



Cisco Unified CallManager Release 5.0-PBX Interoperability: Nortel CS1000M Release 4.0 to a Cisco 3845 Gateway Using T1-QSIG with MGCP

Table of Contents

Introduction	2
Network Topology.....	2
Limitations.....	3
Call Completion to Busy Subscriber	3
Call Completion on No Reply	3
Path Replacement for Call Diversion by Forward.....	3
System Components	3
Hardware Requirements	3
Software Requirements	3
Features	3
Features Supported.....	3
Configuration.....	4
Configuring the Nortel Meridian 1 Option 11C PBX.....	4
Cisco Unified CallManager Configuration.....	16
Cisco 3845 Configuration.....	91
PSTN Gateway (Cisco 3745) Configuration	95
Acronyms	98



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 T1 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 3845 T1 QSIG link as MGCP gateway.

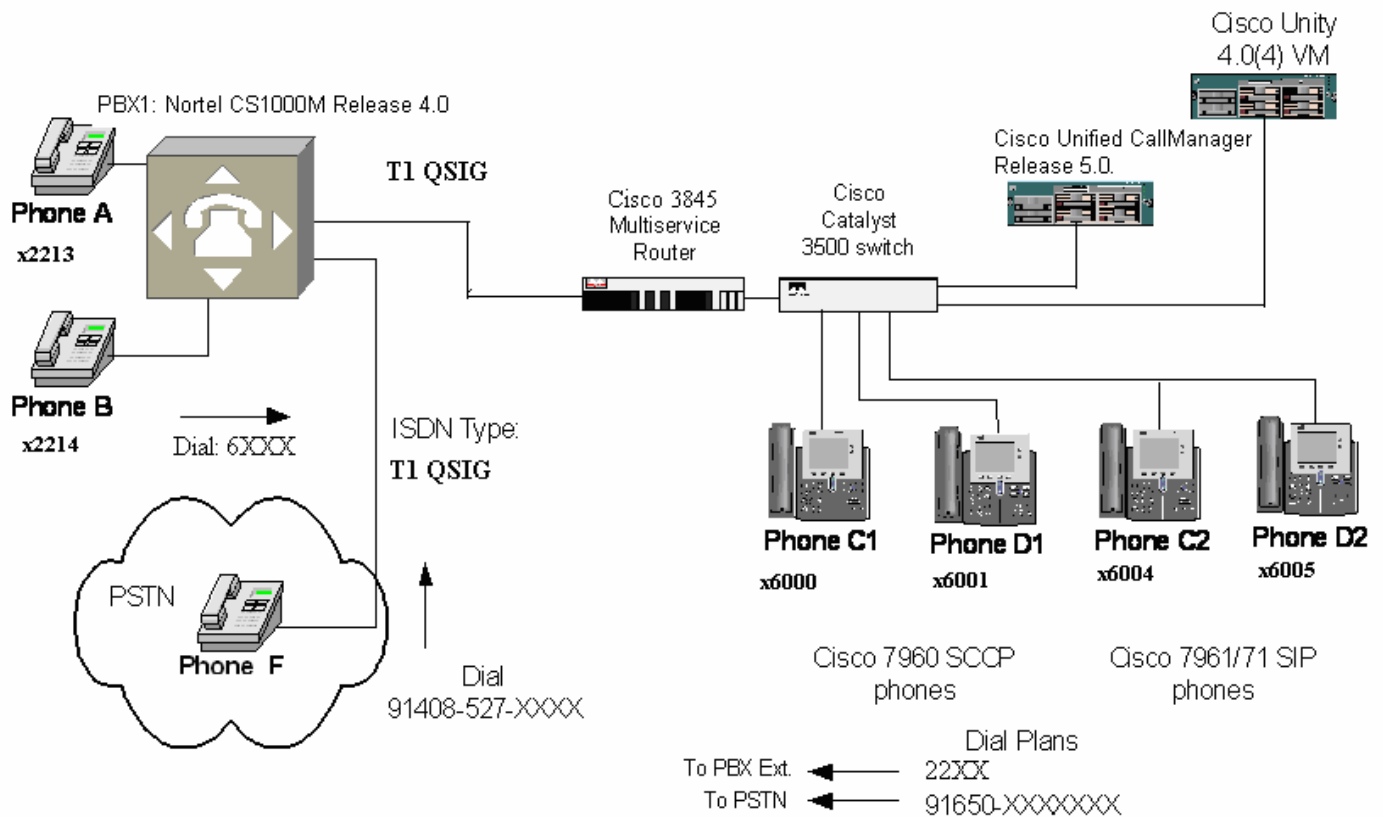
Connectivity is achieved by using the PRI QSIG T1 protocol type on the MGCP gateway and ISO QSIG switch type on the of Nortel CS1000M Release 4.0 PBX.

This Application Note uses the 3845 T1 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 PBX 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 1MFT-T1 on NM-HD-VE and VWIC2-2MFT-T1/E1 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

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  
*****
```

```
>ld 22  
PT2000
```

```
REQ prt  
TYPE cequ
```

CEQU

```
MPED 8D  
SUPL 000 004 008 012  
      016 032 036 040  
      044 048 064 068  
      072 V096 V100  
TDS 000  
CONF 029 030 031 062  
      094 095
```

```
DLOP NUM DCH FRM TMDI LCMT YALM T1TE TRSH  
PRI 02 24 ESF NO B8S FDL - 00  
     05 24 ESF NO B8S FDL - 00  
     06 23 ESF NO B8S FDL - 00  
     07 23 ESF NO B8S FDL - 00  
PRI2 04  
DTI2  
MISP
```

REQ

```
*****  
D-Channel Configuration  
*****
```

```
REQ prt  
TYPE adan dch 5
```

```
ADAN DCH 5  
CTYP MSDL  
CARD 05  
PORT 1  
DES appnote  
USR PRI  
DCHL 5  
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 **
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 NO
OVLN NO
T310 120
T200 3
T203 10
N200 3
N201 260
K 7
```

```
*****
Route Data Block Configuration
*****
```

```
>ld 21
PT1000
```

```
REQ: prt
TYPE: rdb
CUST 0
ROUT 105
```

```
TYPE RDB
CUST 00
DMOD
ROUT 105
DES
TKTP TIE
NPID_TBL_NUM 0
ESN NO
CNVT NO
SAT NO
RCLS EXT
VTRK NO
NODE
DTRK YES
BRIP NO
DGTP PRI
ISDN YES
  MODE PRA
  IFC ISGF
  SBN NO
  PNI 00001
  NCNA NO
```



NCRD NO
CHTY BCH
CTYP UKWN
INAC NO
ISAR NO
CPFXS YES
DAPC NO
INTC NO
DSEL VOD
PTYP PRI
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH RRB
TRMB YES
STEP
ACOD 505
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

PAGE 002

VSS 0
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:

Digital Station Configuration

REQ: prt
TYPE: 2616
TN 01 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 FND 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 RCB
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 OCB
D 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 ZEUS_2213
      XPLN 9
      DISPLAY_FMT FIRST, LAST
01
02
03 CFW 4 5213
04 AO6
05 TRN
06
07
08
09
10
11
12
13 MIK
14 MCK
15 RGA
DATE 17 MAY 2006
```

```
NACT
*****
Route List Block COnfiguration
*****
```

```
REQ prt
CUST 0
FEAT rlb
RLI 5

RLI 5
ENTR 0
LTER NO
ROUT 105
TOD 0 ON 1 ON 2 ON 3 ON
     4 ON 5 ON 6 ON 7 ON
```



VNS NO
CNV NO
EXP NO
FRL 0
DMI 0
FCI 0
FSNI 0
SBOC NRR
IDBB DBD
IOHQ NO
OHQ NO
CBQ NO

ISET 0
NALT 5
MFRL 0
OVLL 0

MEM AVAIL: (U/P): 2818389 USED U P: 208053 70133 TOT: 3096575
DISK RECS AVAIL: 1152
REQ

Coordinated Dialing Plac (CDP) configuration

>ld 87
ESN000

MEM AVAIL: (U/P): 2818389 USED U P: 208053 70133 TOT: 3096575
DISK RECS AVAIL: 1152
REQ prt
CUST 0
FEAT cdp
TYPE dsc
DSC 521
DSC 521
FLEN 0
DSP LSC
RLI 5
NPA
NXX

