



# Cisco Unified CallManager Release 5.0-PBX Interoperability: Hipath 4000 Release 1 PBX to a Cisco 3745 QSIG with MGCP

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## Introduction

This is an application note for connectivity of Siemens HiPath 4000 Release 1 PBX with Cisco Unified CallManager Release 5.0 via Cisco 3745 w/ VWIC-2MFT-E1 as MGCP gateway using ISO QSIG protocol.

The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified CallManager connected to the PBX via Cisco3745 w/ VWIC-2MFT-E1 link as MGCP gateway.

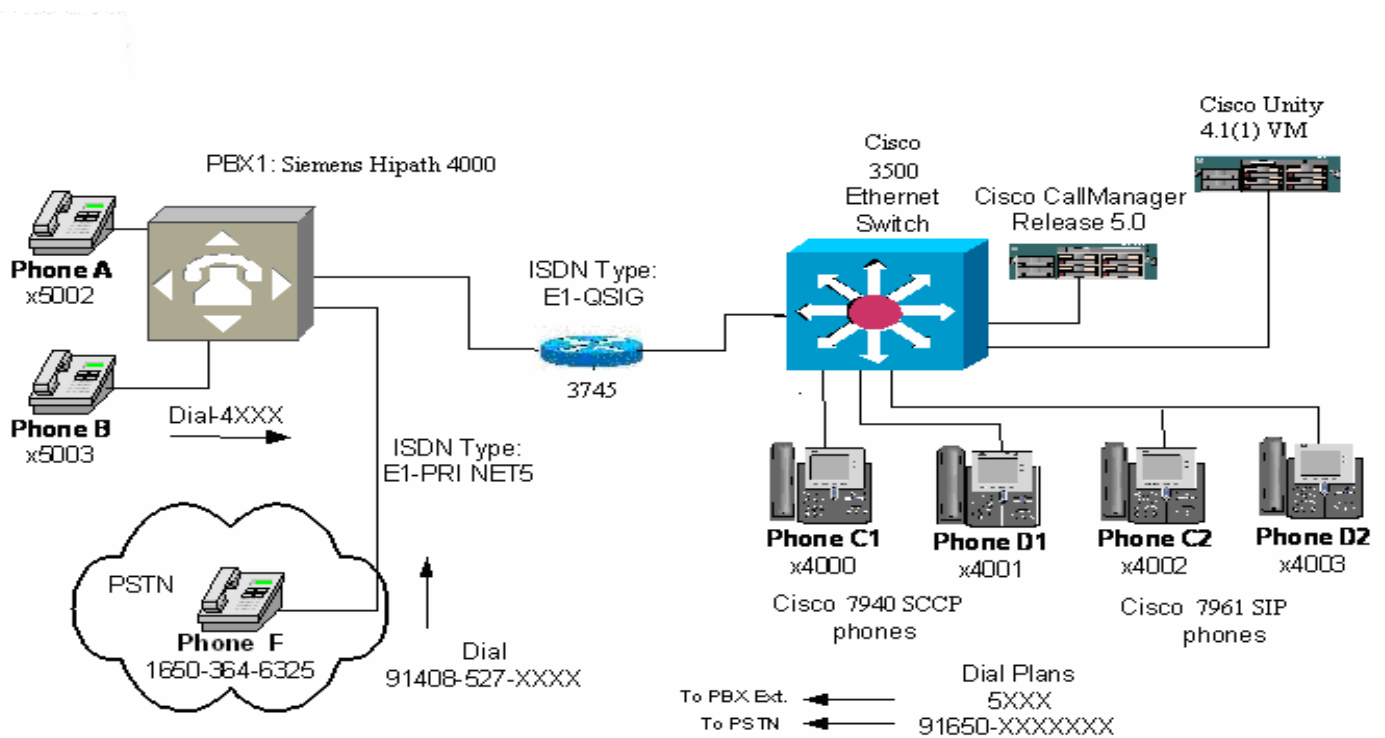
Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway with Cisco Unified CallManager Service parameter QSIG variant of ISO and PSS1V2 switch type on the Hipath 4000 PBX.

This Application Note uses the Cisco 3745 w/ VWIC-2MFT-E1 voice gateway, however other Cisco voice gateways are also an option to use since Cisco Unified CallManager QSIG implementation does not depend on the physical interface.



## Network Topology

Figure 1. Basic Call Network Topology



## Limitations

### B-Channel Mapping

Siemens HiPath 4000 PBX uses sequential channel numbering (1-30) when QSIG protocol "PSS1V2" is selected, therefore the Cisco 3745 gateway configuration of Channel IE Type field should be set to Continuous Number.

### Connected Name and Number Restrictions

Siemens phone displayed dialed number and trunk name when CISCO UNIFIED CALLMANAGER sends Connected Name and Number as restricted.

### Additional Network Feature Path Replacement for Call Diversion

Siemens HiPath 4000 PBX does not send Path Replacement proposal for Call Diversion by forward switching.

### Overlap Sending



When CISCO UNIFIED CALLMANAGER is configured for Overlap Sending calls made from SIP Phones C2 or D2 (Fig 1) to Siemens Hipath result in the Name and Number not being updated on the SIP phones (Siemens has been verified to be sending both Alerting Name and Connected Name and Number). This interoperability issue is considered a limitation on Cisco Unified CallManger and an internal corrective action bug fix ticket known internally as DDTS has been generated to resolve this issue in future releases. (DDTS # CSCse36865 Title: Name and Number not updating on SIP Phone when using Overlap sending).

## **System Components**

### **Hardware Requirements**

Cisco Hardware:

Cisco 3500 Ethernet Switch

Cisco 3745 Gateway

Cisco Unified CallManager Server

Siemens Hipath 4000 PBX Hardware:

DIU-N2

### **Software Requirements**

Cisco Unified CallManager Release 5.0

Siemens Hipath 4000 Release 1

Cisco IOS Release (for the gateway)

## **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 (see limitations section)

CONP-Connected Name Identification Presentation

CONR- Connected Name Identification Restriction (see limitations section)

Sending Alerting Name

CT-Call Transfer (by join)

CFU-Call Forwarding Unconditional (by join)

CFB-Call Forwarding Busy (by join)



CFNR-Call Forwarding No Reply (by join)

CFU-Call Forwarding Unconditional (by Reroute)

CFB-Call Forwarding Busy (by Reroute)

CFNR-Call Forwarding No Reply (by Reroute)

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) 1

**Features Not Supported**

All features are supported.

**Configuration**

**Configuring the Siemens HiPath 4000 PBX**

1. Add the new access code to Dialing Plans using WABE + LDPLN.
2. Add the new trunk board using BCSU.
3. Configure Class of Trunk using COT.
4. Configure Class of Parameter for device handler using COP.
5. Configure Class of Service using COSSU.
6. Add the new trunk group access code using BUEND.
7. Configure trunk using TDCSU.
8. Configure Reference Clock using REFTA.
9. Configure trunk Least Cost Routing using LDAT + RICHT.
10. Configure LCR Out-dial Rules using LODR.
11. Enable In-Band DTMF signaling for the Digital Stations using SBSCSU.
12. Configure Digital Station for MWI application.
13. Configure Message Center's Service Access Number for MWI application.
14. Configure Digital Station's Class of Service for Mailbox MWI application.

**Configuration Menus and Commands for Hipath 4000**

**DPLN**

```
<dis-wabe:gen;
DIS-WABE:GEN;
H500: AMO WABE STARTED
```

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS		
	CALL PROGRESS STATE	DIGIT	RESERVED/CONVERT	

<sup>1</sup> MWI was tested with CallManager 5.0 as the Message Center PINX and PBX users as remote subscribers.



CODE	CALL PROGRESS STATE	DIGIT ANALYSIS	RESERVED/CONVERT
	1 1111 1112 22	ANALYSIS	DNI/ADD-INFO
	0 12345 67890 12345 67890 12	RESULT	*=OWN NODE
0	. **** .*** ** . . . . *	CO	R
001 - 009	* . . . . .	NETRTE	
111	. **** * . . . . *	TIE	
12	. **** * . . . . *	TIE	R
13 - 14	. **** * . . . . *	TIE	
21	. . . . .	KNOVRKY	
22	. . . . .	DNDKY	
222	. **** * . . . . *	TIE	
23	. . . . .	FWDKY	
24	. . . . .	MBKY	
25	. . . . .	MSGRKY	
26	. . . . .	DAKY	
27	. . . . .	DSSKY	
28	. . . . .	VCRKY	
29	. . . . .	VCKY	
30	. . . . .	CONFKY	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE	DIGIT ANALYSIS	RESERVED/CONVERT
	1 1111 1112 22	ANALYSIS	DNI/ADD-INFO
	0 12345 67890 12345 67890 12	RESULT	*=OWN NODE
3000 - 3010	. **** * . . . . *	STN	DESTNO 30 DNNO 0- 0-222
3011 - 3020	. **** * . . . . *	STN	DESTNO 31 DNNO 0- 0- 31
3021 - 3030	. **** * . . . . *	STN	DESTNO 32 DNNO 0- 0- 32
3031 - 3040	. **** * . . . . *	STN	DESTNO 33 DNNO 0- 0- 33
3041 - 3050	. **** * . . . . *	STN	DESTNO 35 DNNO 0- 0- 35
31	. . . . .	NAMEKY	
32	. . . . .	PARKKY	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE	DIGIT ANALYSIS	RESERVED/CONVERT
	1 1111 1112 22	ANALYSIS	DNI/ADD-INFO
	0 12345 67890 12345 67890 12	RESULT	*=OWN NODE
33	. . . . .	CCKY	
34	. . . . .	HTKY	
35	. . . . .	STKY	
36	. . . . .	REMKY	
36 - 37	. **** .*** ** . . . . *	CO	
38	. . . . .	TIMEKY	
39	. **** * . . . . *	TIE	
4000 - 4050	. **** * . . . . *	STN	DESTNO 111 DNNO 0- 0-111
4051 - 4566	. **** * . . . . *	STN	DESTNO 222 DNNO 0- 0-222
4567	. **** * . . . . *	STN	DESTNO 34 DNNO 0- 0-200



DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE	CALL PROGRESS STATE 1 1111 1112 22 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE		
			4568 - 4999	. **** * . . . . *	STN
5000 - 5040	. **** * . . . . *	STN	DESTNO 0 DNNO 0- 0-555*		
5500 - 5501	. **** * . . . . *	STN	DESTNO 56 DNNO 0- 0-560		
555	. **** * . . . . *	OWNNODE			
560	. **** * . . . . *	TIE			
59	. **** * . . . . *	TIE			
6000 - 6009	. **** * . . . . *	STN	R DESTNO 0 DNNO 0- 0-555*		

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE	CALL PROGRESS STATE 1 1111 1112 22 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE		
			7000 - 7002	. **** * . . . . *	STN
8000 - 8050	. **** * . . . . *	STN	DESTNO 222 DNNO 0- 0-222		
8060	. **** * . . . . *	TIE			
8070	. **** * . . . . *	TIE			
83	. **** * . . . . *	SPDC1			
84	. **** * . . . . *	SPDC2			
88	. . . . * . . . . *	SCONSI	R		
89	. . . . * . . . . *	SCONSCO	R		
9	. **** * . . . . *	TIE			
*13	. . . . * . . . . *	AHTVCE			
*15	. * . . . * . . . . *	SPLIT			
*16	. . . . * . . . . *	AREM			
*17	. * . . . * . . . . *	TRACE			

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE	CALL PROGRESS STATE 1 1111 1112 22 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE		
			*18	. . . . * . . . . *	ACOSX
*19	. * . . . * . . . . *	KNOVR			
*20	. . . . * . . . . *	ADND			
*25	. . . . * . . . . *	FWDTERM			
*29	. . . . * . . . . *	AFFWDVCE			

AMO-WABE -111 DIALLING PLANS, FEATURE ACCESS CODES  
DISPLAY COMPLETED;

### Enbloc Sending Dial Plan, DPLN



<DISPLAY-LDPLN:TYPE=LDP,LDPNO=4;  
DISPLAY-LDPLN:TYPE=LDP,LDPNO=4;  
H500: AMO LDPLN STARTED

LDPNO :	4	LDP :	111-X
		SPC :	22
		FDSFIELD :	0
		SDSFIELD :	0
		PINDP :	N
DPLN	LROUTE	LAUTH	
0	1	1	
1	1	1	
2	1	1	
3	1	1	
4	1	1	
5	1	1	
6	1	1	
7	1	1	
8	1	1	
9	1	1	
10	1	1	
11	1	1	
12	1	1	
13	1	1	
14	1	1	
15	1	1	

