

Siemens Hicom 330E Release 3.1 using E1-QSIG to Cisco Unified Communications Manager 5.0

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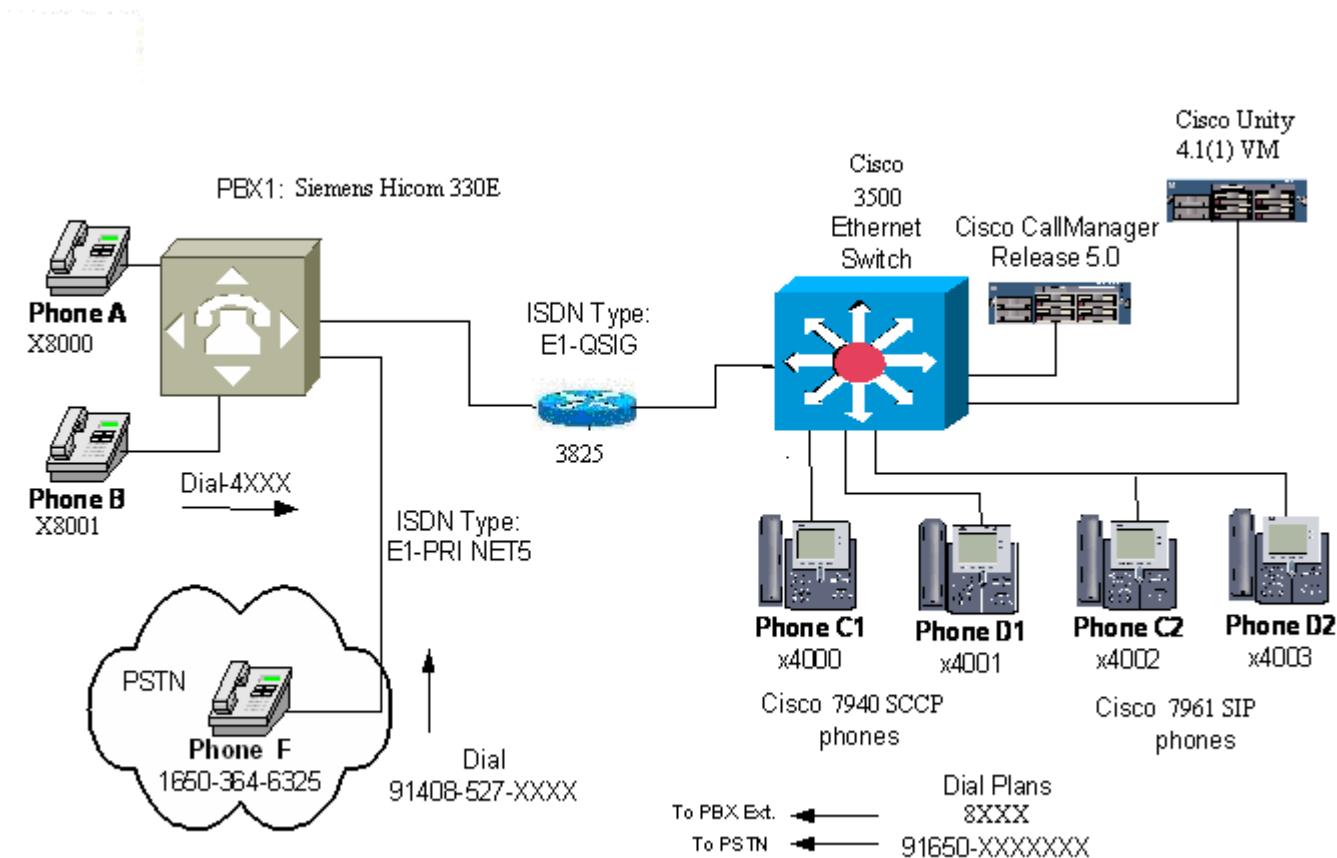
Introduction

- This is an application note for connectivity of Siemens Hicom 330E Release 3.1 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 CallManager Service parameter QSIG variant of ISO and PSS1V2 switch type on the Hicom 330E 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 CallManager QSIG implementation does not depend on the physical interface.



Network Topology

Figure 1. Basic Call Setup



Limitations

B-Channel Mapping

- Siemens Hicom 330E PBX uses sequential channel numbering (1-30) when QSIG protocol “PSS1V2” is selected, therefore the Cisco 3745 Gateway configuration for Channel IE Type field should be set to **Continuous Number**.

Connected Name and Number Restrictions

- Siemens phone displayed dialed number and trunk name when CCM sends Connected Name and Number as restricted.

Additional Network Feature Path Replacement for Call Diversion

- Siemens Hicom 330E PBX does not send Path Replacement proposal for Call Diversion by forward switching.



MWI

- When Cisco Unified CallManager is the Message Center PINX, Siemens Hicom 330E PBX requires the CLI (Calling Line Identification) for Voicemail Message Center in the incoming MWI setup message in order to correctly signal MWI. Current Cisco Unified CallManager Q.SIG MWI implementation however does not send the CLI in the MWI setup message because it's optional in the Q.SIG standard. Since Siemens Hicom 330E Q.SIG MWI implementation requires the CLI as mandatory information, Cisco Unified CallManager will not interoperate with the Hicom 330E PBX.

Overlap Sending

- When CCM 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 CallManager 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 switch
- 3745 Gateway
- Cisco Unified CallManager Server

Siemens Hicom 330E PBX Hardware:

- DIU-N2

The following hardware is required:

- Cisco hardware including interface card
- PBX hardware including interface card
- Special cards, blades, or cables required

Software Requirements

- Cisco Unified CallManager Release 5.0
- Siemens Hicom 330E Release 3.1
- 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)

Features Not Supported

- MWI- Message Waiting Indication (lamp ON, lamp OFF)¹

Configuration

Configuring the Siemens Hicom 330E

Add the new access code to Dialing Plans using WABE + LDPLN.

Add the new trunk board using BCSU.

Configure Class of Trunk using COT.

Configure Class of Parameter for device handler using COP.

Configure Class of Service using COSSU.

¹ MWI was tested with CallManager 5.0 as the Message Center PINX (also see Limitations MWI).



Add the new trunk group access code using BUEND.

Configure trunk using TDCSU.

Configure Reference Clock using REFTA.

Configure trunk Least Cost Routing using LDAT + RICHT.

Configure LCR Out-dial Rules using LODR.

Enable In-Band DTMF signaling for the Digital Stations using SBCSU.

Configure Digital Station for MWI application.

Configure Message Center's Service Access Number for MWI application.

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

Configuration Menus and Commands for Hicom 330E

DPLN

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

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE		CALL PROGRESS STATE 1 11111 11112 22 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE	
001 - 010	1000	* *..... *.... .	NETRTE STN		
		. ***** ****** **... .		DESTNO 25 DNNO 0- 0- 25	
11		. .... . . . . . . . . *	MBKY		
111		. ***** ****** **... .	TIE		
222		. ***** ****** **... .	OWNNODE		
3000 - 3010		. ***** ****** **... .	STN	DESTNO 33 DNNO 0- 0-333	
3011 - 3020		. ***** ****** **... .	STN	DESTNO 43 DNNO 0- 0-444	
3021 - 3030		. ***** ****** **... .	STN	DESTNO 53 DNNO 0- 0-445	
DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE		CALL PROGRESS STATE 1 11111 11112 22 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE	
3031 - 3040		. ***** ****** **... .	STN	DESTNO 63 DNNO 0- 0-446	
3041 - 3050		. ***** ****** **... .	STN	DESTNO 73 DNNO 0- 0-447	



3051	- 3060	. .***** * **** * *...	STN	DESTNO 83 DNNO 0- 0-448
32		. .***** * **** * *...	TIE	
34	- 36	. .***** * **** * *...	TIE	
39		. .***** * **** * *...	TIE	
4000	- 4050	. .***** * **** * *...	STN	DESTNO 111 DNNO 0- 0-111

