



Nortel CS1000M Release 4.0 using T1 Q.SIG to Cisco Unified Communications Manager 6.0

07/09/2007 Initial Version

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Introduction

This is an application note for connectivity of Nortel CS1000M Release 4.0 PBX with Cisco Unified Communications Manager Release 6.0 using Cisco 3825 T1 QSIG as MGCP gateway.

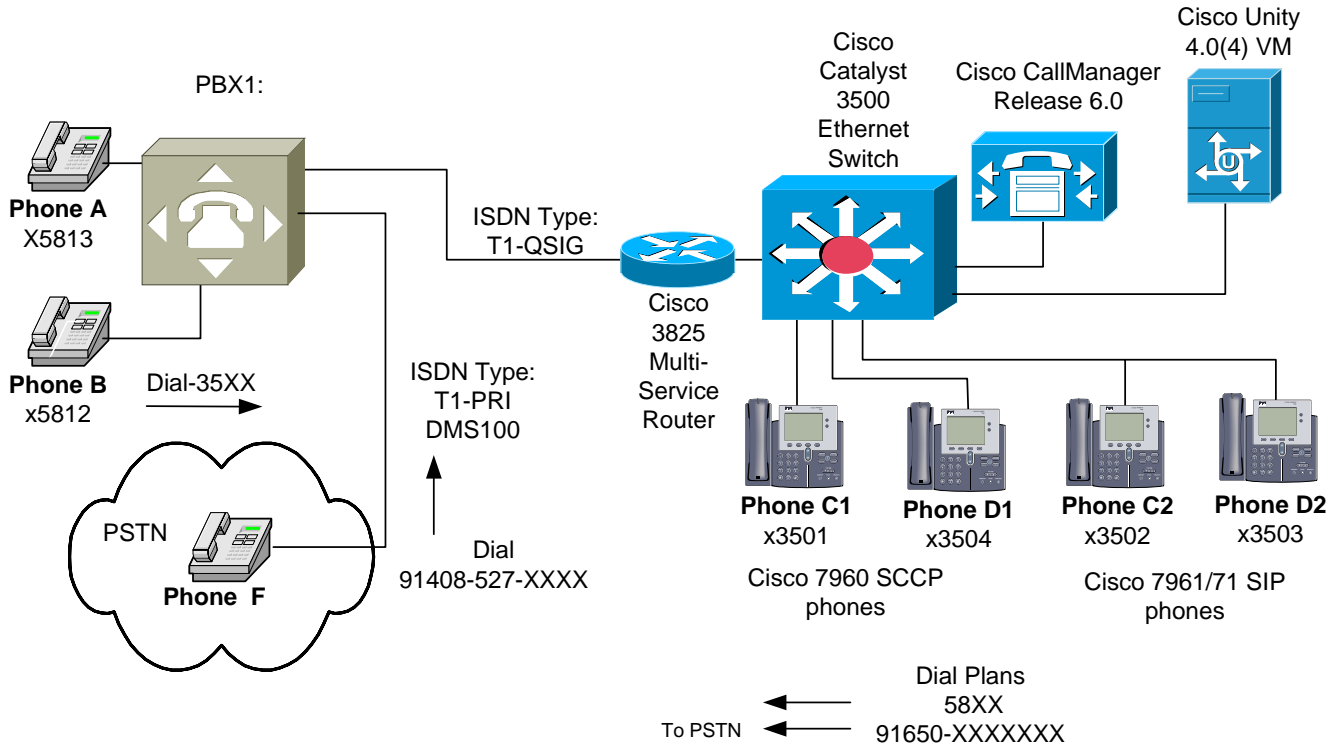
The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified Communications Manager connected to the PBX via a Cisco 3825 T1 QSIG link as MGCP gateway.

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 Cisco 3825 T1 voice gateway, however other Cisco voice gateways are also an option to use since Cisco Unified Communications Manager QSIG implementation does not depend on the physical interface.

Network Topology

Figure 1. Basic Call Setup



Limitations

Sending Busy Name

Both the Cisco Unified Communications Manager and the Nortel PBX sends a “Busy Name” information in its Disconnect Message to the originating side when receiving a call directed to a station that is currently in a busy state. However, this information is not displayed on the originating station phone. Upon examination of the call traces, the CUCM sends the “Busy Name” information using InvokeID 3. On the other hand, the Nortel PBX sends this information using InvokeID 256.

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.

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 diverted calls in a Call Forward scenario to optimize the path for a call that is meant for a Cisco Unified Communications Manager 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, Call Forward by Reroute may be used on Cisco Unified Communications Manager 6.0 instead of Path Replacement. 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 previous tests using Nortel Meridian 1 PBX Release 25.15, Nortel Meridian 1 PBX Release 25.40 and Cisco Unified Communications Manager 5.0. A call was placed from a station on Nortel Meridian 1 PBX Release 25.15 to station on Cisco Unified Communications Manager 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. The Nortel CS1000M PBX used for this test may not have the appropriate patch to fix this bug.

System Components

Hardware Requirements

The following hardware is required:

- Cisco Catalyst 3500
- Cisco 3845 router with VWIC2-2MFT-T1/E1 on NM-HDV
- Cisco Unified Communication Manager Server
- Nortel CS1000M PBX

Software Requirements

The following software is required:

- Cisco Unified Communications Manager Release 6.0
- PBX software release 4.0
- Cisco IOS Release version 12.4

Features

This section lists new and changed features and features that are not supported.

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



Sending Busy Name – See Limitations Section

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

CCNR-Call Completion No Reply

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

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

Configuring the Nortel CS1000M PBX with Software Release 4.0

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 Route Data Block
6. Configure the Coordinated Dialing Plan
7. Configure the Digital Station Phone