MEM AVAIL: (U/P): 2818389 USED U P: 208053 70133 TOT: 3096575
DISK RECS AVAIL: 1152
REQ prt
CUST 0
FEAT cdp
TYPE dsc
DSC 600
DSC 600
FLEN 0



DSP LSC
RLI 6
NPA
NXX

Software Release

>ld 22
PT2000

REQ iss

CALL SERVER/MAIN CAB
VERSION 2121
RELEASE 4
ISSUE 00 T +
IDLE_SET_DISPLAY NORTEL

Features / Packages Installed

REQ prt	
TYPE pkg	
OPTF	1
CUST	2
CDR	4
CTY	5
RAN	7
TAD	8
DNDI	9
EES	10
INTR	11
ANI	12
ANIR	13
BRTE	14
DNDG	16
MSB	17
SS25	18
DDSP	19
ODAS	20
DI	21
CHG	23
CAB	24
BAUT	25
CASM	26
CASR	27
BQUE	28
NTRF	29
NCOS	32
CPRK	33



SSC	34
IMS	35
UST	35
UMG	35
ROA	36
NSIG	37
MCBQ	38
NSC	39
BACD	40
ACDB	41
ACDC	42
LMAN	43
MUS	44
ACDA	45
MWC	46
AAB	47
GRP	48
NFCR	49
LNK	51
FCA	52
SR	53
AA	54
HIST	55
AOP	56
BARS	57
NARS	58
CDP	59
PQUE	60
FCBQ	61

PAGE 001

OHQ	62
NAUT	63
SNR	64
NXFR	67
HOT	70
DHLD	71
LSEL	72
SS5	73
DRNG	74
PBXI	75
DLDN	76
CSL	77
OOD	79
SCI	80
CCOS	81
CDRQ	83
TENS	86
FTDS	87
DSET	88
TSET	89



LNR	90
DLT2	91
PXLT	92
SUPV	93
CPND	95
DNIS	98
BGD	99
RMS	100
MR	101
AWU	102
PMSI	103
LLC	105
MCT	107
ICDR	108
APL	109
TVS	110
TOF	111
IDC	113
DCP	115
PAGT	116
CBC	117
CCDR	118
EMUS	119
PLDN	120
SCMP	121
FTC	125
BKI	127
DTI2	129
TBAR	132
ENS	133
FFC	139
DCON	140
MPO	141
ISDN	145
PRA	146
ISL	147
NTWK	148
IEC	149
DNXP	150
CDRE	151
FXS	152

PAGE 002

IAP3P	153
PRI2	154
THF	157
FGD	158
NAS	159
FNP	160
ISDN_INTL_SUP	161
SAR	162



MINT	163
LAPW	164
GPRI	167
ARIE	170
CPGS	172
ECCS	173
AAA	174
NMS	175
EOVF	178
HVS	179
DKS	180
SACP	181
VNS	183
OVL	184
EDRG	185
POVR	186
SECL	191
ORC-RVQ	192
AINS	200
IPRA	202
XPE	203
XCT0	204
XCT1	205
MLWU	206
HSE	208
MLM	209
MAID	210
VAWU	212
EAR	214
ECT	215
BRI	216
IVR	218
MWI	219
MSDL	222
FC68	223
SSAU	229
BRIT	233
FCDR	234
BRIL	235
MCMO	240
MULTI_USER	242
ALRM_FILTER	243
SYS_MSG_LKUP	245
VMBA	246
CALL_ID	247
DPNA	250
SCDR	251
ARFW	253
PHTN	254
ADMINSET	256
ATX	258
CDRX	259
QSIG	263



PAGE 003

NI-2	291
IPEX	295
MAT	296
CPP	301
QSIGGF	305
CPRKNET	306
PAGENET	307
CPCI	310
TATO	312
OPEN_ALARM	315
QSIG-SS	316
NGEN	324
RANBRD	327
MUSBRD	328
ESA	329
ESA_SUPP	330
ESA_CLMP	331
CNUMB	332
CNAME	333
NI-2_CBC	334
MEET	348
MC32	350
DBA	351
FDID	362
NMCE	364
STS_MSG	380
CDIR	381
VIRTUAL_OFFICE	382
ATAN	384
NI2NAME	385
M3900_PROD_ENH	386
VIR_OFF_ENH	387
OAS	394
ICON	397
PCA	398
H323_VTRK	399
LOCX	400
PVQM	401
SIP	406

REQ



Cisco Unified CallManager Configuration

CCM Gateway Configuration (Screen 1)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccmadmin/gatewayEdit.do?key=0ee1f947-81d9-0c57-65db-b8d8d6ada271`. The page title is "Gateway Configuration - Microsoft Internet Explorer".

The main navigation bar includes "Navigation" and "Cisco Unified CallManager Administration". The user is logged in as "CCM". The main menu includes: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help.

The "Gateway Configuration" section is active, showing a "Status: Ready" indicator. Below this, the "Gateway Details" section contains the following information:

- Product: Cisco 3845
- Gateway: 3845_West
- Protocol: MGCP
- Domain Name *: 3845_West
- Description: 3845_West
- Cisco Unified CallManager Group*: Default

The "Configured Slots, VICs and Endpoints" section displays the following configuration:

- Module in Slot 0: < None >
- Module in Slot 1: NM-HD-2VE
 - Subunit 0: < None >
 - Subunit 1: VIC-1MFT-T1 (1/1/0)
- Module in Slot 2: < None >
- Module in Slot 3: < None >
- Module in Slot 4: NM-HDV
 - Subunit 0: VIC2-2MFT-T1E1-T1 (4/0/0, 4/0/1)

The "Product Specific Configuration" section is currently collapsed.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 4:45 PM and the text "Local intranet".



CCM Gateway Configuration (Screen 2)

Gateway Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccmadmin/gatewayEdit.do?key=0ee1f947-81d9-0c57-65db-b8d8d6ada271>

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-1MFT-T1 1/1/ 0

Module in Slot 2: < None >

Module in Slot 3: < None >

Module in Slot 4: NM-HDV

Subunit 0: VIC2-2MFT-T1E1-T1 4/0/ 0 4/0/ 1

Product Specific Configuration

Global ISDN Switch Type: 4ESS

Switchback Timing *: Graceful

Switchback uptime-delay (min): 10

Switchback schedule (hh:mm): 12:00

Type Of DTMF Relay *: Current GW Config

Save Delete Reset Add New

*- indicates required item.

Done Local intranet

Start | VT Rou... | Clari... | Ava... | Qsig... | C:\D... | Pres... | Gat... | CCM... | untit... | Qsig... | 10:02 AM



CCM Gateway Configuration (Screen 3)

Find and List Gateway - Microsoft Internet Explorer

Address: https://172.20.235.254/ccmadmin/gatewayFindList.do?showEndpoints=3845_West

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

Find and List Gateway

Status
2 records found

Search Options
Find Gateways where Name ▾ contains ▾ @3845_West Show ▾ endpoints Find Search Within Results
(device.name contains @3845_West)

Search Results

	Device Name	Description	Device Pool	Calling Search Space	Ext.	Partition	Route Group	Priority	Port	Device Type	Status
<input type="checkbox"/>	S1/SU1/DS1-0@3845_West	S1/SU1/DS1-0@3845_West	Default							Cisco MGCP T1 Port	Registered with CM-SA
<input type="checkbox"/>	S4/SU0/DS1-0@3845_West	S4/SU0/DS1-0@3845_West	Default							Cisco MGCP T1 Port	Registered with CM-SA

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



CCM Gateway Configuration (Screen 4)

The screenshot shows the Cisco Unified CallManager Administration interface in a Microsoft Internet Explorer browser window. The address bar shows the URL: `https://172.20.235.254/ccmadmin/gatewayEdit.do?key=ed0e4343-bfe3-baac-4524-66881713cf07`. The page title is "Gateway Configuration - Microsoft Internet Explorer".