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE			DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	1	11111	11112 22		
0	12345	67890	12345 67890 12		
4051	- 4599	. .***** * **** * *...	STN	R DESTNO 0 DNNO 0- 0-222*	
4700	- 4999	. .***** * **** * *...	STN	R DESTNO 0 DNNO 0- 0-222*	
5000	- 5009	. .***** * **** * *...	STN	DESTNO 55 DNNO 0- 0- 55	
5010		. .***** * . *** * *...	ATNDIND	R	
5011	- 5020	. .***** * **** * *...	STN	DESTNO 55 DNNO 0- 0- 55	
5021	- 5050	. .***** * **** * *...	STN	DESTNO 111 DNNO 0- 0-111	
5051		. .***** * . *** * *...	ATNDIND		

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE			DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	1	11111	11112 22		
0	12345	67890	12345 67890 12		
5500	- 5501	. .***** * **** * *...	STN	DESTNO 56 DNNO 0- 0-560	
555		. .***** * **** * *...	TIE		
560		. .***** * **** * *...	TIE		
6000		. .***** * **** * *...	STN	DESTNO 33 DNNO 0- 0-333	
7000	- 7002	. .***** * **** * *...	STN	DESTNO 56 DNNO 0- 0-560	
79		. .***** * **** * *...	TIE		
8000	- 8019	. .***** * **** * *...	STN	DESTNO 0 DNNO 0- 0-222*	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE			DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	1	11111	11112 22		
0	12345	67890	12345 67890 12		
8020		. .***** * **** * *...	STN	R DESTNO 0 DNNO 0- 0-222*	
854		. .***** * **** * *...	NETW	R DESTNO 2	



9	. . . . . * * * . . . . .	TIE	DNNO	0-	0-	0
*66	. . . . * . . . . .	SIGNON				
*91	. . . . * . . . * . . . .	MBOFF				
#66	. . . . * . . . . .	SIGNOFF				
#91	. . . . * . . . * . . . .	MBON				
##22	. . . . . . . . . . *	DAKY				
##24	. . . . . . . . . . *	DSSKY				
##25	. . . . . . . . . . *	FWDKY				
##26	. . . . . . . . . . *	HTKY				
##27	. . . . . . . . . . *	KNOVRKY				
##28	. . . . . . . . . . *	MBKY				

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS				
CODE	CALL PROGRESS STATE	1 11111 11112 22	DIGIT	ANALYSIS	RESERVED/CONVERT	DNI/ADD-INFO
0 12345 67890 12345 67890 12			RESULT		*=OWN NODE	

##29	. . . . . . . . . . *	MSGRKY				
##35	. . . . . . . . . . *	TIMEKY				
##36	. . . . . . . . . . *	VCKY				
##37	. . . . . . . . . . *	VCRKY				
##38	. . . . . . . . . . *	CCKY				
##39	. . . . . . . . . . *	CONFKY				
##41	. . . . . . . . . . *	NAMEKY				
##42	. . . . . . . . . . *	PARKKY				
##43	. . . . . . . . . . *	REMKY				
##44	. . . . . . . . . . *	STKY				
##45	. . . . . . . . . . *	CBKKY				
##46	. . . . . . . . . . *	CONSKY				
##47	. . . . . . . . . . *	DNDKY				
##48	. . . . . . . . . . *	EXHOLDKY				
##49	. . . . . . . . . . *	HOLDKY				
##50	. . . . . . . . . . *	IUSEKY				
##51	. . . . . . . . . . *	LNRKY				

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS				
CODE	CALL PROGRESS STATE	1 11111 11112 22	DIGIT	ANALYSIS	RESERVED/CONVERT	DNI/ADD-INFO
0 12345 67890 12345 67890 12			RESULT		*=OWN NODE	
##52	. . . . . . . . . . *	PRIVKY				
##53	. . . . . . . . . . *	RLSKY				
##54	. . . . . . . . . . *	SNRKY				
##55	. . . . . . . . . . *	TRNSKY				
##56	. . . . . . . . . . *	RCTOFFKY				
##57	. . . . . . . . . . *	TOGGLEKY				

AMO-WABE -111 DIALLING PLANS, FEATURE ACCESS CODES
 DISPLAY COMPLETED;
 DIS-WABE:GEN;
 H500: AMO WABE STARTED

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS				
CODE	CALL PROGRESS STATE	1 11111 11112 22	DIGIT	ANALYSIS	RESERVED/CONVERT	DNI/ADD-INFO
0 12345 67890 12345 67890 12			RESULT		*=OWN NODE	
0	. . . . . * * . . . . .	CO				
001 - 009	* *	NETRTE				
111	. . . . . * * . . . . .	TIE				
12	. . . . . * * . . . . .	TIE				
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	11111	11112 22		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	11111	11112 22		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			DIGIT ANALYSIS	RESERVED/CONVERT	
	1	11111	11112 22		DNI/ADD-INFO	
	0	12345	67890 12345 67890 12	RESULT	*=OWN NODE	
4568 - 4999	.	****	****	**...	STN	DESTNO 222



5000	- 5040	. .***** * * * * *	STN	DNNO 0- 0-222 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			DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	1	11111	11112 22		
0	12345	67890	12345	67890	12

7000	- 7002	. .***** * * * * *	STN	DESTNO 56 DNNO 0- 0-560
8000	- 8050	. .***** * * * * *	STN	DESTNO 222 DNNO 0- 0-222
8060		. .***** * * * * *	TIE	
8070		. .***** * * * * *	TIE	
83		. .***** * * * * *	SPDC1	
84		. .***** * * * * *	SPDC2	
88		. . . . . * . . . . . *	SCONSI	R
89		. . . . . * . . . . . *	SCONSOC	R
9		. .***** * * * * *	TIE	
*13		. . . . . * . . . . . *	AHTVCE	
*15		. . . . . * . . . . . *	SPLIT	
*16		. . . . . * . . . . . *	AREM	
*17		. . . . . * . . . . . *	TRACE	

DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS		
----------------------	--	--------------------------	--	--

CODE	CALL PROGRESS STATE			DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	1	11111	11112 22		
0	12345	67890	12345	67890	12

*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 : 38	LDP : 111-X
	SPC : 22



	DPLN	LRTE	LAUTH		DPLN	LRTE	LAUTH
0	111	1	8		111	1	
1	111	1	9		111	1	
2	111	1	10		111	1	
3	111	1	11		111	1	
4	111	1	12		111	1	
5	111	1	13		111	1	
6	111	1	14		111	1	
7	111	1	15		111	1	

AMO-LDPLN-111 ADMINISTRATION LCR DIALPLAN
DISPLAY COMPLETED;



Access code for Overlap Sending Dial Plan, DPLN

```
<DISPLAY-LDPLN:TYPE=LDP,LDPNO=36-X;
```

```
DISPLAY-LDPLN:TYPE=LDP,LDPNO=12;
```

```
H500: AMO LDPLN STARTED
```

LDPNO :	33	LDP :	36-X	SPC :	22		
		DPLN	LRTE	LAUTH	DPLN	LRTE	LAUTH
0	36	1		8			
1				9			
2				10			
3				11			
4				12			
5				13			
6				14			
7				15			

```
AMO-LDPLN-111      ADMINISTRATION LCR DIALPLAN
```

```
DISPLAY COMPLETED;
```

PSTN Dial Plan, DPLN

```
<DISPLAY-LDPLN:TYPE=LDP,LDPNO=34;
```

```
DISPLAY-LDPLN:TYPE=LDP,LDPNO=5;
```

```
H500: AMO LDPLN STARTED
```

LDPNO :	34	LDP :	9-1650-XXXXXXX	SPC :	22		
		DPLN	LRTE	LAUTH	DPLN	LRTE	LAUTH
0	916	1		8			
1				9			
2				10			
3				11			
4				12			
5				13			
6				14			
7				15			

```
AMO-LDPLN-111      ADMINISTRATION LCR DIALPLAN
```

```
DISPLAY COMPLETED;
```



