

Cisco Unified CallManager Release 5.0-PBX Interoperability: Hicom 330E Release 3.1 PBX to a Cisco 3745 ECMA QSIG with MGCP

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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 ECMA 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 Cisco 3745 w/ VWIC-2MFT-E1 link as MGCP gateway.

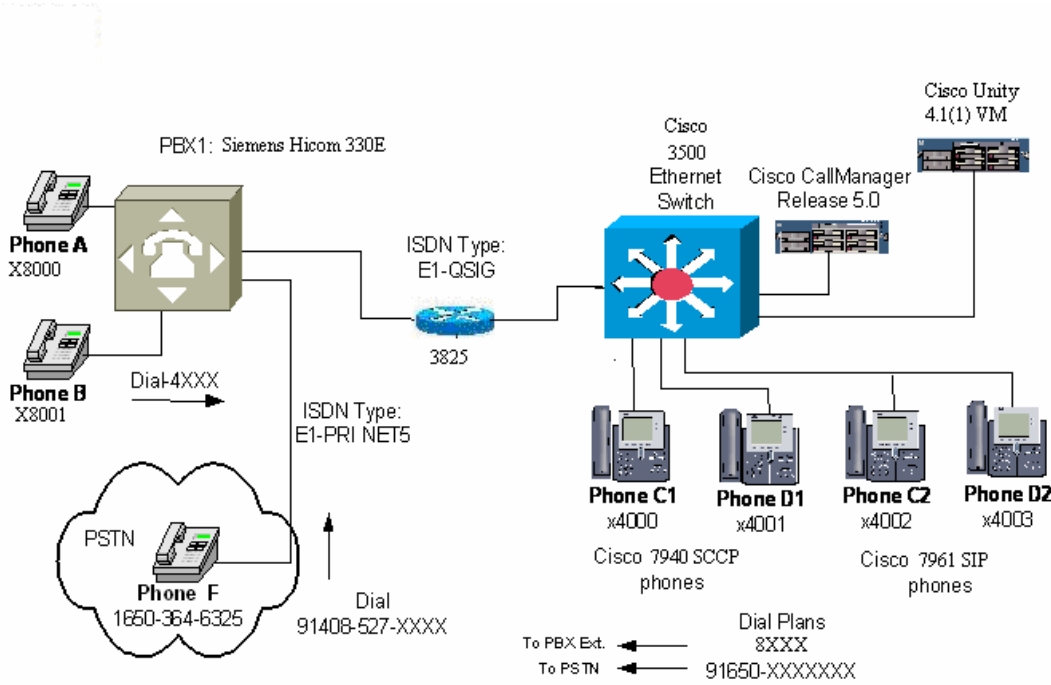
Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway with Cisco Unified CallManager Service parameter QSIG variant of ECMA and ECMA1 switch type on the Hicom 330E PBX.

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 Cisco Unified CallManager QSIG implementation does not depend on the physical interface.



Network Topology

Figure 1. Basic Call Network Topology



Limitations

B-Channel Mapping

Siemens Hicom 330E PBX uses timeslot channel numbering (1-15 & 17-31) when QSIG protocol "ECMA1" is selected, therefore the Cisco 3745 Gateway configuration for **Channel IE Type** field should be set to **Timeslot Number**.

Formatted: Bullets and Numbering

Connected Name and Number Restrictions

Siemens phone displayed dialed number and trunk name when Cisco Unified CallManager sends Connected Name and Number as restricted.

Additional Network Feature Path Replacement for Call Diversion

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

System Components

Hardware Requirements

Cisco Hardware:

Cisco 3500 switch

Cisco 3745 Gateway

Cisco Unified CallManager Server

Siemens Hicom 330E PBX Hardware:

DIU-N2

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 PBX

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

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



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	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO		
			*=OWN NODE		
001 - 010	*	NETRTE			
1000	. **** *	STN	DESTNO 25		
11	. . . . . *	MBKY	DNNO 0- 0- 25	
111	. **** *	TIE			
222	. **** *	OWNNODE			
3000 - 3010	. **** *	STN	DESTNO 33		
3011 - 3020	. **** *	STN	DNNO 0- 0-333		
3021 - 3030	. **** *	STN	DESTNO 43		
			DNNO 0- 0-444		
			DESTNO 53		
			DNNO 0- 0-445		
DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE	CALL PROGRESS STATE 1 11111 11112 22	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO		
			*=OWN NODE		
3031 - 3040	. **** *	STN	DESTNO 63		
3041 - 3050	. **** *	STN	DNNO 0- 0-446		
3051 - 3060	. **** *	STN	DESTNO 73		
			DNNO 0- 0-447		
32	. **** *	TIE	DESTNO 83		
34 - 36	. **** *	TIE	DNNO 0- 0-448		
39	. **** *	TIE			
4000 - 4050	. **** *	STN	DESTNO 111		
			DNNO 0- 0-111		
DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE	CALL PROGRESS STATE 1 11111 11112 22	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO		
			*=OWN NODE		
4051 - 4599	. **** *	STN	R		
			DESTNO 0		
4700 - 4999	. **** *	STN	DNNO 0- 0-222*		
			R		
			DESTNO 0		
5000 - 5009	. **** *	STN	DNNO 0- 0-222*		



