



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

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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.

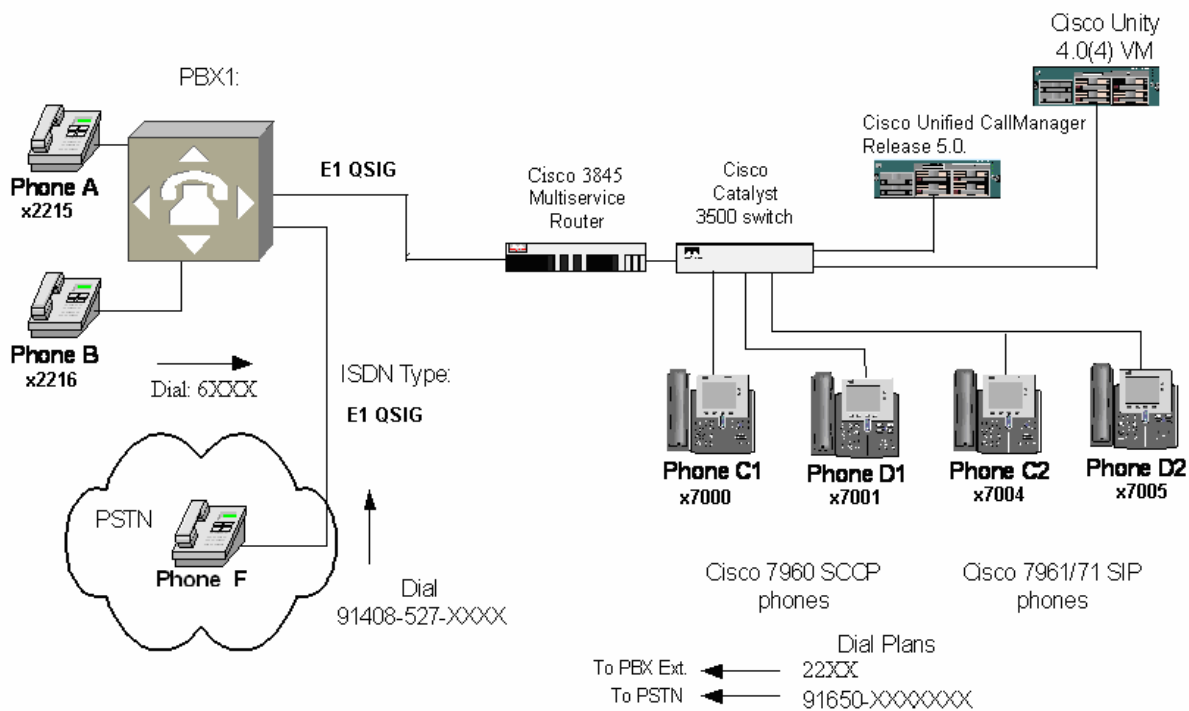
Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway and ISO QSIG switch type on the of Nortel CS1000M Release 4.0 PBX.

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 TITE 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
OVLN YES
DIDD 0
OVLS YES
OVLN 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 40
FRL 50
FRL 60
FRL 70
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 RCBF
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 OCBF 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

Find and List Gateway - 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 Gateway

+ - X

Status
1 records found

Search Options
Find Gateways where Name begins with Hide endpoints Find Search Within Results
(device.name begins with any)

Search Results

	Device Name	Description	Device Pool	Calling Search Space	Ext.	Partition	Route Group	Priority	Port	Device Type	Status
<input type="checkbox"/>	3845_West	3845_West								Cisco 3845	See Endpoints

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

Start Router - Hy... E1QSIGCCM... Find and Li... C:\Documen... Avaya Site ... Clarinet - M... Local intranet 9:44 AM



CCM Gateway Configuration 2

Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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 Fin

Status
Status: Ready

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 1/1/1
Module in Slot 2: NM-HDV
Subunit 0: VWIC-2MFT-E1 2/0/0 2/0/1
Module in Slot 3: < None >
Module in Slot 4: < None >

Product Specific Configuration
Global ISDN Switch Type: 4ESS

Done Local intranet

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



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 1/1/1
Module in Slot 2: NM-HDV
Subunit 0: VWIC-2MFT-E1 2/0/0 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 9:45 AM

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



CCM Gateway Configuration 4

Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

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



CCM Gateway Configuration 5

Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

Start Router - Hy... Gateway C... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 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

Start Router - Hy... Gateway C... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 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

Start Router - Hy... Gateway C... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 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**

Connected Line ID Presentation (QSIG Inbound Call)*

UUIE Configuration

☐ Passing Precedence Level Through UUIE

Security Access Level*

Product Specific Configuration ?

