prompt
Message Waiting Indicator Inbound Calling Search Space	< None >	
Multiple Tenant MWI Modes *	False	False
MWI Non Message Center Signaling Call Duration *	0	0
Message Waiting Indicator APDU Digit Translation CSS	< None >	
Block OffNet To OffNet Transfer *	False	False
Drop Ad Hoc Conference *	Never	Never

Clusterwide Parameters (Feature - Forward)

| Forward Maximum Hop Count * | 12 | 12 |

Done   Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:19 AM

Service Parameters Configuration 10

Service Parameters Configuration 11

Service Parameters Configuration 12

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Call Back Calling Search Space	< None >	
No Path Reservation *	True	True
Set Private Numbering Plan for Call Back *	False	False

Clusterwide Parameters (Route Plan)

Stop Routing on Out of Bandwidth Flag *	False	False
Stop Routing on Unallocated Number Flag *	True	True
Stop Routing on User Busy Flag *	True	True

Clusterwide Parameters (Hunt List)

| Stop Hunting on Out of Bandwidth Flag * | False | False |

Clusterwide Parameters (Service)

Default Network Hold MOH Audio Source ID *	1	1
Default User Hold MOH Audio Source ID *	1	1
Duplex Streaming Enabled *	False	False
Maximum Ad Hoc Conference *	4	4
Maximum MeetMe Conference Unicast *	4	4
Media Exchange Interface Capability Timer *	8	8
Media Exchange Timer *	12	12
Media Exchange Stop Streaming Timer *	8	8
Media Resource Allocation Timer *	12	12
Intercluster Capabilities Mismatch Timer *	1000	1000
Silence Suppression *	False	False
Silence Suppression for Gateways *	False	False
Strip G.729 Annex B (Silence Suppression) from Capabilities *	False	False

Done   Local intranet

Start   Router - Hy...   Service Pa...   C:\Documen...   Avaya Site ...   Clarinet - M...   Document6 ...   11:20 AM

Service Parameters Configuration 13

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Silence Suppression	False	False
Silence Suppression for Gateways *	False	False
Strip G.729 Annex B (Silence Suppression) from Capabilities *	False	False

Clusterwide Parameters (System - General)

Always Use Dial Tone Setting *	Default	Default
Max Simultaneous Cisco CallManager Initializations *	0	0
Restart Cisco CallManager on Initialization Exception *	True	True
Call Control Initialization Timer *	90	90
Calling Search Space Initialization Timer *	900	900
Digit Analysis Initialization Timer *	900	900
Database Initialization Timer *	900	900
Device Initialization Timer *	360	360
Digit Analysis Timer *	6	6
Directory Initialization Timer *	90	90
Media Initialization Timer *	90	90
Route Plan Initialization Timer *	600	600
Supplementary Services Initialization Timer *	900	900
Statistics Enabled *	True	True
Time Of Day Initialization Timer *	900	900

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Clusterwide Parameters (System - QOS)

Priority Class *	Normal Priority	Normal Priority
DSCP for Audio Calls *	EF DSCP (101110)	EF DSCP (101110)
DSCP for Video Calls *	AF41 DSCP (100010)	AF41 DSCP (100010)

Done   Local intranet

Start   Router - Hy...   Service Pa...   C:\Documen...   Avaya Site ...   Clarinet - M...   Document6 ...   11:20 AM

Service Parameters Configuration 14

Priority Class *	Normal Priority	Normal Priority
DSCP for Audio Calls *	EF DSCP (101110)	EF DSCP (101110)
DSCP for Video Calls *	AF41 DSCP (100010)	AF41 DSCP (100010)
DSCP for Audio Calls when RSVP Fails *	default DSCP (000000)	default DSCP (000000)
DSCP for Video Calls when RSVP Fails *	default DSCP (000000)	default DSCP (000000)
DSCP for ICCP Protocol Links *	CS3(precedence 3) DSCP (011000)	CS3(precedence 3) DSCP (011000)