5010		. . . . .	ATNDIND	DESTNO 55
5011	- 5020	. . . . .	STN	DNNO 0- 0- 55
				R
5021	- 5050	. . . . .	STN	DESTNO 55
				DNNO 0- 0- 55
5051		. . . . .	ATNDIND	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
	1 11111 11112 22		*=OWN NODE
0	12345 67890 12345 67890 12		

5500	- 5501	. . . . .	STN	DESTNO 56
				DNNO 0- 0-560
555		. . . . .	TIE	
560		. . . . .	TIE	
6000		. . . . .	STN	
				DESTNO 33
7000	- 7002	. . . . .	STN	DNNO 0- 0-333
				DESTNO 56
79		. . . . .	TIE	DNNO 0- 0-560
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
	1 11111 11112 22		*=OWN NODE
0	12345 67890 12345 67890 12		

8020		. . . . .	STN	R
				DESTNO 0
854		. . . . .	NETW	DNNO 0- 0-222*
				R
9		. . . . .	TIE	DESTNO 2
*66		. . . . .	SIGNON	DNNO 0- 0- 0
*91		. . . . .	MBOFF	
#66		. . . . .	SIGNOFF	
#91		. . . . .	MBOFF	
##22		. . . . .	MBON	
##24		. . . . .	DAKY	
##25		. . . . .	DSSKY	
##26		. . . . .	FWDKY	
##27		. . . . .	HTKY	
##28		. . . . .	KNOVRKY	
			MBKY	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

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

##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	DIGIT ANALYSIS	RESERVED/CONVERT
	1 1111 1112 22		DNI/ADD-INFO
0 12345 67890 12345 67890 12		RESULT	*=OWN NODE

##52	. . . . . *	PRIVKY
##53	. . . . . *	RLSKY
##54	. . . . . *	SNRKY
##55	. . . . . *	TRNSKY
##56	. . . . . *	RCTOPFKY
##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	DIGIT ANALYSIS	RESERVED/CONVERT
	1 1111 1112 22		DNI/ADD-INFO
0 12345 67890 12345 67890 12		RESULT	*=OWN NODE

0	. **** * *	CO	R
001 - 009	* *	NETRTE	
111	. **** * *	TIE	
12	. **** * *	TIE	R
13 - 14	. **** * *	TIE	
21	. . . . . *	KNVRKY	
22	. . . . . *	DNDKY	
222	. **** * *	TIE	
23	. . . . . *	FWDKY	
24	. . . . . *	MBKY	
25	. . . . . *	MSGRKY	
26	. . . . . *	DAKY	
27	. . . . . *	DSSKY	
28	. . . . . *	VCRKY	
29	. . . . . *	VCKY	
30	. . . . . *	CONFKY	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE	DIGIT ANALYSIS	RESERVED/CONVERT
	1 1111 1112 22		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



3021 - 3030	. . **** * *	STN	DNNO 0- 0- 31
			DESTNO 32
3031 - 3040	. . **** * *	STN	DNNO 0- 0- 32
			DESTNO 33
3041 - 3050	. . **** * *	STN	DNNO 0- 0- 33
			DESTNO 35
31	. . . . . *	NAMEKY	DNNO 0- 0- 35
32	. . . . . *	PARKKY	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT
			DNI/ADD-INFO *=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 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT
			DNI/ADD-INFO *=OWN NODE
4568 - 4999	. . **** * *	STN	DESTNO 222 DNNO 0- 0-222
5000 - 5040	. . **** * *	STN	DESTNO 0 DNNO 0- 0-555*
5500 - 5501	. . **** * *	STN	DESTNO 56 DNNO 0- 0-560
555	. . **** * *	OWNNODE	
560	. . **** * *	TIE	
59	. . **** * *	TIE	
6000 - 6009	. . **** * *	STN	R DESTNO 0 DNNO 0- 0-555*

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT
			DNI/ADD-INFO *=OWN NODE
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	. . . . . *	SCONSCO	R
9	. **** * *	TIE	
*13	. . . . *	AHTVCE	
*15	. * . . . *	SPLIT	
*16	. . . . *	AREM	
*17	. * . . . *	TRACE	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE	DIGIT ANALYSIS	RESERVED/CONVERT DNI/ADD-INFO
	1 1111 11112 22	RESULT	*=OWN NODE
	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	ASSIGNED MODULE	MODULE TYPE	FCT ID	HWY BDL	INSERTED MODULE	STATE	HW-INFO	MODULE STATUS
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	ASSIGNED MODULE	MODULE TYPE	FCT ID	HWY BDL	INSERTED MODULE	STATE	HW-INFO	MODULE STATUS
79	Q2196-X	DIU-N2	1	A	Q2196-X	1	-06 -	READY

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

Class of Trunk, COT

<dis-cot: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
RECALL IF USER HANGS UP IN CONSULTATION CALL
TRUNK CALL TRANSFER
TRUNK SIGNALING ANSWER
CHANGEOVER FROM HOLD TO RING TONE
KNOCKING OVERRIDE POSSIBLE
CALL EXTEND FOR BUSY, RING OR CALL STATE
NETWORKWIDE AUTOMATIC CALLBACK ON BUSY
NETWORKWIDE AUTOMATIC CALLBACK ON FREE
DON'T RELEASE CALL TO BUSY HUNT GROUP
CONNECTION TO ROUTE OPTIMIZATION NODE
TSC-SIGNALING FOR NETWORKWIDE FEATURES (MANDATORY)
INCOMING CDR BY ZONE OR FROM LINE
AOC PER CALL (AUTOMATIC OR ON REQUEST), MAND. CORNET-NQ
LINE WITH IMPLICIT NUMBERS
NO TONE

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:

Table with 4 columns: COT, TRUNK, BCGR, DEVICE. Contains 18 rows of trunk data for COT 4.