Configuration Menus and Commands

Nortel Configuration

```
*****  
COMMON EQUIPMENT CONFIGURATION (LD 17)  
*****
```

```
REQ prt  
TYPE cequ
```

```
CEQU  
MPED 8D  
SUPL 000 004 008 012  
    016 032 036 040  
    044 048 064 068  
    072 V096 V100 V104  
    V108 V112  
TDS 000  
CONF 029 030 031 062  
    094 095
```

```
DLOP NUM DCH FRM TMDI LCMT YALM T1TE TRSH  
PRI 02 23 ESF YES B8S FDL 0 00  
    03 23 ESF YES B8S FDL 0 00  
DTI2  
MISP
```

```
REQ
```

```
*****  
D-CHANNEL CONFIGURATION (LD 17)  
*****
```

```
REQ PRT  
TYPE ADAN DCH 13
```

```
ADAN DCH 13  
CTYP TMDI  
CARD 03  
PORT 1  
DES appnotes  
USR PRI  
DCHL 3  
OTBF 32  
PARAM RS232 DTE  
DRAT 64KC  
CLOK EXT  
IFC ISGF  
    PINX_CUST 0  
    ISDN_MCNT 300  
CLID OPT0  
CO_TYPE STD  
SIDE USR  
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 YES
 DIDD 0
 OVLS YES
 OVLT 0
 T310 120
 T200 3
 T203 10
 N200 3
 N201 260
 K 7

REQ

 ROUTE DATE BLOCK CONFIGURATION (LD 16)

REQ: PRT
 TYPE: RDB
 CUST 0
 ROUT 103

TYPE RDB
 CUST 00
 DMOD
 ROUT 103
 DES APPNOTE
 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 4003
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

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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:

TRUNK DATA BLOCK CONFIGURATION (LD 14)

REQ: PRT
TYPE: TNB
TN 3 1
DATE
PAGE
DES

DES APPNOTES
TN 003 01
TYPE TIE
CDEN SD
CUST 0
TRK PRI
PDCA 1
PCML MU
NCOS 0
RTMB 103 1
B-CHANNEL SIGNALING
TGAR 0
AST NO
IAPG 0
CLS UNR DTN WTA LPR APN THFD HKD
P10 VNL
TKID
AACR NO
DATE 6 JUN 2007

COORDINATED DIALING PLAN (LD 87)

REQ PRT
CUST 0
FEAT CDP
TYPE DSC
DSC 35
DSC 35
FLEN 0
DSP LSC
RLI 3
NPA
NXX

ROUTE LIST BLOCK CONFIGURATION (LD 86)

REQ PRT
CUST 0
FEAT RLB
RLI 3

RLI 3



ENTR 0
 LTER NO
 ROUT 103
 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 1

 DIGITAL STATION PHONE (2616) CONFIGURATION (LD 11)

REQ: PRT
 TYPE: 2616

TN 4 0 0 3
 DATE
 PAGE
 DES

DES APP
 TN 004 0 00 03
 TYPE 2616
 CDEN 8D
 CUST 0
 AOM 0
 FDN 3503
 TGAR 0
 LDN NO
 NCOS 0
 SGRP 0
 RNPG 0
 SCI 0
 SSU
 XLST

CLS CTD FBD WTA LPR MTD FND HTD ADD HFD
 MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
 POD DSX VMD CMSD SLKD CCSD SWD LND CNDA
 CFTA SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD
 ICDD CDMD LLCN MCTD CLBD AUTU
 GPUD DPUD DNDD CFXA ARHD CLTD ASCD



CPFA CPTA ABDD CFHA FICD NAID BUZZ AGRD MOAD AHD
 DDGA NAMA
 DRDD EXR0
 USMD USRD ULAD RTDD RBDD RBHD PGND OCBD FLXD FTTC DNDY DNO3 MCBN CDMR

CPND_LANG ENG

RCO 0

EFD 3503

HUNT 3503

EHT 3503

LHK 0

PLEV 02

CSDN

AST

IAPG 0

AACS NO

ITNA NO

DGRP

MLWU_LANG 0

DNDR 0

KEY 00 SCR 5813 0 MARP

CPND

NAME TONY BLAIR

XPLN 10

DISPLAY_FMT FIRST, LAST

01

02

03 CFW 4 3503

04 AO6

05 TRN

06

07

08

09

10

11

12

13

14

15 RGA

DATE 22 JUN 2007

NACT

 SOFTWARE RELEASE (LD 22)

REQ ISS

BRANCH MEDIA GATEWAY

VERSION 2121

RELEASE 4

ISSUE 00 T +

IDLE_SET_DISPLAY NORTEL



REQ

FEATURES / PACKAGES INSTALLED (LD 22)

| 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 |
| ACDD | 50 |
| LNK | 51 |
| FCA | 52 |
| SR | 53 |
| AA | 54 |
| HIST | 55 |



| | |
|------|----|
| AOP | 56 |
| NARS | 58 |
| CDP | 59 |
| PQUE | 60 |
| FCBQ | 61 |

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| 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 |
| AUXS | 114 |
| 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 |

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| FXS | 152 |
| IAP3P | 153 |
| PRI2 | 154 |
| ACNT | 155 |
| THF | 157 |
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| ECCS | 173 |
| AAA | 174 |
| NMS | 175 |
| EOVF | 178 |
| HVS | 179 |
| DKS | 180 |
| SACP | 181 |
| VNS | 183 |
| OVLP | 184 |
| EDRG | 185 |
| POVR | 186 |
| SECL | 191 |
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| AINS | 200 |
| IPRA | 202 |
| XPE | 203 |
| XCT0 | 204 |
| XCT1 | 205 |
| MLWU | 206 |
| NACD | 207 |
| HSE | 208 |
| MLM | 209 |
| MAID | 210 |
| VAWU | 212 |
| EAR | 214 |



| | |
|--------------|-----|
| ECT | 215 |
| BRI | 216 |
| IVR | 218 |
| MWI | 219 |
| MSDL | 222 |
| FC68 | 223 |
| M911 | 224 |
| CWNT | 225 |
| 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 |
| M911 ENH | 249 |
| DPNA | 250 |
| SCDR | 251 |

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| ARFW | 253 |
| PHTN | 254 |
| ADMINSET | 256 |
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| QSIG | 263 |
| NI-2 | 291 |
| IPEX | 295 |
| MAT | 296 |
| MQA | 297 |
| CPP | 301 |
| QSIGGF | 305 |
| CPRKNET | 306 |
| PAGENET | 307 |
| CPCI | 310 |
| NGCC | 311 |
| TATO | 312 |
| OPEN_ALARM | 315 |
| QSIG-SS | 316 |
| QTN | 321 |
| 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 |
| ACDE | 388 |
| BMG | 390 |
| UUI | 393 |
| OAS | 394 |
| ICON | 397 |
| PCA | 398 |
| H323_VTRK | 399 |
| LOCX | 400 |
| PVQM | 401 |
| SIP | 406 |

REQ



Configuring the Cisco Unified Communication Manager

CUCM Version

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

A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>.
If you require further assistance please contact us by sending email to export@cisco.com.



Gateway Configuration

The screenshot shows the Cisco Unified CM Administration web interface. The browser title is "Gateway Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.". The address bar shows the URL: <https://172.25.67.151/ccmadmin/gatewayEdit.do?key=3346f520-2473-334a-7079-e4d55d8251a0>. The page header includes the Cisco logo, "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and navigation links for "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", and "Bulk Administration". The current page is "Gateway Configuration", with a "Related Links" section containing "Back to MGCP Configuration".

At the top of the configuration area, there are buttons for "Save", "Delete", and "Reset". Below this is a "Status" section showing "Status: Ready".

The main section is "Device Information", which contains the following details:

| | |
|-----------------------------|---|
| Product | Cisco MGCP T1 Port |
| Gateway | PBX_A.pbxlab.org |
| Device Protocol | Digital Access PRI |
| Registration | Registered with Cisco Unified Communications Manager CM-Aries |
| IP Address | 172.20.66.101 |
| End-Point Name * | S1/SU0/DS1-0@PBX_A.pbxlab.org |
| Description | <input type="text" value="S1/SU0/DS1-0@PBX_A.pbxlab.org"/> |
| Device Pool* | <input type="text" value="Default"/> |
| Common Device Configuration | <input type="text" value="< None >"/> |
| Call Classification* | <input type="text" value="Use System Default"/> |
| NetworkLocale | <input type="text" value="United States"/> |
| Packet Capture Mode* | <input type="text" value="None"/> |
| Packet Capture Duration | <input type="text" value="0"/> |
| Media Resource Group List | <input type="text" value="Aries_MRGL"/> |
| Location* | <input type="text" value="Hub_None"/> |
| AAR Group | <input type="text" value="< None >"/> |
| Load Information | <input type="text" value=""/> |

The status bar at the bottom shows "Done" and "Local intranet".



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151/ccmadmin/gatewayEdit.do?key=3346f520-2473-334a-7079-e4d55d8251a0> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Gateway Configuration Related Links: [Back to MGCP Configuration](#) Go

Save Delete Reset

Load Information

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* Bottom Up

Channel IE Type* Use Number when 1B

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

Done Local intranet



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

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151/ccmadmin/gatewayEdit.do?key=3346f520-2473-334a-7079-e4d55d8251a0> Go Links >>

Cisco Unified CM Administration
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Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Gateway Configuration Related Links: [Back to MGCP Configuration](#) Go

Save Delete Reset

Unattended Port

Call Routing Information - Inbound Calls

| | |
|--------------------------|----------|
| Significant Digits* | All |
| Calling Search Space | < None > |
| AAR Calling Search Space | < None > |
| Prefix DN | |

Call Routing Information - Outbound Calls

| | |
|---------------------------------------|-------------------|
| Calling Party Presentation* | Default |
| Calling Party Selection* | Originator |
| Called party IE number type unknown* | Cisco CallManager |
| Calling party IE number type unknown* | Cisco CallManager |
| Called Numbering Plan* | Cisco CallManager |
| Calling Numbering Plan* | Cisco CallManager |
| Number of digits to strip* | 0 |
| Caller ID DN | |
| SMDI Base Port* | 0 |

PRI Protocol Type Specific Information

Done Local intranet



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

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151/ccmadmin/gatewayEdit.do?key=3346f520-2473-334a-7079-e4d55d8251a0> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Gateway Configuration Related Links: Back to MGCP Configuration Go

Save Delete Reset

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**

Connected Line ID Presentation (QSIG Inbound Call)*

UUIE Configuration

- Passing Precedence Level Through UUIE

Security Access Level*

Product Specific Configuration Layout

Line Coding* ?

Done Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151/ccadmin/gatewayEdit.do?key=3346f520-2473-334a-7079-e4d55d8251a0> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Gateway Configuration Related Links: [Back to MGCP Configuration](#) Go

Save Delete Reset

Product Specific Configuration Layout ?

| | |
|----------------------------------|----------|
| Line Coding* | B8ZS |
| Framing* | ESF |
| Clock* | External |
| Input Gain (-6..14 db)* | 0 |
| Output Attenuation (-6..14 db)* | 0 |
| Echo Cancellation Enable* | Enable |
| Echo Cancellation Coverage (ms)* | 64 |

Save Delete Reset

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

Done Local intranet



Enblock Route Pattern Configuration

The screenshot shows the Cisco Unified CM Administration web interface in Microsoft Internet Explorer. The browser title is "Route Pattern Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc." The address bar shows the URL: `https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=164641f3-0716-c9f5-5965-1af04bcca156`. The page header includes the Cisco logo and "Cisco Unified CM Administration For Cisco Unified Communications Solutions". The user is logged in as "CCMAdministrator".

The main content area is titled "Route Pattern Configuration" and includes a "Status" section showing "Status: Ready". Below this is the "Pattern Definition" section with the following fields:

- Route Pattern*: 58XX
- Route Partition: < None >
- Description: to CS103 via QSIG
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence*: Default
- Gateway/Route List*: S1/SU0/DS1-1@PBX_A.pbxlab.org (Edit)
- 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:

The browser status bar at the bottom shows "Done" and "Local intranet".



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=164641f3-0716-c9f5-5965-1af04bcca156> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Add New

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

Done Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=164641f3-0716-c9f5-5965-1af04bcca156> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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

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

Save Delete Copy Add New

Calling Name Presentation* Default

Connected Party Transformations

Connected Line ID Presentation* Default

Connected Name Presentation* Default

Called Party Transformations

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol -- Not Selected --

Carrier Identification Code