Clusterwide Parameters (System - SDL)

SDL Listening Port Number *	8002	8002
SDL Max Router Latency *	20	20
Suppress Debug Info for Router Death *	0	0

Clusterwide Parameters (System - Location and Region)

Enforce Millisecond Packet Size *	True	True
Locations Initialization Timer *	90	90
Locations Trace Details Enabled *	False	False
Preferred G711 Millisecond Packet Size *	20	20
Preferred G723 Millisecond Packet Size *	30	30
Preferred G729 Millisecond Packet Size *	20	20
Preferred GSM EFR Bytes Packet Size *	31	31
Regions Initialization Timer *	120	120
Intraregion Audio Codec Default *	G711	G711
Interregion Audio Codec Default *	G729	G729
Intraregion Video Call Bandwidth Default *	384	384
Interregion Video Call Bandwidth Default *	384	384

Clusterwide Parameters (System - CCM Automated Alternate Routing)

Service Parameters Configuration 15

File   Edit   View   Favorites   Tools   Help

| Intraregion Video Call Bandwidth Default | 384 | 384 |
| Interregion Video Call Bandwidth Default * | 384 | 384 |

Clusterwide Parameters (System - CCM Automated Alternate Routing)

| Automated Alternate Routing Enable * | False | False |
| AAR Groups Initialization Timer * | 90 | 90 |

Clusterwide Parameters (System - RSVP)

Default inter-location RSVP Policy *	No Reservation	No Reservation
RSVP Retry Timer *	60	60
Mandatory RSVP Mid-call Retry Counter *	1	1
Mandatory RSVP mid call error handle option *	Call becomes best effort	Call becomes best effort
RSVP Video Tspec Burst Size Factor *	5	5
MLPP EXECUTIVE_OVERRIDE To RSVP Priority Mapping *	65535	65535
MLPP FLASH_OVERRIDE To RSVP Priority Mapping *	65534	65534
MLPP FLASH To RSVP Priority Mapping *	65533	65533
MLPP IMMEDIATE To RSVP Priority Mapping *	65532	65532
MLPP PL_PRIORITY To RSVP Priority Mapping *	65531	65531
MLPP PL_ROUTINE To RSVP Priority Mapping *	65530	65530
RSVP Audio Application ID *	AudioStream	AudioStream
RSVP Video Application ID *	VideoStream	VideoStream
QoS Policy Initialization Timer *	120	120
RSVP Session Manager Initialization Timer *	120	120
RSVP Response Timer *	2	2

TLS Packet Capture Configurations

| Packet Capture Enable * | False | False |

Done   Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:20 AM

Service Parameters Configuration 16

Service Parameter Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

RSVP Audio Application ID   AudioStream   AudioStream

RSVP Video Application ID *   VideoStream   VideoStream

QoS Policy Initialization Timer *   120   120

RSVP Session Manager Initialization Timer *   120   120

RSVP Response Timer *   2   2

TLS Packet Capture Configurations
Packet Capture Enable *   False   ▼   False

Packet Capture Max File Size (MB) *   2   2

Clusterwide Parameters(System - Presence)
Presence Subscription Throttling Threshold *   90000   90000

Presence Subscription Resume Threshold *   80   80

Default Inter-Presence Group Subscription *   Disallow Subscription   ▼   Disallow Subscription

Clusterwide Parameters (System - Dual Mode Mobility)
Integrated Dual-Mode Feature Enable *   False   ▼   False

H1 (Graceful) Handoff Number

H1 Handoff Number Partition   < None >   ▼

H2 Handoff Number

H2 Handoff Number Partition   < None >   ▼

Minimum Ring Timer *   2   2

Mobility Cisco CallManager Group   < None >   ▼

[Save]   [Set to Default]   [Advanced]

ⓘ - indicates required item.