BCSU

PRI Board

```
<DISPLAY-BCSU:TYPE=TBL,LTG=1,LTU=3,SLOT=73;
DISPLAY-BCSU:TYPE=TBL,LTG=1,LTU=3,SLOT=25;
H500: AMO BCSU STARTED
```

ADDRESS : LTG 1 LTU 3 SOURCE GROUP 1										
PEN	MODULE	ASSIGNED	MODULE	FCT	HWY	INSERTED	STATE	HW-INFO	MODULE	STATUS
				ID	BDL					
73	Q2196-X	DIU-N2	1 A	|	Q2196-X	| 1 | -04 - |	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	MODULE	ASSIGNED	MODULE	FCT	HWY	INSERTED	STATE	HW-INFO	MODULE	STATUS
				ID	BDL					
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:4;
DIS-COT:4;
H500: AMO COT STARTED
```

```
COT: 4 INFO: 4:Q931 EXTERNAL
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
SEND NO NODE NUMBER TO PARTNER	LWNC
CONNECTION TO ROUTE OPTIMIZATION NODE	ROPT
INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR	NLCR
TSC-SIGNALING FOR NETWORKWIDE FEATURES (MANDATORY)	TSCS
INCOMING CDR BY ZONE OR FROM LINE	ICZL
INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR (DATA)	NLRD
INTERWORKING CALLBACK - NO ANSWER AND MAILBOX CALLBACK	IWCB
AOC PER CALL (AUTOMATICAL OR ON REQUEST), MAND. CORNET-NQ	AOCC
LINE WITH IMPLICIT NUMBERS	LINO
CONTROLLED TRUNK AND LINE SELECTION	CTLS



NO TONE

NTON

AMO-COT -111 CLASS OF TRUNK FOR CALL PROCESSING
DISPLAY COMPLETED;
<dis-cot:5;
DIS-COT:5;
H500: AMO COT STARTED

COT: 5 INFO: 5:ECMA1 V2.0
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 COT4 and 5
For Path Replacement need to add ROPT to COT 4 and 5 on the Hicom 330E.**

<CHANGE-COT:COTNO=4,COTTYPE=COTADD,PAR=FNAN&FWDN&ROPT;
CHANGE-COT:COTNO=4,COTTYPE=COTDEL,PAR=FNAN&FWDN&ROPT;
H500: AMO COT STARTED

H07: CHANGED COT STILL LINKED WITH FOLLOWING TRUNKS:

COT TRUNK BCGR DEVICE

4	1- 1- 79-	0 1	S2CONN
	1- 1- 79-	1 1	S2CONN
	1- 2- 25-	0 1	S2CONN
	1- 2- 25-	1 1	S2CONN
	1- 2- 31-	0 1	S2CONN
	1- 2- 31-	1 1	S2CONN
	1- 1- 85-	2	S0CONN
	1- 1- 85-	3	S0CONN
	1- 1- 85-	6	S0CONN
	1- 1- 85-	7	S0CONN
	1- 1- 73-	0 1	S2CONN
	1- 1- 73-	1 1	S2CONN

H06: COT 4 CHANGED

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

<CHANGE-COT:COTNO=5,COTTYPE=COTADD,PAR=FNAN&FWDN&ROPT;
CHANGE-COT:COTNO=5,COTTYPE=COTDEL,PAR=FNAN&FWDN&ROPT;

H500: AMO COT STARTED

H07: CHANGED COT STILL LINKED WITH FOLLOWING TRUNKS:

COT TRUNK BCGR DEVICE

5	1- 1- 79-	0 1	S2CONN
	1- 2- 25-	0 1	S2CONN



```
1- 2- 25- 1 1      S2CONN  
1- 2- 31- 0 1      S2CONN  
1- 2- 31- 1 1      S2CONN  
1- 1-103- 0 1      CDGCONN  
1- 1-103- 1 1      CDGCONN  
1- 1- 73- 0 1      S2CONN
```

H06: COT 5 CHANGED

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

```
<dis-cot:4;  
DIS-COT:4;  
H500: AMO COT STARTED
```

COT: 4 INFO: 4:Q931 EXTERNAL	
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
SEND NO NODE NUMBER TO PARTNER	LWNC
CONNECTION TO ROUTE OPTIMIZATION NODE	ROPT
INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR	NLCR
TSC-SIGNALING FOR NETWORKWIDE FEATURES (MANDATORY)	TSCS
INCOMING CDR BY ZONE OR FROM LINE	ICZL
INCOMING CIRCUIT FROM SYSTEM WITHOUT LCR (DATA)	NLRD
INTERWORKING CALLBACK - NO ANSWER AND MAILBOX CALLBACK	IWCB
AOC PER CALL (AUTOMATICAL OR ON REQUEST), MAND. CORNET-NQ	AOCC
LINE WITH IMPLICIT NUMBERS	LINO
CONTROLLED TRUNK AND LINE SELECTION	CTLS
NO TONE	NTON

```
AMO-COT -111      CLASS OF TRUNK FOR CALL PROCESSING
```

```
DISPLAY COMPLETED;
```

```
<dis-cot:5;  
DIS-COT:5;  
H500: AMO COT STARTED
```

COT: 5 INFO: 5:ECMA1 V2.0	
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 (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;
 <

Class of Parameter for Device Handler, COP

```
<DISPLAY-COP:COPNO=4;
DISPLAY-COP:COPNO=4;
H500: AMO COP STARTED

COP: 4 INFO: 4:Q931
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
```

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 | TTX | VTX | DTE |
+-----+
| 32 | >32:TRUNKS
      TA     NOCO    NOCO    NOCO    TA
      TNOTCR NOTIE  NOTIE  NOTIE  TNOTCR
                           BASIC
                           MSN
                           CDRINT
                           MULTRA
+-----+
```

AMO-COSSU-111 CLASSES OF SERVICE, SWITCHING UNIT
 DISPLAY COMPLETED;