AMO-LDPLN-111            ADMINISTRATION LCR DIALPLAN  
DISPLAY COMPLETED;



## Access code for Overlap Sending Dial Plan, DPLN

```
<DISPLAY-LDPLN:TYPE=LDP,LDPNO=12;  
DISPLAY-LDPLN:TYPE=LDP,LDPNO=12;  
H500: AMO LDPLN STARTED
```

LDPNO :	12	LDP :	59-X
		SPC :	22
		FDSFIELD :	0
		SDSFIELD :	0
		PINDP :	N
DPLN	LROUTE	LAUTH	
0	27	1	
1	27	1	
2	27	1	
3	27	1	
4	27	1	
5	27	1	
6	27	1	
7	27	1	
8	27	1	
9	27	1	
10	27	1	
11	27	1	
12	27	1	
13	27	1	
14	27	1	
15	27	1	

```
AMO-LDPLN-111           ADMINISTRATION LCR DIALPLAN  
DISPLAY COMPLETED;
```

## PSTN Dial Plan, DPLN

```
<DISPLAY-LDPLN:TYPE=LDP,LDPNO=5;  
DISPLAY-LDPLN:TYPE=LDP,LDPNO=5;  
H500: AMO LDPLN STARTED
```

LDPNO :	5	LDP :	9-1650-XXXXXXX
		SPC :	22
		FDSFIELD :	0
		SDSFIELD :	0
		PINDP :	N
DPLN	LROUTE	LAUTH	
0	165	1	
1	165	1	
2	165	1	
3	165	1	
4	165	1	
5	165	1	
6	165	1	
7	165	1	
8	165	1	
9	165	1	
10	165	1	
11	165	1	
12	165	1	
13	165	1	
14	165	1	
15	165	1	





AMO-LDPLN-111            ADMINISTRATION LCR DIALPLAN  
 DISPLAY COMPLETED;

## BCSU

### PRI Board

<DISPLAY-BCSU:TYPE=TBL,LTG=1,LTU=3,SLOT=25;  
 DISPLAY-BCSU:TYPE=TBL,LTG=1,LTU=3,SLOT=25;  
 H500: AMO BCSU STARTED

ADDRESS : LTG 1    LTU 3    SOURCE GROUP 1

PEN	ASSIGNED MODULE	MODULE TYPE	FCT ID	HWY BDL	INSERTED MODULE	STATE	HW-INFO	MODULE STATUS
25	Q2196-X	DIU-N2	1	A	Q2196-X	1	-06 -	READY

AMO-BCSU -111            BOARD CONFIGURATION, SWITCHING UNIT  
 DISPLAY COMPLETED;

<

### PSTN board

<DISPLAY-BCSU:TYPE=TBL,LTG=1,LTU=2,SLOT=79;  
 DISPLAY-BCSU:TYPE=TBL,LTG=1,LTU=2,SLOT=79;  
 H500: AMO BCSU STARTED

ADDRESS : LTG 1    LTU 2    SOURCE GROUP 1

PEN	ASSIGNED MODULE	MODULE TYPE	FCT ID	HWY BDL	INSERTED MODULE	STATE	HW-INFO	MODULE STATUS
79	Q2196-X	DIU-N2	1	A	Q2196-X	1	-06 -	READY

AMO-BCSU -111            BOARD CONFIGURATION, SWITCHING UNIT  
 DISPLAY COMPLETED;

## Class of Trunk, COT

<dis-cot:22;  
 DIS-COT:22;  
 H500: AMO COT    STARTED

COT: 22 INFO:  
 DEVICE: INDEP            SOURCE: DB  
 PARAMETER:

PRIORITY FOR AC WILL BE DETERMINED FROM MESSAGE	PRI
RECALL IF USER HANGS UP IN CONSULTATION CALL	RCL
TRUNK CALL TRANSFER	XFER
TRUNK SIGNALING ANSWER	ANS
CHANGEOVER FROM HOLD TO RING TONE	CHRT
KNOCKING OVERRIDE POSSIBLE	KNOR
CALL EXTEND FOR BUSY, RING OR CALL STATE	CEBC
NETWORKWIDE AUTOMATIC CALLBACK ON BUSY	CBBN
NETWORKWIDE AUTOMATIC CALLBACK ON FREE	CBFN
DON'T RELEASE CALL TO BUSY HUNT GROUP	BSHT
CONNECTION TO ROUTE OPTIMIZATION NODE	ROPT
TSC-SIGNALING FOR NETWORKWIDE FEATURES (MANDATORY)	TSCS
INCOMING CDR BY ZONE OR FROM LINE	ICZL
AOC PER CALL (AUTOMATICAL OR ON REQUEST), MAND. CORNET-NQ	AOCC
LINE WITH IMPLICIT NUMBERS	LINO
NO TONE	NTON



AMO-COT -111 CLASS OF TRUNK FOR CALL PROCESSING  
 DISPLAY COMPLETED;

**For Call Forwarding by Reroute need to add FNAN and FWDN to COT22  
 For Path Replacement need to add ROPT to COT 22 on the Hipath 4000.**

<CHANGE-COT:COTNO=22,COTTYPE=COTADD,PAR=FNAN&FWDN;  
 CHANGE-COT:COTNO=22,COTTYPE=COTADD,PAR=FNAN&FWDN&ROPT;  
 H500: AMO COT STARTED  
 H07: CHANGED COT STILL LINKED WITH FOLLOWING TRUNKS:

COT	TRUNK	BCGR	DEVICE
22	1- 3- 55-	0 1	CDGCONN
	1- 3- 55-	1 1	CDGCONN
	1- 3- 25-	0 1	S2CONN
	1- 3- 25-	1 1	S2CONN

H06: COT 22 CHANGED

AMO-COT -111 CLASS OF TRUNK FOR CALL PROCESSING  
 CHANGE COMPLETED;

<DISPLAY-COT:COTNO=22;  
 DISPLAY-COT:COTNO=22;  
 H500: AMO COT STARTED

COT: 22 INFO:  
 DEVICE: INDEP SOURCE: DB  
 PARAMETER:  
 PRIORITY FOR AC WILL BE DETERMINED FROM MESSAGE PRI  
 RECALL IF USER HANGS UP IN CONSULTATION CALL RCL  
 TRUNK CALL TRANSFER XFER  
 TRUNK SIGNALING ANSWER ANS  
 CHANGEOVER FROM HOLD TO RING TONE CHRT  
 KNOCKING OVERRIDE POSSIBLE KNOR  
 CALL EXTEND FOR BUSY, RING OR CALL STATE CEBC  
 NETWORKWIDE AUTOMATIC CALLBACK ON BUSY CBBN  
 NETWORKWIDE AUTOMATIC CALLBACK ON FREE CBFN  
**NETWORKWIDE CALL FORWARDING PERMITTED FWDN**  
**NETWORKWIDE FORWARDING NO-ANSWER FNAN**  
 DON'T RELEASE CALL TO BUSY HUNT GROUP BSHT  
**CONNECTION TO ROUTE OPTIMIZATION NODE ROPT**  
 TSC-SIGNALING FOR NETWORKWIDE FEATURES (MANDATORY) TSCS  
 INCOMING CDR BY ZONE OR FROM LINE ICZL  
 AOC PER CALL (AUTOMATIC OR ON REQUEST), MAND. CORNET-NQ AOCC  
 LINE WITH IMPLICIT NUMBERS LINO  
 NO TONE NTON

AMO-COT -111 CLASS OF TRUNK FOR CALL PROCESSING  
 DISPLAY COMPLETED;

### Class of Parameter for Device Handler, COP

<DISPLAY-COP:COPNO=21;  
 DISPLAY-COP:COPNO=21;  
 H500: AMO COP STARTED

COP: 21 INFO:  
 DEVICE: INDEP SOURCE: DB  
 PARAMETER:  
 LINE WITH END-OF-DIAL EOD  
 SPECIAL MODE SFRM  
 CODE CALLING RELEASE AFTER EVERY TASK CCR  
 REGISTRATION OF LAYER 3 ADVISORIES L3AR



```
CO TRUNK ACCESS:
   TRUNK ACCESS                                TA
```

```
TOLL ACCESS:
   TRUNK ACCESS                                TA
```

```
AMO-COP -111          CLASS OF PARAMETER FOR DEVICE HANDLER
DISPLAY COMPLETED;
```

### Class of Service, COSSU

```
<DISPLAY-COSSU:TYPE=COS,COS=32;
DISPLAY-COSSU:TYPE=COS,COS=32;
H500: AMO COSSU STARTED
```

COS	VOICE	FAX	DTE
32	TA TNOTCR	NOCO NOTIE	TA TNOTCR BASIC MSN CDRINT MULTRA

```
AMO-COSSU-111        CLASSES OF SERVICE
DISPLAY COMPLETED;
```

```
<DISPLAY-COSSU:TYPE=LCOSV,LCOSV=1;
DISPLAY-COSSU:TYPE=LCOSV,LCOSV=1;
H500: AMO COSSU STARTED
```

LCOS	LAUTH						COPIN
V	1	2	3	4	5	6	NUM
	1234567890123456789012345678901234567890123456789012345678901234						
	>SERVICE INFORMATION						
1	X.....						0
	>LCR ATTENDANT FOR VOICE						

```
AMO-COSSU-111        CLASSES OF SERVICE
DISPLAY COMPLETED;
```



### Trunk Group Access Code, BUEND

<DISPLAY-BUEND:TGRP=26,FORMAT=L;  
DISPLAY-BUEND:TGRP=26,FORMAT=L;  
H500: AMO BUEND STARTED

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| TGRP NUMBER :    26  TGRP NAME   : PRI ECMA 3           MAXIMUM NO.   :    30 |
|                   CHARCON    : NEUTRAL                |
| SUBGROUP NO. :    9  DEVICE TYPE : S2CONN              TRACENO       :    0 |
| RESERVED    :    N  SEARCH MODE : CIRCULAR            ACD THRESHOLD :    * |
| NUMBER OF ASSOCIATED ROUTES : 6                       PRIORITY      :    2 |
| TDDRFLAG    :    ON TDDRTHRESHOLD: 3                  SOURCEGROUPIDX :    1 |
| GDTRRULE    :    0  ACDPMGRP   : 0                    |
| THE FOLLOWING TRUNKS (LTG-LTU-SLOT-CCT) HAVE BEEN ALLOCATED:
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1- 3- 25-0    1 | 1- 3- 25-0    2 | 1- 3- 25-0    3 |
| 1- 3- 25-0    4 | 1- 3- 25-0    5 | 1- 3- 25-0    6 |
| 1- 3- 25-0    7 | 1- 3- 25-0    8 | 1- 3- 25-0    9 |
| 1- 3- 25-0   10 | 1- 3- 25-0   11 | 1- 3- 25-0   12 |
| 1- 3- 25-0   13 | 1- 3- 25-0   14 | 1- 3- 25-0   15 |
| 1- 3- 25-0   16 | 1- 3- 25-0   17 | 1- 3- 25-0   18 |
| 1- 3- 25-0   19 | 1- 3- 25-0   20 | 1- 3- 25-0   21 |
| 1- 3- 25-0   22 | 1- 3- 25-0   23 | 1- 3- 25-0   24 |
| 1- 3- 25-0   25 | 1- 3- 25-0   26 | 1- 3- 25-0   27 |
| 1- 3- 25-0   28 | 1- 3- 25-0   29 | 1- 3- 25-0   30 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

AMO-BUEND-111 TRUNK GROUP  
DISPLAY COMPLETED;

<DISPLAY-BUEND:TGRP=27,FORMAT=L;  
DISPLAY-BUEND:TGRP=27,FORMAT=L;  
H500: AMO BUEND STARTED

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| TGRP NUMBER :    27  TGRP NAME   : PRI ECMA 4           MAXIMUM NO.   :    30 |
|                   CHARCON    : NEUTRAL                |
| SUBGROUP NO. :   10  DEVICE TYPE : S2CONN              TRACENO       :    0 |
| RESERVED    :    N  SEARCH MODE : CIRCULAR            ACD THRESHOLD :    * |
| NUMBER OF ASSOCIATED ROUTES : 4                       PRIORITY      :    2 |
| TDDRFLAG    :    ON TDDRTHRESHOLD: 3                  SOURCEGROUPIDX :    1 |
| GDTRRULE    :    0  ACDPMGRP   : 0                    |
| THE FOLLOWING TRUNKS (LTG-LTU-SLOT-CCT) HAVE BEEN ALLOCATED:
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1- 3- 25-1    1 | 1- 3- 25-1    2 | 1- 3- 25-1    3 |
| 1- 3- 25-1    4 | 1- 3- 25-1    5 | 1- 3- 25-1    6 |
| 1- 3- 25-1    7 | 1- 3- 25-1    8 | 1- 3- 25-1    9 |
| 1- 3- 25-1   10 | 1- 3- 25-1   11 | 1- 3- 25-1   12 |
| 1- 3- 25-1   13 | 1- 3- 25-1   14 | 1- 3- 25-1   15 |
| 1- 3- 25-1   16 | 1- 3- 25-1   17 | 1- 3- 25-1   18 |
| 1- 3- 25-1   19 | 1- 3- 25-1   20 | 1- 3- 25-1   21 |
| 1- 3- 25-1   22 | 1- 3- 25-1   23 | 1- 3- 25-1   24 |
| 1- 3- 25-1   25 | 1- 3- 25-1   26 | 1- 3- 25-1   27 |
| 1- 3- 25-1   28 | 1- 3- 25-1   29 | 1- 3- 25-1   30 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