Line Coding *

Framing *

Clock *

Input Gain (-6..14 db) *

Output Attenuation (-6..14 db) *

Echo Cancellation Enable *

Echo Cancellation Coverage (ms) *

Save Delete Reset

Legend:

- *- 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

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



CCM Gateway Configuration 9

Gateway 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

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

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



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

Start Router - Hy... Gateway C... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 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

Start Router - Hy... Gateway C... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 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**

Connected Line ID Presentation (QSIG Inbound Call)*

UUIE Configuration

☐ Passing Precedence Level Through UUIE

Security Access Level*

Product Specific Configuration ?

Line Coding *

Framing *

Clock *

Input Gain (-6..14 db) *

Output Attenuation (-6..14 db) *

Echo Cancellation Enable *

Echo Cancellation Coverage (ms) *

Save Delete Reset

Legend:

- *- 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

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



Phone Configuration 1

Find and List Phones - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

+ - X

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
<input type="checkbox"/>	7960 SEP00124362145B	Auto 7001	Default	SCCP	Registered with CM-SATURN	172.20.235.101		
<input type="checkbox"/>	7960 SEP00124362B4C5	Auto 7000	Default	SCCP	Registered with CM-SATURN	172.20.235.100		
<input type="checkbox"/>	7961 SEP00170EEE3279	Auto 7004	Default	SIP	Registered with CM-SATURN	172.20.235.102		
<input type="checkbox"/>	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 - 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

Phone Configuration Related Links: Back To Find/List

Status
Status: Ready

Association Information
Modify Button Items

- Line [1] - 7000 (no partition)
- Line [2] - Add a new DN
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Unassigned Associated Items -----
- Add a new SD
- Add a new SURL
- Add a new BLF SD
- Privacy
- None

Phone Type
Product Type: Cisco 7960
Device Protocol: SCCP

Device Information

Registration	Registered with Cisco Unified CallManager CM-SATURN
IP Address	172.20.235.100
MAC Address*	00124362B4C5
Description	Auto 7000
Device Pool*	Default
Phone Button Template*	Standard 7960 SCCP
Softkey Template	Standard User With Callback
Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
User Hold Audio Source	< None >
Network Hold Audio Source	< None >
Location*	Hub_None
User Locale	< None >

Done

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



Phone Configuration 3 (SCCP Phone)

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Network Hold Audio Source < None >
Location* Hub_None
User Locale < None >
Network Locale < None >
Built In Bridge* Default
Privacy* Default
Owner User ID < None >
Phone Load Name
☒ Retry Video Call as Audio
☐ Ignore Presentation Indicators (internal calls only)
☒ Allow Control of Device from CTI

Protocol Specific Information
Packet Capture Mode* None
Packet Capture Duration 0
Presence Group* Standard Presence group
SCCP Phone Security Profile* Standard SCCP Profile for Auto Registration
SUBSCRIBE Calling Search Space < None >
☐ Unattended Port
☐ Require DTMF Reception
☐ RFC2833 Disabled

Expansion Module Information
Module 1 < None >
Module 1 Load Name
Module 2 < None >
Module 2 Load Name

External Data Locations Information (Leave blank to use default)
Information

Done Local intranet

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



Phone Configuration 4 (SCCP Phone)

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Module 2 Load Name < None >

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

Router - Hy... Phone Con... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 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

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



Phone Configuration 6 (SIP Phone)

Phone 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

Phone Configuration Related Links: Back To Find/List

Status
Status: Ready

Association Information
Modify Button Items

- Line [1] - 7004 (no partition)
- Line [2] - Add a new DN
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Unassigned Associated Items -----
- Add a new SD
- Add a new SURL
- Add a new BLF SD
- Privacy
- None

Phone Type
Product Type: Cisco 7961
Device Protocol: SIP

Device Information

Registration	Registered with Cisco Unified CallManager CM-SATURN
IP Address	172.20.235.102
MAC Address*	00170EEE3279
Description	Auto 7004
Device Pool*	Default
Phone Button Template*	Standard 7961 SIP
Softkey Template	Standard User With Callback
Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
User Hold Audio Source	1-SampleAudioSource
Network Hold Audio Source	1-SampleAudioSource
Location*	Hub_None
User Locale	< None >

Done

Start Router - Hy... Phone Con... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 9:51 AM



Phone Configuration 7 (SIP Phone)

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Network Hold Audio Source	1-SampleAudioSource
Location*	Hub_None
User Locale	< None >
Network Locale	< None >
Built In Bridge*	Default
Privacy*	Default
Owner User ID	< None >
Phone Load Name	

☐ Ignore Presentation Indicators (internal calls only)

☒ Allow Control of Device from CTI

Protocol Specific Information

Packet Capture Mode*	None
Packet Capture Duration	0
Presence Group*	Standard Presence group
SIP Dial Rules	< None >
MTP Preferred Originating Codec*	711ulaw
SIP Phone Security Profile*	Standard SIP Profile for Auto Registration
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile
Digest User	< None >

☐ Media Termination Point Required

☐ Unattended Port

☐ Require DTMF Reception

External Data Locations Information (Leave blank to use default)

Information	
Directory	

Local intranet

Start Router - Hy... Phone Con... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... 9:57 AM



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

Start Router - Hy... Phone Con... C:\Documen... Avaya Site ... Clarinet - M... Document1 ... Local intranet 9:57 AM



Phone Configuration 9 (SIP Phone)

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Operation Completed 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

i *- indicates required item.

