



# Nortel CS1000E Release 5.0 Using T1 QSIG to Cisco Unified Communications Manager 7.0

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## Introduction

- This application note describes the steps and configurations necessary for Nortel Communication Server (CS) 1000E release 5.0 PBX to interoperate with Cisco Unified Communications Manager (CUCM) release 7.0 using a Cisco 3825 T1 QSIG router as the Media Gateway Control Protocol (MGCP) gateway.
- The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with CUCM connected to the PBX via a 3825 T1 QSIG router link as the MGCP gateway.
- Connectivity is achieved by using the PRI QSIG T1 protocol type on the MGCP gateway and ISO QSIG switch type on the Nortel CS 1000E release 5.0 PBX.
- This application note uses the 3825 T1 voice gateway. However, other Cisco voice gateways are also an option to use since CUCM QSIG implementation does not depend on the physical interface.

## Network Topology

Figure 1. Basic Call Setup

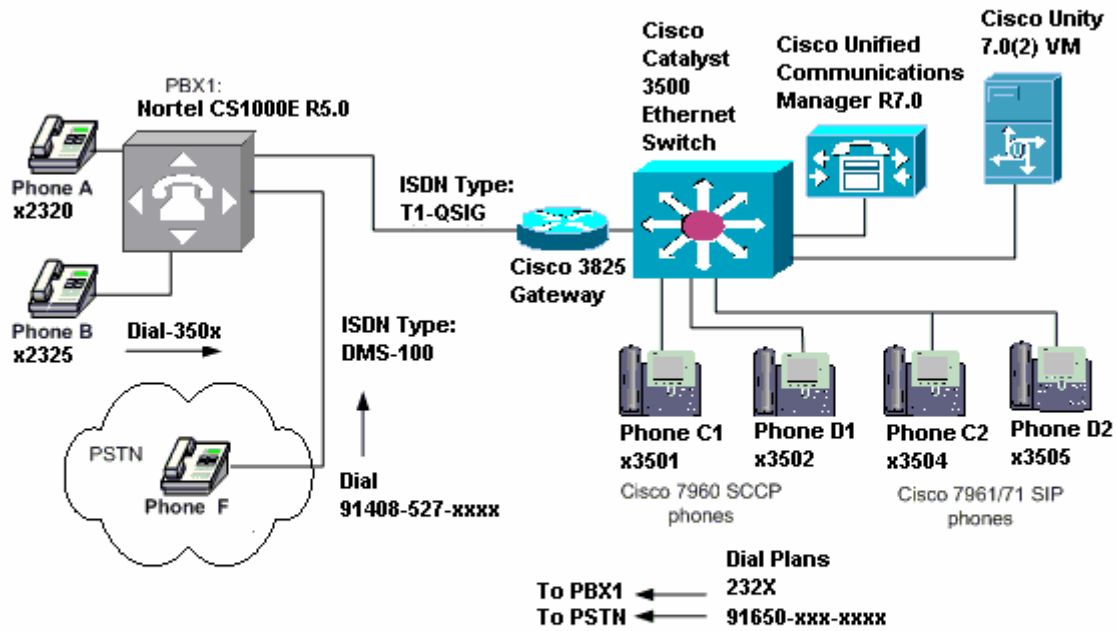
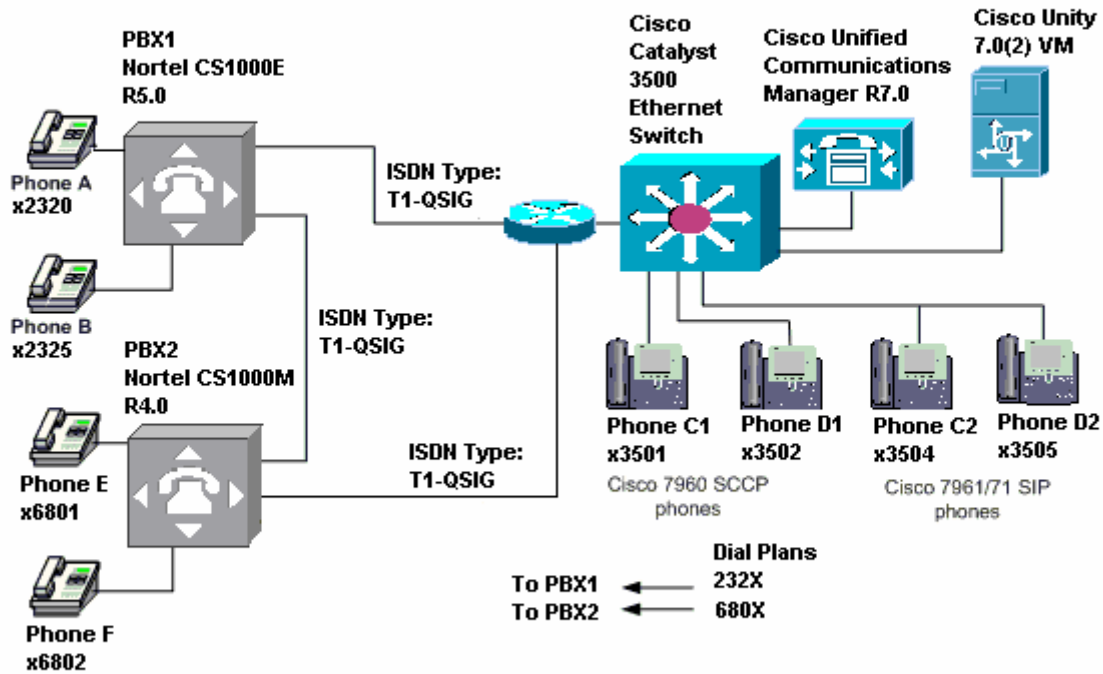


Figure 2. Call Setup for Path Replacement (Route Optimization) in 3 PINX Scenario



## Limitations

### Call Forwarding by Join Notification

- For forwarded calls where the Nortel phone is the final destination, the calling name display depends on the class of service (CoS) setting of the terminating phone. With CLS = DNDD, the terminating phone displays the originating phone's name. With CLS = DNDA, the terminating phone displays the name of the forwarding or originally called party.

### Busy Name Presentation

- Both the CUCM and the Nortel PBX send a "Busy Name" information element in the disconnect message to the originating side when receiving a call directed to a station that is currently in a busy state. However, CUCM does not support presentation of this information. The Nortel digital phone display does show the BUSY name information sent back by the CUCM if Call Completion on Busy Subscriber (CCBI) is DISABLED in the RCAP under LD 17. If CCBI is ENABLED, the digital/IP phone display shows the prompt "DESTINATION BUSY, ACTIVATE RING AGAIN?" to trigger the callback feature.

### Call Forwarding (Diversion) by Reroute



- Nortel CS 1000E 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. Nortel CS 1000E, 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 CS 1000M PBX release 5.0 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 CUCM 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 the Nortel server during the call. The Nortel server, however, will respond to a Path Replacement Proposal message sent by another node by initiating a new SETUP message to an alternate route.
- As a workaround, in cases where the Path Replacement is not initiated by the PBX, call forward by reroute may be used on CUCM 7.0 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.
- 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 CUCM 5.0. A call was placed from a station on Nortel Meridian 1 PBX release 25.15 to a station on CUCM, 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 CS 1000E 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 3825 router with VWIC2-2MFT-T1/E1 on NM-HDV
- CUCM server
- Cisco Unified IP phones 7960 and 7961
- Nortel CS 1000E PBX

### Software Requirements

The following software is required:

- CUCM Release 7.0
- Nortel CS 1000E PBX Release 5.0
- Cisco IOS Release 12.4

## Features

This section lists supported and unsupported features.

### Features Supported

- CLIP: Calling line (number) identification presentation.
- CLIR: Calling line (number) identification restriction.
- CNIP: Calling name identification presentation.
- CNIR: Calling name identification restriction.



- COLP: Connected line (number) identification presentation.
- COLR: Connected line (number) identification restriction.
- CONP: Connected name identification presentation.
- CONR: Connected name identification restriction.
- Sending Alerting Name.
- Sending Busy Name—See the Limitations section on page 4.
- CT: Call Transfer by Join.
- CFU: Call Forwarding Unconditional (by Join)—See the Limitations section for caveats on display.
- CFB: Call Forwarding Busy (by Join)—See the Limitations section for caveats on display.
- CNFR: Call Forwarding No Reply (by Join)—See the Limitations section for caveats on display.
- CFU: Call Forwarding Unconditional (by Reroute)—See the Limitations section.
- CFB: Call Forwarding Busy (by Reroute)—See the Limitations section.
- CFNR: Call Forwarding No Reply (by Reroute)—See the Limitations section.
- Call Back/CCBS: Call Completion to Busy Subscriber.
- Call Back/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).
- IDivert to voice mail

## **Configuration**

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

### **Configuring the Nortel CS 1000E PBX with Software Release 5.0**

Configure in the following sequence:

1. The common equipment.
2. The D-channel.
3. The route data block.
4. The trunk data block.
5. The coordinated dialing plan.
6. The digital station phone.