The main content area is titled "Gateway Configuration" and includes a "Navigation" menu with "Cisco Unified CallManager Administration" and "Logged in as: CCM". A secondary menu includes "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", "Bulk Administration", and "Help".

The "Gateway Configuration" section has a "Related Links" area with a link to "Back to MGCP Configu". Below this is a "Status" section showing "Status: Ready".

The "Device Information" section contains the following details:

- Product: Cisco MGCP T1 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 *: 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: (empty field)

There are two checkboxes at the bottom of the Device Information section: Transmit UTF-8 for Calling Party Name and V150 (subset).

The "Multilevel Precedence and Preemption (MLPP) Information" section is partially visible at the bottom, showing "MLPP Domain" and "Priority".

The Windows taskbar at the bottom shows the Start button, several open applications (Rou..., Clari..., Ava..., Qsig..., C:\D..., Pres..., Gat..., CCM..., untit..., Qsig...), and the system tray with the time 10:04 AM.



CCM Gateway Configuration (Screen 5)

Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media Print Mail

Address <https://172.20.235.254/ccmadmin/gatewayEdit.do?key=ed0e4343-bfe3-baac-4524-66881713cf07> Go Links

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

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain: < None >
MLPP Indication*: Off
MLPP Preemption*: Disabled

Interface Information

PRI Protocol Type*: PRI ISO QSIG T1
Protocol Side*: User
Channel Selection Order*: Top Down
Channel IE Type*: Timeslot Number
PCM Type*: μ -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*: Originatnr

Done Local intranet

Start | [Icons] | 10:32 AM



CCM Gateway Configuration (Screen 6)

Gateway Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccmadmin/gatewayEdit.do?key=ed0e4343-bfe3-baac-4524-66881713cf07

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
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

Done

Local intranet

Start | [Icons] | 10:32 AM



CCM 3845 Gateway Configuration (Screen 7)

Gateway Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccmadmin/gatewayEdit.do?key=ed0e4343-bfe3-baac-4524-66881713cf07

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

i *- indicates required item.
i ** - applies to DMS-100 protocol only.
i *** - applies to DMS-100 protocol and DMS-250 protocol only.
i **** - may be required to force ringback from some PBXs.
i ***** - Device reset is not required for changes to Packet Capture Mode and Packet Capture Duration.

Done Local intranet 10:32 AM



Phone Configuration for SCCP Phone (Screen 1)

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://172.20.235.254/ccadmin/phoneEdit.do?key=42b8a823-47da-4996-ac03-260ee9984a7d> Go

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

Status
Status: Ready

Association Information
Modify Button Items

- Line [1] - 6001 (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 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: [172.20.235.101](#)
MAC Address*: 00124362145B
Description: Auto 6001
Device Pool*: Default
Phone Button Template*: Standard 7960 SCCP
Softkey Template: <None >
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 >
Network Locale: <None >
Built In Bridge*: <None >

Local intranet 4:57 PM



Phone Configuration for SCCP Phone (Screen 2)

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://172.20.235.254/ccadmin/phoneEdit.do?key=42b8a823-47da-4996-ac03-260ee9984a7d> Go

Module 2 < None >
Module 2 Load Name

External Data Locations Information (Leave blank to use default)

Information
Directory
Messages
Services
Authentication Server
Proxy Server
Idle
Idle Timer (seconds)

Extension Information

Enable Extension Mobility
Log Out Profile -- Not Selected --
Login in User ID < None >
Log in Time < None >
Log out Time < None >

Certification Authority Proxy Function (CAPF) Information

Certificate Operation* No Pending Operation
Authentication String

Operation Completes By 2006 : 5 : 11 : 12 (YYYY:MM:DD:HH)
Certificate Operation Status: None

MLPP Information
MLPP Domain

Local intranet

Start | A.. | VT R.. | P.. | C.. | T.. | n.. | T.. | C.. | a.. | L.. | t.. | Q.. | p.. | M.. | D.. | C.. | C.. | VE | 4:58 PM



Phone Configuration for SCCP Phone (Screen 3)

Phone Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/phoneEdit.do?key=42b8a823-47da-4996-ac03-260ee9984a7d>

Operation Completed by: 2006 : 6 : 11 : 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

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



Phone Configuration for SIP phone (Screen 1)

Phone Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccmadmin/phoneEdit.do?key=dd415d9b-02dc-4cd1-af3f-cf6f4c9aef9b>

Navigation | Cisco Unified CallManager Administration | 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: Ready

Association Information	
Modify Button Items	
1	Line [1] - 6004 (no partition)
2	Line [2] - Add a new DN
3	Add a new SD
4	Add a new SD
5	Add a new SD
6	Add a new SD
----- Unassigned Associated Items -----	
7	Add a new SD
8	Add a new SURF
9	Add a new BLF SD
10	Privacy
11	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 6004
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

Done | Local intranet | 5:04 PM



Phone Configuration for SIP Phone (Screen 2)

Phone Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccmadmin/phoneEdit.do?key=dd415d9b-02dc-4cd1-af3f-cf64c9aef9b>

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

Done

Local intranet

Start | A.. | R.. | P.. | C.. | T.. | n.. | T.. | C.. | a.. | L.. | t.. | Q.. | p.. | M.. | D.. | C.. | C.. | Local intranet | 5:05 PM



Phone Configuration for SIP Phone (Screen 3)

Phone Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/phoneEdit.do?key=dd415d9b-02dc-4cd1-af3f-cf6f4c9aef9b>

Unattended Port
 Require DTMF Reception

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:
Login in User ID:
Log in Time:
Log out Time:

Certification Authority Proxy Function (CAPF) Information

Certificate Operation*:
Authentication String:

Operation Completes By: : : : (YYYY:MM:DD:HH)
Certificate Operation Status: None

MLPP Information

MLPP Domain:

Done Local intranet

Start 5:05 PM



Phone Configuration for SIP Phone (Screen 4)

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address <https://172.20.235.254/ccmadmin/phoneEdit.do?key=dd415d9b-02dc-4cd1-af3f-cf6f4c9aef9b> Go

Generate String

Operation Completes By : : : (YYYY:MM:DD:HH)

Certificate Operation Status: None

MLPP Information

MLPP Domain

Secure Shell Information

Secure Shell User

Secure Shell Password

Product Specific Configuration Layout ?

Disable Speakerphone

Disable Speakerphone and Headset

PC Port *

Settings Access*

Gratuitous ARP*

PC Voice VLAN Access*

Video Capabilities*

Auto Line Select*

Web Access*

Span to PC Port*

Logging Display*

Load Server

Save Delete Copy Reset Add New

Done Local intranet

Start [Taskbar icons] 5:08 PM



Directory Number Configuration for SCCP Phone (Screen 1)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: <https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=63bb2216-321a-4fcb-9efa-765688d62a2a&mapkey=285c18b9-2d59-4f00-9f94-2e1319f470e2&devicekey=42b8a823->

The page title is "Directory Number Configuration - Microsoft Internet Explorer". The navigation bar includes "Navigation" and "Cisco Unified CallManager Administration". The main header displays "Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions" and "Logged in as: CCM".

The "Directory Number Configuration" section is active, showing a "Status" of "Ready". A note states: "Changes to Line or Directory Number settings require restart." The "Directory Number Information" section contains the following fields:

- Directory Number*: 6001
- Route Partition: < None >
- Description: (empty)
- Alerting Name: SATURN-1 (Alert)
- ASCII Alerting Name: SATURN-1 (Alert)
- Allow Control of Device from CTI

Under "Associated Devices", a list contains the device ID "SEP00124362145B". To the right of this list are buttons for "Edit Device" and "Edit Line Appearance". Below the list are expand/collapse arrows and a "Dissociate Devices" button.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "4:59 PM".