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

Save Delete Copy Add New

i *- indicates required item.

Done Local intranet



Overlap Sending Route Patter Configuration

The screenshot shows a Microsoft Internet Explorer browser window displaying the Cisco Unified CM Administration web interface. The browser's address bar shows the URL: `https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=0684b682-aa42-7bee-bb55-d12d0a9fbc7`. The page title is "Route Pattern Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.". The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The address bar contains navigation buttons (Back, Forward, Stop, Home, Search, Favorites, Refresh, Print, Stop, Home, Stop, Home, Stop, Home) and a Go button. The page header features the Cisco logo and the text "Cisco Unified CM Administration For Cisco Unified Communications Solutions". 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 "Route Pattern Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below the title bar, there are buttons for Save, Delete, Copy, and Add New. The configuration form is divided into several sections: "Calling Party Transformations" with a checkbox for "Use Calling Party's External Phone Number Mask" and fields for "Calling Party Transform Mask", "Prefix Digits (Outgoing Calls)", "Calling Line ID Presentation*" (set to Default), and "Calling Name Presentation*" (set to Default); "Connected Party Transformations" with fields for "Connected Line ID Presentation*" (set to Default) and "Connected Name Presentation*" (set to Default); "Called Party Transformations" with a "Discard Digits" dropdown (set to PreDot), "Called Party Transform Mask", and "Prefix Digits (Outgoing Calls)"; and "ISDN Network-Specific Facilities Information Element" with a "Network Service Protocol" dropdown (set to -- Not Selected --) and a "Carrier Identification Code" field. The browser's status bar at the bottom shows "Done" and "Local intranet".



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=0684b682-aa42-7bee-bb55-d12d0a9fbc7> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Add New

Calling Name Presentation* Default

Connected Party Transformations

Connected Line ID Presentation* Default

Connected Name Presentation* Default

Called Party Transformations

Discard Digits PreDot

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol -- Not Selected --

Carrier Identification Code

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

Save Delete Copy Add New

i *- indicates required item.

Done Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=0684b682-aa42-7bee-bb55-d12d0a9fbc7> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Add New

Calling Name Presentation* Default

Connected Party Transformations

Connected Line ID Presentation* Default

Connected Name Presentation* Default

Called Party Transformations

Discard Digits PreDot

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol -- Not Selected --

Carrier Identification Code

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

Save Delete Copy Add New

i *- indicates required item.

Done Local intranet



PSTN Route Pattern Configuration

The screenshot shows the Cisco Unified CM Administration web interface in Microsoft Internet Explorer. The browser title is "Route Pattern Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc." and the address bar shows the URL: `https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=4813305d-ccc0-d592-02b6-bef9a9b549ce`. The page header includes the Cisco logo, "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and navigation links for "CCMAdministrator", "About", and "Logout". 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 "Route Pattern Configuration" and includes a "Related Links" section with "Back To Find/List" and "Go". Below this is a toolbar with "Save", "Delete", "Copy", and "Add New" buttons. The "Status" section shows "Status: Ready". The "Pattern Definition" section contains the following fields and options:

- Route Pattern*:
- Route Partition:
- Description:
- Numbering Plan:
- Route Filter:
- MLPP Precedence*:
- Gateway/Route List*: [\(Edit\)](#)
- Route Option: Route this pattern, Block this pattern
- Call Classification*:
- Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
- Require Forced Authorization Code
- Authorization Level*:
- Require Client Matter Code

The status bar at the bottom shows "Done" and "Local intranet".



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

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=4813305d-ccc0-d592-02b6-bef9a9b549ce> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Add New

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation* Default

Calling Name Presentation* Default

Connected Party Transformations

Connected Line ID Presentation* Default

Connected Name Presentation* Default

Called Party Transformations

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol -- Not Selected --

Carrier Identification Code

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

Done Local intranet



CLIR and CNIR Route Pattern Configuration

The screenshot shows the Cisco Unified CM Administration web interface in Microsoft Internet Explorer. The browser title is "Route Pattern Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc." and the address bar shows the URL: <https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=164641f3-0716-c9f5-5965-1af04bcca156>. The page title is "Route Pattern Configuration" and the user is logged in as "CCMAdministrator".

The main content area is titled "Route Pattern Configuration" and contains the following fields and options:

- Status:** Status: Ready
- Pattern Definition:**
 - Route Pattern*: 58XX
 - Route Partition: < None >
 - Description: to CS103 via QSIG
 - Numbering Plan: -- Not Selected --
 - Route Filter: < None >
 - MLPP Precedence*: Default
 - Gateway/Route List*: S1/SU0/DS1-1@PBX_A.pbxlab.org (Edit)
 - 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:

The bottom of the page shows a "Done" button and a "Local intranet" icon.



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/routePattern2Edit.do?key=164641f3-0716-c9f5-5965-1af04bcca156> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Add New

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation* **Restricted**

Calling Name Presentation* **Restricted**

Connected Party Transformations

Connected Line ID Presentation* **Default**

Connected Name Presentation* **Default**

Called Party Transformations

Discard Digits **< None >**

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol **-- Not Selected --**

Carrier Identification Code

| Network Service | Service Parameter Name | Service Parameter Value |
|-----------------|------------------------|-------------------------|
| Done | | |

Local intranet



COLR and CONR Configuration

The screenshot displays the Cisco Unified CM Administration web interface in Microsoft Internet Explorer. The browser title is "Translation Pattern Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc." and the address bar shows the URL: <https://172.25.67.151:8443/ccmadmin/translationEdit.do?key=9b46322a-e538-3e49-58e6-4d5457de3bb2>. The page header includes the Cisco logo and "Cisco Unified CM Administration For Cisco Unified Communications Solutions". The navigation menu shows "CCMAdministrator | About | Logout". The main content area is titled "Translation Pattern Configuration" and includes a "Related Links: Back To Find/List" button. Below the title bar are icons for Save, Delete, Copy, and Add New. The "Status" section shows "Status: Ready". The "Pattern Definition" section contains the following fields and options:

- Translation Pattern: 39XX
- Partition: < None >
- Description: Caller ID tests
- 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

The "Calling Party Transformations" section includes:

- Use Calling Party's External Phone Number Mask
- Calling Party Transform Mask: [Empty text box]

The browser status bar at the bottom shows "Done" and "Local intranet".



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

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/translationEdit.do?key=9b46322a-e538-3e49-58e6-4d5457de3bb2> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Add New

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask:

Prefix Digits (Outgoing Calls):

Calling Line ID Presentation*: Default

Calling Name Presentation*: Default

Connected Party Transformations

Connected Line ID Presentation*: Restricted

Connected Name Presentation*: Restricted

Called Party Transformations

Discard Digits: < None >

Called Party Transform Mask: 35XX

Prefix Digits (Outgoing Calls):

Save Delete Copy Add New

i *- indicates required item.

Done Local intranet



MWI Lamp ON/OFF Configuration

The screenshot shows the Cisco Unified CM Administration web interface in Microsoft Internet Explorer. The browser title is "Find and List Message Waiting Numbers - Microsoft Internet Explorer provided by Cisco Systems, Inc." The address bar shows the URL: `https://172.25.67.151:8443/ccmadmin/messageWaitingFindList.do?<%=reqParams%>&recCnt=0&colCnt=8`. The page header includes the Cisco logo and "Cisco Unified CM Administration For Cisco Unified Communications Solutions". The user is logged in as "CCMAdministrator". 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 "Find and List Message Waiting Numbers". It features a toolbar with "Add New", "Select All", "Clear All", and "Delete Selected" buttons. Below the toolbar is a "Status" box indicating "2 records found".

The main table displays the following data:

| Directory Number | Description | Partition | Calling Search Space | Copy |
|------------------|-------------|-----------|----------------------|------|
| 8000 | MWI OFF | | | |
| 8001 | MWI ON | | | |

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

The browser status bar at the bottom shows "Done" and "Local intranet".



Message Waiting Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/messageWaitingEdit.do?key=a5e16454-73e5-d91d-1722-f04b8b45dbee> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Message Waiting Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

Status

i Status: Ready

Message Waiting Information

Message Waiting Number*

Partition

Description

Message Waiting Indicator* On Off

Calling Search Space

Save Delete Copy Add New

i *- indicates required item.

Done Local intranet



Message Waiting Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/messageWaitingEdit.do?key=19f1cc10-3002-f47f-ef37-ed46ef1c280f> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Message Waiting Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

Status

i Status: Ready

Message Waiting Information

Message Waiting Number*

Partition

Description

Message Waiting Indicator* On Off

Calling Search Space

Save Delete Copy Add New

i *- indicates required item.

Done Local intranet



Voice Mail Profile Configuration

The screenshot shows a Microsoft Internet Explorer browser window displaying the Cisco Unified CM Administration interface. The browser title is "Voice Mail Profile Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc." and the address bar shows the URL: <https://172.25.67.151:8443/ccmadmin/vmProfileEdit.do?key=35e9bb07-81d0-b532-875d-c931efd7d601>. The page header includes the Cisco logo and "Cisco Unified CM Administration For Cisco Unified Communications Solutions". The navigation menu shows "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", "Bulk Administration", and "Help". The current page is "Voice Mail Profile Configuration" with a "Related Links" section containing "Back To Find/List".