### **Configuring the Nortel CS 1000E IP PBX**

COMMON EQUIPMENT CONFIGURATION (LD 17)



>ld 22  
PT2000

REQ prt  
**TYPE cequ**

CEQU  
MPED 8D  
TERM  
REMO  
TERD  
REMD  
TERQ  
REMQ  
SUPL V000 V020  
SUPC  
SUPF  
XCT  
CONF  
MGTDS IPMG IPMG\_TYPE  
100 000 0 MGC  
102 000 0 MGC  
MGCONF IPMG PORTS IPMG\_TYPE  
101 000 0 30 MGC  
103 000 0 30 MGC  
MFSD \* 100 \* 102

DLOP NUM DCH FRM TMDI LCMT YALM T1TE TRSH MG\_CARD  
PRI 011 24 ESF NO B8S FDL - 00 000 0 01  
012 24 ESF NO B8S FDL - 00 000 0 02  
PRI2 MG\_CARD  
014 000 0 04  
DTI2 MG\_CARD  
MISP MG\_CARD  
EXT0 3PE  
EXT1 3PE  
MCFN 011 MB

D-CHANNEL CONFIGURATION (LD 17)

LD 22  
REQ prt  
**TYPE adan**  
ADAN DCH 11  
CTYP MSDL  
MG\_CARD 000 0 01  
PORT 1  
DES T1QSIG  
USR PRI  
DCHL 11  
OTBF 32  
PARM RS422 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 NO  
T310 120  
T200 3  
T203 10  
N200 3  
N201 260  
K 7  
ADAN DCH 12  
CTYP MSDL  
MG\_CARD 000 0 02  
PORT 1  
DES T1QSIG  
USR PRI  
DCHL 12  
OTBF 32  
PARM RS422 DTE  
DRAT 64KC  
CLOK EXT  
IFC ISGF  
PINX\_CUST 0  
ISDN\_MCNT 300  
CLID OPT0  
CO\_TYPE STD  
SIDE NET  
CNEG 1  
RLS ID \*\*  
RCAP COLP NDI CCBI CCNI PRI DV3I CTI QMWI  
PR\_TRIGS DIV 2 3  
CNG 2 3  
CTR2 2 3  
PR\_RTN NO  
MBGA NO  
OVLN YES  
DIDD 0  
OVLS NO  
T310 120  
T200 3



T203 10  
N200 3  
N201 260  
K 7

REQ

ROUTE DATA BLOCK CONFIGURATION (LD 16)

>LD 21  
PT1000

REQ: PRT  
TYPE: RDB  
CUST 0  
ROUT 101

**TYPE RDB**

CUST 00  
ROUT 101  
DES T1QSIG  
TKTP TIE  
M911P NO  
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 704  
TCPP NO  
TARG 01  
CLEN 1  
BILN NO  
OABS  
INST  
ANTK  
SIGO STD  
ICIS YES  
TIMR ICF 512  
    OGF 512  
    EOD 13952  
    NRD 10112  
    DDL 70  
    ODT 4096  
    RGV 640  
    GRD 896  
    SFB 3  
    NBS 2048  
    NBL 4096

IENB 5  
TFD 0  
VSS 0

PAGE 002

    VGD 6  
DRNG NO  
CDR NO  
VRAT NO  
MUS NO  
OHQ NO  
OHQT 00  
CBQ NO  
AUTH NO  
TDET NO  
TTBL 0  
ATAN NO  
PLEV 2  
ALRM NO  
ART 0  
SGRP 0  
ARDN NO  
AACR NO

REQ: PRT  
TYPE: RDB  
CUST 0  
ROUT 102



**TYPE RDB**

CUST 00  
ROUT 102  
DES T1QSIG  
TKTP TIE  
M911P NO  
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 705  
TCPP NO  
TARG 01  
CLEN 1  
BILN NO  
OABS  
INST  
ANTK  
SIGO STD  
ICIS YES  
TIMR ICF 512  
    OGF 512  
    EOD 13952  
    NRD 10112



DDL 70  
ODT 4096  
RGV 640  
GRD 896  
SFB 3  
NBS 2048  
NBL 4096

IENB 5  
TFD 0  
VSS 0

PAGE 002

VGD 6  
DRNG NO  
CDR NO  
VRAT NO  
MUS NO  
OHQ NO  
OHQT 00  
CBQ NO  
AUTH NO  
TDET NO  
TTBL 0  
ATAN NO  
PLEV 2  
ALRM NO  
ART 0  
SGRP 0  
ARDN NO  
AACR NO

REQ:

TRUNK DATA BLOCK CONFIGURATION (LD 14)  
> ld 20

PT0000  
REQ: prt  
**TYPE: tnb**  
TN 011 1  
DATE  
PAGE  
DES

DES T1QSIG  
TN 011 01 VIRTUAL  
TYPE TIE  
CDEN SD  
CUST 0  
TRK PRI



PDCA 1  
PCML MU  
NCOS 0  
RTMB 101 1  
B-CHANNEL SIGNALING  
TGAR 0  
AST NO  
IAPG 0  
CLS UNR DTN CND ECD WTA LPR APN THFD HKD SPCD  
P10 VNL  
TKID  
AACR NO  
DATE 6 JUN 2008

NACT  
REQ: prt  
TYPE: tnb  
TN 012 1  
DATE  
PAGE  
DES

DES T1QSIG  
TN 012 01 VIRTUAL  
TYPE TIE  
CDEN SD  
CUST 0  
TRK PRI  
PDCA 1  
PCML MU  
NCOS 0  
RTMB 102 1  
B-CHANNEL SIGNALING  
TGAR 1  
AST NO  
IAPG 0  
CLS UNR DTN CND ECD WTA LPR APN THFD HKD SPCD  
P10 VNL  
TKID  
AACR NO  
DATE 6 JUN 2008

NACT

ROUTE LIST BLOCK (LD 86)  
>ld 86  
ESN000

MEM AVAIL: (U/P): 99165874 USED U P: 5049349 54598 TOT: 104269821  
DISK SPACE NEEDED: 47 KBYTES



REQ prt  
CUST 0  
**FEAT rlb**  
RLI 1

RLI 1  
ENTR 0  
LTER NO  
ROUT 101  
TOD 0 ON 1 ON 2 ON 3 ON  
4 ON 5 ON 6 ON 7 ON  
VNS NO  
CNV NO  
EXP NO  
FRL 0  
DMI 0  
FCI 0  
FSNI 0  
SBOC NRR  
IDBB DBD  
IOHQ NO  
OHQ NO  
CBQ NO

ISET 0  
NALT 5  
MFRL 0  
OVLL 0

MEM AVAIL: (U/P): 99165874 USED U P: 5049349 54598 TOT: 104269821  
DISK SPACE NEEDED: 47 KBYTES

REQ prt  
CUST 0  
FEAT rlb  
RLI 2

RLI 2  
ENTR 0  
LTER NO  
ROUT 102  
TOD 0 ON 1 ON 2 ON 3 ON  
4 ON 5 ON 6 ON 7 ON  
VNS NO  
CNV NO  
EXP NO  
FRL 0  
DMI 0  
FCI 0  
FSNI 0  
SBOC NRR  
IDBB DBD  
IOHQ NO



OHQ NO  
CBQ NO

ISET 0  
NALT 5  
MFRL 0  
OVLL 0

MEM AVAIL: (U/P): 99165874 USED U P: 5049349 54598 TOT: 104269821  
DISK SPACE NEEDED: 47 KBYTES  
REQ

COORDINATED DIALING PLAN (LD 87)  
>LD 87  
ESN000

MEM AVAIL: (U/P): 99166898 USED U P: 5049015 53908 TOT: 104269821  
DISK SPACE NEEDED: 46 KBYTES  
REQ PRT  
CUST 0  
FEAT CDP  
**TYPE DSC**  
DSC 350  
DSC 350  
FLEN 0  
DSP LSC  
RLI 1  
NPA  
NXX

MEM AVAIL: (U/P): 99166898 USED U P: 5049015 53908 TOT: 104269821  
DISK SPACE NEEDED: 46 KBYTES  
REQ prt  
CUST 0  
FEAT cdp  
TYPE dsc  
DSC 680  
DSC 680  
FLEN 0  
DSP LSC  
RLI 2  
NPA  
NXX

STATION PHONE CONFIGURATION (LD 11)  
>ld 11  
SL1000

MEM AVAIL: (U/P): 99166898 USED U P: 5049015 53908 TOT: 104269821  
DISK SPACE NEEDED: 46 KBYTES  
DIGITAL TELEPHONES AVAIL: 5 USED: 3 TOT: 8  
IP USERS AVAIL: 18 USED: 6 TOT: 24



BASIC IP USERS AVAIL: 7 USED: 1 TOT: 8  
TEMPORARY IP USERS AVAIL: 0 USED: 0 TOT: 0  
ACD AGENTS AVAIL: 10 USED: 0 TOT: 10  
PCA AVAIL: 4 USED: 1 TOT: 5  
AST AVAIL: 4 USED: 1 TOT: 5  
SIP CONVERGED DESKTOPS AVAIL: 0 USED: 0 TOT: 0  
SIP CTI TR87 AVAIL: 4 USED: 1 TOT: 5  
TNS AVAIL: 32549 USED: 211 TOT: 32760  
DATA PORTS AVAIL: 32760 USED: 0 TOT: 32760