Done   Local intranet

Start | Router - Hy... | Service Pa... | C:\Documen... | Avaya Site ... | Clarinet - M... | Document6 ...   11:20 AM

Call Pickup Group Configuration 1

Find and List Call Pickup Groups - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Find and List Call Pickup Groups

Status
ⓘ 1 records found

Search Options
Find Call Pickup Group where [Call Pickup Group Name ▼] [begins with ▼] [   ] [Find] ☐ Search Within Results

Search Results

	Call Pickup Group Name	Call Pickup Group Number	Partition	Description
☐	QSIG_PINX	7009		QSIG_PINX_ID

[Add New] [Select All] [Clear All] [Delete Selected]   Rows per Page [50 ▼]

🞄Start | 🖉 🕐 🖥 🖳 | 🕸Router - HyperTerminal | 🖉Find and List Call Picku... | 🔍C:\Documents and Settin... | 🕸Clarinet - Manager Dialog ... | 💻 V2 🔊 🔲   1:46 PM

Call Pickup Group Configuration 2

Call Pickup Group Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation Cisco Unified CallManager Adminis

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Call Pickup Group Configuration   Related Links: Back To Find/Li

Status
ⓘ Status: Ready

Call Pickup Group Information
Call Pickup Group Name*   QSIG_PINX
Call Pickup Group Number* 7009
Description   QSIG_PINX_ID
Partition   < None >

Associated Call Pickup Group Information
Find Pickup Numbers by Numbers/Partition
Partition   < None >
Call Pickup Group Numbers Contain   [   ]   Find
Available Call Pickup Groups   (No Matches Found)

Add to Associated Call Pickup Groups

Current Associated Call Pickup Groups
Reverse Order of Selected Numbers
Selected Call Pickup Groups   7009

Start   Router - HyperTermi...   Call Pickup Group ...   C:\Documents and S...   Clarinet - Manager D...   E1QSIGCCMscreen....   1:47 PM

Call Pickup Group Configuration 3

Call Pickup Group Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Call Pickup Group Number* `7009`

Description `QSIG_PINX_ID`

Partition `< None >`

Associated Call Pickup Group Information

Find Pickup Numbers by Numbers/Partition

Partition `< None >`

Call Pickup Group Numbers Contain `_____`   **Find**

Available Call Pickup Groups `(No Matches Found)`

Add to Associated Call Pickup Groups

Current Associated Call Pickup Groups

Reverse Order of Selected Numbers

Selected Call Pickup Groups `7009`

Removed Call Pickup Groups
(to be removed
when you click Save)

Save | Delete | Copy | Add New

ⓘ *- indicates required item.

Start | Router - HyperTermi... | Call Pickup Group ... | C:\Documents and S... | Clarinet - Manager D... | E1QSIGCCMscreen.... | 1:47 PM

CallBack Softkey Template 1

Find and List Softkey Templates - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back ▾ ⇒ ▾ ⊗ ⊉ ⌂ | ⊗Search ⊛Favorites ⊛Media ⊛ | ⊵▾ ⊜ ⊴ ⊟

Address https://172.20.235.254/ccmadmin/softkeyTemplateFindList.do

Navigation Cisco Unified CallManager Adminis

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

Logged in as: CCM

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

Find and List Softkey Templates

Status
ⓘ 6 records found

Search Options

Find Softkey Template where Name ▾ begins with ▾ [   ] **Find** ☐ Search Within Results

and where Softkey Template is Both ▾

(softkeytemplate.name begins with any)

Search Results

	Name	Description
	Standard Feature	Standard Softkey Template for CM Combined Feature
	Standard IPMA Assistant	Standard template for IPMA assistant interface
	Standard IPMA Manager	Standard template for IPMA manager interface
	Standard IPMA Shared Mode Manager	Standard template for IPMA shared mode manager
	Standard User	Standard Softkey Template for CallManager only
☐	Standard User With Callback	Standard Softkey with CallBack Template

