

Siemens Hipath 4000 Release 1 using ECMA-QSIG to Cisco Unified Communications Manager 5.0

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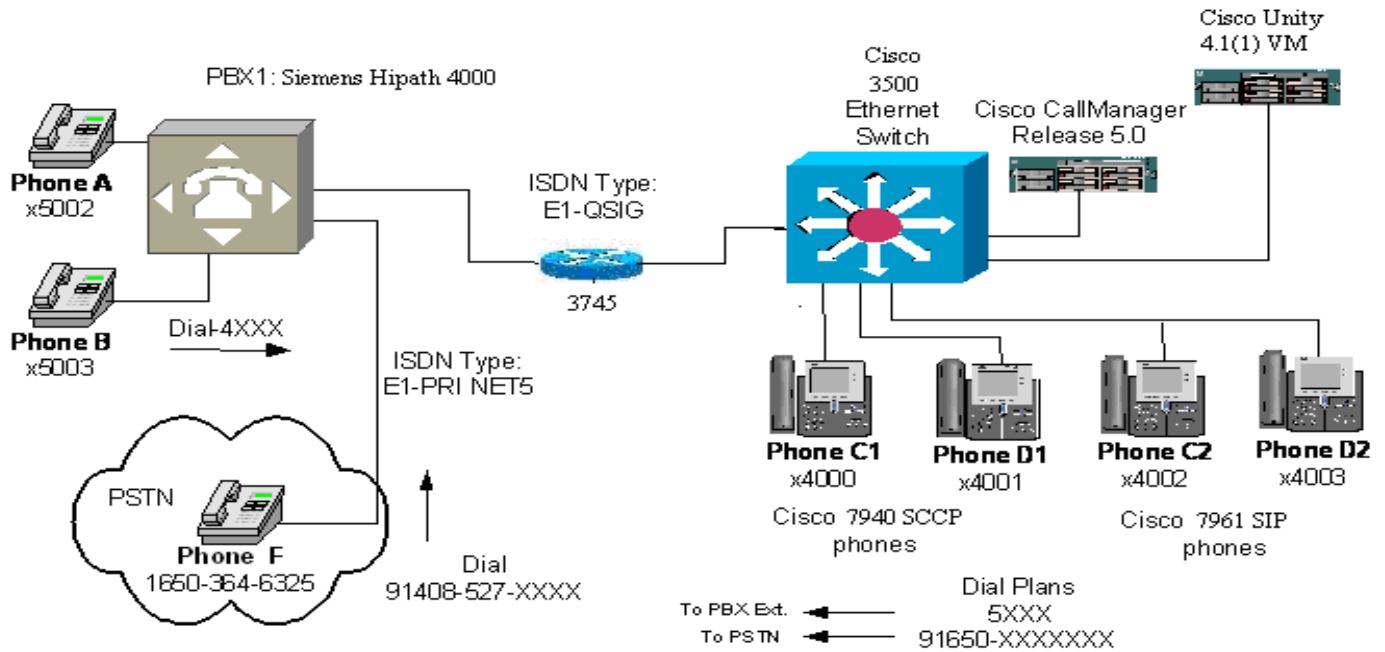
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Introduction

- This is an application note for connectivity of Siemens HiPath 4000 Release 1 PBX with Cisco Unified CallManager Release 5.0 via Cisco 3745 w/ VWIC-2MFT-E1 as MGCP gateway using 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 Cisco3745 w/ VWIC-2MFT-E1 link as MGCP gateway.
- Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway with CallManager Service parameter QSIG variant of ECMA and ECMA1 switch type on the Hipath 4000 PBX.
- This Application Note uses the Cisco 3745 w/ VWIC-2MFT-E1 voice gateway; however other Cisco voice gateways are also an option to use since CallManager QSIG implementation does not depend on the physical interface.

Network Topology

Figure 1. Basic Call Setup



Limitations

B-Channel Mapping

- Siemens HiPath 4000 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**.

Connected Name and Number Restrictions

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

Additional Network Feature Path Replacement for Call Diversion

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



Overlap Sending

- When CCM is configured for Overlap Sending calls made from SIP Phones C2 or D2 (Fig 1) to Siemens Hipath result in the Name and Number not being updated on the SIP phones (Siemens has been verified to be sending both Alerting Name and Connected Name and Number). This interoperability issue is considered a limitation on Cisco Unified 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).

Call Forward No Reply by Join (Local)

- IP Phone 4000 calls Siemens Phone 5002 which performs a CFNR to Siemens Phone 5003. During the Alerting stage of the CFNR, IP Phone displays 'To Private' (Unknown Number). After Siemens 5003 Phone answers IP Phone displays updates to show 'To Private' (5003). In conclusion when Siemens Hipath is configured for ECMA v1, CCM will restrict the name if any received DivertingLegInformation3 has PresentationAllowedIndicator set to false. (DDTS # CSCsc32750 Title: IP Phone fails to update Name after CFNR (Local) has been created to track this issue.

MWI

- When Siemens Hipath is configured for ECMAv1, the APDU sent to activate MWI on any Siemens Digital station from CCM is rejected by the Siemens Hipath for reasons unknown.