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:

Table with 4 columns: COT, TRUNK, BCGR, DEVICE. Contains 2 rows of trunk data for COT 5.



```

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 (AUTOMATIC 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 AOC
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 TNOTCR	NOCO NOTIE	NOCO NOTIE	NOCO NOTIE	TA 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=
	1234567890123456789012345678901234567890123456789012345678901234						LCRET
	>SERVICE INFORMATION						LCR
32	XX						.
	>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
```

```

+-----+-----+-----+-----+
|          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 = ECMA1     SEGMENT = 1          TCHARG   = N          |
| SUPPRESS = 0          DGTFR   =           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          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;
```

```
<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          DPLN     = 0          |
| ITR     = 0          COS     = 32         LCOSV    = 32         |
| LCOSD   = 32         CCT     = HIPATH S2   DESTNO   = 111        |
| PROTVAR = ECMA1     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      = 111        |
| ALARMNO  = 0         FIDX    = 1          CARRIER = 1          |
| ZONE     = EMPTY     COTX    = 4          FWDX     = 10         |
| DOMTYPE  =           DOMAINNO =          TPROFNO  =           |
| INIGHT   =           |
| CCHDL    =           UUSCCX  = 16         UUSCCY   = 8          |
+-----+-----+-----+-----+
| TGRP    = 38         SRCHMODE = CIR       BCNEG    = Y          |
| 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;

<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          QUAL     = ON          |
| MASTER = N          DCHAN1  = 16         DCHAN2   = 0          |
| PATTERN = D5H         QUAL1   = 10 SEC.     QUAL2    = 10 MIN.    |
| SMD     = N          PERMACT = Y          FCBAB    = DFH        |
| CDG     = N           FIXEDTEI = 0          CNTRNR   = 255        |
| TEIVERIF = N         CRC4REP  = N          |
| DEV     = INDEP      |
| INFO    = 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 = ECMA1   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

```

+-----+
| R E F E R E N C E C L O C K C I R C U I T S |
+-----+
| PEN      | MODULE | DEVICE | PRI | ERROR | BLOCK | SUPP. | READY |
|          |        |        |    |        |        |        | BUT  |
|          |        |        |    |        |        |        | ASYN |
+-----+
| 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

```

+-----+
| R E F E R E N C E C L O C K C I R C U I T S |
+-----+
| PEN      | MODULE | DEVICE | PRI | ERROR | BLOCK | SUPP. | READY |
|          |        |        |    |        |        |        | BUT  |
|          |        |        |    |        |        |        | ASYN |
+-----+
| 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
```

```
+-----+
| LROUTE = 111  LDPLN      NAME = ROPT CCM                SERVICE = ALL |
| TYPE = LCR                                           DNN OF ROUTE = 111 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | BAND |
|        |      |      |     |       | ABCDEFGH |         |     |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1     | 1    | 38   | 4   | 1    | ***** | 1     | EMPTY |
|        |      |      |     |     |         |       |     |
|        | DNN = 111 |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

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

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

```
+-----+
| LROUTE = 555  LDPLN      NAME = ROPT HIPATH            SERVICE = ALL |
| TYPE = LCR                                           DNN OF ROUTE = 55  |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | BAND |
|        |      |      |     |       | ABCDEFGH |         |     |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1     | 1    | 37   | 4   | 1    | ***** | 1     | EMPTY |
|        |      |      |     |     |         |       |     |
|        | DNN = 55 |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

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

```
<
```

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

```
+-----+
| LROUTE = 37   LDPLN      NAME = PRI TEST                SERVICE = ALL |
| TYPE = LCR                                           DNN OF ROUTE = 222 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | BAND |
|        |      |      |     |       | ABCDEFGH |         |     |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1     | 1    | 37   | 1   | 1    | ***** | 1     | EMPTY |
|        |      |      |     |     |         |       |     |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
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                                           DNNNO OF ROUTE = 111 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | BAND | LATTR |
| ABCDEFGH | ZONE | WIDTH |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 38 | 1 | 1 | ***** | 1 | EMPTY | 1 | NONE |
| DNNNO = 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                                           DNNNO OF ROUTE = 59 |
| SERVICE INFO =                                         |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| LRTEL | LVAL | TGRP | ODR | LAUTH | SCHEDULE | CARRIER | BAND | LATTR |
| ABCDEFGH | ZONE | WIDTH |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 71 | 6 | 1 | ***** | 1 | EMPTY | 1 | NONE |
| DNNNO = 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-RICT:MODE=LRTE,LRTE=38;
DISPLAY-RICT: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-RICT-111      TRUNK ROUTING
DISPLAY COMPLETED;
```