IP PHONE LINE  
REQ: prt  
**TYPE: 2004p2**

TN 020 0 00 03  
DATE  
PAGE  
DES  
MODEL\_NAME  
EMULATED  
KEM\_RANGE

DES CS2320  
TN 020 0 00 03 VIRTUAL

TYPE 2004P2  
CDEN 8D  
CTYP XDLC  
CUST 0  
NUID  
NHTN  
CFG\_ZONE 000  
CUR\_ZONE 000  
ERL 0  
ECL 0  
FDN 3503  
TGAR 0  
LDN NO  
NCOS 0  
SGRP 0  
RNPG 0  
SCI 0  
SSU  
XLST

CLS UNR FBA WTA LPR MTD FNA HTA TDD HFA CRPD  
MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1  
POD DSX VMD SLKD CCSD SWD LND CNDA  
CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBF  
ICDD CDMD LLCN MCTD CLBD AUTU  
GPUD DPUD DNDA CFXA ARHD CLTD ASCD  
CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD  
AHD DDGA NAMA  
DRDD EXR0  
USMD USRD ULAD RTDD RBDD RBHD PGND FLXD FTTC DNDN DNO3 MCBN



VOLA VOUD CDMR ICRD MCDD T87D KEM2 MSNV FRA PKCH

CPND\_LANG ENG

RCO 0

HUNT 3503

LHK 0

PLEV 02

DANI NO

AST

IAPG 0

AACS NO

ITNA NO

DGRP

MLWU\_LANG 0

MLNG ENG

DNDR 0

KEY 00 SCR 2320 0 MARP

CPND

NAME test20

XPLN 13

DISPLAY\_FMT FIRST, LAST

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17 TRN

18 AO6

19 CFW 16 3502

20 RGA

21 PRK

22 RNP

23

24 PRS

25 CHG

26 CPN

27

28

29

30

31

DATE 14 AUG 2008

NACT





DIGITAL LINES

REQ: prt

**TYPE: 2616**

TN 000 0 07 00

DATE

PAGE

DES

DES T2325

TN 000 0 07 00 VIRTUAL

TYPE 2616

CDEN 8D

CTYP XDLC

CUST 0

AOM 0

ERL 0

FDN 2325

TGAR 1

LDN NO

NCOS 0

SGRP 0

RNPG 0

SCI 0

SSU

XLST

CLS CTD FBA WTA LPR MTD FNA HTD ADD HFD

MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1

POD DSX VMD SLKD CCSD SWD LND CNDA

CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCB

ICDD CDMD LLCN MCTD CLBD AUTU

GPUD DPUD DNDD CFXA ARHD CLTD ASCD

CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD

AHD DDGA NAMA

DRDD EXR0

USMD USRD ULAD RTDD RBDD RBHD PGND FLXD FTTC DNDY DNO3 MCBN

CDMR MCDD T87D PKCH

CPND\_LANG ENG

RCO 0

HUNT 2325

LHK 0

PLEV 02

DANI NO

AST

IAPG 0

AACS NO

ITNA NO

DGRP

MLWU\_LANG 0

DNDR 0

KEY 00 SCR 2325 0 MARP

CPND

NAME test2335



XPLN 13  
DISPLAY\_FMT FIRST, LAST

- 01
- 02
- 03 CFW 4 3502
- 04 AO6
- 05 TRN
- 06
- 07
- 08
- 09
- 10
- 11
- 12
- 13
- 14
- 15

DATE 14 AUG 2008  
NACT

SOFTWARE RELEASE (LD 22)  
>ld 22  
PT2000

REQ iss

VERSION 4021  
RELEASE 5  
ISSUE 00 W +  
IDLE\_SET\_DISPLAY NORTEL

IPMG	TYPE	CSP/SW	MSP	APP	FPGA	BOOT	DBL1	DBL2
0	0	MGC	AD31	AA06	AA04	AA12	AD27	DSP1AA07 N/A

FEATURES / PACKAGES INSTALLED (LD 22)

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
BARS	57
NARS	58
CDP	59
PQUE	60
FCBQ	61
OHQ	62
NAUT	63
SNR	64
TDET	65
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
FXS	152



IAP3P	153
PRI2	154
ACNT	155
THF	157
FGD	158
NAS	159
FNP	160
ISDN_INTL_SUP	161
SAR	162
MINT	163
LAPW	164
GPRI	167
ARIE	170
CPGS	172
ECCS	173
AAA	174
NMS	175
EOVF	178
HVS	179
DKS	180
SACP	181
VNS	183
OVL	184
EDRG	185
POVR	186
SECL	191
ORC-RVQ	192
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
MSDL SDI	227
MSDL STA	228
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
ARFW	253
PHTN	254
ADMINSET	256
ATX	258
CDRX	259
EURO	261
QSIG	263
REM_IPE	286
NI-2	291
MAT	296
MQA	297
CORENET	299
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
ESA_EXTERNAL_DM	337
MEET	348
MC32	350
DBA	351
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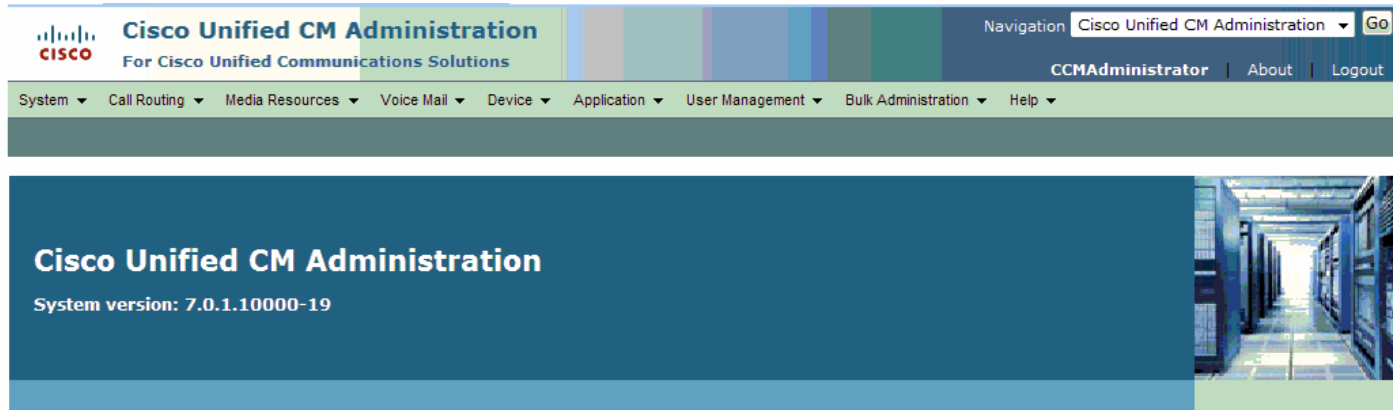


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REQ

## Configuring Cisco Unified Communications Manager

CUCM Software Version 7.0



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CUCM Gateway Configuration



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**Gateway Configuration** Related Links: Back To Find/List Go

Save Delete Reset Add New

**Status**  
Status: Ready

**Gateway Details**

Product	Cisco 3825
Gateway	router
Protocol	MGCP
Domain Name*	router
Description	router 192.20.192.102
Cisco Unified Communications Manager Group*	Default

**Configured Slots, VICs and Endpoints**

Module in Slot 0	< None >
Module in Slot 1	< None >
Module in Slot 2	NM-HDV
Subunit 0	VVIC-2MFT-T1
	2/0/ 0 T1PRI
	2/0/ 1 T1PRI

**Product Specific Configuration Layout**

Done

Internet | Protected Mode: On 100%





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

Save **X** Delete Reset **+** Add New

**Configured Slots, VICs and Endpoints**

Module in Slot 0 < None > ▾  
Module in Slot 1 < None > ▾  
Module in Slot 2 NM-HDV ▾  
Subunit 0 VWIC-2MFT-T1 ▾ 2/0/ 0 2/0/ 1

**Product Specific Configuration Layout** ?

Global ISDN Switch Type primary-qsig ▾  
Switchback Timing\* Graceful ▾  
Switchback uptime-delay (min) 10  
Switchback schedule (hh:mm) 12:00  
Type Of DTMF Relay\* Current GW Config ▾  
Fax mode\* Fax Relay ▾  
Modem Passthrough\* Enable ▾

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

Save **X** Delete Reset

**Status**

Status: Ready

**Device Information**

Product	Cisco MGCP T1 Port
Gateway	router
Device Protocol	Digital Access PRI
Registration	Registered with Cisco Unified Communications Manager cm-spurs
IP Address	172.20.192.102
End-Point Name *	S2/SU0/DS1-0@router
Description	S2/SU0/DS1-0@router
Device Pool*	Default ▾
Common Device Configuration	< None > ▾
Call Classification*	Use System Default ▾
NetworkLocale	< None > ▾
Packet Capture Mode*	None ▾
Packet Capture Duration	0
Media Resource Group List	MRGL ▾
Location*	Hub_None ▾
BAR Group	- None -



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**Gateway Configuration** Related Links: Back to MGCP Configuration **Go**

Save Delete Reset

Media Resource Group List MRGL ▾  
Location\* Hub\_None ▾  
AAR Group < None > ▾  
Load Information   
Use Trusted Relay Point\* Default ▾