Directory Number Configuration for SCCP Phone (Screen 2)

Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=63bb2216-321a-4fcb-9efa-765688d62a2a&mapkey=285c18b9-2d59-4f00-9f94-2e1319f470e2&devicekey=42b8a823-

Associate Devices

Directory Number Settings

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

Calling Search Space: < None >

Presence Group*: Standard Presence group

AAR Group: < None >

User Hold Audio Source: < None >

Network Hold Audio Source: < None >

Auto Answer*: Auto Answer Off

Call Forward and Call Pickup Settings

	Voice Mail Destination	Calling Search Space
Forward All	<input type="checkbox"/> or []	< None >
Secondary Calling Search Space for Forward All		< None > Find
Forward Busy Internal	<input type="checkbox"/> or []	< None >
Forward Busy External	<input type="checkbox"/> or []	< None >
Forward No Answer Internal	<input type="checkbox"/> or []	< None >
Forward No Answer External	<input type="checkbox"/> or []	< None >
Forward No Coverage Internal	<input type="checkbox"/> or []	< None >
Forward No Coverage External	<input type="checkbox"/> or []	< None >
Forward on CTI Failure	<input type="checkbox"/> or []	< None >
No Answer Ring Duration (seconds)	[]	
Call Pickup Group		< None >

Done Local intranet 4:59 PM



Directory Number Configuration for SCCP Phone (Screen 3)

Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=63bb2216-321a-4fcb-9efa-765688d62a2a&mapkey=285c18b9-2d59-4f00-9f94-2e1319f470e2&devicekey=42b8a823-

No Answer Ring Duration (seconds)

Call Pickup Group

MLPP Alternate Party Settings

Target (Destination)

MLPP Calling Search Space

MLPP No Answer Ring Duration (seconds)

Line 1 on Device SEP00124362145B

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 SEP00124362145B

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 SEP00124362145B

Caller Name



Directory Number Configuration for SCCP Phone (Screen 4)

Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=63bb2216-321a-4fcb-9efa-765688d62a2a&mapkey=285c18b9-2d59-4f00-9f94-2e1319f470e2&devicekey=42b8a823-

Line 1 on Device SEP00124362145B

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 SEP00124362145B

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 SEP00124362145B

Caller Name

Caller Number

Redirected Number

Dialed Number

Save Delete Copy Reset Add New

*- indicates required item.



Directory Number Configuration for SIP phone (Screen 1)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccmadmin/directoryNumberEdit.do?key=e756119e-bbe5-4aee-a612-6269be6193ba&mapkey=6e68e8e8-3629-40aa-ae44-3407462d0a30&devicekey=dd415d...`

The page title is "Directory Number Configuration - Microsoft Internet Explorer". The main header displays "Cisco Unified CallManager Administration" with the tagline "For Cisco IP Telecommunication Solutions" and "Logged in as: CCM". A navigation menu includes: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help.

The "Directory Number Configuration" section is active, showing a "Status: Ready" message and a note: "Changes to Line or Directory Number settings require restart." Below this, the "Directory Number Information" section contains the following fields:

Directory Number*	6004
Route Partition	< None >
Description	6004 SIP
Alerting Name	SATURN-4 (Alert)
ASCII Alerting Name	SATURN-4 (Alert)

The "Allow Control of Device from CTI" checkbox is checked. Under "Associated Devices", a list contains the device ID "SEP00170EEE3279". To the right of this list are two buttons: "Edit Device" and "Edit Line Appearance". Below the list is a "Dissociate Devices" section with an empty text box.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "5:09 PM".



Directory Number Configuration for SIP Phone (Screen 2)

Directory Number Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccmadmin/directoryNumberEdit.do?key=e756119e-bbe5-4aee-a612-6269be6193ba&mapkey=6e68e8e8-3629-40aa-ae44-3407462d0a30&devicekey=dd415d>

Dissociate Devices

Directory Number Settings

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

Call Forward and Call Pickup Settings

	Voice Mail Destination	Calling Search Space
Forward All	<input type="checkbox"/> or	< None >
Secondary Calling Search Space for Forward All		< None > Find
Forward Busy Internal	<input type="checkbox"/> or	< None >
Forward Busy External	<input type="checkbox"/> or	< None >
Forward No Answer Internal	<input type="checkbox"/> or	< None >
Forward No Answer External	<input type="checkbox"/> or	< None >
Forward No Coverage Internal	<input type="checkbox"/> or	< None >
Forward No Coverage External	<input type="checkbox"/> or	< None >
Forward on CTI Failure	<input type="checkbox"/> or	< None >
No Answer Ring Duration (seconds)		
Call Pickup Group		< None >

Done Local intranet 5:11 PM



Directory Number Configuration for SIP Phone (Screen 3)

Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccmadmin/directoryNumberEdit.do?key=e756119e-bbe5-4aee-a612-6269be6193ba&mapkey=6e68e8e8-3629-40aa-ae44-3407462d0a30&devicekey=dd415d5

No Answer Ring Duration (seconds)

Call Pickup Group

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



Directory Number Configuration for SIP Phone (Screen 4)

Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccmadmin/directoryNumberEdit.do?key=e756119e-bbe5-4aee-a612-6269be6193ba&mapkey=6e68e8e8-3629-40aa-ae44-3407462d0a30&devicekey=dd415d

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

Save Delete Copy Reset Add New

i *- indicates required item.

Done Local intranet

Start A.. VT R.. D.. C.. T.. n.. T.. C.. a.. L.. t.. Q. p.. M. D. C. V. 5:12 PM



CallBack Softkey Template (Screen 1)

Find and List Softkey Templates - Microsoft Internet Explorer

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

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

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

Find and List Softkey Templates

Status
6 records found

Search Options
Find Softkey Template where begins with Search Within Results
and where Softkey Template is
(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

Rows per Page



CallBack Softkey Template (Screen 2)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser title is "Softkey Template Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.235.254/ccadmin/softkeyTemplateEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4>. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu contains: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Softkey Template Configuration" and includes a "Related Links" section with "Configure Softkey L". Below this is a toolbar with icons for Save, Delete, Copy, Add New, and Reset. The "Status" section shows "Status: Ready". The "Softkey Template Information" section contains the following fields:

- Name*: Standard User With Callback
- Description: Standard Softkey with CallBack Template
- Applications*: Cisco CallManager

There are two buttons: "Add Application" and "Remove Application". At the bottom left, an information icon is followed by the text "*- indicates required item." The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 8:56 AM.



CallBack Softkey Template (Screen 3)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4`. The page title is "Softkey Template Configuration - Microsoft Internet Explorer".

The main navigation bar includes "Cisco Unified CallManager Administration" and "For Cisco IP Telecommunication Solutions". The user is logged in as "CCM". The navigation menu includes: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help.

The page content is titled "Softkey Template Configuration" and includes a "Related Links" section with "Softkey Template Configu".

Status
Status: Ready

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

Unselected Softkeys

- Conference List (ConfList)
- Direct Transfer (DirTrfr)
- Group Pick Up (GPickUp)
- Immediate Divert (iDivert)
- 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)

Selected Softkeys (ordered by position)**

- Redial (Redial)
- **NewCall (NewCall)
- Forward All (CfwdAll)
- Call Back (CallBack)

Buttons: Save, Reset

The Windows taskbar at the bottom shows the Start button, several open applications, and the system tray with the time 8:57 AM.



CallBack Softkey Template (Screen 4)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser title is "Softkey Template Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=1>. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Softkey Template Configuration" and shows a "Status: Ready" message. Below this, the "Softkey Layout Configuration" section is active, displaying "Softkey Template: Standard User With Callback" and "Select a call state to configure: Connected". Two columns of softkeys are shown: "Unselected Softkeys" (Immediate Divert (iDivert), Quality Report Tool (QRT), Undefined (Undefined)) and "Selected Softkeys (ordered by position)**" (Hold (Hold), **End Call (EndCall), Transfer (Tmsfer), 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" and "Reset" buttons are located at the bottom of the configuration area. The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 8:57 AM.