AMO-BUEND-111 TRUNK GROUP  
DISPLAY COMPLETED;



## Trunk Configuration, TDCSU

### For Master-side Configuration

<dis-tdcsu:1-3-25-1;

DIS-TDCSU:1-3-25-1;

H500: AMO TDCSU STARTED

```

+----- DIGITAL TRUNK (FORMAT=L) -----+
| DEV      = S2CONN      PEN      = 1-03-025-1  TGRP      = 27  |
+-----+-----+-----+-----+
| PROTVAR = PSS1V2      INS      = Y          SRCHMODE = CIR  |
| COTNO    = 22          COPNO    = 21          DPLN     = 0    |
| ITR      = 1          COS      = 32          LCOSV    = 1    |
| LCOSD    = 1          CCT      = PRI ECMA 4    DESTNO   = 111  |
| SEGMENT  = 1          DEDSCC   =             DEDSVC   = NONE  |
| FACILITY =             DITIDX   =             SRTIDX   =     |
| TRTBL    = GDTR       SIDANI    = N          ATNTYP   = TIE  |
| CBMATTR  = NONE      NWMUXTIM = 10         TCHARG   = N    |
| SUPPRESS = 0          DGTPR    =             CHIMAP   = N    |
| ISDNIP   =           ISDNPNP  =             PNPAC    =     |
| PNPL2P   =           PNPL1P   =             NNO      = 111  |
| TRACOUNT = 31        SATCOUNT = MANY       CARRIER = 1    |
| ALARMNO  = 0          FIDX     = 1          FWDX     = 5    |
| ZONE     = EMPTY     COTX     = 22         TPROFNO  =     |
| DOMTYPE  =           DOMAINNO =             CCHDL    =     |
| INIGHT   =           UUSCCY   = 8          FNIDX    = 1    |
| UUSCCX   = 16        & G711   & G729OPT    SRCGRP   =     |
| CLASSMRK = EC        & G711   & G729OPT    SRCGRP   =     |
| TCCID    =           |
+-----+-----+-----+-----+
| BCNEG    = N          BCGR     = 1          LWPAR    = 1  |
| LWPP     = 0          LWLT     = 0          LWPS     = 0    |
| LWR1     = 0          LWR2     = 0          |
| SVCDOM   =           |
| BCHAN    = 1 && 30    |
+-----+-----+-----+-----+

```

AMOUNT OF B-CHANNELS IN THIS DISPLAY-OUTPUT: 30

AMO-TDCSU-111 DIGITAL TRUNKS

DISPLAY COMPLETED;

<DISPLAY-LWPAR:FORMAT=L,BLNO=1,TYPE=DIUS2;

DISPLAY-LWPAR:FORMAT=L,BLNO=1,TYPE=DIUS2;

H500: AMO LWPAR STARTED

```

+-----+-----+-----+-----+
| LOADWARE PARAMETERS      CIRCUIT TYPE: DIUS2  SOURCE:DB  BLOCK: 1 |
+-----+-----+-----+-----+
| LNTYPE  = COPPER         VERSION   = S2          QUAL      = ON    |
| MASTER = Y            DCHAN1   = 16         DCHAN2   = 0    |
| PATTERN = D5H           QUAL1     = 10 SEC.   QUAL2    = 10 MIN. |
| SMD    = Y            PERMACT  = Y          FCBAB    = DFH    |
| CDG     = N             FIXEDTEI  = 0          CNTRNR   = 255   |
| TEIVERIF = N           CRC4REP   = N          |
| DEV     = INDEP        |
| INFO    =             |
+-----+-----+-----+-----+

```

AMO-LWPAR-111 LOADWARE PARAMETERS FOR NETWORKING MODULES

DISPLAY COMPLETED;



### For Slave-side Configuration

<dis-tdcsu:1-3-25-1;  
DIS-TDCSU:1-3-25-1;  
H500: AMO TDCSU STARTED

```

+-----+-----+-----+-----+
| DEV      = S2CONN      PEN      = 1-03-025-1  TGRP      = 27  |
+-----+-----+-----+-----+
| PROTVAR = PSS1V2      INS       = Y          SRCHMODE = CIR  |
| COTNO    = 22          COPNO    = 21          DPLN     = 0    |
| ITR      = 1          COS       = 32          LCOSV    = 1    |
| LCOSD    = 1          CCT       = PRI ECMA 4   DESTNO   = 111  |
| SEGMENT  = 1          DEDSCC   =              DEDSVC  = NONE  |
| FACILITY =              DITIDX  =              SRTIDX  =      |
| TRTBL    = GDTR       SIDANI   = N           ATNTYP  = TIE   |
| CBMATTR  = NONE      NWMUXTIM = 10          TCHARG  = N     |
| SUPPRESS = 0          DGTPR    =              CHIMAP  = N     |
| ISDNIP   =              ISDNIP  =              |
| PNPL2P   =              PNPL1P  =              PNPAC   =      |
| TRACOUNT = 31          SATCOUNT = MANY      NNO     = 111  |
| ALARMNO  = 0          FIDX     = 1          CARRIER = 1    |
| ZONE     = EMPTY     COTX     = 22          FWDX    = 5    |
| DOMTYPE  =              DOMAINNO =          TPROFNO =      |
| INIGHT   =              UUSCCY  = 8          CCHDL   =      |
| UUSCCX   = 16          && G711  && G729OPT    FNIDX   = 1    |
| CLASSMRK = EC        && G711  && G729OPT    SRCGRP  =      |
| TCCID    =              |
+-----+-----+-----+-----+
| BCNEG    = N          BCGR     = 1          LWPAR   = 0    |
| LWPP     = 0          LWLT     = 0          LWPS    = 0    |
| LWR1     = 0          LWR2     = 0          |
| SVCDOM   =              |
| BCHAN    = 1 && 30    |
+-----+-----+-----+-----+

```

AMOUNT OF B-CHANNELS IN THIS DISPLAY-OUTPUT: 30

AMO-TDCSU-111 DIGITAL TRUNKS  
DISPLAY COMPLETED;

<DISPLAY-LWPAR:FORMAT=L,BLNO=0,TYPE=DIUS2;  
DISPLAY-LWPAR:FORMAT=L,BLNO=0,TYPE=DIUS2;  
H500: AMO LWPAR STARTED

```

+-----+-----+-----+-----+
| LOADWARE PARAMETERS      CIRCUIT TYPE: DIUS2  SOURCE:DB  BLOCK: 0 |
+-----+-----+-----+-----+
| LNTYPE  = COPPER          VERSION  = S2          QUAL      = ON    |
| MASTER = N             DCHAN1  = 16          DCHAN2   = 0    |
| PATTERN = D5H            QUAL1   = 10 SEC.    QUAL2    = 10 MIN. |
| SMD    = N             PERMACT = Y           FCBAB    = DFH   |
| CDG     = N             FIXEDTEI = 0          CNTRNR   = 255  |
| TEIVERIF = N            CRC4REP  = N          |
| DEV     = INDEP          |
| INFO    =              |
+-----+-----+-----+-----+

```

AMO-LWPAR-111 LOADWARE PARAMETERS FOR NETWORKING MODULES  
DISPLAY COMPLETED;



## PSTN Trunk Configuration, TDCSU

```
<dis-tdcsu:1-2-79-1;
DIS-TDCSU:1-2-79-1;
H500: AMO TDCSU STARTED
```

```

+----- DIGITAL TRUNK (FORMAT=L) -----+
| DEV      = S2CONN      PEN      = 1-02-079-1  TGRP      = 23
+-----+
| PROTVAR  = ETSI        INS       = Y          SRCHMODE  = CIR
| COTNO    = 21          COPNO    = 21          DPLN      = 0
| ITR      = 1           COS       = 10          LCOSV     = 32
| LCOSD    = 32          CCT       = PRI ECMA 2  DESTNO    = 100
| SEGMENT  = 8           DEDSCC  =          DEDSVC    = NONE
| FACILITY =             DITIDX  =          SRTIDX    =
| TRTBL    = GDTR       SIDANI   = N          ATNTYP    = TIE
| CBMATTR  = NONE       NWMUXTIM = 10         TCHARG    = N
| SUPPRESS = 0          DGTPR   =          CHIMAP    = N
| ISDNIP   =           ISDNPNP  =
| PNPL2P   =           PNPL1P   =          PNPAC    =
| TRACOUNT = 31         SATCOUNT = MANY      NNO       = 1
| ALARMNO  = 0          FIDX    = 1          CARRIER  = 1
| ZONE     = EMPTY     COTX    = 21         FWDX     = 10
| DOMTYPE  =           DOMAINNO =          TPROFNO  =
| INIGHT   =
| UUSCCX   = 16         UUSCCY  = 8          FNIDX    = 1
| CLASSMRK = EC        & G711   & G729OPT  SRCGRP    =
| TCCID    =
+-----+
| BCNEG    = N          BCGR     = 1          LWPAR    = 1
| LWPP     = 0          LWLT    = 0          LWPS     = 0
| LWR1     = 0          LWR2    = 0
| SVCDOM   =
| BCHAN    = 1 && 30
+-----+

```

AMOUNT OF B-CHANNELS IN THIS DISPLAY-OUTPUT: 30

```
AMO-TDCSU-111      DIGITAL TRUNKS
DISPLAY COMPLETED;
```

## Trunk Configuration to Hicom node, TDCSU

```
<DISPLAY-TDCSU:PEN1=1-3-25-0;
DISPLAY-TDCSU:PEN1=1-3-25-0;
H500: AMO TDCSU STARTED
```

```

+----- DIGITAL TRUNK (FORMAT=L) -----+
| DEV      = S2CONN      PEN      = 1-03-025-0  TGRP      = 26
+-----+
| PROTVAR  = PSS1V2     INS       = Y          SRCHMODE  = CIR
| COTNO    = 22          COPNO    = 21          DPLN      = 0
| ITR      = 1           COS       = 32          LCOSV     = 1
| LCOSD    = 1          CCT       = PRI ECMA 3  DESTNO    = 222
| SEGMENT  = 1           DEDSCC  =          DEDSVC    = NONE
| FACILITY =             DITIDX  =          SRTIDX    =
| TRTBL    = GDTR       SIDANI   = N          ATNTYP    = TIE
| CBMATTR  = NONE       NWMUXTIM = 10         TCHARG    = N
| SUPPRESS = 0          DGTPR   =          CHIMAP    = N
| ISDNIP   =           ISDNPNP  =
| PNPL2P   =           PNPL1P   =          PNPAC    =
| TRACOUNT = 31         SATCOUNT = MANY      NNO       = 222
| ALARMNO  = 0          FIDX    = 1          CARRIER  = 1
| ZONE     = EMPTY     COTX    = 22         FWDX     = 10
| DOMTYPE  =           DOMAINNO =          TPROFNO  =
+-----+

```



```

| INIGHT = |
| UUSCCX = 16 | UUSCCY = 8 | CCHDL = |
| CLASSMRK = EC & G711 & G729OPT | FNIDX = 1 |
| TCCID = | SRCGRP = | |
|---|---|---|
| BCNEG = N | BCGR = 1 | LWPARG = 1 |
| LWPP = 0 | LWLT = 0 | LWPS = 0 |
| LWR1 = 0 | LWR2 = 0 |
| SVCDOM = |
| BCHAN = 1 && 30 |
|-----|

```

AMOUNT OF B-CHANNELS IN THIS DISPLAY-OUTPUT: 30

AMO-TDCSU-111 DIGITAL TRUNKS  
 DISPLAY COMPLETED;

**Reference Clock Configuration, REFTA**

**For Master-side Configuration**

```

<DISPLAY-REFTA:TYPE=CIRCUIT,PEN=1-3-25-1,KIND=ALL;
DISPLAY-REFTA:TYPE=CIRCUIT,PEN=1-3-25-1,KIND=ALL;
H500: AMO REFTA STARTED