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**



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

**Interface Information**

PRI Protocol Type*	<input type="text" value="PRI ISO QSIG T1"/>
Protocol Side*	<input type="text" value="Network"/>
Channel Selection Order*	<input type="text" value="Top Down"/>
Channel IE Type*	<input type="text" value="Use Number when 1B"/>
PCM Type*	<input type="text" value="μ-law"/>
Delay for first restart (1/8 sec ticks)*	<input type="text" value="32"/>
Delay between restarts (1/8 sec ticks)*	<input type="text" value="4"/>

Inhibit restarts at PRI initialization  
 Enable status poll  
 Unattended Port  
 Enable G.Clear

**Call Routing Information - Inbound Calls**

Significant Digits*	<input type="text" value="All"/>
Calling Search Space	<input type="text" value="Incoming TrunkCCS"/>
AAR Calling Search Space	<input type="text" value="&lt; None &gt;"/>



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**Gateway Configuration** Related Links: Back to MGCP Configuration **Go**

Save ~~X~~ Delete Reset

**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	<input type="text"/>
SMDI Base Port*	0 <input type="text"/>
Called Party Transformation CSS	< None > ▾
<input checked="" type="checkbox"/> Use Device Pool Called Party Transformation CSS	
Calling Party Transformation CSS	< None > ▾
<input checked="" type="checkbox"/> Use Device Pool Calling Party Transformation CSS	



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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\*

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**Gateway Configuration** Related Links: Back to MGCP Configuration **Go**

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**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

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



## Enblock Route Pattern Configuration

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### Route Pattern Configuration

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

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

**Status**  
Status: Ready

**Pattern Definition**

Route Pattern*	23XX
Route Partition	< None >
Description	pattern to Nortel CS104
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence*	Default
Resource Priority Namespace Network Domain	< None >
Gateway/Route List*	S2/SU0/DS1-0@router <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern No Error
Call Classification*	OffNet

Allow Device Override  Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority  
 Require Forced Authorization Code



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

Save Delete Copy Add New

Require Forced Authorization Code  
Authorization Level\*   
 Require Client Matter Code

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask  
Calling Party Transform Mask   
Prefix Digits (Outgoing Calls)   
Calling Line ID Presentation\*   
Calling Name Presentation\*   
Calling Party Number Type\*   
Calling Party Numbering Plan\*

**Connected Party Transformations**

Connected Line ID Presentation\*   
Connected Name Presentation\*





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**Connected Party Transformations**

Connected Line ID Presentation\* Default

Connected Name Presentation\* Default

**Called Party Transformations**

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type\* Cisco CallManager

Called Party Numbering Plan\* Cisco CallManager

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol -- Not Selected --

Carrier Identification Code

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

Save Delete Copy Add New



## Overlap Sending Route Pattern Configuration

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

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**Status**

Status: Ready

**Pattern Definition**

Route Pattern*	9.X
Route Partition	< None >
Description	Overlap dial to CS101
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence*	Default
Resource Priority Namespace Network Domain	< None >
Gateway/Route List*	S2/SU0/DS1-0@router <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern No Error
Call Classification*	OffNet
<input checked="" type="checkbox"/> Allow Device Override <input checked="" type="checkbox"/> Provide Outside Dial Tone <input checked="" type="checkbox"/> Allow Overlap Sending <input checked="" type="checkbox"/> Urgent Priority	
<input type="checkbox"/> Require Forced Authorization Code	
Authorization Level*	0



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

Save Delete Copy Add New

Require Client Matter Code

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\* Default

Calling Name Presentation\* Default

Calling Party Number Type\* Cisco CallManager

Calling Party Numbering Plan\* Cisco CallManager

**Connected Party Transformations**

Connected Line ID Presentation\* Default

Connected Name Presentation\* Default



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

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**Called Party Transformations**

Discard Digits PreDot

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type\* Cisco CallManager

Called Party Numbering Plan\* Cisco CallManager

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol -- Not Selected --

Carrier Identification Code

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

Save Delete Copy Add New

**i** \*- indicates required item.



Route Pattern to Nortel CallPilot

The screenshot displays the Cisco Unified CM Administration web interface. At the top, the navigation bar includes the Cisco logo, the title "Cisco Unified CM Administration", and the user role "CCMAdministrator". A main menu contains various system management options. The current page is titled "Route Pattern Configuration" and features a toolbar with "Save", "Delete", "Copy", and "Add New" actions. Below the toolbar, the "Status" section indicates the configuration is "Ready". The "Pattern Definition" section contains the following fields:

- Route Pattern\*: 2500
- Route Partition: < None >
- Description: route to Nortel Call pilot VM system
- Numbering Plan: -- Not Selected --
- Route Filter: < None >
- MLPP Precedence\*: Default
- Resource Priority Namespace Network Domain: < None >
- Gateway/Route List\*: S2/SU0/DS1-0@router (with an [Edit](#) link)
- Route Option:  Route this pattern,  Block this pattern No Error
- Call Classification\*: OnNet

At the bottom of the configuration section, there are four checkboxes: "Allow Device Override", "Provide Outside Dial Tone", "Allow Overlap Sending", and "Urgent Priority". A fifth checkbox, "Require Forced Authorization Code", is also present.



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### Route Pattern Configuration

Related Links:

Require Forced Authorization Code  
Authorization Level\*

Require Client Matter Code

#### Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*

Calling Party Number Type\*

Calling Party Numbering Plan\*

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

Save
 Delete
 Copy
 Add New

**Called Party Transformations**

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type\* Cisco CallManager

Called Party Numbering Plan\* Cisco CallManager

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol -- Not Selected --

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
-- Not Selected --	< Not Exist >	<input style="width: 100%;" type="text"/>

Save
Delete
Copy
Add New

\*- indicates required item.



Route Pattern to Nortel CS 1000E

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**Route Pattern Configuration** Related Links:

**Status**

Status: Ready

**Pattern Definition**

Route Pattern*	<input type="text" value="23XX"/>
Route Partition	<input style="border: 1px solid #ccc;" type="text" value=" &lt; None &gt; "/>
Description	<input type="text" value="pattern to Nortel CS104"/>
Numbering Plan	<input type="text" value="-- Not Selected --"/>
Route Filter	<input style="border: 1px solid #ccc;" type="text" value=" &lt; None &gt; "/>
MLPP Precedence*	<input type="text" value="Default"/>
Resource Priority Namespace Network Domain	<input style="border: 1px solid #ccc;" type="text" value=" &lt; None &gt; "/>
Gateway/Route List*	<input type="text" value="S2/SU0/DS1-0@router"/> <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="No Error"/>
Call Classification*	<input type="text" value="OffNet"/>

Allow Device Override  Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority  
 Require Forced Authorization Code





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**Route Pattern Configuration** Related Links:

Require Forced Authorization Code  
Authorization Level\*   
 Require Client Matter Code

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask  
Calling Party Transform Mask   
Prefix Digits (Outgoing Calls)   
Calling Line ID Presentation\*   
Calling Name Presentation\*   
Calling Party Number Type\*   
Calling Party Numbering Plan\*

**Connected Party Transformations**

Connected Line ID Presentation\*   
Connected Name Presentation\*

**Called Party Transformations**



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

Save Delete Copy Add New

**Connected Party Transformations**

Connected Line ID Presentation\* Default  
Connected Name Presentation\* Default

**Called Party Transformations**

Discard Digits < None >  
Called Party Transform Mask  
Prefix Digits (Outgoing Calls)  
Called Party Number Type\* Cisco CallManager  
Called Party Numbering Plan\* Cisco CallManager

**ISDN Network-Specific Facilities Information Element**

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

Save Delete Copy Add New



CLIR/CNIR on 23xx Route Pattern

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### Route Pattern Configuration

Related Links:


**Status**

Status: Ready

**Pattern Definition**

Route Pattern*	<input type="text" value="23XX"/>
Route Partition	<input type="text" value="&lt; None &gt;"/>
Description	<input type="text" value="pattern to Nortel CS104"/>
Numbering Plan	<input type="text" value="-- Not Selected --"/>
Route Filter	<input type="text" value="&lt; None &gt;"/>
MLPP Precedence*	<input type="text" value="Default"/>
Resource Priority Namespace Network Domain	<input type="text" value="&lt; None &gt;"/>
Gateway/Route List*	<input type="text" value="S2/SU0/DS1-0@router"/> <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="No Error"/>
Call Classification*	<input type="text" value="OffNet"/>

Allow Device Override  Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority



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

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Require Forced Authorization Code  
 Authorization Level\*   
 Require Client Matter Code

**Calling Party Transformations**
 Use Calling Party's External Phone Number Mask  
 Calling Party Transform Mask   
 Prefix Digits (Outgoing Calls)   
 Calling Line ID Presentation\* Restricted ▼  
 Calling Name Presentation\* Restricted ▼  
 Calling Party Number Type\* Cisco CallManager ▼  
 Calling Party Numbering Plan\* Cisco CallManager ▼

**Connected Party Transformations**  
 Connected Line ID Presentation\* Default ▼  
 Connected Name Presentation\* Default ▼



Translation Pattern 35xx: Connected Name and Number Restrictions

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

Save Delete Copy Add New

**Status**

Status: Ready

**Pattern Definition**

Translation Pattern	35XX
Partition	Incomming trunk ▾
Description	Incoming trunk to CUCM
Numbering Plan	< None > ▾
Route Filter	< None > ▾
MLPP Precedence*	Default ▾
Resource Priority Namespace Network Domain	< None > ▾
Calling Search Space	PhonesCCS ▾
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern
	No Error ▾