```
<DISPLAY-COSSU:TYPE=LCOSV,LCOSV=32;
DISPLAY-COSSU:TYPE=LCOSV,LCOSV=32;
H500: AMO COSSU STARTED
+-----+
| LCOS |                                LAUTH |          LCR |
| V   |          1       2       3       4       5       6 | OPTS= |
|     | 12345678901234567890123456789012345678901234 | LCRET |
|     | >SERVICE INFORMATION |          LCR |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 32 | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | . |
|     | >32:TRUNKS |
```



AMO-COSSU-111 CLASSES OF SERVICE, SWITCHING UNIT
DISPLAY COMPLETED;

Trunk Group Access Code, BUEND

<DISPLAY-BUEND:TGRP=37,FORMAT=L;
DISPLAY-BUEND:TGRP=37,FORMAT=L;
H500: AMO BUEND STARTED

FORMAT = L						
TGRP NUMBER :	37	TGRP NAME :	PRI TEST	MAXIMUM NO. :	30	
CHARCON		: NEUTRAL				
SUBGROUP NO.:	10	DEVICE TYPE :	S2CONN	TRACENO :	0	
RESERVED :	N	SEARCH MODE :	CIRCULAR	ACD THRESHOLD :	*	
NUMBER OF ASSOCIATED ROUTES :			5	PRIORITY :	2	
THE FOLLOWING TRUNKS (LTG-LTU-SLOT-CCT) HAVE BEEN ALLOCATED:						
1- 1- 73-0	B-CHL: 1	1- 1- 73-0	B-CHL: 2	1- 1- 73-0	B-CHL: 3	
1- 1- 73-0	B-CHL: 4	1- 1- 73-0	B-CHL: 5	1- 1- 73-0	B-CHL: 6	
1- 1- 73-0	B-CHL: 7	1- 1- 73-0	B-CHL: 8	1- 1- 73-0	B-CHL: 9	
1- 1- 73-0	B-CHL: 10	1- 1- 73-0	B-CHL: 11	1- 1- 73-0	B-CHL: 12	
1- 1- 73-0	B-CHL: 13	1- 1- 73-0	B-CHL: 14	1- 1- 73-0	B-CHL: 15	
1- 1- 73-0	B-CHL: 16	1- 1- 73-0	B-CHL: 17	1- 1- 73-0	B-CHL: 18	
1- 1- 73-0	B-CHL: 19	1- 1- 73-0	B-CHL: 20	1- 1- 73-0	B-CHL: 21	
1- 1- 73-0	B-CHL: 22	1- 1- 73-0	B-CHL: 23	1- 1- 73-0	B-CHL: 24	
1- 1- 73-0	B-CHL: 25	1- 1- 73-0	B-CHL: 26	1- 1- 73-0	B-CHL: 27	
1- 1- 73-0	B-CHL: 28	1- 1- 73-0	B-CHL: 29	1- 1- 73-0	B-CHL: 30	

AMO-BUEND-111 TRUNK GROUP
DISPLAY COMPLETED;

<DISPLAY-BUEND:TGRP=38,FORMAT=L;
DISPLAY-BUEND:TGRP=38,FORMAT=L;
H500: AMO BUEND STARTED

FORMAT = L						
TGRP NUMBER :	38	TGRP NAME :	ETSI CCM	MAXIMUM NO. :	30	
CHARCON		: NEUTRAL				
SUBGROUP NO.:	9	DEVICE TYPE :	S2CONN	TRACENO :	0	
RESERVED :	N	SEARCH MODE :	CIRCULAR	ACD THRESHOLD :	*	
NUMBER OF ASSOCIATED ROUTES :			5	PRIORITY :	2	
THE FOLLOWING TRUNKS (LTG-LTU-SLOT-CCT) HAVE BEEN ALLOCATED:						
1- 1- 73-1	B-CHL: 1	1- 1- 73-1	B-CHL: 2	1- 1- 73-1	B-CHL: 3	
1- 1- 73-1	B-CHL: 4	1- 1- 73-1	B-CHL: 5	1- 1- 73-1	B-CHL: 6	
1- 1- 73-1	B-CHL: 7	1- 1- 73-1	B-CHL: 8	1- 1- 73-1	B-CHL: 9	
1- 1- 73-1	B-CHL: 10	1- 1- 73-1	B-CHL: 11	1- 1- 73-1	B-CHL: 12	
1- 1- 73-1	B-CHL: 13	1- 1- 73-1	B-CHL: 14	1- 1- 73-1	B-CHL: 15	
1- 1- 73-1	B-CHL: 16	1- 1- 73-1	B-CHL: 17	1- 1- 73-1	B-CHL: 18	
1- 1- 73-1	B-CHL: 19	1- 1- 73-1	B-CHL: 20	1- 1- 73-1	B-CHL: 21	
1- 1- 73-1	B-CHL: 22	1- 1- 73-1	B-CHL: 23	1- 1- 73-1	B-CHL: 24	
1- 1- 73-1	B-CHL: 25	1- 1- 73-1	B-CHL: 26	1- 1- 73-1	B-CHL: 27	
1- 1- 73-1	B-CHL: 28	1- 1- 73-1	B-CHL: 29	1- 1- 73-1	B-CHL: 30	

AMO-BUEND-111 TRUNK GROUP
DISPLAY COMPLETED;



Trunk Configuration, TDCSU

For Master-side Configuration

```
<DISPLAY-TDCSU: PEN1=1-1-73-0;  
DISPLAY-TDCSU: PEN1=1-1-73-0;  
H500: AMO TDCSU STARTED
```

DIGITAL TRUNK (FORMAT=L)			
DEV = S2CONN	PEN = 1-01-073-0		
COTNO = 5	COPNO = 4	DPLN = 0	
ITR = 0	COS = 32	LCOSV = 32	
LCOSD = 32	CCT =	DESTNO = 55	
PROTVAR = PSS1V2	SEGMENT = 1	TCHARG = N	
SUPPRESS = 0	DGTPR =	CHIMAP = N	
ISDNCC =	ISDNAC =	ISDNLC =	
ISDNIP =	ISDNNP =		
PNPL2C =	PNPL1C =	PNPLC =	
PNPL2P =	PNPL1P =	PNPAC =	
TRACOUNT = 31	SATCOUNT = MANY	NNO = 55	
ALARMNO = 0	FIDX = 1	CARRIER = 1	
ZONE = EMPTY	COTX = 4	FWDX = 10	
DOMTYPE =	DOMAINNO =	TPROFNO =	
INIGHT =			
CCHDL =	UUSCCX = 16	UUSCCY = 8	
TGRP = 37	SRCHMODE = CIR	BCNEG = N	
BCGR = 1	INS = Y	LWPAR = 2	
LWPP = 0	LWLTT = 0	LWPS = 0	
LWR1 = 0	LWR2 = 0		
BCHAN 1 && 30			

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

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

```
<DISPLAY-LWPAR:FORMAT=L,BLNO=2,TYPE=DIUS2;  
DISPLAY-LWPAR:FORMAT=L,BLNO=1,TYPE=DIUS2;  
H500: AMO LWPAR STARTED
```

LOADWARE PARAMETERS CIRCUIT TYPE: DIUS2 SOURCE:DB BLOCK: 2			
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 = 2:COPPER-MASTER CLOCK.(CORNET)			

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



For Slave-side Configuration

<DISPLAY-TDCSU: PEN1=1-1-73-1;

DISPLAY-TDCSU: PEN1=1-1-73-1;

H500: AMO TDCSU STARTED

----- DIGITAL TRUNK (FORMAT=L) -----			
DEV = S2CONN		PEN = 1-01-073-1	
COTNO	= 4	COPNO	= 4
ITR	= 0	COS	= 32
LCOSD	= 32	CCT	= HIPATH S2
PROTVAR	= PSS1V2	SEGMENT	= 1
SUPPRESS	= 0	DGTPR	=
ISDNCC	=	ISDNAC	=
ISDNIP	=	ISDNNP	=
PNPL2C	=	PNPL1C	=
PNPL2P	=	PNPL1P	=
TRACOUNT	= 31	SATCOUNT	= MANY
ALARMNO	= 0	FIDX	= 1
ZONE	= EMPTY	COTX	= 4
DOMTYPE	=	DOMAINNO	=
INIGHT	=		
CCHDL	=	UUSCCX	= 16
		UUSCCY	= 8
TGRP	= 38	SRCHMODE	= CIR
BCGR	= 1	INS	= Y
LWPP	= 0	LWLT	= 0
LWR1	= 0	LWR2	= 0
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: 3	
LNTYPE	= COPPER	VERSION	= S2
MASTER	= N	DCHAN1	= 16
PATTERN	= D5H	QUAL1	= 10 SEC.
SMD	= N	PERMACT	= Y
CDG	= N	FIXEDTEI	= 0
TEIVERIF	= N	CRC4REP	= N
DEV	= INDEP		
INFO	= 3:COPPER-DERIVE CLOCK(CORNET)		

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



PSTN Trunk Configuration, TDCSU

```
<DISPLAY-TDCSU: PEN1=1-1-79-1;
```

```
DISPLAY-TDCSU: PEN1=1-1-79-1;
```

```
H500: AMO TDCSU STARTED
```

DIGITAL TRUNK (FORMAT=L)			
DEV = S2CONN		PEN = 1-01-079-1	
COTNO = 4	COPNO = 4	DPLN = 0	
ITR = 0	COS = 32	LCOSV = 32	
LCOSD = 32	CCT =	DESTNO = 55	
PROTVAR = ETSI	SEGMENT = 1	TCHARG = N	
SUPPRESS = 0	DGTPR =	CHIMAP = N	
ISDNCC =	ISDNAC =	ISDNLC =	
ISDNIP =	ISDNNP =		
PNPL2C =	PNPL1C =	PNPLC =	
PNPL2P =	PNPL1P =	PNPAC =	
TRACOUNT = 31	SATCOUNT = MANY	NNO = 55	
ALARMNO = 0	FIDX = 1	CARRIER = 1	
ZONE = EMPTY	COTX = 4	FWDX = 10	
DOMTYPE =	DOMAINNO =	TPROFNO =	
INIGHT =			
CCHDL =	UUSCCX = 16	UUSCCY = 8	
TGRP = 71	SRCHMODE = CIR	BCNEG = N	
BCGR = 1	INS = N	LWPAR = 2	
LWPP = 0	LWLT = 0	LWPS = 0	
LWR1 = 0	LWR2 = 0		
BCHAN 1 && 30			

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