```

R E F E R E N C E C L O C K C I R C U I T S									
PEN	MODULE	DEVICE	PRI	ERROR	BLOCK	SUPP.	READY	SRCGRP	
							BUT		
							ASYN.		
1- 3- 25- 1	DIU-N2	S2CONN	0	0	N		N	1	

AMO-REFTA-111 REFERENCE CLOCK TABLE  
 DISPLAY COMPLETED;

**For Slave-side Configuration**

```

<DISPLAY-REFTA:TYPE=CIRCUIT,PEN=1-3-25-1,KIND=ALL;
DISPLAY-REFTA:TYPE=CIRCUIT,PEN=1-3-25-1,KIND=ALL;
H500: AMO REFTA STARTED

```

R E F E R E N C E C L O C K C I R C U I T S									
PEN	MODULE	DEVICE	PRI	ERROR	BLOCK	SUPP.	READY	SRCGRP	
							BUT		
							ASYN.		
1- 3- 25- 1	DIU-N2	S2CONN	11	0	N		N	1	

AMO-REFTA-111 REFERENCE CLOCK TABLE  
 DISPLAY COMPLETED;





## Trunk Least Cost Routing Configuration

### LDAT

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=1;
DISPLAY-LDAT:TYPE=LCR,LROUTE=1;
H500: AMO LDAT STARTED
```

```
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LROUTE = 1      LDPLN      NAME = ROPTCISCO UNIFIED CALLMANAGER      SERVICE = ALL |
| TYPE = LCR                                           DNNNO OF ROUTE =      111 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | LATTR | LDSRT |
| ABCDEFGH | ZONE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 27 | 111 | 1 | ***** | 1 | EMPTY | NONE |
| DNNNO = 111 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
AMO-LDAT -111      LCR-DIRECTIONS
DISPLAY COMPLETED;
```

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=26;
DISPLAY-LDAT:TYPE=LCR,LROUTE=26;
H500: AMO LDAT STARTED
```

```
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LROUTE = 26      NAME = PRI 3 ECMA1      SERVICE = ALL |
| TYPE = LCR                                           DNNNO OF ROUTE =      111 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | LATTR | LDSRT |
| ABCDEFGH | ZONE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 26 | 15 | 3 | ***** | 1 | EMPTY | NONE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
AMO-LDAT -111      LCR-DIRECTIONS
DISPLAY COMPLETED;
```

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=27;
DISPLAY-LDAT:TYPE=LCR,LROUTE=27;
H500: AMO LDAT STARTED
```

```
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LROUTE = 27      LDPLN      NAME = PRI 4 ECMA1      SERVICE = ALL |
| TYPE = LCR                                           DNNNO OF ROUTE =      111 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | LATTR | LDSRT |
| ABCDEFGH | ZONE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 27 | 15 | 1 | ***** | 1 | EMPTY | NONE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
AMO-LDAT -111      LCR-DIRECTIONS
DISPLAY COMPLETED;
```

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=165;
DISPLAY-LDAT:TYPE=LCR,LROUTE=165;
H500: AMO LDAT STARTED
```

```
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LROUTE = 165    LDPLN      NAME = PSTN 91650      SERVICE = ALL |
| TYPE = LCR                                           DNNNO OF ROUTE =      89 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```



LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE ABCDEFGH	CARRIER ZONE	LATTR	LDSRT	
1	1	23	50	1	*****	1 EMPTY	NONE		
DNNO =			89						

AMO-LDAT -111 LCR-DIRECTIONS  
 DISPLAY COMPLETED;

## RICHT

DISPLAY-RICT:MODE=LRTE,LRTE=1;  
 H500: AMO RICHT STARTED

LRTE = 1	NAME = ROPTCISCO UNIFIED CALLMANAGER	(NEUTRAL)	LSVC = ALL
DNNO =	111 PDNNO = 0	DESTNO =111	
ROUTOPT = YES	REROUT = YES	PLB = NO	FWDBL = NO
DTMFCNV = WITHOUT	DTMFDSP = WITHOUT	DTMFTEXT =	
DTMFPULS =	BUGS = LIN	ROUTATT = NO	MAINGRP = 24
EMCYRRT = NO	CONFTONE = NO	RERINGRP = NO	RTENO = 24
INFO =			
NOPRCFWD = NO			
TGRP = 27	LDAT PRI ECMA 4	(NEUTRAL)	SUBGROUP = 10

AMO-RICT-111 TRUNK ROUTING  
 DISPLAY COMPLETED;

<DISPLAY-RICT:MODE=LRTE,LRTE=26;  
 DISPLAY-RICT:MODE=LRTE,LRTE=26;  
 H500: AMO RICHT STARTED

LRTE = 26	NAME = PRI 3 ECMA1	(NEUTRAL)	LSVC = ALL
DNNO =	111 PDNNO = 0		
ROUTOPT = YES	REROUT = YES	PLB = NO	FWDBL = NO
DTMFCNV = WITHOUT	DTMFDSP = WITHOUT	DTMFTEXT =	
DTMFPULS =	BUGS = LIN	ROUTATT = NO	MAINGRP = 14
EMCYRRT = NO	CONFTONE = NO	RERINGRP = NO	RTENO = 14
INFO =			
NOPRCFWD = NO			
TGRP = 26	LDAT PRI ECMA 3	(NEUTRAL)	SUBGROUP = 9

AMO-RICT-111 TRUNK ROUTING  
 DISPLAY COMPLETED;

<DISPLAY-RICT:MODE=LRTE,LRTE=27;  
 DISPLAY-RICT:MODE=LRTE,LRTE=27;  
 H500: AMO RICHT STARTED

LRTE = 27	NAME = PRI 4 ECMA1	(NEUTRAL)	LSVC = ALL
DNNO =	111 PDNNO = 0		
ROUTOPT = YES	REROUT = YES	PLB = NO	FWDBL = NO
DTMFCNV = FIX	DTMFDSP = WITHOUT	DTMFTEXT =	
DTMFPULS = PP300	BUGS = LIN	ROUTATT = NO	MAINGRP = 15
EMCYRRT = NO	CONFTONE = NO	RERINGRP = NO	RTENO = 15
INFO =			
NOPRCFWD = NO			
TGRP = 27	LDAT PRI ECMA 4	(NEUTRAL)	SUBGROUP = 10



AMO-RICHT-111 TRUNK ROUTING  
 DISPLAY COMPLETED;

### PSTN RICHT

<DISPLAY-RICHT:MODE=LRTE,LRTE=165;  
 DISPLAY-RICHT:MODE=LRTE,LRTE=165;  
 H500: AMO RICHT STARTED

```

+-----+
| LRTE = 165   NAME = PSTN 91650           (NEUTRAL)  LSVC = ALL
| DNNO =      89  PDNNO =      0   DESTNO = 89
| ROUTOPT = YES  REROUT = YES   PLB = NO   FWDBL = NO
| DTMFCNV = WITHOUT DTMFDSP = WITHOUT DTMFTEXT =
| DTMFPULS =     BUGS = LIN  ROUTATT = NO   MAINGRP = 27
| EMCYRRT = NO   CONFTONE = NO  RERINGRP = NO  RTENO = 27
| INFO =
| NOPRCFWD = NO
+-----+
| TGRP = 23  LDAT  ECMA 2                   (NEUTRAL)  SUBGROUP = 6
+-----+

```

AMO-RICHT-111 TRUNK ROUTING  
 DISPLAY COMPLETED;

### LCR Out-dial Rules, LODR

<DISPLAY-LODR:ODR=111,FORMAT=L;  
 H500: AMO LODR STARTED

```

+-----+
| ODR   POSITION  CMD      PARAMETER
+-----+
| 111   | 1    ECHO    1
|       | 2    ECHO    2
|       | 3    END
+-----+

```

H03: THE NEXT FREE ODR IS 2

AMO-LODR -111 ADMINISTRATION OF LCR OUTDIAL RULES  
 DISPLAY COMPLETED;

<DISPLAY-LODR:ODR=15,FORMAT=L;  
 DISPLAY-LODR:ODR=15,FORMAT=L;  
 H500: AMO LODR STARTED

```

+-----+
| ODR   POSITION  CMD      PARAMETER
+-----+
| 15    | 1    ECHO    2
|       | 2    END
+-----+

```

H03: THE NEXT FREE ODR IS 2

AMO-LODR -111 ADMINISTRATION OF LCR OUTDIAL RULES  
 DISPLAY COMPLETED;

<DISPLAY-LODR:ODR=50,FORMAT=L;  
 DISPLAY-LODR:ODR=50,FORMAT=L;  
 H500: AMO LODR STARTED

```

+-----+
| ODR   POSITION  CMD      PARAMETER
+-----+
| 50    | 1    ECHO    2
|       | 2    ECHO    3
+-----+

```



```

|           |           |           |           |           |
+-----+-----+-----+-----+-----+

```

H03: THE NEXT FREE ODR IS 2

AMO-LODR -111            ADMINISTRATION OF LCR OUTDIAL RULES  
 DISPLAY COMPLETED;

**In-Band DTMF signaling:**

In order to enable In-band DTMF signaling on digital stations for Voicemail applications, the station configuration has to be changed so that the parameter DTMFCTRD=Y.

**Name and Number Restrictions:**

To use Name and Number Restrictions, the station configuration should be changed so that the parameter SSTNO=Y, (Secret Station Number must be set to Yes).

```

<dis-sbcusu:5002;
DIS-SBCSU:5002;
H500: AMO SBCSU STARTED

```

```

----- USER DATA -----
STNO   =5002   OPT    =OPTI   COS1   =2       DPLN   =1
MAINO  =5002   CONN   =DIR     COS2   =2       ITR    =1
PEN    = 1- 3- 31- 2   LCOSV1 =6       COSX   =0
INS    =Y      ASYNCT =500    LCOSV2 =6
                PERMACT =        LCOSD1 =6
SSTNO  =Y      EXTBUS  =        LCOSD2 =6       CBKBMAX =5
TRACE  =N      EXTBUS  =        RCBKB  =N
ALARMNO =0     DFSVCANA=        SPDI   =0       RCBKNA =N
HMUSIC =0     FLASH  =        SPDC1  =        CBKNAMB =Y
PMIDX  =0     SPDC2  =        COMGRP =0

SECR   =N     DIGNODIS=N     DSSTNA =N
STD    =55    CALLOG  =NONE   DSSTNB =Y       TEXTSEL =ENGLISH

REP    =0     OPTICOM =N      OPTIUSB :0       VPI     =
IDCR   =N     OPTICA  =1      OPTIS0A :        VCI     =
                OPTIDA  =        OPTISPA :0       PATTERN =
                OPTIABA :0

DCFWBUSY=N   HEADSET =N      APICLASS=
DNIDSP  =N   HSKEY   =NORMAL  ACFAPPL =0
DTMFBLK =N   IPPASSW =
DTMFCTRD=Y   BASICSVC=
DVCFIG  =OPTIP500  TSI    =1      SPROT   =        SOPTIDX =
                DPROT   =        DOPTIDX =
                FPROT   =        FOPTIDX =

----- ACTIVATION IDENTIFIERS FOR FEATURES -----
FWDS   :N     HTOS   :N     DND     :N
FWDD   :N     HTOD   :N     VCP     :Y     TWLOGIN :N
FWDF   :N     HTOF   :N     CWT     :N

----- FEATURES AND GROUP MEMBERSHIPS -----
PUGR   :      ESSTN  :
KEYSYS :N     NOPTNO :
HUNT CD :N

----- SUBSCRIBER ATTRIBUTES (AMO SDAT) -----
NONE
-----

```

AMO-SBCSU-111



### Configure Digital Station for MWI Application:

To get the MWI light to work, the station configuration should be changed so that the parameter PMIDX (phoneMail Index parameter) needs to point to the IDX identifier that identifies the Message Center's Service Access Number.