Provide Outside Dial Tone

Urgent Priority



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

Save ~~X~~ Delete Copy + Add New

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*

Calling Party Number Type\*

Calling Party Numbering Plan\*

**Connected Party Transformations**

Connected Line ID Presentation\*

Connected Name Presentation\*

**Called Party Transformations**

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type\*

Called Party Numbering Plan\*



Call Back Service Parameters

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**Service Parameter Configuration** Related Links: Parameters for All Servers Go

Save Set to Default Condensed

**Clusterwide Parameters (Feature - Call Back)**

<a href="#">Call Back Enabled Flag</a> *	True	True
<a href="#">Call Back Notification Audio File Name</a> *	CallBack.raw	CallBack.raw
<a href="#">Connection Proposal Type</a> *	Connection Retention	Connection Retention
<a href="#">Connection Response Type</a> *	Default to Connection Retention	Default to Connection Retention
<a href="#">Call Back Request Protection T1 Timer</a> *	10	10
<a href="#">Call Back Recall T3 Timer</a> *	20	20
<a href="#">Call Back Calling Search Space</a>	PhonesCCS	
<a href="#">No Path Reservation</a> *	True	True
<a href="#">Set Private Numbering Plan for Call Back</a> *	True	False
<a href="#">Set Type of Number for Call Back</a> *	LocalNumber	Level1RegionalNumber

**Clusterwide Parameters (Feature - Call Recording)**

<a href="#">Play Recording Notification Tone To Observed Target</a> *	False	False
<a href="#">Play Recording Notification Tone To Observed Connected Parties</a> *	False	False



Call Back and IDivert Soft Key Template

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**Softkey Template Configuration** Related Links: Configure Softkey Layout **Go**

Save ~~Delete~~ Copy + Add New Reset

**Status**

**i** Status: Ready

**Softkey Template Information**

Name\* Enhanced Feature

Description Standard Softkey Template for CM Combined Feature

Applications\* Cisco CallManager

**Add Application**

**Remove Application**

Default Softkey Template

Save Delete Copy Add New Reset

**i** \*- indicates required item.





## Call Back and IDivert Soft Key

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### Softkey Template Configuration

Related Links: **Softkey Template Configuration** **Go**

**Save** **Reset**

**Status**  
Status: Ready

**Softkey Layout Configuration**  
Softkey Template: Enhanced Feature  
Select a call state to configure **On Hook**

Unselected Softkeys	Selected Softkeys (ordered by position)**
Conference List (ConfList)	Redial (Redial)
Direct Transfer (DirTrfr)	**NewCall (NewCall)
Group Pick Up (GPickUp)	Forward All (CfwdAll)
HLog (HLog)	Immediate Divert (iDivert)
Join (Join)	Call Back (CallBack)
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)	

**Save** **Reset**

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Related Links: Softkey Template Configuration Go

Save Reset

**Status**

Status: Ready

**Softkey Layout Configuration**

Softkey Template: Enhanced Feature

Select a call state to configure Connected

Unselected Softkeys

HLog (HLog)

Mobility (Mobility)

Quality Report Tool (QRT)

Toggle Do Not Disturb (DND)

Undefined (Undefined)

➤

➤

Selected Softkeys (ordered by position)\*\*

Hold (Hold)

Immediate Divert (iDivert)

End Call (EndCall)

Transfer (Trnsfer)

Park (Park)

Conference (Confrn)

Conference List (ConfList)

Select (Select)

Join (Join)

Direct Transfer (DirTrfr)

Toggle Malicious Call Trace (MCID)

Remove Last Conference Party (RmLstC)

Video Mode Command (VidMode)

⏴

⏴

Save Reset

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### Softkey Template Configuration

Related Links: [Softkey Template Configuration](#)

---

**Status**

 Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Enhanced Feature

Select a call state to configure

Unselected Softkeys	Selected Softkeys (ordered by position)**
Toggle Do Not Disturb (DND) Undefined (Undefined)	**Resume (Resume) NewCall (NewCall) Direct Transfer (DirTrfr) Select (Select) Join (Join) Immediate Divert (iDivert)

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### Softkey Template Configuration

Related Links:

---

**Status**

 Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Enhanced Feature

Select a call state to configure:

Unselected Softkeys	Selected Softkeys (ordered by position)**
Toggle Do Not Disturb (DND) Undefined (Undefined)	Answer (Answer) Immediate Divert (iDivert)

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### Softkey Template Configuration

Related Links: [Softkey Template Configuration](#)

---

**Status**

 Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Enhanced Feature

Select a call state to configure:

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



## Route Optimization

### Path Replacement Service Parameter

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**Service Parameter Configuration** Related Links: Parameters for All Servers

**Clusterwide Parameters (Feature - Path Replacement)**

<a href="#">Path Replacement Enabled</a> *	True	False
<a href="#">Path Replacement on Tromboned Calls</a> *	True	True
<a href="#">Start Path Replacement Minimum Delay Time</a> *	5	0
<a href="#">Start Path Replacement Maximum Delay Time</a> *	10	0
<a href="#">Path Replacement T1 Timer</a> *	30	30
<a href="#">Path Replacement T2 Timer</a> *	15	15
<a href="#">Path Replacement PINX ID</a>		
<a href="#">Path Replacement Calling Search Space</a>	PhonesCCS	

**Clusterwide Parameters (Feature - Call Back)**

<a href="#">Call Back Enabled Flag</a> *	True	True
<a href="#">Call Back Notification Audio File Name</a> *	CallBack.raw	CallBack.raw
<a href="#">Connection Proposal Type</a> *	Connection Retention	Connection Retention
<a href="#">Connection Response Type</a> *	Default to Connection Retention	Default to Connection Retention
<a href="#">Call Back Request Protection T1 Timer</a> *	10	10
<a href="#">Call Back Recall T3 Timer</a> *	20	20



Reroute Service Parameter

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**Service Parameter Configuration**

Related Links: Parameters for All Servers Go

Save Set to Default Advanced

**Clusterwide Parameters (Feature - Forward)**

<a href="#">Forward Maximum Hop Count</a> *	<input type="text" value="12"/>	12
<a href="#">Forward No Answer Timer</a> *	<input type="text" value="12"/>	12
<a href="#">Max Forward Hops to DN</a> *	<input type="text" value="12"/>	12
<a href="#">Retain Forward Information</a> *	<input type="text" value="False"/>	False
<a href="#">Forward By Reroute Enabled</a> *	<input type="text" value="True"/>	False
<a href="#">Transform Forward by Reroute Destination</a> *	<input type="text" value="True"/>	True
<a href="#">Always Forward Switch Voice Mail Calls</a> *	<input type="text" value="True"/>	True
<a href="#">Forward By Reroute T1 Timer</a> *	<input type="text" value="10"/>	10
<a href="#">Include Original Called Info for Q.SIG Call Diversions</a> *	<input type="text" value="Only after the first diversion"/>	Only after the first diversion
<a href="#">Set Private Numbering Plan for Call Forward</a> *	<input type="text" value="True"/>	False
<a href="#">Set Type of Number for Call Forward</a> *	<input type="text" value="Level1RegionalNumber"/>	Level1RegionalNumber
<a href="#">Max Forward UnRegistered Hops to DN</a> *	<input type="text" value="0"/>	0
<a href="#">CFA CSS Activation Policy</a> *	<input type="text" value="With Configured CSS"/>	With Configured CSS
<a href="#">Cause Code When Maximum Forward Hop Count is Triggered</a> *	<input type="text" value="Normal Unspecified"/>	Normal Unspecified

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



Cisco Unified IP Phone 7960, CSSP

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**Phone Configuration** Related Links:

**Status**  
 Status: Ready

**Association Information**

1	<a href="#">Line [1] - 3501 in Phones</a>
2	<a href="#">Line [2] - Add a new DN</a>
3	<a href="#">Add a new SD</a>
4	<a href="#">Add a new SD</a>
5	<a href="#">Add a new SD</a>
6	<a href="#">Add a new SD</a>
----- Unassigned Associated Items -----	
7	<a href="#">Add a new SD</a>
8	<a href="#">Add a new SURL</a>
9	<a href="#">Add a new BLF SD</a>
10	<a href="#">Add a new BLF Directed Call Park</a>

**Phone Type**  
**Product Type:** Cisco 7960  
**Device Protocol:** SCCP

**Device Information**

Registration	Registered with Cisco Unified Communications Managers
IP Address	<a href="#">172.20.230.34</a>
MAC Address*	0002FD65A31B
Description	SCCP 3501
Device Pool*	Default <a href="#">Details</a>
Common Device Configuration	< None > <a href="#">Details</a>
Phone Button Template*	Standard 7960 SCCP
Softkey Template	Enhanced Feature





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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

10	<a href="#">Add a new BLF Directed Call Park</a>
11	Privacy
12	None

Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	PhonesCCS
AAR Calling Search Space	< None >
Media Resource Group List	MRGL
User Hold MOH Audio Source	< None >
Network Hold MOH Audio Source	< None >
Location*	Hub_None
AAR Group	< None >
User Locale	< None >
Network Locale	< None >
Built In Bridge*	Default
Privacy*	Default
Device Mobility Mode*	Default <a href="#">Current Device Mobility Settings</a>
Owner User ID	< None >



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Phone Configuration Related Links:

Phone Load Name	<input type="text"/>
Join Across Lines	Default
Use Trusted Relay Point*	Default
BLF Audible Alert Setting (Phone Idle)*	Default
BLF Audible Alert Setting (Phone Busy)*	Default
Calling Party Transformation CSS	< None >
<input checked="" type="checkbox"/> Use Device Pool Calling Party Transformation CSS	
<input checked="" type="checkbox"/> Is Active	
<input checked="" type="checkbox"/> Retry Video Call as Audio	
<input type="checkbox"/> Ignore Presentation Indicators (internal calls only)	
<input checked="" type="checkbox"/> Allow Control of Device from CTI	
<input checked="" type="checkbox"/> Logged Into Hunt Group	
<input type="checkbox"/> Remote Device	



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Phone Configuration Related Links: Back To Find/List

**Expansion Module Information**

Module 1	<input type="text" value=" &lt; None &gt;"/>
Module 1 Load Name	<input type="text"/>
Module 2	<input type="text" value=" &lt; None &gt;"/>
Module 2 Load Name	<input type="text"/>

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

Information	<input type="text"/>
Directory	<input type="text"/>
Messages	<input type="text"/>
Services	<input type="text"/>
Authentication Server	<input type="text"/>
Proxy Server	<input type="text"/>
Idle	<input type="text"/>
Idle Timer (seconds)	<input type="text"/>



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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

 \*- indicates required item.