```
AMO-TDCSU-111      DIGITAL TRUNKS
```

```
DISPLAY COMPLETED;
```

Trunk Configuration to HIPATH node, TDCSU

```
<DISPLAY-TDCSU: PEN1=1-1-73-0;
```

```
DISPLAY-TDCSU: PEN1=1-1-73-0;
```

```
H500: AMO TDCSU STARTED
```

DIGITAL TRUNK (FORMAT=L)			
DEV = S2CONN		PEN = 1-01-073-0	
COTNO = 5	COPNO = 4	DPLN = 0	
ITR = 0	COS = 32	LCOSV = 32	
LCOSD = 32	CCT =	DESTNO = 55	
PROTVAR = PSS1V2	SEGMENT = 1	TCHARG = N	
SUPPRESS = 0	DGTPR =	CHIMAP = N	
ISDNCC =	ISDNAC =	ISDNLC =	
ISDNIP =	ISDNNP =		
PNPL2C =	PNPL1C =	PNPLC =	
PNPL2P =	PNPL1P =	PNPAC =	
TRACOUNT = 31	SATCOUNT = MANY	NNO = 55	
ALARMNO = 0	FIDX = 1	CARRIER = 1	
ZONE = EMPTY	COTX = 4	FWDX = 10	
DOMTYPE =	DOMAINNO =	TPROFNO =	



```

INIGHT    =
CCHDL    =           UUSCCX    = 16           UUSCCY    = 8
-----
TGRP      = 37          SRCHMODE = CIR          BCNEG     = N
BCGR      = 1            INS       = Y          LWPAR     = 3
LWPP      = 0            LWLT      = 0          LWPS      = 0
LWR1      = 0            LWR2      = 0
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=1-1-73-0;
DISPLAY-REFTA:TYPE=CIRCUIT,PEN=1-1-73-0;
H500: AMO REFTA STARTED
```

REFERENCE CLOCK CIRCUITS							
PEN	MODULE	DEVICE	PRI	ERROR	BLOCK	SUPP.	READY
1- 1- 73- 0	DIU-N2	S2CONN	0	0	N		N

AMO-REFTA-111 REFERENCE CLOCK TABLE
 DISPLAY COMPLETED;

For Slave-side Configuration

```
<DISPLAY-REFTA:TYPE=CIRCUIT,PEN=1-1-73-1;
DISPLAY-REFTA:TYPE=CIRCUIT,PEN=1-1-73-1;
H500: AMO REFTA STARTED
```

REFERENCE CLOCK CIRCUITS							
PEN	MODULE	DEVICE	PRI	ERROR	BLOCK	SUPP.	READY
1- 1- 73- 1	DIU-N2	S2CONN	11	0	N		N

AMO-REFTA-111 REFERENCE CLOCK TABLE
 DISPLAY COMPLETED;



Trunk Least Cost Routing Configuration

LDAT

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=111;
DISPLAY-LDAT:TYPE=LCR,LROUTE=111;
H500: AMO LDAT STARTED
```

Route Information for LROUTE 111									
LROUTE		LDPLN		NAME		SERVICE			
111				ROPT CCM		ALL			
TYPE		DNNO OF ROUTE		111					
SERVICE INFO									
LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE ABCDEFGH	CARRIER	BAND		
1	1	38	4	1	*****	1	EMPTY	1	NONE
DNNO =		111							

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

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=555;
DISPLAY-LDAT:TYPE=LCR,LROUTE=555;
H500: AMO LDAT STARTED
```

Route Information for LROUTE 555									
LROUTE		LDPLN		NAME		SERVICE			
555				ROPT HIPATH		ALL			
TYPE		DNNO OF ROUTE		55					
SERVICE INFO									
LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE ABCDEFGH	CARRIER	BAND		
1	1	37	4	1	*****	1	EMPTY	1	NONE
DNNO =		55							

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

```
<
```

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=37;
DISPLAY-LDAT:TYPE=LCR,LROUTE=37;
H500: AMO LDAT STARTED
```

Route Information for LROUTE 37									
LROUTE		LDPLN		NAME		SERVICE			
37				PRI TEST		ALL			
TYPE		DNNO OF ROUTE		222					
SERVICE INFO									
LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE ABCDEFGH	CARRIER	BAND		
1	1	37	1	1	*****	1	EMPTY	1	NONE
DNNO =		1							

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



```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=38;
DISPLAY-LDAT:TYPE=LCR,LROUTE=38;
H500: AMO LDAT STARTED
```

LROUTE = 38 LDPLN NAME = PRI							SERVICE = ALL
TYPE = LCR							DNNO OF ROUTE = 111
SERVICE INFO =							
LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE ABCDEFGH	CARRIER	BAND
1	1	38	1	1	*****	ZONE 1 EMPTY	1 NONE
DNNO = 1 -1 -999							

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

```
<DISPLAY-LDAT:TYPE=LCR,LROUTE=916;
DISPLAY-LDAT:TYPE=LCR,LROUTE=916;
H500: AMO LDAT STARTED
```

LROUTE = 916 LDPLN NAME = 91650 PSTN							SERVICE = ALL
TYPE = LCR							DNNO OF ROUTE = 59
SERVICE INFO =							
LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE ABCDEFGH	CARRIER	BAND
1	1	71	6	1	*****	ZONE 1 EMPTY	1 NONE
DNNO = 99							

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



RICHT

```
<DISPLAY-RICHT:MODE=LRTE ,LRTE=111;
DISPLAY-RICHT:MODE=LRTE ,LRTE=111;
H500: AMO RICHT STARTED
+-----+
| LRTE = 111      NAME = ROPT CCM          (NEUTRAL)   SRVC = ALL
| DNNO =        111  DESTNO = 111
| ROUTOPT = YES    REROUT = YES    PLB = NO      FWDBL = NO
| MFV: CNV=FIX     DSP=WITHOUT TEXT=           PULS=PP300
| ROUTENO =      15  BUGS = LIN    ROUTATT = NO    MAINGRP = 15
| INFO =
+-----+
| TGRP = 38 LDAT ETSI CCM          (NEUTRAL)   SUBGROUP = 9 |
+-----+

AMO-RICHT-111      TRUNK ROUTING
DISPLAY COMPLETED;

<DISPLAY-RICHT:MODE=LRTE ,LRTE=555;
DISPLAY-RICHT:MODE=LRTE ,LRTE=555;
H500: AMO RICHT STARTED
+-----+
| LRTE = 555      NAME = ROPT HIPATH        (NEUTRAL)   SRVC = ALL
| DNNO =        55  DESTNO = 55
| ROUTOPT = YES    REROUT = YES    PLB = NO      FWDBL = NO
| MFV: CNV=FIX     DSP=WITHOUT TEXT=           PULS=PP300
| ROUTENO =      14  BUGS = LIN    ROUTATT = NO    MAINGRP = 14
| INFO =
+-----+
| TGRP = 37 LDAT PRI TEST          (NEUTRAL)   SUBGROUP = 10 |
+-----+

AMO-RICHT-111      TRUNK ROUTING
DISPLAY COMPLETED;

<DISPLAY-RICHT:MODE=LRTE ,LRTE=37;
DISPLAY-RICHT:MODE=LRTE ,LRTE=37;
H500: AMO RICHT STARTED
+-----+
| LRTE = 37       NAME = PRI TEST          (NEUTRAL)   SRVC = ALL
| DNNO =        222
| ROUTOPT = YES    REROUT = YES    PLB = NO      FWDBL = NO
| MFV: CNV=FIX     DSP=WITHOUT TEXT=           PULS=PP300
| ROUTENO =      11  BUGS = LIN    ROUTATT = NO    MAINGRP = 11
| INFO =
+-----+
| TGRP = 37 LDAT PRI TEST          (NEUTRAL)   SUBGROUP = 10 |
+-----+

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