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

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



Directory Number Configuration 1 (SCCP Phone)

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

Directory Number Configuration Related Links: Back To Find/List

Status
Status: Ready

Note: Changes to Line or Directory Number settings require restart.

Directory Number Information

Directory Number* 7000

Route Partition < None >

Description

Alerting Name SAT-0-ALT

ASCII Alerting Name SAT-0-ALT

☒ Allow Control of Device from CTI

Associated Devices

SEP00124362B4C5

Edit Device

Edit Line Appearance

▼ ▲

Dissociate Devices

Directory Number Settings

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

Done

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

Local intranet

10:01 AM



Directory Number Configuration 2 (SCCP Phone)

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Directory Number Settings

Voice Mail Profile

Calling Search Space

Presence Group*

AAR Group

User Hold Audio Source

Network Hold Audio Source

Auto Answer*

Call Forward and Call Pickup Settings

Forward All ☐ or

Secondary Calling Search Space for Forward All Find

Forward Busy Internal ☐ or

Forward Busy External ☐ or

Forward No Answer Internal ☐ or

Forward No Answer External ☐ or

Forward No Coverage Internal ☐ or

Forward No Coverage External ☐ or

Forward on CTI Failure ☐ or

No Answer Ring Duration (seconds)

Call Pickup Group

MLPP Alternate Party Settings

Target (Destination)

MLPP Calling Search Space

MLPP No Answer Ring Duration (seconds)

Done

Start Router - Hy... Directory ... C:\Documen... Avaya Site ... Clarinet - M... NortelE1QSI... Local intranet 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

MLPP No Answer Ring Duration (seconds)

Line 1 on Device SEP00124362B4C5

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

Message Waiting Lamp Policy*

Ring Setting (Phone Idle)*

Ring Setting (Phone Active) 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*

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

Forwarded Call Information Display on Device SEP00124362B4C5

☒ Caller Name

☒ Caller Number

☒ Redirected Number

☒ Dialed Number

Done

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

Local intranet

VC 10:02 AM



Directory Number Configuration 4 (SIP Phone)

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

Directory Number Configuration Related Links: Back To Find/List

Save Cancel Refresh Add

Status
Status: Ready

Note: Changes to Line or Directory Number settings require restart.

Directory Number Information

Directory Number*	7004
Route Partition	< None >
Description	7004 SIP
Alerting Name	SAT-4-ALT
ASCII Alerting Name	SAT-4-ALT

☒ Allow Control of Device from CTI

Associated Devices

SEP00170EEE3279

Edit Device

Edit Line Appearance

▼ ▲

Dissociate Devices

Directory Number Settings

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

Done

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

Local intranet

10:09 AM

Directory Number Configuration 5 (SIP Phone)

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail Print Mail

Directory Number Configuration

Directory Number Settings

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

Calling Search Space

Presence Group*

AAR Group

User Hold Audio Source

Network Hold Audio Source

Auto Answer*

Call Forward and Call Pickup Settings

Voice Mail Destination Calling Search Space

Forward All ☐ or

Secondary Calling Search Space for Forward All **Find**

Forward Busy Internal ☐ or

Forward Busy External ☐ or

Forward No Answer Internal ☐ or

Forward No Answer External ☐ or

Forward No Coverage Internal ☐ or

Forward No Coverage External ☐ or

Forward on CTI Failure ☐ or

No Answer Ring Duration (seconds)

Call Pickup Group

MLPP Alternate Party Settings

Target (Destination)

Done Local intranet

Start Ro... AV... Cla... Nor... unt... nor... Dir... C:\... Qsl... Nor...