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

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

 \*\*\*\*Note: A new softkey template without supplementary service softkeys must be used for a protected phone.



Line Directory Number 3501

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**Directory Number Configuration** Related Links: **Configure Device (SEP0002FD65A31B)** **Go**

Save Delete Reset Add New

**Status**

Status: Ready

**Directory Number Information**

Directory Number\* 3501

Route Partition Phones ▾

Description SCCP 3501

Alerting Name 3501 alert

ASCII Alerting Name 3501 alert

Allow Control of Device from CTI

Associated Devices SEP0002FD65A31B

▼ ▲

Dissociate Devices



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**Directory Number Configuration** Related Links:

**Directory Number Settings**

Voice Mail Profile	<input type="text" value="Callpilot"/>	(Choose <None> to use system default)
Calling Search Space	<input type="text" value="PhonesCCS"/>	
Presence Group*	<input type="text" value="Standard Presence group"/>	
User Hold MOH Audio Source	<input type="text" value="&lt; None &gt;"/>	
Network Hold MOH Audio Source	<input type="text" value="&lt; None &gt;"/>	
Auto Answer*	<input type="text" value="Auto Answer Off"/>	

**AAR Settings**

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value="&lt; None &gt;"/>

Retain this destination in the call forwarding history



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Directory Number Configuration **Related Links:** Configure Device (SEP0002FD65A31B) **Go**

Save Delete Reset Add New

### Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			With Configured CSS ▾
Forward All	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Secondary Calling Search Space for Forward All			< None > ▾
Forward Busy Internal	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Forward Busy External	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Forward No Answer Internal	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Forward No Answer External	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Forward No Coverage Internal	<input type="checkbox"/> or <input type="text"/>		< None > ▾



Directory Number Configuration

Related Links: Configure Device (SEP0002FD65A31B) Go

Save Delete Reset Add New

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

MLPP Alternate Party Settings

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





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Directory Number Configuration Related Links: Configure Device (SEP0002FD65A31B) Go

Save Delete Reset Add New

**Line Settings for All Devices**

Hold Reversion Ring Duration (seconds)	<input type="text" value="0"/>	Setting the Hold Reversion Ring Duration to zero will disable the feature
Hold Reversion Notification Interval (seconds)	<input type="text" value="0"/>	Setting the Hold Reversion Notification Interval to zero will disable the feature

**Line 1 on Device SEP0002FD65A31B**

Display (Internal Caller ID)	<input type="text" value="SCCP 3501"/>	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="SCCP 3501"/>	
Line Text Label	<input type="text" value="SCCP 3501"/>	
ASCII Line Text Label	<input type="text" value="SCCP 3501"/>	
External Phone Number Mask	<input type="text"/>	
Visual Message Waiting Indicator Policy*	<input type="text" value="Light and Prompt"/>	



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**Directory Number Configuration** Related Links:

Ring Setting (Phone Idle)*	<input type="text" value="Use System Default"/>	
Ring Setting (Phone Active)	<input type="text" 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="text" value="Use System Default"/>	
Call Pickup Group Audio Alert Setting(Phone Active)	<input type="text" value="Use System Default"/>	
Monitoring Calling Search Space	<input type="text" value="&lt; None &gt;"/>	

**Multiple Call/Call Waiting Settings on Device SEP0002FD65A31B**

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

Maximum Number of Calls*	<input type="text" value="4"/>	
Busy Trigger*	<input type="text" value="1"/>	(Less than or equal to Max. Calls)



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**Directory Number Configuration** Related Links: Configure Device (SEP0002FD65A31B) Go

Save Delete Reset Add New

**Forwarded Call Information Display on Device SEP0002FD65A31B**

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

**Users Associated with Line**

Associate End Users

Save Delete Reset Add New

**i** \*- indicates required item.  
**i** \*\*- Changes to Line or Directory Number settings require restart.



Cisco Unified IP Phone 7961, SIP

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**Phone Configuration** Related Links: Back To Find/List **Go**

Save **X** Delete Copy Reset + Add New

**Status**  
Status: Ready

**Association Information** [Modify Button Items](#)

1	<a href="#">Line [1] - 3504 in Phones</a>
2	<a href="#">Line [2] - Add a new DN</a>
3	<a href="#">Add a new SD</a>
4	<a href="#">Add a new SD</a>
5	<a href="#">Add a new SD</a>
6	<a href="#">Add a new SD</a>
----- Unassigned Associated Items -----	
7	<a href="#">Add a new SD</a>
8	<a href="#">Add a new SURL</a>
9	<a href="#">Add a new BLF SD</a>
10	<a href="#">Add a new BLF Directed Call Park</a>
11	<a href="#">Intercom [1] - Add a new Intercom</a>

**Phone Type**  
Product Type: Cisco 7961  
Device Protocol: SIP

**Device Information**

Registration	Registered with Cisco Unified Communications Manager cm-spurs
IP Address	<a href="#">172.20.230.19</a>
MAC Address*	001B2A89A7EF
Description	RI 3504
Device Pool*	Default <a href="#">View Details</a>
Common Device Configuration	< None > <a href="#">View Details</a>
Phone Button Template*	Standard 7961 SIP
Softkey Template	Enhanced Feature
Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	PhonesCCS



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**Phone Configuration** Related Links:

12	Do Not Disturb	Search Space	< None >
13	Call Park	Media Resource Group List	MRGL
14	Call Pickup	User Hold MOH Audio Source	< None >
15	CallBack	Network Hold MOH Audio Source	< None >
16	Conference List	Location*	Hub_None
17	Conference	AAR Group	< None >
18	End Call	User Locale	< None >
19	Forward All	Network Locale	< None >
20	Group Call Pickup	Built In Bridge*	Default
21	Hold	Privacy*	Default
22	Hunt Group Logout	Device Mobility Mode*	Default <a href="#">View</a>
23	Malicious Call Identification	Owner User ID	< None >
24	Meet Me Conference	Phone Personalization*	Default
25	Mobility	Services Provisioning*	Default
26	New Call	Phone Load Name	
27	Other Pickup	Single Button Barge	Default
28	Quality Reporting Tool		
29	Redial		
30	Remove Last Participant		
31	Transfer		
32	Privacy		



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Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

32 Privacy	Single Button Barge	Default
33 None	Join Across Lines	Default
	Use Trusted Relay Point*	Default
	BLF Audible Alert Setting (Phone Idle)*	Default
	BLF Audible Alert Setting (Phone Busy)*	Default
	Calling Party Transformation CSS	< None >

- Use Device Pool Calling Party Transformation CSS
- Is Active
- Ignore Presentation Indicators (internal calls only)
- Allow Control of Device from CTI
- Logged Into Hunt Group
- Remote Device
- Protected Device\*\*\*\*



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**Phone Configuration** Related Links: Back To Find/List **Go**

Save Delete Copy Reset Add New

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

Information	<input type="text"/>
Directory	<input type="text"/>
Messages	<input type="text"/>
Services	<input type="text"/>
Authentication Server	<input type="text"/>
Proxy Server	<input type="text"/>
Idle	<input type="text"/>
Idle Timer (seconds)	<input type="text"/>

**Extension Information**

Enable Extension Mobility

Log Out Profile -- Use Current Device Settings -- ▾

Log in Time < None >

Log out Time < None >



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Phone Configuration Related Links:

**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 >

**Do Not Disturb**

Do Not Disturb

DND Option\*

DND Incoming Call Alert < None >

**Secure Shell Information**

Secure Shell User

Secure Shell Password





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Phone Configuration Related Links:

#### Product Specific Configuration Layout ?

- Disable Speakerphone
- Disable Speakerphone and Headset
- PC Port \*
- Settings Access\*
- Gratuitous ARP\*
- PC Voice VLAN Access\*
- Auto Line Select\*
- Web Access\*
- Span to PC Port\*
- Logging Display\*
- Load Server
- Recording Tone\*
- Recording Tone Local Volume\*
- Recording Tone Remote Volume\*
- Recording Tone Duration
- RTCP\*