[Add New] [Select All] [Clear All] [Delete Selected] Rows per Page 50 ▾

Local intranet

Start | | | | | | | | | | | | | | | | | | | | | | 8:53 AM

CallBack Softkey Template 2

CallBack Softkey Template 3

CallBack Softkey Template 4

CallBack Softkey Template 5

CallBack Softkey Template 6

CallBack Softkey Template 7

CallBack Softkey Template 8

CallBack Softkey Template 9

CallBack Softkey Template 10

CallBack Softkey Template 11

CallBack Softkey Template 12

CallBack Softkey Template 13

PSTN Route Pattern Configuration (Screen 1)

PSTN Configuration (Screen 2)

Route Pattern Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back ▾ → ⊗ ⬚ ⌂ | ⬚Search ⬚Favorites ⬚Media ⬚ | ⬚▾ ⬚ ⬚ ⬚

Address ⬚ https://172.20.235.254/ccmadmin/routePattern2Edit.do?key=e8ee644d-6929-6e8e-fffb-8496ad2a9b7e   ▾   ⬚Go   Links »

☐ 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   ▾]

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) [   ]

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.

⬚ Done   🔒 ⬚ Local intranet

Start | ⬚ ⬚ ⬚ ⬚ | ⬚Micros... ⬚Prese... ⬚Route... ⬚Avay... ⬚Remo... ⬚Cisco ... ⬚Rout... ⬚C:\Do... ⬚41543... ⬚Docu... | ⬚ ⬚ ⬚ ⬚ ⬚ 2:52 PM

Voice Mail Profile Configuration 1

Voice Mail Profile Configuration 2

Voice Mail Pilot Configuration

Voice Mail Port Configuration 1

Find and List Voice Mail Ports - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back → ⊗ ⊡ ⌂ | Search Favorites Media | ⊡ ⊟ ⊟

Address https://172.20.235.254/ccmadmin/vmPortFindList.do?lookup=false&multiple=true&recCnt=0&colCnt=7

Navigation Cisco Unified CallManager Admini

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions

Logged in as: CCM

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

Find and List Voice Mail Ports

Status
ⓘ 4 records found

Search Options
Find Voice Mail Port where Device Name ▾ begins with ▾   **Find** ☐ Search Within Results
Select item or enter search text ▾
(device.name begins with any)

Search Results

	Device Name	Description	Device Pool	SCCP Security Profile	Status	IP Address
☐	SaturnUM1-VI1	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
☐	SaturnUM1-VI2	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
☐	SaturnUM1-VI3	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
☐	SaturnUM1-VI4	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2

Add New   Select All   Clear All   Delete Selected   Reset Selected   Rows per Page 50 ▾

Done   🔒 Local intranet

Page 3   Sec 1   3/3   At 1"   Ln 1   Col 2   REC TRK EXT OVR

Start | | Find and List Voice Mai... | Untitled - Notepad | CS101_Nortel Configurati... | Document1 - Microsoft W... | 10:25 AM

Voice Mail Port Configuration 2

Voice Mail Port Configuration 3

Voice Mail Port Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Status
Status: Ready

Device Information

Registration	Registered with Cisco Unified CallManager CM-SATURN
IP Address	172.20.239.252
Port Name*	SaturnUM1-VI1
Description	Cisco Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

Directory Number Information

Directory Number*	6091
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	

Save   Delete   Copy   Reset   Add New

*- indicates required item.

Done   Local intranet

Page 5   Sec 1   5/5   At 1"   Ln 1   Col 2   REC TRK EXT OVR

Start | Voice Mail Port Config... | Untitled - Notepad | CS101_Nortel Configurati... | Document1 - Microsoft W... | 10:27 AM

MWI Configuration 1

MWI Configuration 2

Message Waiting Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation   Cisco Unified CallManager Admini

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCM

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

Message Waiting Configuration   Related Links: Back To Fir

Status
ⓘ Status: Ready

Message Waiting Information

Message Waiting Number*	5098
Partition	< None >
Description	MWI On
Message Waiting Indicator*	⊙ On ○ Off
Calling Search Space	< None >

[Save] [Delete] [Copy] [Add New]

ⓘ *- indicates required item.