2:04 PM



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

MLPP No Answer Ring Duration (seconds)

Line 1 on Device SEP00170EEE3279

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

Message Waiting Lamp Policy*

Ring Setting (Phone Idle)*

Ring Setting (Phone Active) 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*

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

Forwarded Call Information Display on Device SEP00170EEE3279

☒ Caller Name

☒ Caller Number

☒ Redirected Number

☒ Dialed Number

Done

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

Local intranet

VC 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 Administration

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

+ - X

Status
7 records found

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

Search Results

	Pattern	Description	Partition	Route Filter	Associated Device
<input type="checkbox"/>	22XX				S1/SU1/DS1-0@3845 West
<input type="checkbox"/>	2444				
<input type="checkbox"/>	25XX				S1/SU1/DS1-0@3845 West
<input type="checkbox"/>	52XX				S2/SU0/DS1-0@3845 West
<input type="checkbox"/>	5444				
<input type="checkbox"/>	8.2				S1/SU1/DS1-0@3845 West
<input type="checkbox"/>	91650XXXXXX				S1/SU1/DS1-0@3845 West

Rows per Page

Done

Start Router - Hy... Find and Li... C:\Documen... Avaya Site ... Clarinet - M... NortelE1QSI...

Local intranet

10:13 AM



Route Pattern Configuration 2 (ENBLOC Mode)

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

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

Local intranet

10:10 AM



Route Pattern Configuration 3 (ENBLOC Mode)

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*

☐ 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*

Calling Name Presentation*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

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"/>

Save Delete Copy Add New

*- indicates required item.

Done

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



Route Pattern Configuration 4 (ENBLOC Mode)

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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* 52XX

Route Partition < None >

Description

Numbering Plan -- Not Selected --

Route Filter < None >

MLPP Precedence* Default

Gateway/Route List* S2/SU0/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

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

Local intranet

10:34 AM



Route Pattern Configuration 5 (ENBLOC Mode)

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*

☐ 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*

Calling Name Presentation*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

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"/>

Save Delete Copy Add New

*- indicates required item.

Done

Start Router - Hy... Route Patt... C:\Documen... Avaya Site ... Clarinet - M... NortelE1QSI... Local intranet 10:34 AM



Route Pattern Configuration 6 (OVERLAP Mode)

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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* 3.2

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

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

Local intranet

10:35 AM



Route Pattern Configuration 7 (OVERLAP Mode)

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*

☐ 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*

Calling Name Presentation*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

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"/>

Save Delete Copy Add New

*- indicates required item.

Done

Start Router - Hy... Route Patt... C:\Documen... Avaya Site ... Clarinet - M... NortelE1QSI... Document2 ... Local intranet 10:35 AM



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 Administration
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

Start Router - Hy... Translatio... C:\Documen... Avaya Site ... Clarinet - M... NortelE1Q5I...

Local intranet 10:37 AM



Connected Name and Number Restriction 2

Translation Pattern for Incoming Calls

Translation Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Function: < 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

Connected Line ID Presentation*: Restricted

Connected Name Presentation*: Restricted

Called Party Transformations

Discard Digits: < None >

Called Party Transform Mask: 700X

Prefix Digits (Outgoing Calls):

Save Delete Copy Add New

* indicates required item.

Connected Name and Number Restriction



Calling Name and Number Restriction 1

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

Start Router - Hy... Route Patt... C:\Documen... Avaya Site ... Clarinet - M... NortelE1QSI... Document3 ... Local intranet 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*

☐ 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*

Calling Name Presentation*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

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"/>

Save Delete Copy Add New

*- indicates required item.

Done

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



Call Forward on Busy and No Reply 1

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

Directory Number Configuration Related Links: Back To Find/List

Status
Status: Ready

Note: Changes to Line or Directory Number settings require restart.

Directory Number Information

Directory Number* 7000

Route Partition < None >

Description

Alerting Name SAT-0-ALT

ASCII Alerting Name SAT-0-ALT

☒ Allow Control of Device from CTI

Associated Devices

SEP00124362B4C5

Edit Device

Edit Line Appearance

▼ ▲

Dissociate Devices

Directory Number Settings

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

Done

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

Local intranet

10:42 AM

Call Forward on Busy and No Reply 2

The screenshot displays the 'Nortel Directory Number Configuration' web application running in an Internet Explorer browser. The address bar shows the URL 'http://10.10.10.10:8080/...'. The page is titled 'Directory Number Configuration - Microsoft Internet Explorer'.