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**Phone Configuration** Related Links:

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
Link Layer Discovery Protocol - Media Endpoint Discover (LLDP-MED): Switch Port*	Enabled
Link Layer Discovery Protocol (LLDP): PC Port*	Enabled
LLDP Asset ID	<input type="text"/>
LLDP Power Priority*	Unknown
Display Refresh Rate*	Normal



Line DN 3504 SIP

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**Directory Number Configuration** Related Links: Configure Device (SEP001B2A89A7EF) Go

Save Delete Reset Add New

**Status**  
Status: Ready

**Directory Number Information**

Directory Number*	3504
Route Partition	Phones
Description	SIP3504
Alerting Name	Sip3504 alert
ASCII Alerting Name	Sip3504 alert

Allow Control of Device from CTI

Associated Devices: SEP001B2A89A7EF

[Edit Device](#)

[Edit Line Appearance](#)

Dissociate Devices



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### Directory Number Configuration

Related Links:

#### Directory Number Settings

Voice Mail Profile	<input type="text" value="Callpilot"/>	(Choose <None> to use system default)
Calling Search Space	<input type="text" value="PhonesCCS"/>	
Presence Group*	<input type="text" value="Standard Presence group"/>	
User Hold MOH Audio Source	<input type="text" value="&lt; None &gt;"/>	
Network Hold MOH Audio Source	<input type="text" value="&lt; None &gt;"/>	
Auto Answer*	<input type="text" value="Auto Answer Off"/>	

#### AAR Settings

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value="&lt; None &gt;"/>

Retain this destination in the call forwarding history



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Directory Number Configuration Related Links:

### Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			With Configured CSS ▾
Forward All	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Secondary Calling Search Space for Forward All			PhonesCCS ▾
Forward Busy Internal	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Forward Busy External	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Forward No Answer Internal	<input type="checkbox"/> or <input type="text" value="2325"/>		PhonesCCS ▾
Forward No Answer External	<input type="checkbox"/> or <input type="text" value="2325"/>		PhonesCCS ▾
Forward No Coverage Internal	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾
Forward No Coverage External	<input type="checkbox"/> or <input type="text"/>		PhonesCCS ▾



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**Directory Number Configuration** Related Links: Configure Device (SEP001B2A89A7EF) Go

Save Delete Reset Add New

Forward on CTI Failure	<input type="checkbox"/> or		PhonesCCS
Forward Unregistered Internal	<input type="checkbox"/> or	2325	PhonesCCS
Forward Unregistered External	<input type="checkbox"/> or	2325	PhonesCCS

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



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Directory Number Configuration Related Links: Configure Device (SEP001B2A89A7EF) Go

Save Delete Reset Add New

**Line 1 on Device SEP001B2A89A7EF**

Display (Internal Caller ID)	SIP3504	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)	SIP3504	
Line Text Label	SIP3504	
ASCII Line Text Label	SIP3504	
External Phone Number Mask		
Visual Message Waiting Indicator Policy*	Use System Policy	
Audible Message Waiting Indicator Policy*	Off	
Ring Setting (Phone Idle)*	Use System Default	
Ring Setting (Phone Active)	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)	Use System Default	



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Call Pickup Group Audio Alert Setting (Phone Idle)	Use System Default
Call Pickup Group Audio Alert Setting (Phone Active)	Use System Default
Recording Option*	Call Recording Disabled
Recording Profile	< None >
Monitoring Calling Search Space	< None >

**Multiple Call/Call Waiting Settings on Device SEP001B2A89A7EF**

Note: The range to select the Max Number of calls is: 1-50

Maximum Number of Calls*	4
Busy Trigger*	1 (Less than or equal to Max. Calls)





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**Directory Number Configuration** Related Links:

**Forwarded Call Information Display on Device SEP001B2A89A7EF**

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

**Users Associated with Line**

**i** \*- indicates required item.

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



## Unity Voice Mail Integration

### List Hunt Pilot

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### Find and List Hunt Pilots

**Status**

1 records found

**Hunt Pilots (1 - 1 of 1)** Rows per Page 50 ▾

Find Hunt Pilots where Pattern ▾ begins with ▾

<input type="checkbox"/>	Pattern ^	Description	Partition	Route Filter	Hunt List	Copy
<input type="checkbox"/>	<a href="#">3999</a>	Ri hunt pilot	<a href="#">Phones</a>		<a href="#">Ri VM hunt list</a>	



Hunt Pilot 3999

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**Hunt Pilot Configuration** Related Links:

**Status**

Status: Ready

**Pattern Definition**

Hunt Pilot\* 3999

Route Partition Phones ▾

Description Ri hunt pilot

Numbering Plan < None > ▾

Route Filter < None > ▾

MLPP Precedence\* Default ▾

Hunt List\* Ri VM hunt list [\(Edit\)](#)

Route Option

Route this pattern

Block this pattern No Error ▾

Provide Outside Dial Tone  Urgent Priority



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**Hunt List Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Hunt List Information**

Name\* Ri VM hunt list

Description Ri VM hunt list

Cisco Unified Communications Manager Group\* Default

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

For Voice Mail Usage

**Hunt List Member Information**

**Add Line Group**

Selected Groups\*\* CiscoUM1

Removed Groups\*\*\*

**Hunt List Details**

CiscoUM1



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**Hunt Pilot Configuration** Related Links: Back To Find/List

**Connected Party Transformations**

Connected Line ID Presentation\*

Connected Name Presentation\*

**Called Party Transformations**

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type\*

Called Party Numbering Plan\*

**AAR Group Settings**

AAR Group

External Number Mask

\*- indicates required item.



## Hunt List

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### Find and List Hunt Lists

**Status**

1 records found

**Hunt List (1 - 1 of 1)** Rows per Page 50 ▾

Find Hunt List where Name ▾ begins with ▾

<input type="checkbox"/>	Name ^	Description	Enabled	Status
<input type="checkbox"/>	<a href="#">Ri VM hunt list</a>	Ri VM hunt list	true	Registered with cm-spurs



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**Hunt List Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Hunt List Information**

Name\* Ri VM hunt list

Description Ri VM hunt list

Cisco Unified Communications Manager Group\* Default

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

For Voice Mail Usage

**Hunt List Member Information**

**Add Line Group**

Selected Groups\*\* CiscoUM1

Removed Groups\*\*\*

**Hunt List Details**

[CiscoUM1](#)



Line Group

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### Find and List Line Groups

**Status**  
 1 records found

**Line Groups (1 - 1 of 1)** *Rows per Page* 50 ▾

Find Line Groups where Line Group Name begins with

<input type="checkbox"/>	Line Group Name ^
<input type="checkbox"/>	<a href="#">CiscoUM1</a>





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**Line Group Configuration** Related Links: Back To Find/List Go

Save Delete Add New

**Line Group Information**

Line Group Name\* CiscoUM1

RNA Reversion Timeout\* 10

Distribution Algorithm\* Top Down

**Hunt Options**

No Answer\* Try next member; then, try next group in Hunt List

Busy\*\* Try next member; then, try next group in Hunt List

Not Available\*\* Try next member; then, try next group in Hunt List

**Line Group Member Information**

**Find Directory Numbers to Add to Line Group**

Partition < None >

Directory Number Contains Find

Available DN/Route Partition

- 3001
- 3007
- 3008/Phones
- 3008
- 3009

Add to Line Group



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**Line Group Configuration** Related Links: Back To Find/List Go

Save Delete Add New

**Current Line Group Members**

Reverse Order of Selected DN/Route Partitions

Selected DN/Route Partition

- 3720/Phones
- 3750/Phones
- 3751/Phones
- 3723/Phones

Removed DN/Route Partition

**Directory Numbers**

- 778 3720 in Phones
- 778 3750 in Phones
- 778 3751 in Phones
- 778 3723 in Phones

Save Delete Add New



Line Group Line

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**Directory Number Configuration** Related Links: Back To Find/List **Go**

Save Delete Copy Reset Add New

**Status**

Status: Ready

**Directory Number Information**

Directory Number\* 3501

Route Partition Phones

Description SCCP 3501

Alerting Name 3501 alert

ASCII Alerting Name 3501 alert

Allow Control of Device from CTI

Associated Devices SEP0002FD65A31B

▼ ▲

Dissociate Devices



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**Directory Number Configuration** Related Links:

**Directory Number Settings**

Voice Mail Profile	<input type="text" value="Callpilot"/> (Choose <None> to use system default)
Calling Search Space	<input type="text" value="PhonesCCS"/>
Presence Group*	<input type="text" value="Standard Presence group"/>
User Hold MOH Audio Source	<input type="text" value="&lt; None &gt;"/>
Network Hold MOH Audio Source	<input type="text" value="&lt; None &gt;"/>

**AAR Settings**

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value="&lt; None &gt;"/>

Retain this destination in the call forwarding history



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**Directory Number Configuration** Related Links: Back To Find/List **Go**

Save Delete Copy Reset Add New

**Call Forward and Call Pickup Settings**

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			With Configured CSS
Forward All	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Secondary Calling Search Space for Forward All			< None >
Forward Busy Internal	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward Busy External	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward No Answer Internal	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward No Answer External	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward No Coverage Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward No Coverage External	<input type="checkbox"/> or	<input type="text"/>	< None >



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**Directory Number Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Forward Unregistered Internal  or PhonesCCS

Forward Unregistered External  or PhonesCCS

No Answer Ring Duration (seconds)

Call Pickup Group < None >

**MLPP Alternate Party Settings**

Target (Destination)

MLPP Calling Search Space < None >

MLPP No Answer Ring Duration (seconds)

**Line Settings for All Devices**

Hold Reversion Ring Duration (seconds) 0 Setting the Hold Reversion Ring Duration to zero will disable the feature

Hold Reversion Notification Interval (seconds) 0 Setting the Hold Reversion Notification Interval to zero will disable the feature

Save Delete Copy Reset Add New



## Unity Voice Mail Profile

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### Voice Mail Profile Configuration

Related Links: **Back To Find/List** Go

Save Delete Copy Reset Add New

---

**Status**

Status: Ready

---

**Voice Mail Profile Information**

Voice Mail Profile Default (used by 0 devices)

Voice Mail Profile Name\*

Description

Voice Mail Pilot\*\*

Voice Mail Box Mask

Make this the default Voice Mail Profile for the System

---

\*- indicates required item.