The main content area is titled "Voice Mail Profile Configuration" and includes a toolbar with "Save", "Delete", "Copy", "Reset", and "Add New" buttons. Below the toolbar is a "Status" section showing "Status: Ready".

The "Voice Mail Profile Information" section contains the following fields:

- Voice Mail Profile: Unity_VM (used by 5 devices)
- Voice Mail Profile Name*: Unity_VM
- Description: Untiy Voice Mail
- Voice Mail Pilot**: 4500/< None >
- Voice Mail Box Mask: (empty)

There is a checkbox labeled "Make this the default Voice Mail Profile for the System" which is checked.

Below the form are buttons for "Save", "Delete", "Copy", "Reset", and "Add New".

Footnotes:

- *- indicates required item.
- **-. The Voice Mail Pilot is comprised of the Voice Mail Pilot Number and it's corresponding Calling Search Space Name (< Voice Mail Pilot Number >/< Calling Search Space >).

The browser status bar at the bottom shows "Done" and "Local intranet".



Voice Mail Pilot Configuration

Voice Mail Pilot Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/vmPilotEdit.do?key=5afb1a3b-d85a-7153-1779-0d5bdbc48168> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Add New

Status

Status: Ready

Voice Mail Pilot Information

Voice Mail Pilot Number

Calling Search Space

Description

Make this the default Voice Mail Pilot for the system

Save Delete Add New

i *- indicates required item.

Done Local intranet



Voice Mail Ports Configuration

Find and List Voice Mail Ports - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/vmPortFindList.do?<%=reqParams%>&recCnt=0&colCnt=7>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Find and List Voice Mail Ports

+ Add New Select All Clear All Delete Selected Reset Selected

Status
4 records found

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

Find Voice Mail Port where Device Name begins with Find Clear Filter Select item or enter search text

| <input type="checkbox"/> | Device Name | Description | Device Pool | Device Security Mode | Calling Search Space | Ext. | Partition | Status | IP Address | Copy |
|--------------------------|------------------------------|----------------|-------------|----------------------------|----------------------|------|-----------|--------------------------|----------------|------|
| <input type="checkbox"/> | CiscoUM1-VI1 | Unity VM Ports | Default | Non Secure Voice Mail Port | | 4501 | | Registered with CM-Aries | 172.20.239.252 | |
| <input type="checkbox"/> | CiscoUM1-VI2 | Unity VM Ports | Default | Non Secure Voice Mail Port | | 4502 | | Registered with CM-Aries | 172.20.239.252 | |
| <input type="checkbox"/> | CiscoUM1-VI3 | Unity VM Ports | Default | Non Secure Voice Mail Port | | 4503 | | Registered with CM-Aries | 172.20.239.252 | |
| <input type="checkbox"/> | CiscoUM1-VI4 | Unity VM Ports | Default | Non Secure Voice Mail Port | | 4504 | | Registered with CM-Aries | 172.20.239.252 | |

Add New Select All Clear All Delete Selected Reset Selected

Done Local intranet



Voice Mail Port Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/vmPortEdit.do?key=1c3a91d0-70ea-2972-b3ab-4ee90f5a22b3> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Reset Add New

Status
Status: Ready

Device Information

| | |
|-----------------------------|---|
| Registration | Registered with Cisco Unified Communications Manager CM-Aries |
| IP Address | 172.20.239.252 |
| Port Name* | CiscoUM1-VI1 |
| Description | Unity VM Ports |
| Device Pool* | Default |
| Common Device Configuration | < None > |
| Calling Search Space | < None > |
| AAR Calling Search Space | < None > |
| Location* | Hub_None |
| Device Security Mode* | Non Secure Voice Mail Port |

Directory Number Information

| | |
|----------------------|----------|
| Directory Number* | 4501 |
| Partition | < None > |
| Calling Search Space | < None > |
| AAR Group | < None > |

Done Local intranet



Voice Mail Port Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/vmPortEdit.do?key=1c3a91d0-70ea-2972-b3ab-4ee90f5a22b3> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Reset Add New

| | |
|-----------------------------|----------------------------|
| Device Pool* | Default |
| Common Device Configuration | < None > |
| Calling Search Space | < None > |
| AAR Calling Search Space | < None > |
| Location* | Hub_None |
| Device Security Mode* | Non Secure Voice Mail Port |

Directory Number Information

| | |
|---|-----------|
| Directory Number* | 4501 |
| Partition | < None > |
| Calling Search Space | < None > |
| AAR Group | < None > |
| Internal Caller ID Display | VoiceMail |
| Internal Caller ID Display (ASCII format) | VoiceMail |
| External Number Mask | |

Save Delete Copy Reset Add New

i *- indicates required item.

Done Local intranet



CallBack Service Parameters

Service Parameter Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/serviceParamEdit.do?server=ad30bb96-ef29-449e-9129-df0542002e2c&service=0> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Service Parameter Configuration Related Links: Parameters for All Servers Go

Save Set to Default Advanced

| | | |
|---|---------------------------------|----|
| Start Path Replacement Maximum Delay Time * | <input type="text" value="0"/> | 0 |
| Path Replacement T1 Timer * | <input type="text" value="30"/> | 30 |
| Path Replacement T2 Timer * | <input type="text" value="15"/> | 15 |
| Path Replacement PINX ID | <input type="text"/> | |
| Path Replacement Calling Search Space | < None > | |

Clusterwide Parameters (Feature - Call Back)

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

Clusterwide Parameters (Feature - Call Recording)

| | | |
|--|-------|-------|
| Play Recording Notification Tone To Observed Target * | False | False |
| Play Recording Notification Tone To Observed Connected | False | False |

Done Local intranet



CallBack Softkey Configuration

The screenshot shows a Microsoft Internet Explorer browser window displaying the Cisco Unified CM Administration interface. The page title is "Softkey Template Configuration". The address bar shows the URL: <https://172.25.67.151:8443/ccmadmin/softkeyTemplateEdit.do?key=c00ca820-6596-cc19-7425-17b43cc87c70>. The navigation menu includes: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The current page is "Softkey Template Configuration".

Status
Status: Ready

Softkey Template Information

Name*

Description

Applications*

Default Softkey Template

i *- indicates required item.

Done Local intranet



Softkey Template Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/softkeyTemplateLayoutEdit.do?key=c00ca820-6596-cc19-7425-17b43cc87c70&callState=8> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

Softkey Template Configuration Related Links: Softkey Template Configuration Go

Save Reset

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User with CallBack
Select a call state to configure Ring Out

| Unselected Softkeys | Selected Softkeys (ordered by position)** |
|--|---|
| Toggle Do Not Disturb (DND) Undefined (Undefined) | Undefined (Undefined) End Call (EndCall) Call Back (CallBack) |

Save Reset

Done Local intranet



iDivert Softkey Configuration

The screenshot shows the Cisco Unified CM Administration web interface in Microsoft Internet Explorer. The browser title is "Softkey Template Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.". The address bar shows the URL: <https://172.25.67.151:8443/ccmadmin/softkeyTemplateLayoutEdit.do?key=c00ca820-6596-cc19-7425-17b43cc87c70&callState=3>. The page header includes the Cisco logo, "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and navigation links for "CCMAdministrator", "About", and "Logout". 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 a link to "Softkey Template Configuration". Below this are "Save" and "Reset" buttons. The "Status" section shows "Status: Ready". The "Softkey Layout Configuration" section displays "Softkey Template: Standard User with CallBack" and "Select a call state to configure" with a dropdown menu set to "Ring In". It features two columns: "Unselected Softkeys" containing "Toggle Do Not Disturb (DND)" and "Undefined (Undefined)", and "Selected Softkeys (ordered by position)**" containing "Answer (Answer)" and "Immediate Divert (iDivert)". Double-headed arrows between the columns indicate the ability to move softkeys between the lists. At the bottom of the configuration area are "Save" and "Reset" buttons. The browser status bar shows "Done" and "Local intranet".



Softkey Template Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/softkeyTemplateLayoutEdit.do?key=c00ca820-6596-cc19-7425-17b43cc87c70&callState=1> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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CCMAdministrator | About | Logout

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

Softkey Template Configuration Related Links: Softkey Template Configuration Go

Save Reset

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User with CallBack
Select a call state to configure: Connected

| Unselected Softkeys | Selected Softkeys (ordered by position)** |
|---------------------------------------|---|
| HLog (HLog) | Hold (Hold) |
| Mobility (Mobility) | End Call (EndCall) |
| Quality Report Tool (QRT) | Transfer (Trnsfer) |
| Remove Last Conference Party (RmLstC) | Park (Park) |
| Toggle Do Not Disturb (DND) | Conference (Confrn) |
| Toggle Malicious Call Trace (MCID) | Conference List (ConfList) |
| Undefined (Undefined) | Select (Select) |
| | Join (Join) |
| | Direct Transfer (DirTrfr) |
| | Video Mode Command (VidMode) |
| | Immediate Divert (IDivert) |

Save Reset

Done Local intranet



Softkey Template Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/softkeyTemplateLayoutEdit.do?key=c00ca820-6596-cc19-7425-17b43cc87c70&callState=2> Go Links >>

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Softkey Template Configuration Related Links: Softkey Template Configuration Go

Save Reset

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User with CallBack
Select a call state to configure On Hold

Unselected Softkeys
Toggle Do Not Disturb (DND)
Undefined (Undefined)

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

Save Reset

Done Local intranet



Softkey Template Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/softkeyTemplateLayoutEdit.do?key=c00ca820-6596-cc19-7425-17b43cc87c70&callState=0>

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Softkey Template Configuration Related Links: Softkey Template Configuration Go

Save Reset

Status
Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User with CallBack
Select a call state to configure On Hook

| Unselected Softkeys | Selected Softkeys (ordered by position)** |
|--|---|
| Call Back (CallBack) Conference List (ConfList) Direct Transfer (DirTrfr) Group Pick Up (GPickUp) HLog (HLog) Join (Join) Meet Me (MeetMe) Mobility (Mobility) Other Pickup (oPickup) Pick Up (PickUp) Quality Report Tool (QRT) Remove Last Conference Party (RmLstC) Select (Select) Toggle Do Not Disturb (DND) Undefined (Undefined) Video Mode Command (VidMode) | Redial (Redial) **NewCall (NewCall) Forward All (CfwdAll) Immediate Divert (iDivert) |

Save Reset

Done Local intranet



Path Replacement Service Parameter Configuration

The screenshot shows the Cisco Unified CM Administration web interface. The browser title is "Service Parameter Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.". The address bar shows the URL: <https://172.25.67.151:8443/ccmadmin/serviceParamEdit.do?server=ad30bb96-ef29-449e-9129-df0542002e2c&service=0>. The page header includes the Cisco logo, "Cisco Unified CM Administration", and navigation links for "Navigation", "Cisco Unified CM Administration", "CCMAdministrator", "About", and "Logout". 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 Servers". Below this are three sections of configuration parameters:

- Start Path Replacement Maximum Delay Time ***: 0
- Path Replacement T1 Timer ***: 30
- Path Replacement T2 Timer ***: 15
- Path Replacement PINX ID**: (empty)
- Path Replacement Calling Search Space**: < None >

Clusterwide Parameters (Feature - Call Back)

- Call Back Enabled Flag ***: True
- 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 (Feature - Call Recording)

- Play Recording Notification Tone To Observed Target ***: False
- Play Recording Notification Tone To Observed Connected**: False



Call Forward by Reroute Service Parameter Configuration

Service Parameter Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccadmin/serviceParamEdit.do#> Go Links >>

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Service Parameter Configuration Related Links: Parameters for All Servers Go

Save Set to Default Advanced

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

Clusterwide Parameters (Feature - Forward)

| | | |
|--|--|--------------------------------|
| Forward Maximum Hop Count * | <input type="text" value="12"/> | 12 |
| Forward No Answer Timer * | <input type="text" value="12"/> | 12 |
| Max Forward Hops to DN * | <input type="text" value="12"/> | 12 |
| Retain Forward Information * | <input checked="" type="checkbox" value="True"/> | False |
| Forward By Reroute Enabled * | <input checked="" type="checkbox" value="True"/> | False |
| Transform Forward by Reroute Destination * | <input checked="" type="checkbox" value="True"/> | True |
| Always Forward Switch Voice Mail Calls * | <input checked="" type="checkbox" value="True"/> | True |
| Forward By Reroute T1 Timer * | <input type="text" value="10"/> | 10 |
| Include Original Called Info for Q.SIG Call Diversions * | <input checked="" type="checkbox" value="Only after the first diversion"/> | Only after the first diversion |
| Max Forward UnRegistered Hops to DN * | <input type="text" value="0"/> | 0 |
| CFA CSS Activation Policy * | <input checked="" type="checkbox" value="With Configured CSS"/> | With Configured CSS |

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

Clusterwide Parameters (Feature - Hold Reversion)

| | | |
|--|---|-------|
| Hold Reversion Duration * | <input type="text" value="0"/> | 0 |
| Hold Reversion Notification Interval * | <input type="text" value="30"/> | 30 |
| CFA Destination Override * | <input checked="" type="checkbox" value="False"/> | False |

Done Local intranet



7960 IP (SCCP) Phone Configuration

The screenshot shows the Cisco Unified CM Administration web interface in Microsoft Internet Explorer. The browser title is "Phone Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc." and the address bar shows the URL: <https://172.25.67.151/ccadmin/deviceEdit.do?key=cfbff241-4763-4fd6-981a-9bcf48b5645e>. The page header includes the Cisco logo, "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and navigation menus for "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", "Bulk Administration", and "Help". The user is logged in as "CCMAdministrator".

The main content area is titled "Phone Configuration" and includes a "Related Links" section with a "Back To Find/List" button. Below this is a toolbar with "Save", "Delete", "Copy", "Reset", and "Add New" buttons.

The configuration details are organized into several sections:

- Status:** Status: Ready
- Association Information:** A list of 11 items for configuration:
 - Line [1] - 3501 (no partition)
 - Line [2] - Add a new DN
 - Add a new SD
 - Add a new SD
 - Add a new SD
 - Add a new SD
 - Unassigned Associated Items -----
 - Add a new SD
 - Add a new SURL
 - Add a new BLF SD
 - Add a new BLF Directed Call Park
 - Privacy
- Phone Type:** Product Type: Cisco 7960, Device Protocol: SCCP
- Device Information:** A table of configuration parameters:

| | |
|-----------------------------|---|
| Registration | Registered with Cisco Unified Communications Manager CM-Aries |
| IP Address | 172.20.66.16 |
| MAC Address* | 00192F07EE90 |
| Description | 3501 7960-SCCP |
| Device Pool* | Default View Details |
| Common Device Configuration | < None > View Details |
| Phone Button Template* | Standard 7960 SCCP |
| Softkey Template | Standard User with CallBack |
| Common Phone Profile* | Standard Common Phone Profile |
| Calling Search Space | < None > |
| AAR Calling Search Space | < None > |
| Media Resource Group List | < None > |



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

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <https://172.25.67.151/ccadmin/deviceEdit.do?key=cfbff241-4763-4fd6-981a-9bcf48b5645e> Go Links >>

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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CCMAdministrator About Logout

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

Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Protocol Specific Information

| | |
|---|---|
| Packet Capture Mode* | None |
| Packet Capture Duration | 0 |
| Presence Group* | Standard Presence group |
| Device Security Profile* | Cisco 7960 - Standard SCCP Non-Secure Profile |
| SUBSCRIBE Calling Search Space | < None > |
| <input type="checkbox"/> Unattended Port | |
| <input type="checkbox"/> Require DTMF Reception | |
| <input type="checkbox"/> RFC2833 Disabled | |

Certification Authority Proxy Function (CAPF) Information

| | |
|------------------------|----------------------|
| Certificate Operation* | No Pending Operation |
| Authentication Mode* | By Null String |
| Authentication String | |



Directory Number Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address [dit.do?key=839693da-1e41-3678-f3c9-9e7c1b8b4635&mapkey=453de18f-1deb-45b7-88f4-26e6455646d7&devicekey=cfbff241-4763-4fd6-981a-9bcf48b5645e&index=1](#) Go Links >>

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

Directory Number Configuration Related Links: [Configure Device \(SEP00192F07EE9D\)](#) Go

Save Delete Reset Add New

| | | | |
|-------------------------------|-----------------------------|----------------------|----------|
| Forward No Answer Internal | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward No Answer External | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward No Coverage Internal | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward No Coverage External | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward on CTI Failure | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward Unregistered Internal | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward Unregistered External | <input type="checkbox"/> or | <input type="text"/> | < None > |

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 Settings for All Devices

Hold Reversion Ring Duration (seconds) Setting the Hold Reversion Ring Duration to zero will disable the feature

Hold Reversion Notification Interval (seconds) Setting the Hold Reversion Notification Interval to zero will disable the feature

Done Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151/ccadmin/deviceEdit.do?key=cfbff241-4763-4fd6-981a-9bcf48b5645e> Go Links >>

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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Extension Information

Enable Extension Mobility

Log Out Profile -- Use Current Device Settings --

Log in Time < None >

Log out Time < None >

MLPP Information

MLPP Domain < None >

MLPP Indication* Default

MLPP Preemption* Default

Do Not Disturb

Do Not Disturb

DND Option* Ringer Off

DND Incoming Call Alert < None >

Product Specific Configuration Layout

Disable Speakerphone

Disable Speakerphone and Headset

DND Option* [?]

Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151/ccmadmin/deviceEdit.do?key=cfbff241-4763-4fd6-981a-9bcf48b5645e> Go Links >>

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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

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.

i ***Note: Security Profile Contains Addition CAPF Settings.

Local intranet



Directory Number Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/directoryNumberEdit.do?key=839693da-1e41-3678-f3c9-9e7c1b8b4635&mapkey=453de18f-1deb-45b7-88f4-26e6455646d7&devic> Go Links >>

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

Directory Number Configuration Related Links: Configure Device (SEP00192F07EE90) Go

Save Delete Reset Add New

Status
Status: Ready

Directory Number Information

Directory Number*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

▼ ▲

Dissociate Devices

Directory Number Settings

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

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/directoryNumberEdit.do?key=839693da-1e41-3678-f3c9-9e7c1b8b4635&mapkey=453de18f-1deb-45b7-88f4-26e6455646d7&devi> Go Links >>

Cisco Unified CM Administration
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CCMAdministrator | About | Logout

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

Directory Number Configuration Related Links: [Configure Device \(SEP00192F07EE9D\)](#) Go

Save Delete Reset Add New

Calling Search Space < None >
 Presence Group* Standard Presence group
 User Hold MOH Audio Source < None >
 Network Hold MOH Audio Source < None >
 Auto Answer* Auto Answer Off

AAR Settings

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

Call Forward and Call Pickup Settings

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

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address dit.do?key=839693da-1e41-3678-f3c9-9e7c1b8b4635&mapkey=453de18f-1deb-45b7-88f4-26e6455646d7&devicekey=cfbff241-4763-4fd6-981a-9bcf48b5645e&index=1 Go Links >>

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Directory Number Configuration Related Links: [Configure Device \(SEP00192F07EE9D\)](#) Go

Save Delete Reset Add New

| | | | |
|-------------------------------|-----------------------------|----------------------|----------|
| Forward No Answer Internal | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward No Answer External | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward No Coverage Internal | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward No Coverage External | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward on CTI Failure | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward Unregistered Internal | <input type="checkbox"/> or | <input type="text"/> | < None > |
| Forward Unregistered External | <input type="checkbox"/> or | <input type="text"/> | < None > |

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 Settings for All Devices

Hold Reversion Ring Duration (seconds) Setting the Hold Reversion Ring Duration to zero will disable the feature

Hold Reversion Notification Interval (seconds) Setting the Hold Reversion Notification Interval to zero will disable the feature

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address dit.do?key=839693da-1e41-3678-f3c9-9e7c1b8b4635&mapkey=453de18f-1deb-45b7-88f4-26e6455646d7&devicekey=cfbff241-4763-4fd6-981a-9bcf48b5645e&index=1 Go Links >>

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Directory Number Configuration Related Links: [Configure Device \(SEP00192F07EE90\)](#) Go

Save Delete Reset Add New

Line 1 on Device SEP00192F07EE90

| | | |
|---|---|---|
| Display (Internal Caller ID) | <input type="text" value="One Aries"/> | 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) | <input type="text" value="One Aries"/> | |
| Line Text Label | <input type="text" value="One Aries"/> | |
| ASCII Line Text Label | <input type="text" value="One Aries"/> | |
| External Phone Number Mask | <input type="text"/> | |
| Visual Message Waiting Indicator Policy* | <input type="button" value="Use System Policy"/> | |
| Ring Setting (Phone Idle)* | <input type="button" value="Ring"/> | |