```
<DISPLAY-RICHT:MODE=LRTE , LRTE=38;
DISPLAY-RICHT:MODE=LRTE , LRTE=38;
H500: AMO RICHT STARTED
+-----+
| LRTE = 38      NAME = PRI          (NEUTRAL)  SRVC = ALL
| DNNO =        111
| ROUTOPT = YES   REROUT = YES    PLB = NO      FWDBL = NO
| MFV: CNV=FIX    DSP=WITHOUT TEXT=           PULS=PP300
| ROUTENO =      8 BUGS = LIN   ROUTATT = NO    MAINGRP = 8
| INFO =
+-----+
| TGRP = 38 LDAT ETSI CCM          (NEUTRAL)  SUBGROUP = 9
+-----+
```

AMO-RICHT-111 TRUNK ROUTING
DISPLAY COMPLETED;

PSTN RICHT

```
<DISPLAY-RICHT:MODE=LRTE , LRTE=916;
DISPLAY-RICHT:MODE=LRTE , LRTE=916;
H500: AMO RICHT STARTED
+-----+
| LRTE = 916     NAME = 91650 PSTN      (NEUTRAL)  SRVC = ALL
| DNNO =        59  DESTNO = 59
| ROUTOPT = YES   REROUT = YES    PLB = NO      FWDBL = NO
| MFV: CNV=FIX    DSP=WITHOUT TEXT=           PULS=PP300
| ROUTENO =      20 BUGS = LIN   ROUTATT = NO    MAINGRP = 20
| INFO =
+-----+
| TGRP = 71 LDAT CLOSED NUMBER E1      (NEUTRAL)  SUBGROUP = 19
+-----+
```

AMO-RICHT-111 TRUNK ROUTING
DISPLAY COMPLETED;

<

LCR Out-dial Rules, LODR

```
<DISPLAY-LODR:ODR=4;
DISPLAY-LODR:ODR=4;
H500: AMO LODR STARTED
+-----+
| ODR      POSITION  CMD      PARAMETER
+-----+
| 4       | 1       ECHO      1
|         | 2       ECHO      2
|         | 3       END
+-----+
```

H03: THE NEXT FREE ODR IS 7

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



```
<DISPLAY-LODR:ODR=1;
DISPLAY-LODR:ODR=1;
H500: AMO LODR STARTED
+-----+
| ODR      POSITION   CMD        PARAMETER |
+-----+
| 1        | 1       ECHO      2
|          | 2       END       |
+-----+
| INFO:PSTN
+-----+
```

H03: THE NEXT FREE ODR IS 7

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

```
<DISPLAY-LODR:ODR=6;
DISPLAY-LODR:ODR=6;
H500: AMO LODR STARTED
+-----+
| ODR      POSITION   CMD        PARAMETER |
+-----+
| 6        | 1       ECHO      2
|          | 2       ECHO      3
|          | 3       END       |
+-----+
```

H03: THE NEXT FREE ODR IS 7

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

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).

```
<DISPLAY-SBCSU:STNO=8000;
DISPLAY-SBCSU:STNO=8000;
H500: AMO SBCSU STARTED
```

USER DATA									
STNO	=8000	OPT	=OPTI	COS1	=7	DPLN	=0	SPDI	=Y
MAINO	=8000	CONN	=DIR	COS2	=7	ITR	=0	SPDC1	=0
PEN	= 1- 1- 55- 1			LCOSV1	=31	COSX	=0	SPDC2	=1
INS	=Y	STD	=3	LCOSV2	=31	SERVID	=0	CBKBMAX	=5
		SECR	=N	LCOSD1	=31	DSSTNA	=N	RCBKB	=N
SSTNO	=Y	DIGNODIS	=N	LCOSD2	=31	DSSTNB	=Y	RCBKNA	=N
TRACE	=N	HFREE	=	ASYNCT	=500	PERMACT	=	CBKNAMB	=Y
ALARMNO	=0	HMUSIC	=0	API	=N	TEXTSEL	=ENGLISH		
EXTBUS	=	REP	=0	OPTICOM	=N	OPTISPA	:0	DLAUT	=
CALLOG	=NONE	IDCR	=N	OPTICA	=0	OPTISOA	:0	DLMAN	=
		HEADSET	=N	OPTIDA	=0	OPTIABA	:0	PRI0	=
		HSKEY	=NORMAL	ATMADDR	=			VPI	=
		DFSVCANA	=	TFAGRP	=	PATTERN	=	VCI	=
DVCFIG	=OPTISET	TSI	=1	SOPTIDX	=	SPROT	=		
				DOPTIDX	=	DPROT	=		
				FOPTIDX	=	FPROT	=		
				TOPTIDX	=	TPROT	=		