```
<dis-sbcSU:5002;
DIS-SBCSU:5002;
H500: AMO SBCSU STARTED
```

```
----- USER DATA -----
STNO   =5002      OPT    =OPTI      COS1   =2        DPLN   =1
MAINO  =5002      CONN   =DIR        COS2   =2        ITR    =1
PEN    = 1- 3- 31- 2      LCOSV1 =6        COSX   =0
INS    =Y         ASYNCT =500      LCOSV2 =6
                                PERMACT =        LCOSD1 =6
                                EXTBUS  =        LCOSD2 =6
SSTNO  =N         EXTBUS  =        CBKBMX =5
TRACE  =N                                RCBKB  =N
ALARMNO =0        DFSVCANA=        SPDI   =0        RCBKNA =N
HMUSIC =0        FLASH  =        SPDC1  =        CBKNAM =Y
PMIDX  =1                                SPDC2  =        COMGRP =0
SECR   =N         DIGNODIS=N      DSSTNA =N
STD    =55        CALLOG  =NONE    DSSTNB =Y        TEXTSEL =ENGLISH
REP    =0         OPTICOM =N        OPTIUSB :0       VPI     =
IDCR   =N         OPTICA  =1        OPTIS0A :        VCI     =
                                OPTIDA  =        OPTISPA :0       PATTERN =
                                OPTIABA :0
DCFWBUSY=N       HEADSET =N        APICLASS=
DNIDSP =N        HSKEY   =NORMAL  ACFAPPL =0
DTMFBLK =N                                IPPASSW =
DTMFCTR=Y       BASICSVCS=
DVCFIG =OPTIP500 TSI     =1        SPROT  =        SOPTIDX =
                                DPRROT  =        DOPTIDX =
                                FPROT  =        FOPTIDX =
----- ACTIVATION IDENTIFIERS FOR FEATURES -----
FWDS   :N        HTOS   :N        DND    :N
FWDD   :N        HTOD   :N        VCP    :Y        TWLOGIN :N
FWDF   :N        HTOF   :N        CWT    :N
----- FEATURES AND GROUP MEMBERSHIPS -----
PUGR   :         ESSTN  :
KEYSYS :N        NOPTNO :
HUNT CD :N
----- SUBSCRIBER ATTRIBUTES (AMO SDAT) -----
NONE
-----
```

AMO-SBCSU-111



### Configure Message Center's Service Access Number for MWI Application:

Since the MWI was tested with the Message Center integrated on CallManager side, the PBX needs to configure an identifier for the Message Center's Service Access Number in order for the MWI light to work. Without this identifier the MWI light will not work.

```
<ADD-RICHT:MODE=PM,IDX=1,SAN=4005;
ADD-RICHT:MODE=PM,IDX=1,SAN=4005;
H500: AMO RICHT STARTED
```

```
AMO-RICHT-111 TRUNK ROUTING
ADD COMPLETED;
<DISP-RICH:MODE=PM;
S3: DATA SUBSYSTEM FOR AMO RICH NOT FOUND ON HARD DISK
```

```
<DISP-RICHT
MODE = PM
DISP-RICHT:PM;
H500: AMO RICHT STARTED
```

IDX	SAN	NAME	TYPE
1	4005		OTHER

```
AMO-RICHT-111 TRUNK ROUTING
DISPLAY COMPLETED;
<
```

### Configure Digital Station's Class of Service for Mailbox MWI application