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



Voice Mail Pilot

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### Find and List Voice Mail Pilots

+ Add New Select All Clear All Delete Selected

**Status**  
3 records found

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

Find Voice Mail Pilot where Voice Mail Pilot Number begins with Find Clear Filter + -

		Pilot Number ^	Description	Calling Search Space
<input type="checkbox"/>			<a href="#">No Voice Mail</a>	
<input type="checkbox"/>		<a href="#">2500</a>	<a href="#">CallPilot Nortel Pilot</a>	<a href="#">PhonesCCS</a>
<input checked="" type="checkbox"/>		<a href="#">3999</a>	<a href="#">CiscoVM_P</a>	<a href="#">PhonesCCS</a>

Add New Select All Clear All Delete Selected





Voice Mail Port

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### 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 ▾

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"/>	<a href="#">CiscoUM1-VI1</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3720</a>	<a href="#">Phones</a>	Registered with cm-spurs	172.20.239.252	
<input type="checkbox"/>	<a href="#">CiscoUM1-VI2</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3750</a>	<a href="#">Phones</a>	Registered with cm-spurs	172.20.239.252	
<input type="checkbox"/>	<a href="#">CiscoUM1-VI3</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3751</a>	<a href="#">Phones</a>	Unknown	Unknown	
<input type="checkbox"/>	<a href="#">CiscoUM1-VI4</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3723</a>	<a href="#">Phones</a>	Unknown	Unknown	



MWI Number

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### Find and List Message Waiting Numbers

**Status**  
 2 records found

**Message Waiting Numbers (1 - 2 of 2)** Rows per Page 50 ▾

Message Waiting Numbers where Directory Number ▾ begins with ▾ and where Message Waiting Indicator is Both ▾

<input type="checkbox"/>		Directory Number <sup>▲</sup>	Description	Partition	Calling Search Space	Copy
<input type="checkbox"/>		<a href="#">3100</a>		<a href="#">Phones</a>	<a href="#">PhonesCCS</a>	
<input type="checkbox"/>		<a href="#">3101</a>		<a href="#">Phones</a>	<a href="#">PhonesCCS</a>	



MWI On

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

Save ~~Delete~~ Copy + Add New

**Status**  
Status: Ready

**Message Waiting Information**

Message Waiting Number*	3100
Partition	Phones
Description	
Message Waiting Indicator*	<input checked="" type="radio"/> On <input type="radio"/> Off
Calling Search Space	PhonesCCS

Save Delete Copy Add New

**i** \*- indicates required item.



MWI Off

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

**Status**

Status: Ready

**Message Waiting Information**

Message Waiting Number\*

Partition

Description

Message Waiting Indicator\*  On  Off

Calling Search Space

\*- indicates required item.



## iDivert Service Parameters Set for Legacy Mode

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**Service Parameter Configuration** Related Links: Parameters for All Servers

**Clusterwide Parameters (Feature - Immediate Divert)**

<a href="#">Use Legacy Immediate Divert</a> *	True	True
<a href="#">Allow QSIG during iDivert</a> *	True	False
<a href="#">Immediate Divert User Response Timer</a> *	5	5

**Clusterwide Parameters (Call Admission Control)**

<a href="#">Call Counting CAC Enabled</a> *	False	False
<a href="#">Audio Bandwidth For Call Counting CAC</a> *	102	102
<a href="#">Video Bandwidth For Call Counting CAC</a> *	500	500

**i** \*- indicates required item.

**i** \*\*The Set-to-Default button restores all parameters that have been modified to their original default values.



iDivert Service Parameters Set for \*50 Data-Pass-Through Mode

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**Service Parameter Configuration** Related Links: Parameters for All Servers **Go**

Save Set to Default Advanced

**Clusterwide Parameters (Feature - Immediate Divert)**

<a href="#">Use Legacy Immediate Divert</a> *	False	True
<a href="#">Allow OSIG during iDivert</a> *	True	False
<a href="#">Immediate Divert User Response Timer</a> *	5	5

**Clusterwide Parameters (Call Admission Control)**

<a href="#">Call Counting CAC Enabled</a> *	False	False
<a href="#">Audio Bandwidth For Call Counting CAC</a> *	102	102
<a href="#">Video Bandwidth For Call Counting CAC</a> *	500	500

Save Set to Default Advanced

**i** \*- indicates required item.

**i** \*\*The Set-to-Default button restores all parameters that have been modified to their original default values.



## Configuring the Cisco Unified IOS Gateway 3825

Router#sh ver

Cisco IOS Software, 3800 Software (C3825-IPVOICE-M), Version 12.4(15)XZ, RELEASE SOFTWARE (fc2)  
Technical Support: <http://www.cisco.com/techsupport>  
Copyright (c) 1986-2008 by Cisco Systems, Inc.  
Compiled Fri 11-Apr-08 21:10 by prod\_rel\_team

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

Router uptime is 5 weeks, 5 days, 3 hours, 15 minutes  
System returned to ROM by power-on  
System image file is "flash:c3825-ipvoice-mz.124-15.XZ.bin"

Cisco 3825 (revision 1.0) with 226304K/35840K bytes of memory.  
Processor board ID FTX0946A1BV  
2 Gigabit Ethernet interfaces  
48 Serial interfaces  
2 Channelized T1/PRI ports  
2 Channelized (E1 or T1)/PRI ports  
2 Voice FXO interfaces  
DRAM configuration is 64 bits wide with parity enabled.  
479K bytes of NVRAM.  
62720K bytes of ATA System CompactFlash (Read/Write)

Configuration register is 0x2102

Router#sh run  
Building configuration...

Current configuration : 2348 bytes  
!  
version 12.4  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname Router  
!  
boot-start-marker  
boot-end-marker  
!  
! card type command needed for slot/vwic-slot 0/2  
logging message-counter syslog  
logging buffered 10000000  
no logging console  
enable password cisco  
!  
no aaa new-model  
network-clock-participate slot 2  
!



```
voice-card 0
 no dspfarm
 !
voice-card 2
 no dspfarm
 !
ip cef
 !
 !
 !
 !
no ip domain lookup
ip host CM-SPURS 172.20.192.254
multilink bundle-name authenticated
 !
isdn switch-type primary-qsig
 !
 !
 !
 !
 !
 !
 !
 !
 !
archive
 log config
  hidekeys
 !
 !
controller T1 2/0/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
 !
controller T1 2/0/1
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
 !
 !
 !
 !
 !
interface GigabitEthernet0/0
 ip address 172.20.192.102 255.255.255.0
 duplex auto
 speed auto
 media-type rj45
 no keepalive
 !
interface GigabitEthernet0/1
 no ip address
```





```
shutdown
duplex auto
speed auto
media-type rj45
no keepalive
!
interface Serial2/0/0:23
no ip address
encapsulation hdlc
isdn switch-type primary-qsig
isdn timer T310 120000
isdn protocol-emulate network
isdn incoming-voice voice
isdn bind-l3 ccm-manager
no cdp enable
!
interface Serial2/0/1:23
no ip address
encapsulation hdlc
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-l3 ccm-manager
no cdp enable
!
ip forward-protocol nd
ip route 0.0.0.0 0.0.0.0 172.20.192.1
!
!
ip http server
!
!
!
!
control-plane
!
!
!
voice-port 0/0/0
!
voice-port 0/0/1
!
voice-port 2/0/0:23
!
voice-port 2/0/1:23
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server CM-SPURS
ccm-manager config
!
mgcp
mgcp call-agent cm-spurs 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
mgcp package-capability sst-package
mgcp package-capability pre-package
no mgcp package-capability res-package
no mgcp package-capability fxr-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
!
!
!
!
line con 0
line aux 0
line vty 0 4
  password cisco
  login
!
scheduler allocate 20000 1000
end

```

Router#

### Acronyms

Acronym	Definition
ANF-PR	Additional Network Feature Path Replacement
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
CUCM	Cisco Unified Communications Manager



<b>Acronym</b>	<b>Definition</b>
ISR	Integrated Services Router
MGCP	Media Gateway Control Protocol
MWI	Message Waiting Indication
PBX	Private branch exchange
PRI	Primary Rate Interface
QSIG	Q Signaling
VWIC	Voice/WAN Interface Card



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