The main content area is divided into three sections:

- Directory Number Settings:** This section contains several dropdown menus for configuring the directory number. The 'Voice Mail Profile' is set to '<None>' with a note '(Choose <None> to use system default)'. Other settings include 'Calling Search Space' (set to '<None>'), 'Presence Group*' (set to 'Standard Presence group'), 'AAR Group' (set to '<None>'), 'User Hold Audio Source' (set to '<None>'), 'Network Hold Audio Source' (set to '<None>'), and 'Auto Answer*' (set to 'Auto Answer Off').
- Call Forward and Call Pickup Settings:** This section allows for configuring call forwarding and pickup. It includes checkboxes for 'Forward All', 'Forward Busy Internal', 'Forward Busy External', 'Forward No Answer Internal', 'Forward No Answer External', 'Forward No Coverage Internal', 'Forward No Coverage External', and 'Forward on CTI Failure'. Each checkbox is followed by an 'or' and a text input field for the 'Voice Mail Destination' and a dropdown menu for the 'Calling Search Space'. The 'Find' button is located to the right of the 'Secondary Calling Search Space for Forward All' dropdown. Below these are input fields for 'No Answer Ring Duration (seconds)' and 'Call Pickup Group' (set to '<None>').
- MLPP Alternate Party Settings:** This section includes a 'Target (Destination)' text input field, an 'MLPP Calling Search Space' dropdown menu (set to '<None>'), and an 'MLPP No Answer Ring Duration (seconds)' text input field.

The bottom of the browser window shows the Windows taskbar with the Start button and several open applications, including 'Router - Hy...', 'Directory ...', 'C:\Documen...', 'Avaya Site ...', 'Clarinet - M...', 'NortelE1QSI...', 'Document4 ...', and 'Local intranet'. The system clock shows '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

MLPP No Answer Ring Duration (seconds)

Line 1 on Device SEP00124362B4C5

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

Message Waiting Lamp Policy*

Ring Setting (Phone Idle)*

Ring Setting (Phone Active) 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*

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

Forwarded Call Information Display on Device SEP00124362B4C5

☒ Caller Name

☒ Caller Number

☒ Redirected Number

☒ Dialed Number

Done

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 Administration

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

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



Service Parameters Configuration 2

Service Parameter Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

CDR Enabled Flag *	False	False
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

Start Router - Hy... Service Pa... C:\Documen... Avaya Site ... Clarinet - M... Document6 ... Local intranet 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

Start Router - Hy... Service Pa... C:\Documen... Avaya Site ... Clarinet - M... Document6 ... Local intranet 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)

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 Arrives	Only Apply Ring Setting of Busy Station When 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

Start Router - Hy... Service Pa... C:\Documen... Avaya Site ... Clarinet - M... Document6 ... Local intranet 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 indicator value - 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 indicator IE
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

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



Service Parameters Configuration 6

Service Parameter Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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 TspReq Retry *	2	2
H225 Intercluster Call Throttle Timer *	30	30
H225 T301 Timer *	180000	180000

Done

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



Service Parameters Configuration 7

Service Parameter Configuration - Microsoft Internet Explorer

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 passed
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 URO 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 URO *	1	1
Send Product ID and Version ID *	False	False
Send Progress Timer *	3000	3000

Done

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



Service Parameters Configuration 8

Service Parameter Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Retry Count for URQ *	<input type="text" value="1"/>	1
Send Product ID and Version ID *	<input type="text" value="False"/>	False
Send Progress Timer *	<input type="text" value="3000"/>	3000
Send H225 User Info Message *	<input type="text" value="User Info for Call Progress Tone"/>	User Info for Call Progress Tone
Status Enquiry Poll Timer *	<input type="text" value="10000"/>	10000
Device Name of GK-controlled Trunk That Will Use Port 1720 *	<input type="text" value="None"/>	None
Host Name/IP Address of GK That Will Use RAS UDP Port 1719 *	<input type="text" value="None"/>	None
Fail Call If MTP Allocation Fails *	<input type="text" value="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 *	<input type="text" value="10"/>	10
Retry Count for SIP Cancel *	<input type="text" value="10"/>	10
Retry Count for SIP Invite *	<input type="text" value="6"/>	6
Retry Count for SIP PRACK *	<input type="text" value="6"/>	6
Retry Count for SIP Rel1XX *	<input type="text" value="10"/>	10
Retry Count for SIP Response *	<input type="text" value="6"/>	6
SIP Connect Timer *	<input type="text" value="500"/>	500
SIP Disconnect Timer *	<input type="text" value="500"/>	500
SIP Expires Timer *	<input type="text" value="180000"/>	180000
SIP PRACK Timer *	<input type="text" value="500"/>	500
SIP Rel1XX Timer *	<input type="text" value="500"/>	500
SIP Trying Timer *	<input type="text" value="500"/>	500
SIP Rel1XX Enabled *	<input type="text" value="False"/>	False

Done

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



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 TspReq 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

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



Service Parameters Configuration 10

Service Parameter Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

[Drop Ad Hoc Conference *](#) Never Never

Clusterwide Parameters (Feature - Forward)

[Forward Maximum Hop Count *](#) 12 12

[Forward No Answer Timer *](#) 12 12

[Max Forward Hops to DN *](#) 12 12

[Retain Forward Information *](#) False False

[Forward By Reroute Enabled *](#) False False Set TRUE to enable Forward by Reroute