PSTN RICHT

```
<DISPLAY-RICT:MODE=LRTE,LRTE=916;
DISPLAY-RICT: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-RICT-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 CBKBMX=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 PRIO =
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  :      HUNTING GROUP : N
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;
<
```



Cisco Unified CallManager Configuration

Cisco Unified CallManager ECMA Service Parameter Configuration

Clusterwide Parameters (Device - PRI and MGCP Gateway)	
ASN.1 ROSE OID Encoding*	Use Global Value (ECMA) Use Local Value
QSIG Variant*	ECMA (Protocol Profile 0x91) ISQ (Protocol Profile 0x9F)
Caller ID	
Calling Name Not Available Timeout*	2000
Calling Party Number Screening Indicator*	CallManager sets the screening indicator value - Default setting CallManager sets the screening indicator value - Default setting

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 Billing Administration Help Log Off

Gateway Configuration

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

Status
Status: Ready

Device Information

Product	Cisco MGCP E1 Port
Gateway	3745B4_E1
Device Protocol	Digital Access PRI
Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.221.200
End-Point Name *	S2/DS1-0@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)



Interface Information

PRI Protocol Type*	PRI ISO QSIG E1
Protocol Side*	Network
Channel Selection Order*	Top Down
Channel IE Type*	Timeslot Number
PCM Type*	A-law
Delay for first restart (1/8 sec ticks)*	32
Delay between restarts (1/8 sec ticks)*	4
<input checked="" type="checkbox"/> Inhibit restarts at PRI initialization	
<input type="checkbox"/> Enable status poll	
<input type="checkbox"/> Unattended Port	

<input checked="" type="checkbox"/> Inhibit restarts at PRI initialization	
<input type="checkbox"/> Enable status poll	
<input type="checkbox"/> 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

<input type="checkbox"/> Display IE Delivery
<input type="checkbox"/> Redirecting Number IE Delivery - Outbound
<input type="checkbox"/> Redirecting Number IE Delivery - Inbound
<input type="checkbox"/> Send Extra Leading Character in Display IE***
<input type="checkbox"/> Setup non-ISDN Progress Indicator IE Enable****
<input type="checkbox"/> MCDN Channel Number Extension Bit Set to Zero**
<input type="checkbox"/> Send Calling Name In Facility IE
<input type="checkbox"/> Interface Identifier Present**



Interface Identifier Value**

Connected Line ID Presentation (QSIG Inbound Call)*

UUIE Configuration

Passing Precedence Level Through UUIE

Security Access Level*

Product Specific Configuration

Line Coding*

Framing*

Clock*

Partition Configuration

Navigation Cisco Unified CallManager Administration

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

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

Find and List Partitions

Status
2 records found

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

Search Results

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

Rows per Page

Calling Search Space

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

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

Find and List Calling Search Spaces

Status
3 records found

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

Search Results

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

Rows per Page



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

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



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

Table with 7 columns: Pattern, Description, Partition, Route Filter, Associated Device, Copy. Contains 6 rows of route patterns.



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

Status
Status: Ready

Pattern Definition

Route Pattern*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence*

Gateway/Route List*

Route Option
 Route this pattern
 Block this pattern

Call Classification*

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

Require Forced Authorization Code

Authorization Level*

Require Client Matter Code

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation*

Calling Name Presentation*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol

Carrier Identification Code

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



Route Pattern Configuration

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



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 >	



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](#)

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
<input type="text" 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 <input type="button" value="Go"/>
<div style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Add"/> </div>		
Status <i>i</i> Status: Ready		
Pattern Definition		
Route Pattern *	<input type="text" value="9.5"/>	
Route Partition	<input type="text" value=" < None >"/>	
Description	<input type="text" value="CCM-Vindaloo to Hipath"/>	
Numbering Plan	<input type="text" value=" -- Not Selected --"/>	
Route Filter	<input type="text" value=" < None >"/>	
MLPP Precedence *	<input type="text" value="Default"/>	
Gateway/Route List *	<input type="text" value="S2/DS1-1@3745B4_E1"/> <input type="button" value="(Edit)"/> <input type="button" value="Find"/>	
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="No Error"/>	
Call Classification *	<input type="text" value="OffNet"/>	
<input type="checkbox"/> Allow Device Override <input checked="" type="checkbox"/> Provide Outside Dial Tone <input checked="" type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority		
<input type="checkbox"/> Require Forced Authorization Code		
Authorization Level *	<input type="text" value="0"/>	
<input type="checkbox"/> Require Client Matter Code		
Calling Party Transformations		
<input type="checkbox"/> Use Calling Party's External Phone Number Mask		
Calling Party Transform Mask	<input type="text"/>	
Prefix Digits (Outgoing Calls)	<input type="text"/>	
Calling Line ID Presentation *	<input type="text" value="Default"/>	
Calling Name Presentation *	<input type="text" value="Default"/>	
Connected Party Transformations		
Connected Line ID Presentation *	<input type="text" value="Default"/>	
Connected Name Presentation *	<input type="text" value="Default"/>	
Called Party Transformations		
Discard Digits	<input type="text" value="PreDot"/>	
Called Party Transform Mask	<input type="text"/>	
Prefix Digits (Outgoing Calls)	<input type="text"/>	
ISDN Network-Specific Facilities Information Element		
Network Service Protocol	<input type="text" value=" -- Not Selected --"/>	
Carrier Identification Code	<input type="text"/>	
Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value=" -- Not Selected --"/>	<input type="text" value=" < Not Exist >"/>	<input type="text"/>