```
<DISPLAY-COSSU:TYPE=COS,COS=2,FORMAT=L;
DISPLAY-COSSU:TYPE=COS,COS=2,FORMAT=L;
H500: AMO COSSU STARTED
```

COS	VOICE	FAX	DTE
2	>		
	TA	NOCO	TA
	TSUID	NOTIE	TNOTCR
	TNOTCR	BASIC	BASIC
	CDRINT		
	CDRS		
	CDRC		
	<b>MB</b>		
	COSXCD		
	VCE		
	SPKR		
	DATA		
	FWDNWK		
	RERING		
	CDRIND		
	MSN		
	FWDECA		
	FWDBAS		
	FWDDIR		
	CFB		
	CFNR		
	CCBS		
	CW		
	FWDEXT		



GRPCAL  
SUTVA

AMO-COSSU-111 CLASSES OF SERVICE  
DISPLAY COMPLETED;

<DISPLAY-PERSI:TYPE=NAME,STNO=5002;  
DISPLAY-PERSI:TYPE=NAME,STNO=5002;  
H500: AMO PERSI STARTED

STNO	CHRISTIAN AND SURNAME	CHARCON	ORGANIZATIONAL UNIT
5002	HIPATH DT2*		

AMO-PERSI-111 PERSONAL IDENTIFICATION DATA  
DISPLAY COMPLETED;

## Cisco Unified CallManager Configuration

### Cisco 3745 Gateway Configuration

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

---

**Status**  
Status: Ready

---

**Device Information**

Product: Cisco MGCP E1 Port  
Gateway: 3745B4\_E1  
Device Protocol: Digital Access PRI  
Registration: Registered with Cisco Unified CallManager CM-Vindaloo  
IP Address: 172.20.221.200  
End-Point Name \*: S2/DS1-1@3745B4\_E1  
Description: S2/DS1-1@3745B4\_E1

Device Pool\*:

Call Classification\*:

NetworkLocale:

Packet Capture Mode\*:

Packet Capture Duration:

Media Resource Group List:

Location\*:

AAR Group:

Load Information:

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

**Multilevel Precedence and Preemption (MLPP) Information**

MLPP Domain < None >  
MLPP Indication Not available on this device  
MLPP Preemption Not available on this device

**Interface Information**

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

- Inhibit restarts at PRI initialization  
 Enable status poll  
 Unattended Port

**Call Routing Information - Inbound Calls**

Significant Digits\* All  
Calling Search Space Incoming Trunk  
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\* National  
Calling party IE number type unknown\* National  
Called Numbering Plan\* Private  
Calling Numbering Plan\* Private  
Number of digits to strip\* 0  
Caller ID DN  
SMDI Base Port\* 0

**PRI Protocol Type Specific Information**

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






Interface Identifier Value\*\*

Connected Line ID Presentation (QSIG Inbound Call)\*

**UUIE Configuration**

Passing Precedence Level Through UUIE

Security Access Level\*

**Product Specific Configuration** 

Line Coding \*

Framing \*

Clock \*



## Partition Configuration

Navigation Cisco Unified CallManager Administration Go

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

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

### Find and List Partitions

**Status**  
2 records found

**Search Options**  
Find partition where Partition Name begins with  Find  Search Within Results  
(name begins with any)

**Search Results**

	Partition Name	Description
<input type="checkbox"/>	<a href="#">Incoming Trunk</a>	Incoming Trunk
<input type="checkbox"/>	<a href="#">Phones</a>	Phones

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

## Calling Search Space

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

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

### Find and List Calling Search Spaces

**Status**  
3 records found

**Search Options**  
Find where Name begins with  Find  Search Within Results  
(name begins with any)

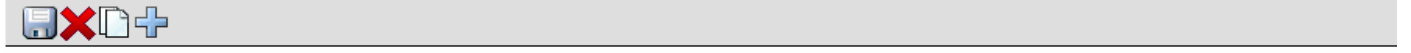
**Search Results**

	CSS Name	Description	Copy
<input type="checkbox"/>	<a href="#">Incoming Trunk</a>	3745 E1	
<input type="checkbox"/>	<a href="#">Path ReplacementCCS</a>	Path ReplacementCCS	
<input type="checkbox"/>	<a href="#">Phones</a>	7960 and 7940	

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



**Calling Search Space Configuration** Related Links: [Back To Find/List](#)



**Status**  
Status: Ready

**Calling Search Space Information**

Name\*

Description

**Route Partitions for this Calling Search Space**

Available Partitions

Phones

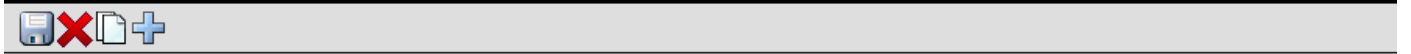
▼ ▲

Selected Partitions  
(Ordered by highest priority)

Incoming Trunk

▼ ▲

**Calling Search Space Configuration** Related Links: [Back To Find/List](#)



**Status**  
Status: Ready

**Calling Search Space Information**

Name\*

Description

**Route Partitions for this Calling Search Space**

Available Partitions

Incoming Trunk

▼ ▲

Selected Partitions  
(Ordered by highest priority)

Phones

▼ ▲



### Calling Search Space Configuration

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



#### Status

Status: Ready

#### Calling Search Space Information

Name\*

Description

#### Route Partitions for this Calling Search Space

Available Partitions



Selected Partitions  
(Ordered by highest priority)



## Enbloc Route Configuration

### Find and List Route Patterns



#### Status

6 records found

#### Search Options

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

#### Search Results

	Pattern	Description	Partition	Route Filter	Associated Device	Copy
<input type="checkbox"/>	<a href="#">222</a>	CCM-Vindaloo to Hicom			<a href="#">S2/DS1-0@3745B4 E1</a>	
<input type="checkbox"/>	<a href="#">555</a>	CCM-Vindaloo to Hipath			<a href="#">S2/DS1-1@3745B4 E1</a>	
<input type="checkbox"/>	<a href="#">5XXX</a>	CCM-Vindaloo to Hipath			<a href="#">S2/DS1-1@3745B4 E1</a>	
<input type="checkbox"/>	<a href="#">8XXX</a>	CCM-Vindaloo to Hicom			<a href="#">S2/DS1-0@3745B4 E1</a>	
<input type="checkbox"/>	<a href="#">9.5</a>	CCM-Vindaloo to Hipath			<a href="#">S2/DS1-1@3745B4 E1</a>	
<input type="checkbox"/>	<a href="#">9.8</a>	CCM-Vindaloo to Hicom			<a href="#">S2/DS1-0@3745B4 E1</a>	

Rows per Page



### Route Pattern Configuration

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



#### Status

Status: Ready

#### Pattern Definition

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

#### Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*

#### Connected Party Transformations

Connected Line ID Presentation\*

Connected Name Presentation\*

#### Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

#### ISDN Network-Specific Facilities Information Element

Network Service Protocol

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value=" -- Not Selected --"/>	<input type="text" value=" &lt; Not Exist &gt;"/>	<input type="text"/>



## Route Pattern Configuration

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



### Status

Status: Ready

### Pattern Definition

Route Pattern *	<input type="text" value="555"/>
Route Partition	<input type="text" value=" &lt; None &gt;"/>
Description	<input type="text" value="CCM-Vindaloo to Hipath"/>
Numbering Plan	<input type="text" value="-- Not Selected --"/>
Route Filter	<input type="text" value=" &lt; None &gt;"/>
MLPP Precedence *	<input type="text" value="Default"/>
Gateway/Route List *	<input type="text" value="S2/DS1-1@3745B4_E1"/> <a href="#">(Edit)</a> <a href="#">Find</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"/>
<input type="checkbox"/> Allow Device Override	<input checked="" type="checkbox"/> Provide Outside Dial Tone
<input type="checkbox"/> Require Forced Authorization Code	<input type="checkbox"/> Allow Overlap Sending
<input type="checkbox"/> Require Client Matter Code	<input type="checkbox"/> Urgent Priority
Authorization Level *	<input type="text" value="0"/>

### Calling Party Transformations

<input type="checkbox"/> Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation *	<input type="text" value="Default"/>
Calling Name Presentation *	<input type="text" value="Default"/>

### Connected Party Transformations

Connected Line ID Presentation *	<input type="text" value="Default"/>
Connected Name Presentation *	<input type="text" value="Default"/>

### Called Party Transformations

Discard Digits	<input type="text" value=" &lt; None &gt;"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

### ISDN Network-Specific Facilities Information Element

Network Service Protocol	<input type="text" value="-- Not Selected --"/>	
Carrier Identification Code	<input type="text"/>	
Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value="-- Not Selected --"/>	<input type="text" value=" &lt; Not Exist &gt;"/>	<input type="text"/>



### Route Pattern Configuration

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



**Status**  
Status: Ready

#### Pattern Definition

Route Pattern\*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence\*

Gateway/Route List\*  [\(Edit\)](#) [Find](#)

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

#### Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*

#### Connected Party Transformations

Connected Line ID Presentation\*

Connected Name Presentation\*

#### Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

#### ISDN Network-Specific Facilities Information Element

Network Service Protocol

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value=" -- Not Selected --"/>	<input type="text" value=" &lt; Not Exist &gt;"/>	<input type="text"/>



**Route Pattern Configuration** Related Links: [Back To Find/List](#)

**Status**  
Status: Ready

**Pattern Definition**

Route Pattern \*   
Route Partition   
Description   
Numbering Plan   
Route Filter   
MLPP Precedence \*   
Gateway/Route List \*     
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

**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





## Overlap Sending Route Pattern Configuration

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

**Status**  
Status: Ready

**Pattern Definition**  
Route Pattern \*   
Route Partition   
Description   
Numbering Plan   
Route Filter   
MLPP Precedence \*   
Gateway/Route List \*  [\(Edit\)](#) [Find](#)  
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

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

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

**Called Party Transformations**  
Discard Digits   
Called Party Transform Mask   
Prefix Digits (Outgoing Calls)

**ISDN Network-Specific Facilities Information Element**  
Network Service Protocol   
Carrier Identification Code   

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value=" -- Not Selected --"/>	<input type="text" value=" &lt; Not Exist &gt;"/>	<input type="text"/>



## Route Pattern Configuration

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



### Status

Status: Ready

### Pattern Definition

Route Pattern *	<input type="text" value="9.8"/>
Route Partition	<input type="text" value=" &lt; None &gt;"/>
Description	<input type="text" value="CCM-Vindaloo to Hicom"/>
Numbering Plan	<input type="text" value="-- Not Selected --"/>
Route Filter	<input type="text" value=" &lt; None &gt;"/>
MLPP Precedence *	<input type="text" value="Default"/>
Gateway/Route List *	<input type="text" value="S2/DS1-0@3745B4_E1"/> <input type="button" value="(Edit)"/> <input type="button" value="Find"/>
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"/>
<input type="checkbox"/> Allow Device Override	<input checked="" type="checkbox"/> Provide Outside Dial Tone
<input type="checkbox"/> Require Forced Authorization Code	<input checked="" type="checkbox"/> Allow Overlap Sending
<input type="checkbox"/> Require Client Matter Code	<input type="checkbox"/> Urgent Priority
Authorization Level *	<input type="text" value="0"/>

### Calling Party Transformations

<input type="checkbox"/> Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation *	<input type="text" value="Default"/>
Calling Name Presentation *	<input type="text" value="Default"/>

### Connected Party Transformations

Connected Line ID Presentation *	<input type="text" value="Default"/>
Connected Name Presentation *	<input type="text" value="Default"/>

### Called Party Transformations

Discard Digits	<input type="text" value="PreDot"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

### ISDN Network-Specific Facilities Information Element

Network Service Protocol	<input type="text" value="-- Not Selected --"/>	
Carrier Identification Code	<input type="text"/>	
Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value="-- Not Selected --"/>	<input type="text" value=" &lt; Not Exist &gt;"/>	<input type="text"/>



## Translation Pattern for Incoming Calls

Translation Pattern Configuration		Related Links: <a href="#">Back To Find/List</a> <input type="button" value="Go"/>
<b>Status</b> Status: Ready		
<b>Pattern Definition</b>		
Translation Pattern	4XXX	
Partition	Incoming Trunk	
Description		
Numbering Plan	< None >	
Route Filter	< None >	
MLPP Precedence*	Default	
Calling Search Space	Phones	
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="No Error"/>	
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input checked="" type="checkbox"/> Urgent Priority	
<b>Calling Party Transformations</b>		
<input type="checkbox"/> 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	
<b>Connected Party Transformations</b>		
Connected Line ID Presentation*	Default	
Connected Name Presentation*	Default	
<b>Called Party Transformations</b>		
Discard Digits	< None >	
Called Party Transform Mask		
Prefix Digits (Outgoing Calls)		



## CLIR Route Pattern Configuration

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

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

**Route Pattern Configuration** Related Links: [Back To Find/List](#)

**Status**  
Status: Ready

**Pattern Definition**

Route Pattern\*   
Route Partition   
Description   
Numbering Plan   
Route Filter   
MLPP Precedence\*   
Gateway/Route List\*     
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

**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



## CNIR Route Pattern Configuration

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

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

**Route Pattern Configuration** Related Links: [Back To Find/List](#)

**Status**  
Status: Ready

**Pattern Definition**

Route Pattern\*   
Route Partition   
Description   
Numbering Plan   
Route Filter   
MLPP Precedence\*   
Gateway/Route List\*     
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

**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



## COLR Translation Pattern Configuration

**Translation Pattern Configuration** Related Links: [Back To Find/List](#)

---

**Status**  
Status: Ready

---

**Pattern Definition**

Translation Pattern: 4XXX

Partition: Incoming Trunk

Description:

Numbering Plan: < None >

Route Filter: < None >

MLPP Precedence\*: Default

Calling Search Space: Phones

Route Option:  
 Route this pattern  
 Block this pattern: No Error

Provide Outside Dial Tone  Urgent Priority

---

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask:

Prefix Digits (Outgoing Calls):

Calling Line ID Presentation\*: Default

Calling Name Presentation\*: Default

---

**Connected Party Transformations**

Connected Line ID Presentation\*: Restricted

Connected Name Presentation\*: 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 >	



## CONR Translation Pattern Configuration

**Translation Pattern Configuration** Related Links: [Back To Find/List](#)

---

**Status**  
Status: Ready

---

**Pattern Definition**

Translation Pattern: 4XXX

Partition: Incoming Trunk

Description:

Numbering Plan: < None >

Route Filter: < None >

MLPP Precedence\*: Default

Calling Search Space: Phones

Route Option:  
 Route this pattern  
 Block this pattern: No Error

Provide Outside Dial Tone  Urgent Priority

---

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask:

Prefix Digits (Outgoing Calls):

Calling Line ID Presentation\*: Default

Calling Name Presentation\*: Default

---

**Connected Party Transformations**

Connected Line ID Presentation\*: Default

Connected Name Presentation\*: Restricted

---

**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 >	



## MWI lamp On/Off Configuration

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

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

**Find and List Message Waiting Numbers**

**Status**  
2 records found

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

**Search Results**

	Directory Number	Description	Partition	Calling Search Space	Copy
<input type="checkbox"/>	<a href="#">4038</a>	MWI On		<a href="#">Path ReplacementCCS</a>	
<input type="checkbox"/>	<a href="#">4039</a>	MWI Off		<a href="#">Path ReplacementCCS</a>	

Rows per Page

**Message Waiting Configuration** Related Links:

**Status**  
Status: Ready

**Message Waiting Information**

Message Waiting Number\*

Partition

Description

Message Waiting Indicator\*  On  Off

Calling Search Space

**Message Waiting Configuration** Related Links:

**Status**  
Status: Ready

**Message Waiting Information**

Message Waiting Number\*

Partition

Description

Message Waiting Indicator\*  On  Off

Calling Search Space





## CallBack Service Parameters

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>	< None >	
<a href="#">No Path Reservation</a> *	True	True
<a href="#">Set Private Numbering Plan for Call Back</a> *	False	False

## CallBack Softkey Configuration

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

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

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

**Status**  
Status: Ready

**Softkey Template Information**

Name *	Standard Feature-CB
Description	Standard Softkey Template for CM Combined Feature
Applications *	Cisco CallManager



### Softkey Template Configuration

Related Links: [Softkey Template Configuration](#)



**Status**  
Status: Ready

#### Softkey Layout Configuration

Softkey Template: Standard Feature-CB

Select a call state to configure:

##### Unselected Softkeys

Undefined (Undefined)

##### Selected Softkeys (ordered by position)\*\*

\*\*End Call (EndCall)  
Direct Transfer (DirTrfr)  
Call Back (CallBack)



### Softkey Template Configuration

Related Links: [Softkey Template Configuration](#)



**Status**  
Status: Ready

#### Softkey Layout Configuration

Softkey Template: Standard Feature-CB

Select a call state to configure:

##### Unselected Softkeys

Conference List (ConfList)  
Direct Transfer (DirTrfr)  
Group Pick Up (GPickUp)  
Immediate Divert (iDivert)  
Join (Join)  
Meet Me (MeetMe)  
Other Pickup (oPickup)  
Pick Up (PickUp)  
Quality Report Tool (QRT)  
Remove Last Conference Party (RmLstC)  
Select (Select)  
Undefined (Undefined)  
Video Mode Command (VidMode)

##### Selected Softkeys (ordered by position)\*\*

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





## Path Replacement Service Parameters

Clusterwide Parameters (Feature - Path Replacement)		
<a href="#">Path Replacement Enabled</a> *	<input type="text" value="True"/>	False
<a href="#">Path Replacement on Tromboned Calls</a> *	<input type="text" value="True"/>	True
<a href="#">Start Path Replacement Minimum Delay Time</a> *	<input type="text" value="2"/>	0
<a href="#">Start Path Replacement Maximum Delay Time</a> *	<input type="text" value="10"/>	0
<a href="#">Path Replacement T1 Timer</a> *	<input type="text" value="30"/>	30
<a href="#">Path Replacement T2 Timer</a> *	<input type="text" value="15"/>	15
<a href="#">Path Replacement PINX ID</a>	<input type="text" value="111"/>	
<a href="#">Path Replacement Calling Search Space</a>	<input type="text" value="Path ReplacementCCS"/>	

## Call Pick Up Group

Call Pickup Group Information	
Call Pickup Group Name *	<input type="text" value="QSIG PINX ID"/>
Call Pickup Group Number *	<input type="text" value="111"/>
Description	<input type="text" value="QSIG PINX ID"/>
Partition	<input type="text" value="&lt; None &gt;"/>

Associated Call Pickup Group Information	
<b>Find Pickup Numbers by Numbers/Partition</b>	
Partition	<input type="text" value="&lt; None &gt;"/>
Call Pickup Group Numbers Contain	<input type="text"/> <input type="button" value="Find"/>
Available Call Pickup Groups	<div style="border: 1px solid black; padding: 5px;">(No Matches Found)</div>
<input type="button" value="Add to Associated Call Pickup Groups"/>	

Current Associated Call Pickup Groups	
<input type="button" value="Reverse Order of Selected Numbers"/>	
Selected Call Pickup Groups	<div style="border: 1px solid black; padding: 5px;">111</div>
▼ ▲	
Removed Call Pickup Groups (to be removed when you click Save)	<div style="border: 1px solid black; height: 40px;"></div>



## Forward by Reroute Service Parameter

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="False"/>	False
<a href="#">Transform Forward by Reroute Destination</a> *	<input type="text" value="True"/>	True
<a href="#">Include Voice Mailbox Address in QSIG Call Diversion APDUs</a> *	<input type="text" value="False"/>	False
<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



## Cisco IP Phone Configuration

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <https://172.20.221.254/ccmadmin/phoneEdit.do?key=68282778-79c3-44c4-9288-97eec1e3c2a9> Go Links >>

Google Search PageRank 0 blocked ABC Check AutoLink AutoFill Options

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

Status  
Status: Ready

**Association Information**  
Modify Button Items

- 778 Line [1] - 4000 in Phones
- Add a new SD
- Unassigned Associated Items
- 778 Line [2] - Add a new DN
- Add a new SD
- Add a new SURL
- Add a new BLF SD
- Privacy
- None

**Phone Type**  
Product Type: Cisco 7940  
Device Protocol: SCCP

**Device Information**

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.221.101
MAC Address*	000427D3FFF7
Description	Auto 4000
Device Pool*	Default
Phone Button Template*	Standard 7940 SCCP
Softkey Template	Standard Feature-CB
Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
User Hold Audio Source	< None >
Network Hold Audio Source	< None >
Location*	Hub_None
User Locale	English United States
Network Locale	< None >
Built In Bridge*	Default

Done Local intranet

Start Clarinet - ... Phone Co... Cisco Unifi... Qsig\_mon... http://ww... PBX\_templ... Siemens\_C... untitled - P... 9:39 AM



Privacy*	Default
Owner User ID	< None >
Phone Load Name	
<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	

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

<b>External Data Locations Information (Leave blank to use default)</b>	
Information	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	

<b>Extension Information</b>	
<input type="checkbox"/> Enable Extension Mobility	
Log Out Profile	-- Not Selected --
Login in User ID	< None >
Log in Time	< None >
Log out Time	< None >

<b>Certification Authority Proxy Function (CAPF) Information</b>	
Certificate Operation*	No Pending Operation
Authentication String	
<input type="button" value="Generate String"/>	
Operation Completes By	2006 : 5 : 19 : 12 (YYYY:MM:DD:HH)
Certificate Operation Status	None

<b>MLPP Information</b>	
MLPP Domain	< None >
MLPP Indication*	Default
MLPP Preemption*	Default



**Secure Shell Information**

Secure Shell User

Secure Shell Password

**Product Specific Configuration Layout** ?

Disable Speakerphone

Disable Speakerphone and Headset

PC Port \*

Settings Access\*

Gratuitous ARP\*

PC Voice VLAN Access\*

Video Capabilities\*

Auto Line Select\*

Web Access\*

**Directory Number Configuration** Related Links: [Back To Find/List](#)



**Status**  
*i* Status: Ready

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

**Directory Number Information**

Directory Number\*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

SEP000427D3FFF7

▼ ▲   
 Dissociate Devices



**Directory Number Settings**

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

Calling Search Space: Phones

Presence Group\*: Standard Presence group

AAR Group: < None >

User Hold Audio Source: < None >

Network Hold Audio Source: < None >

Auto Answer\*: Auto Answer Off

**Call Forward and Call Pickup Settings**

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

**Find**

**MLPP Alternate Party Settings**

Target (Destination): [ ]

MLPP Calling Search Space: Phones

MLPP No Answer Ring Duration (seconds): [ ]

**Line 1 on Device SEP000427D3FFF7**

Display (Internal Caller ID): Vindaloo-00 Display text for a line appearance is intended for displaying text such as a name instead of a 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): Vindaloo-00

Line Text Label: Vindaloo-00

ASCII Line Text Label: Vindaloo-00

External Phone Number Mask: [ ]

Message Waiting Lamp Policy\*: Use System Policy

Ring Setting (Phone Idle)\*: Ring

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

**Multiple Call/Call Waiting Settings on Device SEP000427D3FFF7**

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 SEP000427D3FFF7**

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

## SIP Phone Configuration

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

---

**Status**  
 Status: Ready

---

**Association Information**

Modify Button Items

- 1 [Line \[1\] - 4002 in Phones](#)
- 2 [Line \[2\] - Add a new DN](#)
- 3 [Add a new SD](#)
- 4 [Add a new SD](#)
- 5 [Add a new SD](#)
- 6 [Add a new SD](#)
- Unassigned Associated Items -----
- 7 [Add a new SD](#)
- 8 [Add a new SURL](#)
- 9 [Add a new BLF SD](#)
- 10 Privacy
- 11 None

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

---

**Device Information**

Registration: Registered with Cisco Unified CallManager CM-Vindaloo

IP Address: [172.20.221.103](#)

MAC Address\*: 00170EEE2F9E

Description: Auto 4002

Device Pool\*: Default

Phone Button Template\*: Standard 7961 SIP

Softkey Template: Standard Feature-CB

Common Phone Profile\*: Standard Common Phone Profile

Calling Search Space: < None >

AAR Calling Search Space: < None >

Media Resource Group List: < None >

User Hold Audio Source: < None >

Network Hold Audio Source: < None >

Location\*: Hub\_None

User Locale: < None >

Network Locale: < None >

Built In Bridge\*: Default

Privacy\*: Default

Owner User ID: < None >

Phone Load Name:

Ignore Presentation Indicators (internal calls only)

Allow Control of Device from CTI



**Protocol Specific Information**

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

Media Termination Point Required  
 Unattended Port  
 Require DTMF Reception

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

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

**Extension Information**

Enable Extension Mobility

Log Out Profile: -- Not Selected --

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

**Certification Authority Proxy Function (CAPF) Information**

Certificate Operation\*: No Pending Operation

Authentication String:

Operation Completes By: 2006 : 5 : 20 : 12 (YYYY:MM:DD:HH)

Certificate Operation Status: None

**MLPP Information**

MLPP Domain: < None >

**Secure Shell Information**

Secure Shell User:

Secure Shell Password:



### Product Specific Configuration Layout



Disable Speakerphone

Disable Speakerphone and Headset

PC Port \*

Settings Access \*

Gratuitous ARP \*

PC Voice VLAN Access \*

Video Capabilities \*

Auto Line Select \*

Web Access \*

Span to PC Port \*

Logging Display \*

Load Server

### Directory Number Configuration

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



#### Status

Status: Ready

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

#### Directory Number Information

Directory Number \*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

[Edit Device](#)

[Edit Line Appearance](#)



Dissociate Devices



**Directory Number Settings**

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

**Call Forward and Call Pickup Settings**

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

**Find**

**MLPP Alternate Party Settings**

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

**Line 1 on Device SEP00170EEE2F9E**

Display (Internal Caller ID)	Vindaloo-SIP-02	Display text for a line appearance is intended for displaying text such as a name in: 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)	Vindaloo-SIP-02	
Line Text Label	Vindaloo-SIP-02	
ASCII Line Text Label	Vindaloo-SIP-02	
External Phone Number Mask	<input type="text"/>	
Message Waiting Lamp Policy*	Use System Policy	
Ring Setting (Phone Idle)*	Ring	
Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.



#### Multiple Call/Call Waiting Settings on Device SEP00170EEE2F9E

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 SEP00170EEE2F9E

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

## Voice Mail Profile Configuration

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

**Voice Mail Profile Configuration** Related Links:

**Status**  
 Status: Ready

**Voice Mail Profile Information**

Voice Mail Profile: Unity (used by 4 devices)

Voice Mail Profile Name\*

Description:

Voice Mail Pilot\*\*

Voice Mail Box Mask:

Make this the default Voice Mail Profile for the System

Save Delete Copy Reset Add New






## Voicemail Pilot Configuration


**Navigation** Cisco Unified Call

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

**Voice Mail Pilot Configuration** Related Links:

**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


## Voicemail Ports

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

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

**Find and List Voice Mail Ports**





**Status**  
 4 records found

**Search Options**

Find Voice Mail Port where      Search Within Results

(device.name begins with any)

**Search Results**

<input type="checkbox"/>	Device Name	Description	Device Pool	SCCP Security Profile	Status	IP Address	Copy
<input type="checkbox"/>	<a href="#">Vindaloo-VI1</a>	Unity VM	<a href="#">Default</a>	<a href="#">Standard SCCP Profile for Auto Registration</a>	Registered with CM-Vindaloo	172.20.239.252	
<input type="checkbox"/>	<a href="#">Vindaloo-VI2</a>	Unity VM	<a href="#">Default</a>	<a href="#">Standard SCCP Profile for Auto Registration</a>	Registered with CM-Vindaloo	172.20.239.252	
<input type="checkbox"/>	<a href="#">Vindaloo-VI3</a>	Unity VM	<a href="#">Default</a>	<a href="#">Standard SCCP Profile for Auto Registration</a>	Registered with CM-Vindaloo	172.20.239.252	
<input type="checkbox"/>	<a href="#">Vindaloo-VI4</a>	Unity VM	<a href="#">Default</a>	<a href="#">Standard SCCP Profile for Auto Registration</a>	Registered with CM-Vindaloo	172.20.239.252	

Rows per Page



**Voice Mail Port Configuration** Related Links: [Back To Find/List](#)

**Status**  
Status: Ready

**Device Information**

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

**Directory Number Information**

Directory Number*	4091
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	

**Voice Mail Port Configuration** Related Links: [Back To Find/List](#)

**Status**  
Status: Ready

**Device Information**

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-VI2
Description	Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

**Directory Number Information**

Directory Number*	4092
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	



### Voice Mail Port Configuration

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



**Status**  
Status: Ready

#### Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-V13
Description	Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

#### Directory Number Information

Directory Number*	4093
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	

### Voice Mail Port Configuration

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



**Status**  
Status: Ready

#### Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-V14
Description	Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

#### Directory Number Information

Directory Number*	4094
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	





## Voicemail Version

The screenshot shows the Cisco Unity System Configuration page in Microsoft Internet Explorer. The browser title is "Cisco Unity - System - Microsoft Internet Explorer". The address bar shows the URL: <http://unity1/Web/SA/FrameASP/SysFrame.asp?NavWidth=205>. The page content is organized into a left-hand navigation menu and a main configuration area.

**Configuration**

- Settings
- Software Versions**
- Recordings
- Contacts
- Phone Languages
- GUI Languages

**Software Versions**

Cisco Unity Version	4.1
Build Number	4.1(1)
Windows Server Version	Microsoft Windows 2000 build 2195 (Service Pack 4)
System Administrator DLL	4.1.0.237
AVLOGMGRSVR	4.1.0.111
AVRESLOADERSVR	4.0.4.53
DOH	4.1.0.259
AvResMgr	4.0.3.46
AvMiuSvr	4.1.0.209
AVVIRTUALQUEUESVR	4.0.3.21
AVSASCHEDULERSVR	4.0.4.39
AvRulerSvr	4.0.3.86
AVARBITERSVR	4.1.0.220
AVCONVENGSVR	4.1.0.146
AvPhraseServerSvr	4.1.0.89
AVPAGERCONVSVR	4.1.0.118
AVFAILURECONVSVR	4.0.3.34
AVCONVMGRSVR	4.1.0.146
AVDOHMMSVR	4.0.4.2
AvStatMonSvr	4.1.0.105
AVTrapSVR	4.1.0.84
AVRSASVR	4.0.4.21

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Done Local intranet 2:29 PM



## MWI Configuration

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

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

### Find and List Message Waiting Numbers

**Status**  
2 records found

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

**Search Results**

	Directory Number	Description	Partition	Calling Search Space	Copy
<input type="checkbox"/>	<a href="#">4038</a>	MWI On		<a href="#">Path ReplacementCCS</a>	
<input type="checkbox"/>	<a href="#">4039</a>	MWI Off		<a href="#">Path ReplacementCCS</a>	

Rows per Page

## MWI ON

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

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

### Message Waiting Configuration

Related Links:

**Status**  
Status: Ready

**Message Waiting Information**

Message Waiting Number\*

Partition

Description

Message Waiting Indicator\*  On  Off

Calling Search Space








## MWI OFF

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

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

**Message Waiting Configuration** Related Links: [Back To Find/List](#)

**Status**  
 Status: Ready

**Message Waiting Information**

Message Waiting Number*	<input type="text" value="4039"/>
Partition	<input data-bbox="402 688 889 720" type="text" value=" &lt; None &gt; "/>
Description	<input type="text" value="MWI Off"/>
Message Waiting Indicator*	<input type="radio"/> On <input checked="" type="radio"/> Off
Calling Search Space	<input data-bbox="402 804 889 835" type="text" value="Path ReplacementCCS"/>



## Cisco 3745 Configuration

### Router# show version

Cisco IOS Software, 3700 Software (C3745-IPVOICE-M), Version 12.4(3), RELEASE SOFTWARE (fc2)  
Technical Support: <http://www.cisco.com/techsupport>  
Copyright (c) 1986-2005 by Cisco Systems, Inc.  
Compiled Fri 22-Jul-05 03:09 by hqluong

ROM: System Bootstrap, Version 12.2(8r)T2, RELEASE SOFTWARE (fc1)

3745B4\_E1 uptime is 2 weeks, 6 days, 19 hours, 11 minutes  
System returned to ROM by power-on  
System image file is "flash:c3745-ipvoice-mz.124-3.bin"

Cisco 3745 (R7000) processor (revision 2.0) with 241664K/20480K bytes of memory.  
Processor board ID JMX0715L08P  
R7000 CPU at 350MHz, Implementation 39, Rev 3.3, 256KB L2, 2048KB L3 Cache  
2 FastEthernet interfaces  
124 Serial interfaces  
4 Channelized E1/PRI ports  
2 Voice FXS interfaces  
DRAM configuration is 64 bits wide with parity disabled.  
151K bytes of NVRAM.  
125184K bytes of ATA System CompactFlash (Read/Write)  
62592K bytes of ATA Slot0 CompactFlash (Read/Write)  
Configuration register is 0x2102

### 3745B4\_E1# shos running-config

Building configuration...

Current configuration : 3738 bytes