CallBack Softkey Template (Screen 5)

The screenshot displays the Cisco Unified CallManager Administration web interface. The browser window title is "Softkey Template Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=2>. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Softkey Template Configuration" and shows a "Status: Ready" message. Below this, the "Softkey Layout Configuration" section is active, displaying "Softkey Template: Standard User With Callback" and "Select a call state to configure: On Hold". Two columns are shown: "Unselected Softkeys" containing "Immediate Divert (iDivert)" and "Undefined (Undefined)", and "Selected Softkeys (ordered by position)**" containing "**Resume (Resume)", "NewCall (NewCall)", "Direct Transfer (DirTrf)", "Select (Select)", and "Join (Join)". Navigation arrows are present between the columns. At the bottom of the configuration area are "Save" and "Reset" buttons. The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "8:58 AM".



CallBack Softkey Template (Screen 6)

Softkey Template Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: <https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0d8e383e4&callState=3>

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 Configu](#)

Status
Status: Ready

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

Unselected Softkeys	Selected Softkeys (ordered by position)**
Immediate Divert (iDivert) Undefined (Undefined)	Answer (Answer)

Save Reset

Done Local intranet 8:58 AM



CallBack Softkey Template (Screen 7)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser title is "Softkey Template Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=4>. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Softkey Template Configuration" and shows a "Status: Ready" message. Below this, the "Softkey Layout Configuration" section is active, displaying "Softkey Template: Standard User With Callback" and "Select a call state to configure: Off Hook". Two columns are shown: "Unselected Softkeys" containing "Other Pickup (oPickup)" and "Undefined (Undefined)", and "Selected Softkeys (ordered by position)**" containing "Redial (Redial)", "**End Call (EndCall)", "Forward All (CfwdAll)", "Pick Up (PickUp)", "Group Pick Up (GPickUp)", and "Meet Me (MeetMe)". Navigation arrows are present between the columns. At the bottom of the configuration area are "Save" and "Reset" buttons. The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "8:59 AM".



CallBack Softkey Template (Screen 8)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=5`. The page title is "Softkey Template Configuration - Microsoft Internet Explorer".

The main content area is titled "Softkey Template Configuration" and includes a navigation menu with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The configuration page shows the following details:

- 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 (Tmsfer), Call Back (CallBack)

At the bottom of the configuration area, there are "Save" and "Reset" buttons.



CallBack Softkey Template (Screen 9)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=6`. The page title is "Softkey Template Configuration".

The interface includes a navigation menu with the following items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The main content area is titled "Softkey Template Configuration" and includes a "Related Links" section with a link to "Softkey Template Configu".

The configuration section is divided into two main parts:

- Status:** Shows "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)

At the bottom of the configuration area, there are "Save" and "Reset" buttons.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 8:59 AM.



CallBack Softkey Template (Screen 10)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser title is "Softkey Template Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=7>. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Softkey Template Configuration" and shows a status of "Ready". Under "Softkey Layout Configuration", the "Softkey Template" is set to "Standard User With Callback" and the "Call state" is "Connected Conference". Two columns of softkeys are shown: "Unselected Softkeys" (Quality Report Tool (QRT), Undefined (Undefined)) and "Selected Softkeys (ordered by position)**" (Undefined (Undefined), End Call (EndCall), **Conference (Confrn)). "Save" and "Reset" buttons are at the bottom of the configuration area. The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "9:00 AM".



CallBack Softkey Template (Screen 11)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=8`. The page title is "Softkey Template Configuration - Microsoft Internet Explorer".

The interface includes a navigation menu with the following items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The main content area is titled "Softkey Template Configuration" and includes a "Related Links" section with a link to "Softkey Template Configu".

The "Status" section shows "Status: Ready".

The "Softkey Layout Configuration" section is active, showing "Softkey Template: Standard User With Callback". A dropdown menu is set to "Ring Out".

There are two columns for softkey configuration:

- Unselected Softkeys:** Contains one entry: "Undefined (Undefined)".
- Selected Softkeys (ordered by position)**:** Contains four entries: "Undefined (Undefined)", "**End Call (EndCall)", "Call Back (CallBack)", and "Direct Transfer (DirTfr)".

Navigation arrows (right-pointing and left-pointing chevrons) are located between the two columns. At the bottom of the configuration area, there are "Save" and "Reset" buttons.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "9:00 AM".



CallBack Softkey Template (Screen 12)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=9`. The page title is "Softkey Template Configuration - Microsoft Internet Explorer".

The main content area is titled "Softkey Template Configuration" and includes a navigation menu with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The configuration section shows the "Softkey Layout Configuration" for a "Standard User With Callback" template. A dropdown menu is set to "Off Hook With Feature".

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

At the bottom of the configuration area, there are "Save" and "Reset" buttons.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "9:01 AM".



CallBack Softkey Template (Screen 13)

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/softkeyTemplateLayoutEdit.do?key=2ccfd772-206d-2a91-cf58-49b0dbe383e4&callState=10`. The page title is "Softkey Template Configuration - Microsoft Internet Explorer".

The main navigation bar includes "Cisco Unified CallManager Administration" and "For Cisco IP Telecommunication Solutions". The user is logged in as "CCM". A navigation menu contains: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help.

The page content is titled "Softkey Template Configuration" with a "Related Links" section containing "Softkey Template Configu".

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)

Buttons: Save, Reset

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 9:01 AM.



Service Parameters Configuration (Screen 1)

The screenshot shows the Cisco Unified CallManager Administration interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccmadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0`. The page title is "Service Parameter Configuration - Microsoft Internet Explorer".

The navigation bar includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A menu bar contains: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help.

The main content area is titled "Service Parameter Configuration" and includes a "Related Links" section with "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

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 9:05 AM.



Service Parameters Configuration (Screen 2)

Service Parameter Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0

System

CDR Enabled Flag *	False	False
CDR Loq 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

Local intranet

9:06 AM



Service Parameters Configuration (Screen 3)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

CTI Dial Digits Interval *	<input type="text" value="250"/>	250
Retain Media on Disconnect with PI for Active Call *	<input type="checkbox" value="False"/>	False
Station and Backup Server KeepAlive Interval *	<input type="text" value="60"/>	60
Station KeepAlive Interval *	<input type="text" value="30"/>	30
Status Enquiry Poll Flag *	<input type="checkbox" value="False"/>	False
Strip # Sign from Called Party Number *	<input type="checkbox" value="True"/>	True
T301 Timer *	<input type="text" value="180000"/>	180000
T302 Timer *	<input type="text" value="15000"/>	15000
T303 Timer *	<input type="text" value="4000"/>	4000
T304 Timer *	<input type="text" value="30000"/>	30000
T305 Timer *	<input type="text" value="30000"/>	30000
T306 Timer *	<input type="text" value="30000"/>	30000
T308 Timer *	<input type="text" value="4000"/>	4000
T309 Timer *	<input type="text" value="90000"/>	90000
T310 Timer *	<input type="text" value="60000"/>	60000
T313 Timer *	<input type="text" value="4000"/>	4000
T316 Timer *	<input type="text" value="120000"/>	120000
T317 Timer *	<input type="text" value="100000"/>	100000
T321 Timer *	<input type="text" value="30000"/>	30000
T322 Timer *	<input type="text" value="4000"/>	4000
Tone on Hold Timer *	<input type="text" value="10"/>	10
Unknown Caller ID Flag *	<input type="checkbox" value="True"/>	True

Local intranet 9:06 AM



Service Parameters Configuration (Screen 4)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

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
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

Local intranet

9:06 AM



Service Parameters Configuration (Screen 5)

Service Parameter Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0

network Congestion, Pre-routing.