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

Status
Status: Ready

Pattern Definition

Route Pattern*
Route Partition
Description
Numbering Plan
Route Filter
MLPP Precedence*
Gateway/Route List*
Route Option
 Route this pattern
 Block this pattern
Call Classification*
 Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
 Require Forced Authorization Code
Authorization Level*
 Require Client Matter Code

Calling Party Transformations

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

Connected Party Transformations

Connected Line ID Presentation*
Connected Name Presentation*

Called Party Transformations

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

ISDN Network-Specific Facilities Information Element




Network Service Protocol
Carrier Identification Code

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



Translation Pattern for Incoming Calls

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

Status
Status: Ready

Pattern Definition
Translation Pattern: 4XXX
Partition: Incoming Trunk
Description:
Numbering Plan: < None >
Route Filter: < None >
MLPP Precedence*: Default
Calling Search Space: Phones
Route Option:
 Route this pattern
 Block this pattern: No Error
 Provide Outside Dial Tone Urgent Priority

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

Connected Party Transformations
Connected Line ID Presentation*: Default
Connected Name Presentation*: 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* [\(Edit\)](#) [Find](#)
 Route Option
 Route this pattern
 Block this pattern
 Call Classification*
 Allow Device Override Provide Outside Dial Tone Allow Overlap Sending Urgent Priority
 Require Forced Authorization Code
 Authorization Level*
 Require Client Matter Code

Calling Party Transformations

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

Connected Party Transformations

Connected Line ID Presentation*
 Connected Name Presentation*

Called Party Transformations

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

ISDN Network-Specific Facilities Information Element

Network Service Protocol
 Carrier Identification Code

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



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

Calling Party Transformations

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

Connected Party Transformations

Connected Line ID Presentation*
 Connected Name Presentation*

Called Party Transformations

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

ISDN Network-Specific Facilities Information Element





Network Service Protocol
 Carrier Identification Code

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



COLR Translation Pattern Configuration

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

Status
Status: Ready

Pattern Definition
Translation Pattern: 4XXX
Partition: Incoming Trunk
Description:
Numbering Plan: < None >
Route Filter: < None >
MLPP Precedence*: Default
Calling Search Space: Phones
Route Option:
 Route this pattern
 Block this pattern: No Error
 Provide Outside Dial Tone Urgent Priority

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

Connected Party Transformations
Connected Line ID Presentation*: Restricted
Connected Name Presentation*: Default

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

ISDN Network-Specific Facilities Information Element
Network Service Protocol: -- Not Selected --
Carrier Identification Code:
Network Service: -- Not Selected --

Service Parameter Name	Service Parameter Value
< Not Exist >	



CONR Translation Pattern Configuration

Translation Pattern Configuration		Related Links: Back To Find/List <input type="button" value="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 <input type="text" value="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*	Default	
Connected Name Presentation*	Restricted	
Called Party Transformations		
Discard Digits	< None >	
Called Party Transform Mask		
Prefix Digits (Outgoing Calls)		
ISDN Network-Specific Facilities Information Element		
Network Service Protocol	-- Not Selected --	
Carrier Identification Code		
Network Service	Service Parameter Name	Service Parameter Value
-- Not Selected --	< Not Exist >	



CallBack Service Parameters

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

CallBack Softkey Configuration

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

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

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



Status: Ready

Softkey Layout Configuration
Softkey Template: Standard Feature-CB
Select a call state to configure: **Ring Out**

Unselected Softkeys	Selected Softkeys (ordered by position)**
Undefined (Undefined)	**End Call (EndCall) Direct Transfer (DirTrfr) Call Back (CallBack)

Status: Ready

Softkey Layout Configuration
Softkey Template: Standard Feature-CB
Select a call state to configure: **On Hook**

Unselected Softkeys	Selected Softkeys (ordered by position)**
Conference List (ConfList) Direct Transfer (DirTrfr) Group Pick Up (GPickUp) Immediate Divert (iDivert) Join (Join) Meet Me (MeetMe) Other Pickup (oPickup) Pick Up (PickUp) Quality Report Tool (QRT) Remove Last Conference Party (RmLstC) Select (Select) Undefined (Undefined) Video Mode Command (VidMode)	Redial (Redial) **NewCall (NewCall) Forward All (CfwdAll) Call Back (CallBack)



Path Replacement Service Parameters

Clusterwide Parameters (Feature - Path Replacement)	
Path Replacement Enabled *	True <input type="checkbox"/> False <input type="checkbox"/>
Path Replacement on Tromboned Calls *	True <input type="checkbox"/> True <input type="checkbox"/>
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 Pickup Group