```
!  
version 12.4  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname 3745B4_E1  
!  
boot-start-marker  
boot system flash:c3745-ipvoice-mz.124-3.bin  
boot-end-marker  
!  
logging buffered 1000000 debugging  
!  
no aaa new-model  
!  
resource policy  
!  
no network-clock-participate slot 1  
no network-clock-participate slot 2  
voice-card 1  
dspfarm  
!
```



```
voice-card 2
 dspfarm
 !
 ip subnet-zero
 ip cef
 ip tcp synwait-time 13
 !
 !
 no ip dhcp use vrf connected
 ip dhcp excluded-address 192.168.10.0 192.168.10.60
 ip dhcp excluded-address 192.168.11.0 192.168.11.10
 !
 ip dhcp pool hq-pool-phones
 network 192.168.10.0 255.255.255.0
 option 150 ip 192.168.10.50
 default-router 192.168.10.1
 !
 ip dhcp pool hq-pool-data
 network 192.168.11.0 255.255.255.0
 default-router 192.168.11.1
 !
 !
 no ip domain lookup
 ip host whiz 171.69.1.162
 ip host dirt 171.69.1.129
 ip host danube 171.69.17.14
 ip host CM-VINDALOO 172.20.221.254
 ip name-server 172.20.221.254
 ip dhcp-server 192.168.10.1
 isdn switch-type primary-net5
 !
 !
 voice call carrier capacity active
 !
 !
 !
 !
 !
 !
 !
 !
 !
 !
 controller E1 1/0
 pri-group timeslots 1-31 service mgcp
 !
 controller E1 1/1
 pri-group timeslots 1-31 service mgcp
 !
 controller E1 2/0
 pri-group timeslots 1-31 service mgcp
```