| Ring Setting (Phone Active) | <input type="button" value="Use System Default"/> | Applies to this line when any line on the phone has a call in progress. |
| Call Pickup Group Audio Alert Setting(Phone Idle) | <input type="button" value="Use System Default"/> | |
| Call Pickup Group Audio Alert Setting(Phone Active) | <input type="button" value="Use System Default"/> | |
| Monitoring Calling Search Space | <input type="button" value="< None >"/> | |

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address dit.do?key=839693da-1e41-3678-f3c9-9e7c1b8b4635&mapkey=453de18f-1deb-45b7-88f4-26e6455646d7&devicekey=cfbff241-4763-4fd6-981a-9bcf48b5645e&index=1 Go Links >>

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Directory Number Configuration Related Links: [Configure Device \(SEP00192F07EE90\)](#) Go

Save Delete Reset Add New

Multiple Call/Call Waiting Settings on Device SEP00192F07EE90

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 SEP00192F07EE90

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

Users Associated with Line

Save Delete Reset Add New

i *- indicates required item.

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

Done Local intranet



7961 IP (SIP) Phone Configuration

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

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151/ccadmin/deviceEdit.do?key=a9fe667c-564b-6f2d-c09b-9cddd2ef1d28> Go Links >>

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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Status
Status: Ready

Association Information
Modify Button Items

- Line [1] - 3502 (no partition)
- Line [2] - Add a new DN
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Unassigned Associated Items -----
- Add a new SD
- Add a new SURF
- Add a new BLF SD
- Add a new BLF Directed Call Park
- Intercom [1] - Add a new Intercom

Phone Type
Product Type: Cisco 7961G-GE
Device Protocol: SIP

Device Information

| | |
|-----------------------------|---|
| Registration | Registered with Cisco Unified Communications Manager CM-Aries |
| IP Address | 172.20.66.11 |
| MAC Address* | 001955FA0E5E |
| Description | 3502 7961 SIP Phone |
| Device Pool* | Default View Details |
| Common Device Configuration | < None > View Details |
| Phone Button Template* | Standard 7961G-GE SIP |
| Softkey Template | Standard User |
| Common Phone Profile* | Standard Common Phone Profile |
| Calling Search Space | < None > |
| AAR Calling Search Space | < None > |
| Media Resource Group List | Aries_MRGL |

Done Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151/ccmadmin/deviceEdit.do?key=a9fe667c-564b-6f2d-c09b-9cddd2ef1d28> Go Links >>

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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

| | |
|-------------------|---|
| 12 Do Not Disturb | User Hold MOH Audio Source < None > |
| 13 Privacy | Network Hold MOH Audio Source < None > |
| 14 None | Location* Hub_None |
| | AAR Group < None > |
| | User Locale < None > |
| | Network Locale < None > |
| | Built In Bridge* Default |
| | Privacy* Default |
| | Device Mobility Mode* Default View Current Device |
| | Mobility Settings |
| | Owner User ID < None > |
| | Phone Personalization* Default |
| | Phone Load Name |

Ignore Presentation Indicators (internal calls only)
 Allow Control of Device from CTI
 Logged Into Hunt Group
 Remote Device

Protocol Specific Information

Done Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151/ccmadmin/deviceEdit.do?key=a9fe667c-564b-6f2d-c09b-9cddd2ef1d28> Go Links >>

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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

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

Device Security Profile* Cisco 7961G-GE - Standard SIP Non-Secure Profile

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

Certification Authority Proxy Function (CAPF) Information

Certificate Operation* No Pending Operation

Authentication Mode* By Null String

Authentication String

Done Local intranet



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

File Edit View Favorites Tools Help

Address <https://172.25.67.151/ccadmin/deviceEdit.do?key=a9fe667c-564b-6f2d-c09b-9cddd2ef1d28> Go Links >>

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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Authentication Mode: By Null String
Authentication String:
Generate String
Key Size (Bits)*: 1024
Operation Completes By: 2007 6 14 12 (YYYY:MM:DD:HH)
Certificate Operation Status: None
Note: Security Profile Contains Addition CAPF Settings.

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

Done Local intranet



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Log Out Profile -- Use Current Device Settings --
Log in Time < None >
Log out Time < None >

MLPP Information
MLPP Domain < None >

Do Not Disturb
 Do Not Disturb
DND Option* Ringer Off
DND Incoming Call Alert < None >

Secure Shell Information
Secure Shell User
Secure Shell Password

Product Specific Configuration Layout
 Disable Speakerphone
 Disable Speakerphone and Headset

Done Local intranet



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Product Specific Configuration Layout

- Disable Speakerphone
- Disable Speakerphone and Headset
- PC Port * Enabled
- Settings Access * Enabled
- Gratuitous ARP * Enabled
- PC Voice VLAN Access * Enabled
- Video Capabilities * Disabled
- Auto Line Select * Disabled
- Web Access * Enabled
- Span to PC Port * Disabled
- Logging Display * PC Controlled
- Load Server
- Recording Tone * Disabled
- Recording Tone Local Volume * 100
- Recording Tone Remote Volume * 50
- Recording Tone Duration
- RTCP * Disabled

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| | |
|--|--------------------|
| RTCP* | Disabled |
| "more" Soft Key Timer | 5 |
| Auto Call Select* | Enabled |
| Log Server | |
| Advertise G.722 Codec* | Use System Default |
| Wideband Headset UI Control* | Enabled |
| Wideband Handset UI Control* | Enabled |
| Wideband Headset* | Enabled |
| Wideband Handset* | Use Phone Default |
| Peer Firmware Sharing* | Disabled |
| Cisco Discovery Protocol (CDP): Switch Port* | Enabled |
| Cisco Discovery Protocol (CDP): PC Port* | 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.
i ***Note: Security Profile Contains Addition CAPF Settings.

Done Local intranet



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Back Forward Stop Home Search Favorites Refresh Print Mail Stop Taskbar

Address <https://172.25.67.151:8443/ccmadmin/directoryNumberEdit.do?key=e23d998a-9395-84ac-931d-e3ce920d3702&mapkey=e75060e6-5bdc-b275-c474-f34f40edf69a&device> Go Links >>

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Directory Number Configuration Related Links: Configure Device (SEP001955FA0E5E) Go

Save Delete Reset Add New

Status
Status: Ready

Directory Number Information

Directory Number* 3502

Route Partition < None >

Description

Alerting Name Two Aries

ASCII Alerting Name Two Aries

Allow Control of Device from CTI

Associated Devices SEP001955FA0E5E

▼ ▲

Dissociate Devices

Directory Number Settings

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

Done Local intranet



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File Edit View Favorites Tools Help

Address <https://172.25.67.151:8443/ccmadmin/directoryNumberEdit.do?key=e23d998a-9395-84ac-931d-e3ce920d3702&mapkey=e75060e6-5bdc-b275-c474-f34f40edf69a&device> Go Links >>

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Directory Number Configuration Related Links: [Configure Device \(SEP001955FA0E5E\)](#) Go

Save Delete Reset Add New

Calling Search Space < None >
 Presence Group* Standard Presence group
 User Hold MOH Audio Source < None >
 Network Hold MOH Audio Source < None >
 Auto Answer* Auto Answer Off

AAR Settings

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

Call Forward and Call Pickup Settings

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

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer provided by Cisco Systems, Inc.

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Address <https://172.25.67.151:8443/ccmadmin/directoryNumberEdit.do?key=e23d998a-9395-84ac-931d-e3ce920d3702&mapkey=e75060e6-5bdc-b275-c474-f34f40edf69a&devic> Go Links >>

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Directory Number Configuration Related Links: [Configure Device \(SEP001955FA0E5E\)](#) Go

Save Delete Reset Add New

| | | | | |
|-------------------------------|--------------------------|----|----------------------|----------|
| Forward Busy External | <input type="checkbox"/> | or | <input type="text"/> | < None > |
| Forward No Answer Internal | <input type="checkbox"/> | or | <input type="text"/> | < None > |
| Forward No Answer External | <input type="checkbox"/> | or | <input type="text"/> | < None > |
| Forward No Coverage Internal | <input type="checkbox"/> | or | <input type="text"/> | < None > |
| Forward No Coverage External | <input type="checkbox"/> | or | <input type="text"/> | < None > |
| Forward on CTI Failure | <input type="checkbox"/> | or | <input type="text"/> | < None > |
| Forward Unregistered Internal | <input type="checkbox"/> | or | <input type="text"/> | < None > |
| Forward Unregistered External | <input type="checkbox"/> | or | <input type="text"/> | < None > |

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 Settings for All Devices

Hold Reversion Ring Duration (seconds) Setting the Hold Reversion Ring Duration to zero will disable the feature

Done



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Save Delete Reset Add New

Hold Reversion Notification Interval (seconds) Setting the Hold Reversion Notification Interval to zero will disable the feature

Line 1 on Device SEP001955FA0E5E

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

Visual Message Waiting Indicator Policy*

Audible Message Waiting Indicator Policy*

Ring Setting (Phone Idle)*

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

Call Pickup Group Audio Alert Setting(Phone Idle)

Done Local intranet



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Directory Number Configuration Related Links: [Configure Device \(SEP001955FA0E5E\)](#) Go

Save Delete Reset Add New

Call Pickup Group Audio Use System Default

Alert Setting(Phone Active)

Recording Option* Call Recording Disabled

Recording Profile < None >

Monitoring Calling Search Space < None >

Multiple Call/Call Waiting Settings on Device SEP001955FA0E5E

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

Maximum Number of Calls* 4

Busy Trigger* 2 (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP001955FA0E5E

Caller Name

Caller Number

Redirected Number

Dialed Number

Users Associated with Line

Associate End Users

Done Local intranet

Configuring the Cisco 3825

PBX_A#sh ver

Cisco IOS Software, 3800 Software (C3825-IPVOICE-M), Experimental Version 12.4(20060425:234737) [elou-dz06790 173]
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Tue 25-Apr-06 17:27 by elou

ROM: System Bootstrap, Version 12.3(11r)T1, RELEASE SOFTWARE (fc1)

PBX_A uptime is 6 days, 37 minutes

System returned to ROM by reload at 18:31:41 PST Tue Jul 3 2007

System restarted at 18:32:33 PST Tue Jul 3 2007

System image file is "flash:c3825-ipvoice-mz.dz06790"



Cisco 3825 (revision 1.0) with 226304K/35840K bytes of memory.
Processor board ID FHK0847F0QM
2 Gigabit Ethernet interfaces
109 Serial interfaces
2 Channelized E1/PRI ports
2 Channelized T1/PRI ports
2 Voice FXO interfaces
2 Voice FXS interfaces
DRAM configuration is 64 bits wide with parity enabled.
479K bytes of NVRAM.
62592K bytes of ATA System CompactFlash (Read/Write)

Configuration register is 0x2102

PBX_A#

PBX_A#sh run
Building configuration...