Call Pickup Group Information	
Call Pickup Group Name *	QSIG PINX ID
Call Pickup Group Number *	111
Description	QSIG PINX ID
Partition	< None > <input type="checkbox"/>

Associated Call Pickup Group Information	
Find Pickup Numbers by Numbers/Partition	
Partition	< None > <input type="checkbox"/>
Call Pickup Group Numbers Contain	<input type="text"/> <input type="button" value="Find"/>
Available Call Pickup Groups	(No Matches Found)
<input type="button" value="Add to Associated Call Pickup Groups"/>	

Current Associated Call Pickup Groups	
<input type="button" value="Reverse Order of Selected Numbers"/>	
Selected Call Pickup Groups	111 <input type="checkbox"/>
Removed Call Pickup Groups (to be removed when you click Save)	



Forward by Reroute Service Parameter

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



IP Phone Configuration

Phone Configuration - Microsoft Internet Explorer

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

Phone Configuration

Status: Ready

Association Information

Modify Button Items

- Line [1] - 4000 in Phones
- Add a new SD
- Line [2] - Add a new DN
- Add a new SD
- Add a new SURF
- Add a new BLF SD
- Privacy
- None

----- Unassigned Associated Items -----

Phone Type

Product Type: Cisco 7940
Device Protocol: SCCP

Device Information

Registered with Cisco Unified CallManager CM-Vindaloo

IP Address: 172.20.221.101

MAC Address*: 000427D3FFF7

Description: Auto 4000

Device Pool*: Default

Phone Button Template*: Standard 7940 SCCP

Softkey Template: Standard Feature-CB

Common Phone Profile*: Standard Common Phone Profile

Calling Search Space: < None >

AAR Calling Search Space: < None >

Media Resource Group List: < None >

User Hold Audio Source: < None >

Network Hold Audio Source: < None >

Location*: Hub_None

User Locale: English United States

Network Locale: < None >

Built In Bridge*: Default

Done

Start | Clarinet - ... | Phone Co... | Cisco Unifi... | Qsig_mon... | http://ww... | PBX_templ... | Siemens_C... | untitle - P... | Local intranet | 9:39 AM



Privacy*	Default
Owner User ID	< None >
Phone Load Name	
<input checked="" type="checkbox"/> Retry Video Call as Audio	
<input type="checkbox"/> Ignore Presentation Indicators (internal calls only)	
<input checked="" type="checkbox"/> Allow Control of Device from CTI	

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 >
Log in Time	< None >
Log out Time	< None >

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

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 ConfigurationRelated 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: or [Voice Mail Destination] Calling Search Space: Phones

Secondary Calling Search Space for Forward All: < None > **Find**

Forward Busy Internal: or [Voice Mail Destination] Calling Search Space: Phones

Forward Busy External: or [Voice Mail Destination] Calling Search Space: Phones

Forward No Answer Internal: or [Voice Mail Destination] Calling Search Space: Phones

Forward No Answer External: or [Voice Mail Destination] Calling Search Space: Phones

Forward No Coverage Internal: or [Voice Mail Destination] Calling Search Space: < None >

Forward No Coverage External: or [Voice Mail Destination] Calling Search Space: < None >

Forward on CTI Failure: or [Voice Mail Destination] Calling Search Space: < None >

No Answer Ring Duration (seconds): []

Call Pickup Group: < None >

MLPP Alternate Party Settings

Target (Destination): []

MLPP Calling Search Space: Phones

MLPP No Answer Ring Duration (seconds): []

Line 1 on Device SEP00427D3FFF7

Display (Internal Caller ID): Vindaloo-00 Display text for a line appearance is intended for displaying text such as a name instead of a number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.

ASCII Display (Internal Caller ID): Vindaloo-00

Line Text Label: Vindaloo-00

ASCII Line Text Label: Vindaloo-00

External Phone Number Mask: []

Message Waiting Lamp Policy*: Use System Policy

Ring Setting (Phone Idle)*: Ring

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

Multiple Call/Call Waiting Settings on Device SEP00427D3FFF7

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

Maximum Number of Calls*: 4

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



Forwarded Call Information Display on Device SEP000427D3FFF7

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

SIP phone Configuration

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

Association Information

Modify Button Items

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

Phone Type

Product Type: Cisco 7961
Device Protocol: SIP

Device Information

Registration: Registered with Cisco Unified CallManager CM-Vindaloo

IP Address: [172.20.221.103](#)

MAC Address*: 00170EEE2F9E

Description: Auto 4002

Device Pool*: Default

Phone Button Template*: Standard 7961 SIP

Softkey Template: Standard Feature-CB

Common Phone Profile*: Standard Common Phone Profile

Calling Search Space: < None >

AAR Calling Search Space: < None >

Media Resource Group List: < None >

User Hold Audio Source: < None >

Network Hold Audio Source: < None >

Location*: Hub_None

User Locale: < None >

Network Locale: < None >

Built In Bridge*: Default

Privacy*: Default

Owner User ID: < None >

Phone Load Name:

Ignore Presentation Indicators (internal calls only)

Allow Control of Device from CTI



Protocol Specific Information	
Packet Capture Mode*	None
Packet Capture Duration	0
Presence Group*	Standard Presence group
SIP Dial Rules	< None >
MTP Preferred Originating Codec*	711ulaw
SIP Phone Security Profile*	Standard SIP Profile for Auto Registration
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile
Digest User	< None >
<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	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	

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

Certification Authority Proxy Function (CAPF) Information	
Certificate Operation*	No Pending Operation
Authentication String	
<input type="button" value="Generate String"/>	
Operation Completes By	2006 : 5 : 20 : 12 (YYYY:MM:DD:HH)
Certificate Operation Status: None	

MLPP Information	
MLPP Domain	< None >

Secure Shell Information	
Secure Shell User	
Secure Shell Password	



Product Specific Configuration Layout ?