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

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

Local intranet

9:07 AM



Service Parameters Configuration (Screen 6)

The screenshot shows a web browser window titled "Service Parameter Configuration - Microsoft Internet Explorer". The address bar displays the URL: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>. The main content area is a configuration table with the following parameters:

Enable Display IE in CUBEsec b...	False	False
Enable Sending PRI NI2 Service Message *	False	False
Flash Hook Duration *	500	500
Gateway Poll Timer *	10	10
Location In PRI Progress Indicator IE (User Side Only) *	Use the Network Side PRI progress indicator IE	Use the Network Side PRI progress
Matching Calling Party with Attendant Flag *	False	False
MGCP Database Query Delay Timer *	1000	1000
MGCP FXS On-Hook Pending Timer *	3	3
MGCP Response Timer *	30	30
MGCP Timer *	3	3
Numbering Plan Info *	1	1
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
---	-------	-------

The browser's taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 9:07 AM and the text "Local intranet".



Service Parameters Configuration (Screen 7)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

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
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 ARO Timer *	3	3

Start | Local intranet | 9:07 AM



Service Parameters Configuration (Screen 8)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/cmadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

H323 Calling Party Number Screening Indicator *	Calling number screened and passed	Calling number screened and passed
Tone on Connect *	False	False
RAS ARO Timer *	3	3
RAS BRO Timer *	3	3
RAS DRQ Timer *	3	3
RAS RRO Timer *	3	3
Ras URO Timer *	3	3
Retry Count for ARO *	2	2
Retry Count for BRO *	2	2
Retry Count for DRQ *	2	2
Retry Count for RRO *	2	2
Retry Count for URO *	1	1
Send Product ID and Version ID *	False	False
Send Progress Timer *	3000	3000
Send H225 User Info Message *	User Info for Call Progress Tone	User Info for Call Progress Tone
Status Enquiry Poll Timer *	10000	10000
Device Name of GK-controlled Trunk That Will Use Port 1720 *	None	None
Host Name/IP Address of GK That Will Use RAS UDP Port 1719 *	None	None
Fail Call if MTP Allocation Fails *	False	False

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

Clusterwide Parameters (Device - SIP)

Retry Count for SIP Bye *	10	10
---	----	----

Local intranet

9:08 AM



Service Parameters Configuration (Screen 9)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

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
SIP Min-SE Value *	<input type="text" value="1800"/>	1800
SIPS URI Handling *	<input type="text" value="Reject"/>	Reject
SIP statistics Periodic update Timer *	<input type="text" value="2"/>	2
SIP Session Expires Timer *	<input type="text" value="1800"/>	1800
SIP Trunk TspReq Retry *	<input type="text" value="2"/>	2

Clusterwide Parameters (Feature - General)

Call Park Display Timer *	<input type="text" value="10"/>	10
---	---------------------------------	----

Local intranet

9:08 AM



Service Parameters Configuration (Screen 10)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

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
Forward No Answer Timer *	12	12
Max Forward Hops to DN *	12	12
Retain Forward Information *	False	False
Forward By Reroute Enabled *	False	False
Transform Forward by Reroute Destination *	True	True
Always Forward Switched Voice Mail Calls *		True

Local intranet

9:08 AM



Service Parameters Configuration (Screen 11)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

Forward By Reroute Enabled * False set True to enable Forward by Reroute

Transform Forward by Reroute Destination * True

Always Forward Switch Voice Mail Calls * True

Forward By Reroute T1 Timer * 10

Include Original Called Info for Q.SIG Call Diversions * 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

Call Pickup Locating Timer * 1

Call Pickup No Answer Timer * 12

Clusterwide Parameters (Feature - Refer)

Validate Refer-to URI * Validate Except for Anonymous Users

Clusterwide Parameters (Feature - Replaces)

Block OffNet To OffNet Replaces * False

Clusterwide Parameters (Feature - Redirection [3xx])

Redirection Ring No Answer Reversion Timer * 24

Maximum Redirection Count * 70

Clusterwide Parameters (Feature - Multilevel Precedence and Preemption)

Locations-based MLPP Enable * False

Executive Override Call Preemptable * False

Clusterwide Parameters (Feature - Path Replacement)

Path Replacement Enabled * False

Local intranet

9:08 AM



Service Parameters Configuration (Screen 12)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

Executive Override Call Preemptable * False

Clusterwide Parameters (Feature - Path Replacement)

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

Clusterwide Parameters (Feature - Call Back)

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

Clusterwide Parameters (Route Plan)

- Stop Routing on Out of Bandwidth Flag *** False

Local intranet

9:09 AM



Service Parameters Configuration (Screen 13)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccmadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

[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

Clusterwide Parameters (System - General)



Service Parameters Configuration (Screen 14)

The screenshot shows the Service Parameter Configuration page in Microsoft Internet Explorer. The browser address bar displays the URL: `https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0`. The page content is organized into several sections:

- Silence Suppression for Gateways:** Two parameters are listed, both set to `False`.
- Strip G.729 Annex B (Silence Suppression) from Capabilities:** Set to `False`.
- Clusterwide Parameters (System - General):** A list of 14 parameters with their current values and default values:
 - `Always Use Dial Tone Setting`: Default
 - `Max Simultaneous Cisco CallManager Initializations`: 0
 - `Restart Cisco CallManager on Initialization Exception`: True
 - `Call Control Initialization Timer`: 90
 - `Calling Search Space Initialization Timer`: 900
 - `Digit Analysis Initialization Timer`: 900
 - `Database Initialization Timer`: 900
 - `Device Initialization Timer`: 360
 - `Digit Analysis Timer`: 6
 - `Directory Initialization Timer`: 90
 - `Media Initialization Timer`: 90
 - `Route Plan Initialization Timer`: 600
 - `Supplementary Services Initialization Timer`: 900
 - `Statistics Enabled`: True
 - `Time Of Day Initialization Timer`: 900
- Clusterwide Parameters (System - QOS):** Three parameters are listed:
 - `Priority Class`: Normal Priority
 - `DSCP for Audio Calls`: EF DSCP (101110)
 - `DSCP for Video Calls`: AF41 DSCP (100010)

At the bottom of the General section, a note states: "There are hidden parameters in this group. Click on Advanced button to see hidden parameters."

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 9:09 AM and the text "Local intranet".



Service Parameters Configuration (Screen 15)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

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)
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

Local intranet

9:09 AM



Service Parameters Configuration (Screen 16)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccmadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

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)

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

Local intranet

9:09 AM



Service Parameters Configuration (Screen 17)

Service Parameter Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/serviceParamEdit.do?server=b01110c7-e283-4431-a46e-d18f87801b92&service=0>

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



Enbloc Route Pattern Configuration (Screen 1)

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://172.20.235.254/ccadmin/routePattern2Edit.do?key=3841ea08-7207-ca53-1a40-65d5d5156319>

Navigation Cisco Unified CallMana

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions Logged in

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

Route Pattern Configuration Related Links: B:

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* 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

Done

Start | Local intranet



Enbloc Route Pattern Configuration (Screen 2)

Route Pattern Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/routePattern2Edit.do?key=3841ea08-7207-ca53-1a40-65d5d5156319>

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

i *- indicates required item.

Done Local intranet 9:12 AM



Overlap Route Pattern Configuration (Screen 1)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccmadmin/routePattern25ave.do`. The page title is "Route Pattern Configuration - Microsoft Internet Explorer".

The main navigation bar includes "Navigation" and "Cisco Unified CallManager Administration". The user is logged in as "CCM". A secondary navigation menu lists: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help.

Route Pattern Configuration

Related Links: [Back To Fin](#)

Status
Update successful

Pattern Definition

- Route Pattern*: 8.2
- 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*: 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

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 3:00 PM.



Overlap Route Pattern Configuration (Screen 2)

Route Pattern Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccmadmin/routePattern2Save.do

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 Local intranet 3:02 PM



Call Forward on Busy and Call Forward on No Reply (Screen 1)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=29b96465-52ad-45f7-498f-afa92513325a&mapkey=12354a6f-ac85-c2fc-69e9-2afa8bf773a0&devicekey=a27cced3-a`. The page title is "Directory Number Configuration - Microsoft Internet Explorer".