```
Current configuration : 3561 bytes
!
! Last configuration change at 14:19:41 PST Mon Jul 9 2007
! NVRAM config last updated at 14:19:56 PST Mon Jul 9 2007
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname PBX_A
!
boot-start-marker
boot system flash:c3825-ipvoice-mz.dz06790
boot system flash:c3825-ipvoice-mz.124-3a.bin
boot-end-marker
!
card type t1 1 0
logging buffered 1000000 debugging
enable secret 5 $1$yxlm$dISbwKK6d8UvEDxhJ3Tr61
!
no aaa new-model
clock timezone PST -7
no network-clock-participate slot 1
network-clock-participate wic 0
voice-card 0
no dspfarm
!
voice-card 1
dspfarm
!
ip cef
!
!
!
!
ip domain name pbxlab.org
ip name-server 172.20.2.181
ip name-server 171.70.168.183
```




```
no ip address
encapsulation hdlc
isdn switch-type primary-qsig
isdn protocol-emulate network
isdn incoming-voice voice
isdn T310 120000
isdn bind-l3 ccm-manager
no cdp enable
!
interface Serial1/0/0:23
no ip address
encapsulation hdlc
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-l3 ccm-manager
no isdn outgoing ie facility
no isdn outgoing ie notify-indicator
no isdn outgoing display-ie
no cdp enable
!
interface Serial1/0/1:23
no ip address
encapsulation hdlc
isdn switch-type primary-qsig
isdn protocol-emulate network
isdn incoming-voice voice
isdn T310 120000
isdn bind-l3 ccm-manager
no cdp enable
!
ip route 0.0.0.0 0.0.0.0 172.20.66.1
!
ip http server
!
!
!
!
control-plane
!
!
!
voice-port 0/0/0:15
compand-type u-law
!
voice-port 0/1/0
!
voice-port 0/1/1
!
voice-port 0/0/1:15
!
voice-port 0/2/0
!
voice-port 0/2/1
!
voice-port 1/0/0:23
!
voice-port 1/0/1:23
!
```