[Transform Forward by Reroute Destination *](#) True True

[Always Forward Switch Voice Mail Calls *](#) True True

[Forward By Reroute T1 Timer *](#) 10 10

[Include Original Called Info for Q.SIG Call Diversions *](#) Only after the first diversion Only after the first diversion

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

Clusterwide Parameters (Feature - Call Pickup)

[Auto Call Pickup Enabled *](#) False False

[Call Pickup Locating Timer *](#) 1 1

[Call Pickup No Answer Timer *](#) 12 12

Clusterwide Parameters (Feature - Refer)

[Validate Refer-to URL *](#) Validate Except for Anonymous Users Validate Except for Anonymous User

Clusterwide Parameters (Feature - Replaces)

[Block OffNet To OffNet Replaces *](#) False False

Clusterwide Parameters (Feature - Redirection [3xx])

[Redirection Ring No Answer Reversion Timer *](#) 24 24

[Maximum Redirection Count *](#) 70 70

Clusterwide Parameters (Feature - Multitenant Queues and Queues)

Done Local intranet

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



Service Parameters Configuration 11

Service Parameter Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Redirection Ring No Answer Reversion Timer *	24	24
Maximum Redirection Count *	70	70

Clusterwide Parameters (Feature - Multilevel Precedence and Preemption)

Locations-based MLPP Enable *	False	False
Executive Override Call Preemptable *	False	False

Clusterwide Parameters (Feature - Path Replacement)

Path Replacement Enabled *	False	False
Path Replacement on Tromboned Calls *	True	True
Start Path Replacement Minimum Delay Time *	0	0
Start Path Replacement Maximum Delay Time *	0	0
Path Replacement T1 Timer *	30	30
Path Replacement T2 Timer *	15	15
Path Replacement PINX ID	6009	
Path Replacement Calling Search Space	< None >	

Clusterwide Parameters (Feature - Call Back)

Call Back Enabled Flag *	True	True
Call Back Notification Audio File Name *	CallBack.raw	CallBack.raw
Connection Proposal Type *	Connection Retention	Connection Retention
Connection Response Type *	Default to Connection Retention	Default to Connection Retention
Call Back Request Protection T1 Timer *	10	10
Call Back Recall T3 Timer *	10	20
Call Back Calling Search Space	< None >	
No Path Reservation *	True	True
Set Private Numbering Plan for Call Back *	False	False

Set TRUE to enable Path Replacement

Call Back Parameters

Done

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



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

Start Router - Hy... Service Pa... C:\Documen... Avaya Site ... Clarinet - M... Document6 ... Local intranet 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

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



Service Parameters Configuration 14

Service Parameter Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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)

Done

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



Service Parameters Configuration 15

Service Parameter Configuration - Microsoft Internet Explorer

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

Start Router - Hy... Service Pa... C:\Documen... Avaya Site ... Clarinet - M... Document6 ... Local intranet 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

Navigation Cisco Unified CallManager Administration

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

+ - X

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
<input type="checkbox"/>	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 Sett... Clarinet - Manager Dialog ... 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 Administration

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

Save Cancel Add

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... E1QSIGCCMscren... 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

i *- indicates required item.

Start Router - HyperTermi... Call Pickup Group ... C:\Documents and S... Clarinet - Manager D... E1QSIGCCMscren.... 1:47 PM



CallBack Softkey Template 1

Find and List Softkey Templates - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateFindList.do> Go

Navigation Cisco Unified CallManager Administration Logged in as: CCM

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

Find and List Softkey Templates

+ - X

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
<input type="checkbox"/> Standard User With Callback	Standard Softkey with CallBack Template

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

Local intranet 8:53 AM



CallBack Softkey Template 2

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: [Configure Softkey L](#)

Status
Status: Ready

Softkey Template Information

Name*

Description

Applications*

*- indicates required item.

Done Local intranet

Start 8:56 AM



CallBack Softkey Template 3

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: On Hook

Unselected Softkeys	Selected Softkeys (ordered by position)**
Conference List (ConfList)	Redial (Redial)
Direct Transfer (DirTrfr)	**NewCall (NewCall)
Group Pick Up (GPickUp)	Forward All (CfwdAll)
Immediate Divert (iDivert)	Call Back (CallBack)
Join (Join)	
Meet Me (MeetMe)	
Other Pickup (oPickup)	
Pick Up (PickUp)	
Quality Report Tool (QRT)	
Remove Last Conference Party (RmLstC)	
Select (Select)	
Undefined (Undefined)	
Video Mode Command (VidMode)	

Save Reset

Done Local intranet

Start [Icons] 8:57 AM



CallBack Softkey Template 4

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=1> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: **Connected**