The interface includes a navigation bar with the following menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The main content area is titled "Directory Number Configuration" and includes a "Related Links" section with a button for "Back To Find/List".

The "Status" section shows "Status: Ready". A note indicates: "Changes to Line or Directory Number settings require restart."

The "Directory Number Information" section contains the following fields:

- Directory Number*: 6000
- Route Partition: < None >
- Description: (empty)
- Alerting Name: SATURN-0 (Alert)
- ASCII Alerting Name: SATURN-0 (Alert)

The "Allow Control of Device from CTI" checkbox is checked. Below this, the "Associated Devices" section shows a list with one device: SEP00124362B4C5. There are "Edit Device" and "Edit Line Appearance" buttons next to this device. Below the list, there are "Dissociate Devices" controls.

The Windows taskbar at the bottom shows the Start button, several open applications (including Router, Directory Nu..., and Microsoft Outlo...), and the system clock showing 10:12 AM on 10/12/2006.



Call Forward on Busy and Call Forward on No Reply (Screen 2)

Directory Number Configuration - Microsoft Internet Explorer

Address: <https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=29b96465-52ad-45f7-498f-afa92513325a&mapkey=12354a6f-ac85-c2fc-69e9-2afa8bf773a0&devicekey=a27cced3-a>

Description:

Alerting Name: SATURN-0 (Alert)

ASCII Alerting Name: SATURN-0 (Alert)

Allow Control of Device from CTI

Associated Devices

SEP00124362B4C5

▼ ▲

Dissociate Devices

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

Forward All: or

Secondary Calling Search Space for Forward All:

Forward Busy Internal: or

Done

Local intranet

Start | Router_Co... | Directory ... | C:\Docume... | Clarinet - M... | Microsoft O... | Qsig_mon_t... | CCM screen... | 10:14 AM



Call Forward on Busy and Call Forward on No Reply (Screen 3)

Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=29b96465-52ad-45f7-498f-afa92513325a&mapkey=12354a6f-ac85-c2fc-69e9-2afa8bf773a0&devicekey=a27cced3-a

Forward All	<input type="checkbox"/>	or	<input type="text" value=""/>	< None >
Secondary Calling Search Space for Forward All				< None > Find
Forward Busy Internal	<input type="checkbox"/>	or	<input type="text" value="6001"/>	< None >
Forward Busy External	<input type="checkbox"/>	or	<input type="text" value="6001"/>	< None >
Forward No Answer Internal	<input type="checkbox"/>	or	<input type="text" value="6001"/>	< None >
Forward No Answer External	<input type="checkbox"/>	or	<input type="text" value="6001"/>	< None >
Forward No Coverage Internal	<input type="checkbox"/>	or	<input type="text" value=""/>	< None >
Forward No Coverage External	<input type="checkbox"/>	or	<input type="text" value=""/>	< None >
Forward on CTI Failure	<input type="checkbox"/>	or	<input type="text" value=""/>	< None >
No Answer Ring Duration (seconds)	<input type="text" value=""/>			
Call Pickup Group	< None >			

MLPP Alternate Party Settings

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

Line 1 on Device SEP00124362B4C5

Display (Internal Caller ID)	<input type="text" value="SATURN-0"/>	Display text for a line appearance is intended for displaying text such as a name inst
	directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.	
ASCII Display (Internal Caller ID)	<input type="text" value="SATURN-0"/>	
Line Text Label	<input type="text" value=""/>	
ASCII Line Text Label	<input type="text" value=""/>	
External Phone Number Mask	<input type="text" value=""/>	
Message Waiting Lamp Policy*	<input type="text" value="Use System Policy"/>	



Call Forward on Busy and Call Forward on No Reply (Screen 4)

Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.235.254/ccadmin/directoryNumberEdit.do?key=29b96465-52ad-45f7-498f-afa92513325a&mapkey=12354a6f-ac85-c2fc-69e9-2afa8bf773a0&devicekey=a27cced3-a

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

*- indicates required item.

Done Local intranet

Start Router_Co... Directory ... C:\Docume... Clarinet - M... Microsoft O... Qsig_mon_t... CCM screen... 10:15 AM



Translation Pattern Configuration – Connected Name and Number Restrictions, COLR, CONR (Screen 1)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser's address bar shows the URL: `https://172.20.235.254/ccmadmin/translationEdit.do?key=7d298867-e024-5b63-fada-ade184247cb1`. The page title is "Translation Pattern Configuration - Microsoft Internet Explorer".

The interface includes a navigation bar with the following menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The main content area is titled "Translation Pattern Configuration" and includes a "Related Links" section with a "Back To Fin" link. Below this, there are icons for Save, Cancel, and Add.

Status: Status: Ready

Pattern Definition:

- Translation Pattern: 69XX
- 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*:

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 9:14 AM and the text "Local intranet".



Translation Pattern Configuration – Connected Name and Number Restrictions, COLR, CONR (Screen 2)

Translation Pattern 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/translationEdit.do?key=7d298867-e024-5b63-fada-ade184247cb1>

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*: Default

Connected Name Presentation*: Default

Set to Restricted to restrict the connected name and number

Called Party Transformations

Discard Digits: < None >

Called Party Transform Mask: 60XX

Prefix Digits (Outgoing Calls):

Save Delete Copy Add New

i *- indicates required item.

Done

Start A... VT R... Tr... T1... Cl... Lis... te... Q... pa... Mi... D... C... Local intr...



Calling Line/Name ID Restrictions - CLIR, CNIR (Screen 1)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser window title is "Route Pattern Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.235.254/ccmadmin/routePattern2Edit.do?key=3841ea08-7207-ca53-1a40-65d5d5156319>. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Route Pattern Configuration" and includes a "Status" section showing "Status: Ready". The "Pattern Definition" section contains the following fields and options:

- Route Pattern*: 22XX
- Route Partition: < None >
- Description: (empty)
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Gateway/Route List*: S1/SU1/DS1-0@3845_West (with Edit and Find buttons)
- Route Option: Route this pattern; Block this pattern (No Error)
- Call Classification*: OnNet
- Checkboxes: Allow Device Override, Provide Outside Dial Tone, Allow Overlap Sending, Urgent Priority, Require Forced Authorization Code
- Authorization Level*: 0
- Checkboxes: Require Client Matter Code

The "Calling Party Transformations" section is partially visible at the bottom of the configuration area. The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 3:16 PM.



Calling Line/Name ID Restrictions -CLIR, CNIR (Screen 2)

Route Pattern Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Address: <https://172.25.67.149/ccadmin/routePattern25ave.do>

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*

Calling Name and Number Restrictions

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"/>

Done

start

98%

2:20 PM Monday 10/23/2006



PSTN Route Pattern Configuration (Screen 1)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccmadmin/routePattern2Edit.do?key=e8ee644d-6929-6e8e-fffb-8496ad2a9b7e`. The page title is "Route Pattern Configuration - Microsoft Internet Explorer".

The interface includes a navigation bar with the following menu items: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The main content area is titled "Route Pattern Configuration" and includes a "Related Links" section with a "Back To Fin" link. Below this, there are icons for saving, deleting, and adding configurations.

The configuration is organized into sections:

- Status:** Status: Ready
- Pattern Definition:**
 - Route Pattern*: 91650XXXXXX
 - Route Partition: < None >
 - Description: (empty)
 - 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:** (partially visible)

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 2:51 PM.



PSTN Configuration (Screen 2)

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://172.20.235.254/ccadmin/routePattern2Edit.do?key=e8ee644d-6929-6e8e-ffff-8496ad2a9b7e>

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... | Avay... | Remo... | Cisco ... | Rout... | C:\Do... | 41543... | Docu... | Local intranet | 2:52 PM



Voice Mail Profile Configuration (Screen 1)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/vmProfileFindList.do`. The page title is "Find and List Voice Mail Profiles".