Disable Speakerphone

Disable Speakerphone and Headset

PC Port *

Settings Access *

Gratuitous ARP *

PC Voice VLAN Access *

Video Capabilities *

Auto Line Select *

Web Access *

Span to PC Port *

Logging Display *

Load Server

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



Status
 Status: Ready

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

Directory Number Information

Directory Number *	<input type="text" value="4002"/>
Route Partition	<input type="text" value="Phones"/>
Description	<input type="text" value="SIP"/>
Alerting Name	<input type="text" value="Vindaloo-SIP-02(Alert)"/>
ASCII Alerting Name	<input type="text" value="Vindaloo-SIP-02(Alert)"/>

Allow Control of Device from CTI

Associated Devices

SEP00170EEE2F9E	<input type="button" value="Edit Device"/>
-----------------	--



Dissociate Devices

--



Directory Number Settings

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

Call Forward and Call Pickup Settings

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

MLPP Alternate Party Settings

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

Line 1 on Device SEP00170EEE2F9E

Display (Internal Caller ID)	Vindaloo-SIP-02	Display text for a line appearance is intended for displaying text such as a name in number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)	Vindaloo-SIP-02	
Line Text Label	Vindaloo-SIP-02	
ASCII Line Text Label	Vindaloo-SIP-02	
External Phone Number Mask		
Message Waiting Lamp Policy*	Use System Policy	
Ring Setting (Phone Idle)*	Ring	
Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.



Multiple Call/Call Waiting Settings on Device SEP00170EEE2F9E

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

Maximum Number of Calls*

Busy Trigger*

(Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP00170EEE2F9E






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

Voice Mail Profile Configuration

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

Voice Mail Profile Configuration Related Links:

Status
Status: Ready

Voice Mail Profile Information
Voice Mail Profile: Unity (used by 4 devices)

Voice Mail Profile Name*

Description

Voice Mail Pilot**

Voice Mail Box Mask

Make this the default Voice Mail Profile for the System



Voicemail Pilot Configuration

Navigation Cisco Unified Cal

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

Voice Mail Pilot Configuration Related Links:

Status
 Status: Ready

Voice Mail Pilot Information

Voice Mail Pilot Number

Calling Search Space

Description

Make this the default Voice Mail Pilot for the system

Voicemail Ports

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

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

Find and List Voice Mail Ports

Status
 4 records found

Search Options

Find Voice Mail Port where Search Within Results

(device.name begins with any)

Search Results

	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	

Rows per Page



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



Status
Status: Ready

Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-V11
Description	Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

Directory Number Information

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

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



Status
Status: Ready

Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-V12
Description	Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

Directory Number Information

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



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



Status
Status: Ready

Device Information

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



Status
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

The screenshot shows the Cisco Unity Configuration page in Microsoft Internet Explorer. The browser address bar shows the URL: `http://unity1/Web/Sa/FrameASP/SysFrame.asp?NavWidth=205`. The page title is "Cisco Unity - System - Microsoft Internet Explorer". The main content area is titled "Configuration" and contains a section for "Software Versions".

Configuration

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

Software Versions

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

© 1999-2005 Cisco Systems, Inc. Log off

Done Local intranet

Start Cisco Unity - System - ... 2:29 PM



MWI Configuration

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

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

Find and List Message Waiting Numbers

Status
2 records found

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

Search Results

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

Add New Select All Clear All Delete Selected Rows per Page

MWI ON

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

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

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

Status
Status: Ready

Message Waiting Information

Message Waiting Number*

Partition

Description

Message Waiting Indicator* On Off

Calling Search Space



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](#)

Status
Status: Ready

Message Waiting Information

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



Cisco 3745 Configuration

Router#show version

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

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

3745B4_E1 uptime is 2 weeks, 6 days, 19 hours, 11 minutes
System returned to ROM by power-on
System image file is "flash:c3745-ipvoice-mz.124-3.bin"

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

3745B4_E1# show running-config

Building configuration...