Done   🔒 🖳 Local intranet

Page 7   Sec 1   7/7   At 1"   Ln 1   Col 2   REC TRK EXT OVR

Start   Message Waiting Confi...   Untitled - Notepad   CS101_Nortel Configurati...   Document1 - Microsoft W...   10:30 AM

MWI Configuration 3

Message Waiting Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Navigation | Cisco Unified CallManager Admini

Cisco Unified CallManager Administration   For Cisco IP Telecommunication Solutions

Logged in as:CCM

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

Message Waiting Configuration

Related Links: Back To Fir

Status
ⓘ Status: Ready

Message Waiting Information

Message Waiting Number*   6099

Partition   < None >

Description   MWI Off

Message Waiting Indicator*   ○ On ⦿ Off

Calling Search Space   < None >

[Save] [Delete] [Copy] [Add New]

ⓘ *- indicates required item.

https://172.20.235.254/ccmadmin/messageWaitingEdit.do?key=419f1bf6-17de-a954-0915-5038461ec69a#navskip

🔒 🖳 Local intranet

Page 8   Sec 1   8/8   At 1"   Ln 1   Col 2   REC TRK EXT OVR   📖

🏁 Start   📇 ◎ 🖳 🖳   📄 Message Waiting Confi...   📄 Untitled - Notepad   📄 CS101_Nortel Configurati...   📝 Document1 - Microsoft W...   Ⓥ V2 ◀ 🖳   10:30 AM

Cisco 3845 Configuration

```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname 3845_West
!
boot-start-marker
boot system flash:c3845-ipvoice-mz.124-5.13.T2
boot-end-marker
!
logging buffered 51200 warnings
enable secret 5 $1$MFhi$AqqpDsFeO4Sb/IkzkrcmO/
!
no aaa new-model
!
resource policy
!
no network-clock-participate slot 1
no network-clock-participate slot 4
voice-card 0
 no dspfarm
!
voice-card 1
 no dspfarm
!
voice-card 4
 dspfarm
!
ip cef
ip tcp synwait-time 13
!
!
!
!
no ip domain lookup
ip host CM-SATURN 172.20.235.254
ip name-server 172.20.235.254
isdn switch-type primary-4ess
!
!
no voice call carrier capacity active
!
!
voice class codec 1
 codec preference 3 g711alaw
!
!
!
!
!
!
!
!
!
```

```
!
!
controller E1 1/1/0
 pri-group timeslots 1-31 service mgcp
!
controller E1 1/1/1
!
controller E1 4/0/0
 pri-group timeslots 1-31 service mgcp
!
controller E1 4/0/1
!
!
!
!
interface GigabitEthernet0/0
 description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
 ip address 10.10.10.1 255.255.255.248
 shutdown
 duplex auto
 speed auto
 media-type rj45
 negotiation auto
!
interface GigabitEthernet0/1
 ip address 172.20.33.120 255.255.255.0
 duplex auto
 speed auto
 media-type rj45
 negotiation auto
!
interface Serial1/1/0:15
 no ip address
 encapsulation hdlc
 no logging event link-status
 isdn switch-type primary-qsig
 isdn incoming-voice voice
 isdn bind-l3 ccm-manager
 no cdp enable
!
interface Serial4/0/0:15
 no ip address
 encapsulation hdlc
 no logging event link-status
 isdn switch-type primary-qsig
 isdn protocol-emulate network
 isdn incoming-voice voice
 isdn T310 120000
 isdn bind-l3 ccm-manager
 no cdp enable
!
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/1
ip route 0.0.0.0 0.0.0.0 172.20.33.1
!
ip http server
ip http authentication local
!
!
!
```

```
!
control-plane
!
!
!
voice-port 0/1/0
!
voice-port 0/1/1
!
voice-port 1/1/0:15
!
voice-port 4/0/0:15
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 172.20.235.254
ccm-manager config
!
mgcp
mgcp call-agent CM-SATURN 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp package-capability fxr-package
mgcp package-capability pre-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
!
dial-peer cor custom
!
!
!
dial-peer voice 1 pots
 service mgcpapp
!
dial-peer voice 2 pots
 service mgcp
!
dial-peer voice 3 pots
 service mgcp
!
banner login ^C
```

Cisco Router and Security Device Manager (SDM) is installed on this device. This

feature requires the one time use, initial credentials, of username "cisco"
with password "cisco".