```
VOPTIDX=          VPROT  =
----- ACTIVATION IDENTIFIERS FOR FEATURES -----
FWDS   :N      FWDT   :N      FWDV   :N      FWDF   :N      FWDD   :N
HTOS   :N      HTOT   :N      HTOV   :N      HTOF   :N      HTOD   :N
DND    :N      VCP    :Y      CWT    :N      TCLOGIN:N
----- FEATURES AND GROUP MEMBERSHIPS -----
ESSTN   :
PUGR    :
KEYSYS  :N      NIGHT OPTION   : N      ASSOCIATED STN       : N
----- SUBSCRIBER ATTRIBUTES (AMO SDAT) -----
NONE
-----
```

AMO-SBCSU-111 STATION AND S0-BUS CONFIGURATION OF SWITCHING UNIT
DISPLAY COMPLETED;

<



Configuring the Cisco Unified CallManager

3745 Gateway 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

Gateway Configuration Related Links: Back to MGCP Configuration ▾ Go

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/DS1-0@3745B4_E1
Description	S2/DS1-0@3745B4_E1
Device Pool*	Default
Call Classification*	Use System Default
NetworkLocale	< None >
Packet Capture Mode*	None
Packet Capture Duration	60
Media Resource Group List	< None >
Location*	Hub_None
AAR Group	< None >
Load Information	

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

Multilevel Precedence and Preemption (MLPP) Information

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

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

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 Search Within Results
(name begins with any)

Search Results

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

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

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 Search Within Results
(name begins with any)

Search Results

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

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



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

Calling Search Space Configuration Related Links: Back To Find/List Go

Status
Status: Ready

Calling Search Space Information

Name * Incoming Trunk

Description 3745 E1

Route Partitions for this Calling Search Space

Available Partitions Phones

Selected Partitions (Ordered by highest priority) Incoming Trunk

Save Delete Copy Add New

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

Calling Search Space Configuration Related Links: Back To Find/List Go

Status
Status: Ready

Calling Search Space Information

Name * Phones

Description 7960 and 7940

Route Partitions for this Calling Search Space

Available Partitions Incoming Trunk

Selected Partitions (Ordered by highest priority) Phones

Save Delete Copy Add New



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

Calling Search Space Configuration Related Links: Back To Find/List Go

Status
Status: Ready

Calling Search Space Information

Name *	Path ReplacementCCS
Description	Path ReplacementCCS

Route Partitions for this Calling Search Space

Available Partitions

Selected Partitions (Ordered by highest priority)

Incoming Trunk
Phones

Save | Delete | Copy | Add New

Enbloc Route Configuration

Find and List Route Patterns

Status
6 records found

Search Options

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

Search Results

	Pattern	Description	Partition	Route Filter	Associated Device	Copy
<input type="checkbox"/>	222	CCM-Vindaloo to Hicom			S2/DS1-0@3745B4_E1	
<input type="checkbox"/>	555	CCM-Vindaloo to Hipath			S2/DS1-1@3745B4_E1	
<input type="checkbox"/>	5XXX	CCM-Vindaloo to Hipath			S2/DS1-1@3745B4_E1	
<input type="checkbox"/>	8XXX	CCM-Vindaloo to Hicom			S2/DS1-0@3745B4_E1	
<input type="checkbox"/>	9.5	CCM-Vindaloo to Hipath			S2/DS1-1@3745B4_E1	
<input type="checkbox"/>	9.8	CCM-Vindaloo to Hicom			S2/DS1-0@3745B4_E1	

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



Route Pattern Configuration

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

Status
(i) 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



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
-- Not Selected --	< Not Exist >	



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 ▾ Go

Status
Status: Ready

Pattern Definition

Route Pattern* 5XXX
Route Partition < None >
Description CCM-Vindaloo to Hipath
Numbering Plan -- Not Selected --
Route Filter < None >
MLPP Precedence* Default
Gateway/Route List * S2/DS1-1@3745B4_E1 (Edit) Find
Route Option Route this pattern
 Block this pattern No Error
Call Classification* OffNet
 Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
 Require Forced Authorization Code
Authorization Level* 0
 Require Client Matter Code

Calling Party Transformations

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

Connected Party Transformations

Connected Line ID Presentation* Default
Connected Name Presentation* Default

Called Party Transformations

Discard Digits < None >
Called Party Transform Mask
Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

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



Route Pattern Configuration

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

Status
(i) 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="button" value="-- Not Selected --"/>	<input type="text" value="< Not Exist >"/>	<input type="text"/>



Overlap Sending Route Pattern Configuration

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

Status
(i) 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
-- Not Selected --	< Not Exist >	



Route Pattern Configuration

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

Status
(i) 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="button" value="-- Not Selected --"/>	< Not Exist >	



Translation Pattern for Incoming Calls

Translation Pattern Configuration

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

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*: Default

Called Party Transformations

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 Go

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
-- Not Selected --	< Not Exist >	



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 Go

Status
Status: Ready

Pattern Definition

Route Pattern* BXXX
Route Partition < None >
Description CCM-Vindaloo to Hicom
Numbering Plan -- Not Selected --
Route Filter < None >
MLPP Precedence* Default
Gateway/Route List * S2/DS1-0@3745B4_E1
Route Option Route this pattern
 Block this pattern No Error
Call Classification* OffNet
 Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
 Require Forced Authorization Code
Authorization Level* 0
 Require Client Matter Code

Calling Party Transformations

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

Connected Party Transformations

Connected Line ID Presentation* Default
Connected Name Presentation* Default

Called Party Transformations

Discard Digits < None >
Called Party Transform Mask
Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

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



COLR Translation Pattern Configuration

Translation Pattern Configuration

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

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	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern
	No Error
<input checked="" type="checkbox"/> Provide Outside Dial Tone <input checked="" type="checkbox"/> Urgent Priority	

Calling Party Transformations

<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

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](#) [Go](#)

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



CallBack Service Parameters

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

Softkey Template Configuration Related Links: Configure Softkey Layout ▾ Go



Status: Status: Ready

Softkey Template Information

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

Add Application Remove Application



Softkey Template Configuration

Related Links: Softkey Template Configuration Go

Status: Status: Ready

Softkey Layout Configuration

Softkey Template: Standard Feature-CB

Select a call state to configure: Ring Out

Unselected Softkeys: Undefined (Undefined)

Selected Softkeys (ordered by position)**:

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

Up ▲ Down ▼

Softkey Template Configuration

Related Links: Softkey Template Configuration Go

Status: Status: Ready

Softkey Layout Configuration

Softkey Template: Standard Feature-CB

Select a call state to configure: On Hook

Unselected Softkeys:

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

Up ▲ Down ▼



Path Replacement Service Parameters

Clusterwide Parameters (Feature - Path Replacement)

Path Replacement Enabled *	<input type="checkbox"/> True	<input checked="" type="checkbox"/> False
Path Replacement on Tromboned Calls *	<input type="checkbox"/> True	<input checked="" type="checkbox"/> False
Start Path Replacement Minimum Delay Time *	2	0
Start Path Replacement Maximum Delay Time *	10	0
Path Replacement T1 Timer *	30	30
Path Replacement T2 Timer *	15	15
Path Replacement PINX ID	111	
Path Replacement Calling Search Space	Path ReplacementCCS	<input type="checkbox"/>

Call Pick Up Group

Call Pickup Group Information

Call Pickup Group Name *	QSIG PINX ID
Call Pickup Group Number *	111
Description	QSIG PINX ID
Partition	< None >

Associated Call Pickup Group Information

Find Pickup Numbers by Numbers/Partition

Partition	< None >
Call Pickup Group Numbers Contain	<input type="text"/>
Available Call Pickup Groups	(No Matches Found)

Add to Associated Call Pickup Groups

Current Associated Call Pickup Groups

Reverse Order of Selected Numbers	
Selected Call Pickup Groups	111
Removed Call Pickup Groups (to be removed when you click Save)	



Forward by Reroute Service Parameter

Clusterwide Parameters (Feature - Forward)	
<u>Forward Maximum Hop Count</u> *	12
<u>Forward No Answer Timer</u> *	12
<u>Max Forward Hops to DN</u> *	12
<u>Retain Forward Information</u> *	False
<u>Forward By Reroute Enabled</u> *	False
<u>Transform Forward by Reroute Destination</u> *	True
<u>Include Voice Mailbox Address in QSIG Call Diversion APDUs</u> *	False
<u>Always Forward Switch Voice Mail Calls</u> *	True
<u>Forward By Reroute T1 Timer</u> *	10
<u>Include Original Called Info for Q.SIG Call Diversions</u> *	Only after the first diversion

IP phone Configuration

The screenshot shows the Cisco IP phone configuration interface. On the left, there's a toolbar with icons for Modify, Delete, Create, and Add. Below it, a status bar indicates "Status: Ready". The main area is divided into two tabs: "Association Information" and "Device Information".

Association Information:

- 1 [Add Line \[1\] - 4000 in Phones](#)
- 2 [Add a new SD](#)
----- Unassigned Associated Items -----
 - 3 [Add Line \[2\] - Add a new DN](#)
 - 4 [Add a new SD](#)
 - 5 [Add a new SURL](#)
 - 6 [Add a new BLF SD](#)
- 7 Privacy
- 8 None

Device Information:

Phone Type	
Product Type:	Cisco 7940
Device Protocol:	SCCP
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



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	
Protocol Specific Information	
Packet Capture Mode*	None
Packet Capture Duration	0
Presence Group*	Standard Presence group
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration
SUBSCRIBE Calling Search Space	< None >
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> Require DTMF Reception	
<input type="checkbox"/> RFC2833 Disabled	
External Data Locations Information (Leave blank to use default)	
Information	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	