The navigation menu includes: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The main content area is titled "Find and List Voice Mail Profiles" and shows the following information:

- Status:** 2 records found.
- Search Options:** Find Voice Mail Profile where Voice Mail Profile Name begins with [input field] [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		

Below the search results, there are buttons for "Add New", "Select All", "Clear All", and "Delete Selected". The "Rows per Page" is set to 50.

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 10:21 AM.



Voice Mail Profile Configuration (Screen 2)

The screenshot shows the Cisco Unified CallManager Administration interface for configuring a Voice Mail Profile. The browser window title is "Voice Mail Profile Configuration - Microsoft Internet Explorer". The address bar shows the URL: `https://172.20.235.254/ccmadmin/vmProfileEdit.do?key=16c584ea-6a81-4138-9ea1-af452de8f75a`. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Voice Mail Profile Configuration" and includes a "Status" section showing "Status: Ready". Below this is the "Voice Mail Profile Information" section with the following fields: "Voice Mail Profile" (Default (used by 4 devices)), "Voice Mail Profile Name*" (Default), "Description" (Default voice messaging profile), "Voice Mail Pilot**" (6090/<None >), and "Voice Mail Box Mask". A checkbox "Make this the default Voice Mail Profile for the System" is checked. At the bottom of the form are buttons for "Save", "Delete", "Copy", "Reset", and "Add New". A help section below the form explains that "*" indicates a required item and "**" indicates that the Voice Mail Pilot is comprised of the Voice Mail Pilot Number and its corresponding Calling Search Space Name (< Voice Mail Pilot Number >/< Callir Space >).



Voice Mail Pilot Configuration

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser title is "Voice Mail Pilot Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.235.254/ccmadmin/vmPilotEdit.do?key=88c24a06-1a2e-4007-83f8-c8c433695852>. The page header includes "Cisco Unified CallManager Administration" and "For Cisco IP Telecommunication Solutions". The user is logged in as "CCM". The navigation menu includes: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Voice Mail Pilot Configuration" and includes a "Related Links" section with a link to "Back To Find/Li". The configuration form contains the following fields and options:

- 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

Buttons for "Save", "Delete", and "Add New" are located below the form. A note at the bottom states: "i *- indicates required item." The taskbar at the bottom shows the Start button, several open applications including "Voice Mail Pilot Config...", "Untitled - Notepad", and "CS101_Nortel Configurati...", and the system clock showing 10:24 AM.



Voice Mail Port Configuration (Screen 1)

The screenshot displays the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.235.254/ccadmin/vmPortFindList.do?lookup=false&multiple=true&recCnt=0&colCnt=7`. The page title is "Find and List Voice Mail Ports".

The interface includes a navigation menu with options: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCM".

The main section is titled "Find and List Voice Mail Ports" and shows a status of "4 records found". Below this is a search options section with a dropdown menu set to "Device Name" and a search button labeled "Find". There is also a checkbox for "Search Within Results" and a dropdown for "Select item or enter search text".

The search results are displayed in a table with the following columns: Device Name, Description, Device Pool, SCCP Security Profile, Status, and IP Address. The results show four records for devices named SaturnUM1-V11 through SaturnUM1-V14, all with a status of "Registered with CM-SATURN" and IP address "172.20.239.2".

At the bottom of the table, there are buttons for "Add New", "Select All", "Clear All", "Delete Selected", and "Reset Selected", along with a "Rows per Page" dropdown set to "50".

The Windows taskbar at the bottom shows the Start button, several open applications including "Find and List Voice Mai...", "Untitled - Notepad", "CS101_Nortel Configurati...", and "Document1 - Microsoft W...", and the system clock showing "10:25 AM".

Device Name	Description	Device Pool	SCCP Security Profile	Status	IP Address
<input type="checkbox"/> SaturnUM1-V11	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
<input type="checkbox"/> SaturnUM1-V12	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
<input type="checkbox"/> SaturnUM1-V13	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2
<input type="checkbox"/> SaturnUM1-V14	Cisco Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-SATURN	172.20.239.2



Voice Mail Port Configuration (Screen 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 (Screen 3)

Voice Mail Port Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Status
Status: Ready

Device Information

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

Save Delete Copy Reset Add New

*- indicates required item.

Done Local intranet

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

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



MWI Configuration (Screen 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

+ [Grid Icon] [Close Icon]

Status
2 records found

Search Options
Find Message Waiting Numbers where begins with Search Within Results
and where Message Waiting Indicator is
(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		

Rows per Page

Done

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

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



MWI Configuration (Screen 2)

The screenshot shows the Cisco Unified CallManager Administration interface for Message Waiting Configuration. The browser window title is "Message Waiting Configuration - Microsoft Internet Explorer". The page header includes "Cisco Unified CallManager Administration" and "For Cisco IP Telecommunication Solutions". The navigation menu includes System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The page title is "Message Waiting Configuration" with a "Back To Fir" link. The status is "Ready". The "Message Waiting Information" section contains the following fields: Message Waiting Number* (3098), Partition (< None >), Description (MWI On), Message Waiting Indicator* (On), and Calling Search Space (< None >). Below the fields are buttons for Save, Delete, Copy, and Add New. A note indicates that an asterisk (*) denotes a required item. The taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 10:30 AM.



MWI Configuration (Screen 3)

The screenshot shows the Cisco Unified CallManager Administration interface for Message Waiting Configuration. The browser window title is "Message Waiting Configuration - Microsoft Internet Explorer". The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCM". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "Message Waiting Configuration" and includes a "Related Links" section with a "Back To Fir" link. Below this, there are icons for Save, Delete, Copy, and Add New. The "Status" section shows "Status: Ready". The "Message Waiting Information" section contains the following fields:

- Message Waiting Number*: 6099
- Partition: < None >
- Description: MWI Off
- Message Waiting Indicator*: On Off
- Calling Search Space: < None >

At the bottom of the configuration area, there is a legend: **i** *- indicates required item.

The browser address bar shows the URL: <https://172.20.235.254/ccmadmin/messageWaitingEdit.do?key=419f1bf6-17de-a954-0915-5038461ec69a#navskip>. The taskbar at the bottom shows several open applications: "Message Waiting Confi...", "Untitled - Notepad", "CS101_Nortel Configurati...", and "Document1 - Microsoft W...". The system clock shows 10:30 AM.



Cisco 3845 Configuration

```
3845_West# sh run
Building configuration...

Current configuration : 3773 bytes
!
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
!
card type t1 4 0
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 2 g711ulaw
```



```
codecs preference 3 g711alaw
!
!
!
!
!
!
!
!
!
!
controller T1 1/1/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 4/0/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 4/0/1
 framing esf
 linecode b8zs
!
!
!
!
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 Serial1/1/0:23
 no ip address
 encapsulation hdlc
 no logging event link-status
 isdn switch-type primary-qsig
 isdn incoming-voice voice
 isdn bind-13 ccm-manager
 no cdp enable
!
```



```
interface Serial4/0/0:23
  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-13 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 1/1/0:23
!
voice-port 4/0/0:23
!
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  
  port 1/1/0:23  
!  
dial-peer voice 2 pots  
  service mgcp  
  port 1/1/0:23  
!  
dial-peer voice 3 pots  
  service mgcp  
  port 4/0/0:23  
!  
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



Important Information

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.



**Corporate
Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

**European
Headquarters**

Cisco Systems International
BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

**Americas
Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

**Asia Pacific
Headquarters**

Cisco Systems, Inc.
Capital Tower
168 Robinson Road
#22-01 to #29-01
Singapore 068912
www.cisco.com
Tel: +65 317 7777
Fax: +65 317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the Cisco Web site at www.cisco.com/go/offices.

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

© 2006 Cisco Systems, Inc. All rights reserved.

CCVP, the Cisco Logo, and the Cisco Square Bridge logo are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networking Academy, Network Registrar, Packet, PIX, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0609R)

Printed in the USA