Unselected Softkeys

- Immediate Divert (iDiver)
- Quality Report Tool (QRT)
- Undefined (Undefined)

Selected Softkeys (ordered by position)**

- Hold (Hold)
- **End Call (EndCall)
- Transfer (Trnsfer)
- Park (Park)
- Conference (Confrn)
- Conference List (Conflist)
- Select (Select)
- Join (Join)
- Direct Transfer (DirTrfr)
- Video Mode Command (VidMode)
- Toggle Malicious Call Trace (MCID)
- Remove Last Conference Party (RmLstC)

Save Reset

Done

Start

Local intranet

8:57 AM



CallBack Softkey Template 5

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=2> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: On Hold

Unselected Softkeys
Immediate Divert (iDivert)
Undefined (Undefined)

Selected Softkeys (ordered by position)**
**Resume (Resume)
NewCall (NewCall)
Direct Transfer (DirTrfr)
Select (Select)
Join (Join)

Save Reset

Done Local intranet

Start A VR S C T n T C L t Q p M D C C 8:58 AM



CallBack Softkey Template 6

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=3> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure Ring In

Unselected Softkeys
Immediate Divert (iDivert)
Undefined (Undefined)

Selected Softkeys (ordered by position)**
Answer (Answer)

Save Reset

Done Local intranet

Start A VR S C T n T C L t Q p M D C C 8:58 AM



CallBack Softkey Template 7

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Copy Paste

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=4> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: Off Hook

Unselected Softkeys
Other Pickup (oPickup)
Undefined (Undefined)

Selected Softkeys (ordered by position)**
Redial (Redial)
**End Call (EndCall)
Forward All (CfwdAll)
Pick Up (PickUp)
Group Pick Up (GPickUp)
Meet Me (MeetMe)

Save Reset

Done Local intranet 8:59 AM



CallBack Softkey Template 8

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Copy Paste

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=5> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: Connected Transfer

Unselected Softkeys
Quality Report Tool (QRT)
Undefined (Undefined)

Selected Softkeys (ordered by position)**
Undefined (Undefined)
End Call (EndCall)
**Transfer (Trnsfer)
Call Back (CallBack)

Save Reset

Done Local intranet 8:59 AM



CallBack Softkey Template 9

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Copy Paste

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=6> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: Digits After First

Unselected Softkeys
Undefined (Undefined)

Selected Softkeys (ordered by position)**
**Backward (<<)
End Call (EndCall)

Save Reset

Done Local intranet

Start A VR S T n T C L t Q p M D C C 8:59 AM



CallBack Softkey Template 10

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=7> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: Connected Conference

Unselected Softkeys
Quality Report Tool (QRT)
Undefined (Undefined)

Selected Softkeys (ordered by position)**
Undefined (Undefined)
End Call (EndCall)
**Conference (Confrn)

Save Reset

Done Local intranet

Start A. VR. S. T. n. T. C. L. t. Q. p. M. D. C. C. 9:00 AM



CallBack Softkey Template 11

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=8> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure Ring Out

Unselected Softkeys
Undefined (Undefined)

Selected Softkeys (ordered by position)**
Undefined (Undefined)
**End Call (EndCall)
Call Back (CallBack)
Direct Transfer (DirTrfr)

Save Reset

Done Local intranet

Start A VR S T n T C L t Q p M D C C 9:00 AM



CallBack Softkey Template 12

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=9> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure: Off Hook With Feature

Unselected Softkeys
Undefined (Undefined)

Selected Softkeys (ordered by position)**
Redial (Redial)
**End Call (EndCall)

Save Reset

Done Local intranet

Start A. VR. S. T. n. T. C. L. t. Q. p. M. D. C. C. 9:01 AM



CallBack Softkey Template 13

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=10> Go

Navigation Cisco Unified CallManager Administration

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

Softkey Template Configuration Related Links: Softkey Template Configuration

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User With Callback
Select a call state to configure Remote In Use

Unselected Softkeys
Conference Barge (cBarge)

Selected Softkeys (ordered by position)**
Barge (Barge)
NewCall (NewCall)

Save Reset

Done Local intranet

Start A. VR. S. T. n. T. C. L. t. Q. p. M. D. C. C. 9:01 AM



PSTN Route Pattern Configuration (Screen 1)

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

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

Navigation Cisco Unified CallManager Administration

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 Find

Save Cancel Add

Status
Status: Ready

Pattern Definition

Route Pattern* 91650XXXXXX

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* OnNet

☐ 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

Start Microsoft ... Presentat... Router - ... Avaya Sit... Remote D... Cisco Em... Route P... C:\Docum... 2:51 PM



PSTN Configuration (Screen 2)

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

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*

Calling Name Presentation*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

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"/>

Save Delete Copy Add New

*- indicates required item.