Current configuration : 3738 bytes

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



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



```
!  
controller E1 2/1  
pri-group timeslots 1-31 service mgcp  
!  
!  
!  
interface FastEthernet0/0  
ip address 172.20.221.200 255.255.255.0  
duplex auto  
speed auto  
!  
interface FastEthernet0/0.10  
encapsulation dot1Q 10  
no snmp trap link-status  
!  
interface FastEthernet0/0.11  
encapsulation dot1Q 11  
ip address 192.168.11.1 255.255.255.0  
no snmp trap link-status  
!  
interface FastEthernet0/1  
no ip address  
shutdown  
duplex auto  
speed auto  
!  
interface Serial1/0:15  
no ip address  
isdn switch-type primary-net5  
isdn incoming-voice voice  
isdn bind-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 0xFFFF 0xC28B 0x4A4D 0x5830
```



```

0x3731 0x354C 0x3038 0x50FF 0xFFFF 0xFFFF
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF
0xFFFF 0xFF15 0xA3C7 0x8B00 0x0000 0x0161
0x13A5 0x6465 0x1F3F 0x6000 0x0000 0x0200
0x0000 0x0100 0x0001 0x0565 0x25B4 0x4065
0x25B4 0x0065 0x25B3 0xC065 0x25B3 0x8000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0300
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0100
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0065
0x25B3 0x4065 0x25B3 0x0000 0x0000 0x0000
0x0001 0x09FF 0xFFFF 0xFF00 0x0000 0x0000
0x0000 0x0015 0xA3C7 0x8B00 0x0000 0x0161
0x13A5 0x6465 0x1F3F 0x6000 0x0000 0x0100
0x0000 0x0100 0x0000 0xC665 0x25B5 0xC065
0x25B5 0x8065 0x25B5 0x4065 0x25B5 0x0000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0300
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0200 0x0000 0x0100
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0065
0x25B0 0xC065 0x25B0 0x8000 0x0000 0x0000
0x0001 0x08FF 0xFFFF 0xFF00 0x0000 0x0000
0x0000 0x0015 0xA3C7 0x8B00 0x0000 0x0161
0x7274 0x8065 0x1F3F 0x6000 0x0000 0x0064
0x7832 0xDCAA 0xAAAA 0xAAA0 0x0000 0x0000
0x0000 0x0000 0x0000 0x0000 0x0000 0x0000
0x0000 0x6400 0x2D00 0x3700 0x1400 0x1E00
0x0000 0x0200 0x0000 0x0C66 0x0E5D 0xD000
0x0100 0x0060 0x399D 0xD060 0x39A6 0x8460
0x39A4 0x6C00 0x0000 0x0060 0x39A6 0xF400
0x0000 0x0000 0x0000 0x0000 0x0000 0x0064
0x1FC3 0x3065 0x2131 0xB800 0x0000 0x0000
0x0000 0x0000 0x0042 0x4000 0x0000 0x0064
0x7043 0x0C00 0x0000 0x0000 0x0000 0x0000
0x0000 0x0015 0xA3C7

```

Chassis Serial Number : JMX0715L08P

EEPROM format version 4

EEPROM contents (hex):

```

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

```

c3700 Mid-Plane EEPROM:

```

Hardware Revision : 2.0
Top Assy. Part Number : 800-12289-01
Board Revision : A0
Deviation Number : 0-0
Fab Version : 05

```




0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

Slot 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
RMA Number : 0-0-0-0
RMA History : 00
RMA Test History : 00
Field Diagnostics Data : FF FF FF FF FF FF FF FF
Hardware Revision : 2.0
Fab Version : 04
Chassis Serial Number : JMX0715L08P
Product (FRU) Number : C3745-2FE
EEPROM format version 4
EEPROM contents (hex):
0x00: 04 FF C1 8B 4A 41 44 30 37 31 31 30 36 44 59 09
0x10: 69 40 02 F7 C0 46 03 20 00 3E 3E 02 42 42 30 85
0x20: 1C 12 40 04 80 FF FF FF FF C4 08 FF FF FF FF FF
0x30: FF FF FF 81 00 00 00 00 04 00 03 00 C5 08 FF FF
0x40: FF FF FF FF FF FF 41 02 00 02 04 C2 8B 4A 4D 58
0x50: 30 37 31 35 4C 30 38 50 FF FF FF FF FF FF FF FF
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

Slot 1:

High Density Voice Port adapter
Port adapter is analyzed
Port adapter insertion time unknown
EEPROM contents at hardware discovery:
Hardware Revision : 1.1
Top Assy. Part Number : 800-03567-01
Board Revision : G0
Deviation Number : 0-0
Fab Version : 02
PCB Serial Number : JAD06380IBZ
RMA Test History : 00
RMA Number : 0-0-0-0
RMA History : 00
Product (FRU) Number : NM-HDV=
EEPROM format version 4
EEPROM contents (hex):
0x00: 04 FF 40 00 CC 41 01 01 C0 46 03 20 00 0D EF 01
0x10: 42 47 30 80 00 00 00 02 02 C1 8B 4A 41 44 30
0x20: 36 33 38 30 49 42 5A 03 00 81 00 00 00 00 04 00
0x30: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF



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

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

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

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

Slot 2:

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

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

WIC Slot 0:
E1 (2 Port) Multi-Flex Trunk WAN Daughter Card
Hardware revision 1.0 Board revision B0



Serial number 22101697 Part number 800-04479-02
FRU Part Number VWIC-2MFT-E1=

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

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

Slot 3:

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

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

VIC Slot 0:

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

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

3745B4_E1#



Acronyms

Acronym	Definitions
ANF-PR	Additional Network Feature Path Replacement
AOC	Advice-of-charge. Information element is sent with the connection setup information for incoming Euro-ISDN connections. The AOC IE is used for call charge calculation.
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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