Extension Information	
<input type="checkbox"/>	Enable Extension Mobility
Log Out Profile	-- Not Selected --
Login in User ID	< None >
Login in Time	< None >
Log out Time	< None >
Certification Authority Proxy Function (CAPF) Information	
Certificate Operation*	No Pending Operation
Authentication String	
Generate String	
Operation Completes By	2006 : 5 : 19 : 12 (YYYY:MM:DD:HH)
Certificate Operation Status: None	
MLPP Information	
MLPP Domain	< None >
MLPP Indication*	Default
MLPP Preemption*	Default



Secure Shell Information	
Secure Shell User	<input type="text"/>
Secure Shell Password	<input type="password"/>
Product Specific Configuration Layout	
?	
<input type="checkbox"/> Disable Speakerphone	
<input type="checkbox"/> Disable Speakerphone and Headset	
PC Port *	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Enabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Disabled
Auto Line Select*	Disabled
Web Access*	Enabled

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*	4000
Route Partition	Phones
Description	
Alerting Name	Vindaloo-00(Alert)
ASCII Alerting Name	Vindaloo-00(Alert)

Allow Control of Device from CTI

Associated Devices

SEP000427D3FFF7	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	Voice Mail Destination <input type="checkbox"/> or <input type="text"/>	Calling Search Space Phones
Secondary Calling Search Space for Forward All	< None >	
Forward Busy Internal	<input type="checkbox"/> or <input type="text"/>	Phones
Forward Busy External	<input type="checkbox"/> or <input type="text"/>	Phones
Forward No Answer Internal	<input type="checkbox"/> or <input type="text"/>	Phones
Forward No Answer External	<input type="checkbox"/> or <input type="text"/>	Phones
Forward No Coverage Internal	<input type="checkbox"/> or <input type="text"/>	< None >
Forward No Coverage External	<input type="checkbox"/> or <input type="text"/>	< None >
Forward on CTI Failure	<input type="checkbox"/> or <input type="text"/>	< None >
No Answer Ring Duration (seconds)	<input type="text"/>	
Call Pickup Group	< None >	

MLPP Alternate Party Settings

Target (Destination)	<input type="text"/>
MLPP Calling Search Space	Phones
MLPP No Answer Ring Duration (seconds)	<input type="text"/>

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	<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 SEP000427D3FFF7

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

Maximum Number of Calls*	<input type="text" value="4"/>	
Busy Trigger*	<input type="text" value="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](#) [Go](#)

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
IP Address
MAC Address *
Description
Device Pool *
Phone Button Template *
Softkey Template
Common Phone Profile *
Calling Search Space
AAR Calling Search Space
Media Resource Group List
User Hold Audio Source
Network Hold Audio Source
Location *
User Locale
Network Locale
Built In Bridge *
Privacy *
Owner User ID
Phone Load Name

Registered with Cisco Unified CallManager CM-Vindaloo
172.20.221.103

Ignore Presentation Indicators (internal calls only)
 Allow Control of Device from CTI



Protocol Specific Information	
Packet Capture Mode*	<input type="text" value="None"/>
Packet Capture Duration	<input type="text" value="0"/>
Presence Group*	<input type="text" value="Standard Presence group"/>
SIP Dial Rules	<input type="text" value="< None >"/>
MTP Preferred Originating Codec*	<input type="text" value="711ulaw"/>
SIP Phone Security Profile*	<input type="text" value="Standard SIP Profile for Auto Registration"/>
Rerouting Calling Search Space	<input type="text" value="< None >"/>
SUBSCRIBE Calling Search Space	<input type="text" value="< None >"/>
SIP Profile*	<input type="text" value="Standard SIP Profile"/>
Digest User	<input type="text" value="< None >"/>
<input type="checkbox"/> Media Termination Point Required	
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> Require DTMF Reception	
External Data Locations Information (Leave blank to use default)	
Information	<input type="text"/>
Directory	<input type="text"/>
Messages	<input type="text"/>
Services	<input type="text"/>
Authentication Server	<input type="text"/>
Proxy Server	<input type="text"/>
Idle	<input type="text"/>
Idle Timer (seconds)	<input type="text"/>
Extension Information	
<input type="checkbox"/> Enable Extension Mobility	
Log Out Profile <input type="text" value="-- Not Selected --"/>	
Login in User ID < None >	
Log in Time < None >	
Log out Time < None >	
Certification Authority Proxy Function (CAPF) Information	
Certificate Operation*	<input type="text" value="No Pending Operation"/>
Authentication String	<input type="text"/>
Generate String	
Operation Completes By	<input type="text" value="2006"/> : <input type="text" value="5"/> : <input type="text" value="20"/> : <input type="text" value="12"/> (YYYY:MM:DD:HH)
Certificate Operation Status: <input type="text" value="None"/>	
MLPP Information	
MLPP Domain	<input type="text" value="< None >"/>
Secure Shell Information	
Secure Shell User	<input type="text"/>
Secure Shell Password	<input type="text"/>



Product Specific Configuration Layout



<input type="checkbox"/> Disable Speakerphone	
<input type="checkbox"/> Disable Speakerphone and Headset	
PC Port *	Enabled
Settings Access *	Enabled
Gratuitous ARP *	Enabled
PC Voice VLAN Access *	Enabled
Video Capabilities *	Disabled
Auto Line Select *	Disabled
Web Access *	Enabled
Span to PC Port *	Disabled
Logging Display *	PC Controlled
Load Server	

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 *	4002
Route Partition	Phones
Description	SIP
Alerting Name	Vindaloo-SIP-02(Alert)
ASCII Alerting Name	Vindaloo-SIP-02(Alert)

Allow Control of Device from CTI

Associated Devices

SEP00170EEE2F9E

[Edit Device](#)

[Edit Line Appearance](#)



Dissociate Devices



Directory Number Settings

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

Call Forward and Call Pickup Settings

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

MLPP Alternate Party Settings

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

Line 1 on Device SEP00170EEE2F9E

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



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 * (Less than or equal to Max. Calls)

Busy Trigger *

Forwarded Call Information Display on Device SEP00170EEE2F9E

Caller Name
 Caller Number
 Redirected Number
 Dialed Number

Voicemail Profile Configuration

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

Voice Mail Profile Configuration Related Links:

Status
(i) Status: Ready

Voice Mail Profile Information

Voice Mail Profile
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

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	4030
Calling Search Space	Phones
Description	Unity

Make this the default Voice Mail Pilot for the system

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

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 Device Name begins with Find Search Within Results
Select item or enter search text

(device.name begins with any)

Search Results

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

[Add New](#) [Select All](#) [Clear All](#) [Delete Selected](#) [Reset Selected](#) Rows per Page 50



Voice Mail Port Configuration

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

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](#) [Go](#)

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](#) [Go](#)

Status: Ready

Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-VI3
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](#) [Go](#)

Status: Ready

Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-VI4
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

Configuration

[Settings](#)
[Software Versions](#)
[Recordings](#)
[Contacts](#)
[Phone Languages](#)
[GUI Languages](#)

Configuration

[?](#)

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
AVCONVENGNSVR 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

Cisco Unity [Log off](#)

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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 Directory Number begins with Search Within Results
and where Message Waiting Indicator is Both

(numplan.dnorpattern begins with any)

Search Results:

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

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

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: Back To Find/List ▾ Go

Status: Status: Ready

Message Waiting Information:

Message Waiting Number*:
Partition: < None >
Description: MWI On
Message Waiting Indicator*: On off
Calling Search Space: [Path ReplacementCCS](#)

Save | Delete | Copy | Add New



MWI OFF

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: Back To Find/List ▾ Go

Status: Ready

Message Waiting Information

Message Waiting Number*	4039
Partition	< None >
Description	MWI Off
Message Waiting Indicator*	<input type="radio"/> on <input checked="" type="radio"/> off
Calling Search Space	Path ReplacementCCS

Save | Delete | Copy | Add New



3745 Configuration

sho ver

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#

sho run

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-I3 ccm-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-I3 ccm-manager
no cdp enable
!
interface Serial2/0:15
no ip address
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-I3 ccm-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 ccm-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
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server CM-VINDALOO
ccm-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 0xC28B 0x4A4D 0x5830 0x3731 0x354C 0x3038 0x50FF 0xFFFF 0xFFFF



```
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF  
0xFFFF 0x161 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 0xE5D 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 C2 8B 4A 4D 58  
0x40: 30 37 31 35 4C 30 38 50 FF FF FF FF FF FF FF FF FF  
0x50: FF  
0x60: FF  
0x70: 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

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 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
0x70: 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 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
0x40: FF
0x50: FF
0x60: FF
0x70: 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 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

0x40: FF FF

0x50: FF FF

0x60: FF FF

0x70: 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 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.
CCM	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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Corporate Headquarters	European Headquarters	Americas Headquarters	Asia Pacific Headquarters
Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA www.cisco.com Tel: 408 526-4000 800 553-NETS (6387) Fax: 408 526-4100	Cisco Systems International BV Haarlerbergpark Haarlerbergweg 13-19 1101 CH Amsterdam The Netherlands www-europe.cisco.com Tel: 31 0 20 357 1000 Fax: 31 0 20 357 1100	Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA www.cisco.com Tel: 408 526-7660 Fax: 408 527-0883	Cisco Systems, Inc. Capital Tower 168 Robinson Road #22-01 to #29-01 Singapore 068912 www.cisco.com Tel: +65 317 7777 Fax: +65 317 7799

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