Done

Start Micros... Prese... Route... Away... Remo... Cisco ... Rout... C:\Do... 41543... Docu... Local intranet 2:52 PM



Voice Mail Profile Configuration 1

Find and List Voice Mail Profiles - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/vmProfileFindList.do> Go Links

Navigation Cisco Unified CallManager Administration

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 Profiles

+ - X

Status
2 records found

Search Options
Find Voice Mail Profile where Voice Mail Profile Name begins with **Find** ☐ Search Within Results
(voicemailprofile.name begins with any)

Search Results

	Name	Description	Pilot	Calling Search Space
	Default	Default voice messaging profile	6090	
	NoVoiceMail	No Voice Mail		

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

Start | Find and List Voice Mai... | Untitled - Notepad | CS101_Nortel Configurati... | 10:21 AM



Voice Mail Profile Configuration 2

Voice Mail Profile Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/vmProfileEdit.do?key=16c584ea-6a81-4138-9ea1-af452de8f75a> Go Links

Navigation Cisco Unified CallManager Administration

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

Voice Mail Profile Configuration Related Links: Back To Find/Link

Save X Copy +

Status
Status: Ready

Voice Mail Profile Information

Voice Mail Profile Default (used by 4 devices)

Voice Mail Profile Name* Default

Description Default voice messaging profile

Voice Mail Pilot** 6090/< None >

Voice Mail Box Mask

☒ Make this the default Voice Mail Profile for the System

Save Delete Copy Reset Add New

i *- indicates required item.

i **. 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 >).

Done

Page 1 Sec 1 1/1 At 1" Ln 1 Col 34 REC TRK EXT OVR

Start Voice Mail Profile Confi... Untitled - Notepad CS101_Nortel Configurati... Document1 - Microsoft W... 10:24 AM



Voice Mail Pilot Configuration

Voice Mail Pilot Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address <https://172.20.235.254/ccmadmin/vmPilotEdit.do?key=88c24a06-1a2e-4007-83f8-c8c433695852> Go Links

Navigation Cisco Unified CallManager Administration

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

Voice Mail Pilot Configuration Related Links: Back To Find/Link

Status
Status: Ready

Voice Mail Pilot Information
Voice Mail Pilot Number: 6090
Calling Search Space: < None >
Description: Default
☒ Make this the default Voice Mail Pilot for the system

Save Delete Add New

*- indicates required item.

Done

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

Start Voice Mail Pilot Config... Untitled - Notepad CS101_Nortel Configurati... Document1 - Microsoft W... 10:24 AM



Voice Mail Port Configuration 1

Find and List Voice Mail Ports - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

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

Navigation Cisco Unified CallManager Administration

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

+ - X

Status
4 records found

Search Options
Find Voice Mail Port where Device Name begins with Find Search Within Results
(device.name begins with any)

Search Results

Device Name	Description	Device Pool	SCCP Security Profile	Status	IP Address
<input type="checkbox"/> SaturnUM1-VI1	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
<input type="checkbox"/> SaturnUM1-VI2	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
<input type="checkbox"/> SaturnUM1-VI3	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
<input type="checkbox"/> 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

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 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

Voice Mail Port Configuration Related Links: Back To Find/Li

✖ ✖ ✖ ✖ ✖

Status
Status: Ready

Device Information
Registration Registered with Cisco Unified CallManager CM-SATURN
IP Address 172.20.239.252
Port Name* SaturnUM1-V11
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

Done Local intranet

Page 4 Sec 1 4/4 At 5.5" Ln 2 Col 31 REC TRK EXT OVR

Start Voice Mail Port Config... Untitled - Notepad CS101_Nortel Configurati... Document1 - Microsoft W... 10:26 AM



Voice Mail Port Configuration 3

Voice Mail Port Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Save Cancel Back Forward

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

i *- indicates required item.

Done

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

Find and List Message Waiting Numbers - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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 Message Waiting Numbers

+ - X

Status
2 records found

Search Options
Find Message Waiting Numbers where Directory Number begins with Find Search Within Results
and where Message Waiting Indicator is Both
(numplan.dnorpattern begins with any)

Search Results

	Directory Number	Description	Partition	Calling Search Space
<input type="checkbox"/>	6098	MWI On		
<input type="checkbox"/>	6099	MWI Off		

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

Done

Page 6 Sec 1 6/6 At 1" Ln 1 Col 2 REC TRK EXT OVR

Start Find and List Message ... Untitled - Notepad CS101_Nortel Configurati... Document1 - Microsoft W... 10:29 AM



MWI Configuration 2

Message Waiting Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Navigation Cisco Unified CallManager Administration

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

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 Administration

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

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... 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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