```
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 172.20.66.254
ccm-manager config
!
mgcp
mgcp call-agent 172.20.66.254 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 bind control source-interface GigabitEthernet0/0
mgcp bind media source-interface GigabitEthernet0/0
!
mgcp profile default
!
!
!
!
line con 0
  stopbits 1
line aux 0
  stopbits 1
line vty 0 4
  session-timeout 120
  exec-timeout 0 0
  password cisco
  login
line vty 5 10
  session-timeout 120
  exec-timeout 0 0
  password cisco
  login
!
scheduler allocate 20000 1000
ntp clock-period 17178799
ntp server 171.68.10.80
ntp server 171.68.10.150
!
end
```



Acronyms

| Acronym | Definitions |
|---------|---|
| ANF-PR | Additional Network Feature Path Replacement |
| AOC | Advice-of-charge. Information element is sent with the connection setup information for incoming Euro-ISDN connections. The AOC IE is used for call charge calculation. |
| CUCM | Cisco Unified Communication Manager |
| CCBS | Call Completion to Busy Subscriber |
| CCNR | Call Completion on No Reply |
| CFB | Call Forwarding on Busy |
| CFNR | Call Forwarding No Reply |
| CFU | Call Forwarding Unconditional |
| CLIP | Calling Line (Number) Identification Presentation |
| CLIR | Calling Line (Number) Identification Restriction |
| CNIP | Calling Name Identification Presentation |
| CNIR | Calling Name Identification Restriction |
| COLP | Connected Line (Number) Identification Presentation |
| COLR | Connected Line (Number) Identification Restriction |
| CONP | Connected Name Identification Presentation |
| CONR | Connected Name Identification Restriction |
| CT | Call Transfer |
| MWI | Message Waiting Indicator |
| PSTN | Public Switched Telephone Network |



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