```
!  
controller E1 2/1  
  pri-group timeslots 1-31 service mgcp  
!  
!  
interface FastEthernet0/0  
  ip address 172.20.221.200 255.255.255.0  
  duplex auto  
  speed auto  
!  
interface FastEthernet0/0.10  
  encapsulation dot1Q 10  
  no snmp trap link-status  
!  
interface FastEthernet0/0.11  
  encapsulation dot1Q 11  
  ip address 192.168.11.1 255.255.255.0  
  no snmp trap link-status  
!  
interface FastEthernet0/1  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
interface Serial1/0:15  
  no ip address  
  isdn switch-type primary-net5  
  isdn incoming-voice voice  
  isdn bind-l3 Cisco Unified CallManager-manager  
  no cdp enable  
!  
interface Serial1/1:15  
  no ip address  
  isdn switch-type primary-net5  
  isdn protocol-emulate network  
  isdn incoming-voice voice  
  isdn bind-l3 Cisco Unified CallManager-manager  
  no cdp enable  
!  
interface Serial2/0:15  
  no ip address  
  isdn switch-type primary-qsig  
  isdn incoming-voice voice  
  isdn bind-l3 Cisco Unified CallManager-manager  
  no cdp enable  
!  
interface Serial2/1:15  
  no ip address  
  isdn switch-type primary-qsig  
  isdn protocol-emulate network  
  isdn incoming-voice voice
```



```
isdn T310 120000
isdn bind-l3 Cisco Unified CallManager-manager
no cdp enable
!
ip classless
ip route 0.0.0.0 0.0.0.0 FastEthernet0/0
ip route 0.0.0.0 0.0.0.0 172.20.221.1
!
ip http server
!
dialer-list 1 protocol ip permit
!
!
!
control-plane
!
!
!
voice-port 1/0:15
!
voice-port 1/1:15
!
voice-port 2/0:15
!
voice-port 2/1:15
!
voice-port 3/0/0
!
voice-port 3/0/1
!
Cisco Unified CallManager-manager mgcp
Cisco Unified CallManager-manager music-on-hold
Cisco Unified CallManager-manager config server CM-VINDALOO
Cisco Unified CallManager-manager config
!
mgcp
mgcp call-agent CM-Vindaloo 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp package-capability fxr-package
mgcp package-capability pre-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
!
```



```
dial-peer cor custom
!
!
!
dial-peer voice 1 pots
service mgcpapp
port 2/0:15
!
dial-peer voice 2 pots
service mgcpapp
port 2/1:15
!
dial-peer voice 3 pots
service mgcpapp
port 3/0/0
!
dial-peer voice 4 pots
service mgcpapp
port 3/0/1
!
dial-peer voice 999300 pots
service mgcpapp
port 3/0/0
!
dial-peer voice 999301 pots
service mgcpapp
port 3/0/1
!
dial-peer voice 5 pots
service mgcpapp
!
!
line con 0
line aux 0
line vty 0 4
login
!
!
end
```

**3745B4\_E1# sho diag**

```
c3700 IO-Board EEPROM:
Hardware Revision      : 2.0
Top Assy. Part Number  : 800-14462-01
Board Revision        : B0
Deviation Number      : 0-0
Fab Version           : 03
PCB Serial Number     : JAD07060M7X
RMA Test History      : 00
RMA Number            : 0-0-0-0
RMA History           : 00
Calibration Data      : Minimum: -1 dBmV, Maximum: -1 dBmV
Calibration values    : 0xFFFF 0xFFFF 0xFFFF 0xC28B 0x4A4D 0x5830
                       0x3731 0x354C 0x3038 0x50FF 0xFFFF 0xFFFF
```





```

0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFF15 0xA3C7 0x8B00 0x0000 0x0161
0x13A5 0x6465 0x1F3F 0x6000 0x0000 0x0200
0x0000 0x0100 0x0001 0x0565 0x25B4 0x4065
0x25B4 0x0065 0x25B3 0xC065 0x25B3 0x8000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0300
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0100
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0065
0x25B3 0x4065 0x25B3 0x0000 0x0000 0x0000
0x0001 0x09FF 0xFFFF 0xFF00 0x0000 0x0000
0x0000 0x0015 0xA3C7 0x8B00 0x0000 0x0161
0x13A5 0x6465 0x1F3F 0x6000 0x0000 0x0100
0x0000 0x0100 0x0000 0xC665 0x25B5 0xC065
0x25B5 0x8065 0x25B5 0x4065 0x25B5 0x0000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0300
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0100
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0065
0x25B0 0xC065 0x25B0 0x8000 0x0000 0x0000
0x0001 0x08FF 0xFFFF 0xFF00 0x0000 0x0000
0x0000 0x0015 0xA3C7 0x8B00 0x0000 0x0161
0x7274 0x8065 0x1F3F 0x6000 0x0000 0x0064
0x7832 0xDCAA 0xAAAA 0xAA00 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x6400 0x2D00 0x3700 0x1400 0x1E00
0x0000 0x0200 0x0000 0x0C66 0x0E5D 0xD000
0x0100 0x0060 0x399D 0xD060 0x39A6 0x8460
0x39A4 0x6C00 0x0000 0x0060 0x39A6 0xF400
0x0000 0x0000 0x0000 0x0000 0x0000 0x0064
0x1FC3 0x3065 0x2131 0xB800 0x0000 0x0000
0x0000 0x0000 0x0042 0x4000 0x0000 0x0064
0x7043 0x0C00 0x0000 0x0000 0x0000 0x0000
0x0000 0x0015 0xA3C7

```

Chassis Serial Number : JMX0715L08P

EEPROM format version 4

EEPROM contents (hex):

```

0x00: 04 FF 40 02 F8 41 02 00 C0 46 03 20 00 38 7E 01
0x10: 42 42 30 80 00 00 00 02 03 C1 8B 4A 41 44 30
0x20: 37 30 36 30 4D 37 58 03 00 81 00 00 00 00 04 00
0x30: C8 09 FF FF FF FF FF FF FF FF C2 8B 4A 4D 58
0x40: 30 37 31 35 4C 30 38 50 FF FF FF FF FF FF FF FF
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

```

c3700 Mid-Plane EEPROM:

Hardware Revision : 2.0

Top Assy. Part Number : 800-12289-01

Board Revision : A0

Deviation Number : 0-0

Fab Version : 05

PCB Serial Number : SMQ0710T03N





0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

Slot 0:

C3745 Mother board 2FE(TX)-3W Port adapter, 2 ports

Port adapter is analyzed

Port adapter insertion time unknown

EEPROM contents at hardware discovery:

PCB Serial Number : JAD071106DY

Processor type : 69

Top Assy. Part Number : 800-15934-02

Board Revision : B0

Fab Part Number : 28-4672-04

Deviation Number : 65535-65535

Manufacturing Test Data : FF FF FF FF FF FF FF FF FF

RMA Number : 0-0-0-0

RMA History : 00

RMA Test History : 00

Field Diagnostics Data : FF FF FF FF FF FF FF FF

Hardware Revision : 2.0

Fab Version : 04

Chassis Serial Number : JMX0715L08P

Product (FRU) Number : C3745-2FE

EEPROM format version 4

EEPROM contents (hex):

0x00: 04 FF C1 8B 4A 41 44 30 37 31 31 30 36 44 59 09  
0x10: 69 40 02 F7 C0 46 03 20 00 3E 3E 02 42 42 30 85  
0x20: 1C 12 40 04 80 FF FF FF FF C4 08 FF FF FF FF FF  
0x30: FF FF FF 81 00 00 00 00 04 00 03 00 C5 08 FF FF  
0x40: FF FF FF FF FF FF 41 02 00 02 04 C2 8B 4A 4D 58  
0x50: 30 37 31 35 4C 30 38 50 FF FF FF FF FF FF FF FF  
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

Slot 1:

High Density Voice Port adapter

Port adapter is analyzed

Port adapter insertion time unknown

EEPROM contents at hardware discovery:

Hardware Revision : 1.1

Top Assy. Part Number : 800-03567-01

Board Revision : G0

Deviation Number : 0-0

Fab Version : 02

PCB Serial Number : JAD06380IBZ

RMA Test History : 00

RMA Number : 0-0-0-0

RMA History : 00

Product (FRU) Number : NM-HDV=

EEPROM format version 4

EEPROM contents (hex):

0x00: 04 FF 40 00 CC 41 01 01 C0 46 03 20 00 0D EF 01  
0x10: 42 47 30 80 00 00 00 00 02 02 C1 8B 4A 41 44 30  
0x20: 36 33 38 30 49 42 5A 03 00 81 00 00 00 00 04 00  
0x30: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

HDV SIMMs: Product (FRU) Number: PVDM-12=



SIMM slot 0: PVDM-12 SIMM present.  
SIMM slot 1: PVDM-12 SIMM present.  
SIMM slot 2: PVDM-12 SIMM present.  
SIMM slot 3: PVDM-12 SIMM present.  
SIMM slot 4: PVDM-12 SIMM present.

WIC Slot 0:  
E1 (2 Port) Multi-Flex Trunk WAN Daughter Card  
Hardware revision 1.0 Board revision B0  
Serial number 29416808 Part number 800-04479-03  
FRU Part Number VWIC-2MFT-E1=

Test history 0x0 RMA number 00-00-00  
Connector type PCI  
EEPROM format version 1  
EEPROM contents (hex):  
0x20: 01 23 01 00 01 C0 DD 68 50 11 7F 03 00 00 00 00  
0x30: 58 00 00 00 02 12 24 00 FF FF FF FF FF FF FF FF

HDV firmware: Compiled Fri 19-Nov-04 14:23 by michen  
HDV memory size 524280 heap free 141761

Slot 2:

High Density Voice Port adapter  
Port adapter is analyzed  
Port adapter insertion time unknown  
EEPROM contents at hardware discovery:  
Hardware Revision : 1.1  
Top Assy. Part Number : 800-03567-01  
Board Revision : E0  
Deviation Number : 0-0  
Fab Version : 02  
PCB Serial Number : JAB043409F7  
RMA Test History : 00  
RMA Number : 0-0-0-0  
RMA History : 00  
Product (FRU) Number : NM-HDV=  
EEPROM format version 4  
EEPROM contents (hex):  
0x00: 04 FF 40 00 CC 41 01 01 C0 46 03 20 00 0D EF 01  
0x10: 42 45 30 80 00 00 00 02 02 C1 8B 4A 41 42 30  
0x20: 34 33 34 30 39 46 37 03 00 81 00 00 00 00 04 00  
0x30: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

HDV SIMMs: Product (FRU) Number: PVDM-12=  
SIMM slot 0: PVDM-12 SIMM present.  
SIMM slot 1: PVDM-12 SIMM present.  
SIMM slot 2: PVDM-12 SIMM present.  
SIMM slot 3: PVDM-12 SIMM present.  
SIMM slot 4: PVDM-12 SIMM present.

WIC Slot 0:  
E1 (2 Port) Multi-Flex Trunk WAN Daughter Card  
Hardware revision 1.0 Board revision B0  
Serial number 22101697 Part number 800-04479-02



FRU Part Number VWIC-2MFT-E1=

Test history 0x0 RMA number 00-00-00  
Connector type PCI  
EEPROM format version 1  
EEPROM contents (hex):  
0x20: 01 23 01 00 01 51 3E C1 50 11 7F 02 00 00 00 00  
0x30: 58 00 00 00 00 09 07 00 FF FF FF FF FF FF FF FF

HDV firmware: Compiled Fri 19-Nov-04 14:23 by michen  
HDV memory size 524280 heap free 141761

Slot 3:

4 PORT Voice PM for MARs Port adapter  
Port adapter is analyzed  
Port adapter insertion time unknown  
EEPROM contents at hardware discovery:  
Hardware revision 1.1 Board revision H0  
Serial number 25100457 Part number 800-02491-02  
FRU Part Number: NM-2V=

Test history 0x0 RMA number 00-00-00  
EEPROM format version 1  
EEPROM contents (hex):  
0x00: 01 65 01 01 01 7F 00 A9 50 09 BB 02 00 00 00 00  
0x10: 88 00 00 00 01 03 09 17 FF FF FF FF FF FF FF FF

VIC Slot 0:

FXS Voice daughter card (2 port)  
Hardware revision 1.1 Board revision B0  
Serial number 27635018 Part number 800-02493-04  
FRU Part Number VIC-2FXS=

Test history 0x0 RMA number 00-00-00  
Connector type Wan Module  
EEPROM format version 1  
EEPROM contents (hex):  
0x20: 01 0E 01 01 01 A5 AD 4A 50 09 BD 04 00 00 00 00  
0x30: 58 00 00 00 02 06 22 01 FF FF FF FF FF FF FF FF

3745B4\_E1#



## 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.
CISCO UNIFIED CALLMANAGER	Cisco Unified CallManager
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CMM	Communication Media Module (CMM) is a Cisco Catalyst® 6500 Series and Cisco 7600 Series line card that provides flexible and high-density T1/E1 gateways
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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