Please change these publicly known initial credentials through SDM or IOS CLI.
Here's the Cisco IOS command:

no username cisco

NOTE: Please add a new username to be able to launch SDM for router management.

For more information about SDM please follow the instructions in the QUICK
START GUIDE for your router or at
http://www.cisco.com/go/sdm
----
^C
!
line con 0
 stopbits 1
line aux 0
 stopbits 1
line vty 0 4
 privilege level 15
 login
 transport input telnet
line vty 5 15
 privilege level 15
 login local
 transport input telnet
!
scheduler allocate 20000 1000
!
end

PSTN Gateway (Cisco 3745) Configuration

```
3745E1#sh run
Building configuration...

Current configuration : 1778 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname 3745E1
!
boot-start-marker
boot system flash:c3745-ipvoice-mz.124-3.bin
boot system slot0:C3745-ipvoice-mz.shamu_p2_18
boot-end-marker
!
logging buffered 1000000 debugging
!
no aaa new-model
!
resource policy
!
no network-clock-participate slot 2
no network-clock-participate slot 3
no network-clock-participate slot 4
voice-card 2
 no dspfarm
!
voice-card 3
 dspfarm
!
voice-card 4
 dspfarm
!
ip subnet-zero
ip cef
ip tcp synwait-time 13
!
!
!
!
isdn switch-type primary-dms100
!
!
no voice call carrier capacity active
!
!
!
!
!
!
!
!
!
!
```

```
!
controller T1 4/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24
!
!
!
interface FastEthernet0/0
 ip address 172.20.33.52 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet0/1
 no ip address
 shutdown
 duplex auto
 speed auto
!
interface Serial4/0:23
 no ip address
 no logging event link-status
 isdn switch-type primary-dms100
 isdn protocol-emulate network
 isdn incoming-voice voice
 isdn channel-id invert extend-bit
 no cdp enable
!
ip classless
ip route 0.0.0.0 0.0.0.0 172.20.31.1
ip route 0.0.0.0 0.0.0.0 FastEthernet0/0
ip route 0.0.0.0 0.0.0.0 172.20.33.1
!
ip http server
!
!
!
control-plane
!
!
!
voice-port 2/0/0
 station-id name PSTN_PHONE
!
voice-port 2/0/1
!
voice-port 4/0:23
!
!
no mgcp package-capability res-package
no mgcp package-capability fxr-package
no mgcp timer receive-rtcp
!
!
!
dial-peer voice 1 pots
 destination-pattern 16503646325
 port 2/0/0
```

```
!
dial-peer voice 2 pots
 destination-pattern 91408527....
 direct-inward-dial
 port 4/0:23
 prefix 91408527
!
!
line con 0
line aux 0
line vty 0 4
 exec-timeout 0 0
 password CISCO
 login
!
!
end

3745E1#
```

Acronyms

Acronym	Definitions
ANF-PR	Additional Network Feature Path Replacement
CCM	Cisco CallManager
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CNIP	Calling Name Identification Presentation
CNIR	Calling Name Identification Restriction
COLP	Connected Line (Number) Identification Presentation
COLR	Connected Line (Number) Identification Restriction
CONP	Connected Name Identification Presentation
CONR	Connected Name Identification Restriction
CT	Call Transfer
MWI	Message Waiting Indicator
PSTN	Public Switched Telephone Network

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Important Information

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