System Components

Hardware Requirements

Cisco Hardware:

- Cisco 3500 Ethernet Switch
- Cisco 3745 Gateway
- Cisco Unified CallManager Server

Siemens Hipath 4000 PBX Hardware:

- DIU-N2

Software Requirements

The following software is required:

- Cisco Unified CallManager Release
- PBX software release
- Cisco IOS Release or Cisco CatOS 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) (see limitations)
- CFU-Call Forwarding Unconditional (by Reroute)
- CFB-Call Forwarding Busy (by Reroute)
- CFNR-Call Forwarding No Reply (by Reroute)
- CCBS-Call Completion to Busy Subscriber
- CCNR-Call Completion No Reply
- ANF-PR-Additional Network Feature Path Replacement (for Call Transfer by join)
- ANF-PR-Additional Network Feature Path Replacement (for Call Diversion by forward switching) (see limitations section)
- ANF-PR-Additional Network Feature Path Replacement (for Trombone connection)
- MWI- Message Waiting Indication (lamp ON, lamp OFF) ¹ (see limitations)

Configuration

Configuring the Siemens Hipath 4000

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.

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



31	 *	NAMEKY	
32	 *	PARKKY	
DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS			
CODE	CALL PROGRESS STATE 1 11111 11112 22 0 12345 67890 12345 67890 12	DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
33	 *	CKKY	
34	 *	HTKY	
35	 *	STKY	
36	 *	REMKY	
36 - 37	. **** *	CO	
38	 *	TIMEKY	
39	. **** *	TIE	
4000 - 4050	. **** *	STN	DESTNO 111 DNNO 0- 0-111
4051 - 4566	. **** *	STN	DESTNO 222 DNNO 0- 0-222
4567	. **** *	STN	DESTNO 34 DNNO 0- 0-200
DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS			
CODE	CALL PROGRESS STATE 1 11111 11112 22 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 1 11111 11112 22 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	RESERVED/CONVERT
	1 1111 11112 22			ANALYSIS	DNI/ADD-INFO
	0 12345 67890 12345 67890 12			RESULT	*=OWN NODE

*18	 *			ACOSX	
*19	. * . . .			KNOVR	
*20	 *			ADND	
*25	 *			FWDTERM	
*29	 *		 *	AFFWDVCE	

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

Enbloc Sending Dial Plan, DPLN

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

LDPNO : 4		LDP : 111-X	
		SPC : 22	
		FDSFIELD : 0 SDSFIELD : 0 PINDP : N	

DPLN	LRROUTE	LAUTH	

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

AMO-LDPLN-111 ADMINISTRATION LCR DIALPLAN
 DISPLAY COMPLETED;



Access code for Overlap Sending Dial Plan, DPLN

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

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

H500: AMO LDPLN STARTED

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

AMO-LDPLN-111 ADMINISTRATION LCR DIALPLAN

DISPLAY COMPLETED;

PSTN Dial Plan, DPLN

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

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

H500: AMO LDPLN STARTED

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



AMO-LDPLN-111 ADMINISTRATION LCR DIALPLAN
DISPLAY COMPLETED;

BCSU

PRI Board

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

```
ADDRESS : LTG 1 LTU 3 SOURCE GROUP 1
-----+-----+-----+-----+-----+-----+-----+-----+
PEN | ASSIGNED | MODULE | FCT|HWY| | INSERTED | | MODULE | MODULE |
   | MODULE  | TYPE   | ID |BDL| | MODULE  | STATE| HW-INFO| STATUS  |
-----+-----+-----+-----+-----+-----+-----+
 25 | Q2196-X  | DIU-N2 | 1  A | | Q2196-X  | 1   | -06 -  | READY   |
```

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

PSTN board

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

```
ADDRESS : LTG 1 LTU 2 SOURCE GROUP 1
-----+-----+-----+-----+-----+-----+-----+
PEN | ASSIGNED | MODULE | FCT|HWY| | INSERTED | | MODULE | MODULE |
   | MODULE  | TYPE   | ID |BDL| | MODULE  | STATE| HW-INFO| STATUS  |
-----+-----+-----+-----+-----+-----+-----+
 79 | Q2196-X  | DIU-N2 | 1  A | | Q2196-X  | 1   | -06 -  | READY   |
```

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

Class of Trunk, COT

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

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

AMO-COT -111 CLASS OF TRUNK FOR CALL PROCESSING



DISPLAY COMPLETED;

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

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

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

H06: COT 22 CHANGED

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

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

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

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

Class of Parameter for Device Handler, COP

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

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



TOLL ACCESS:
TRUNK ACCESS

TA

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

Class of Service, COSSU

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

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

AMO-COSSU-111 CLASSES OF SERVICE
DISPLAY COMPLETED;

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

LCOS		LAUTH																								COPIN							
V		1					2					3					4					5					6					NUM	
		1234567890					1234567890					1234567890					1234567890					1234567890					1234						
		>SERVICE INFORMATION																															
1		X.....																								0							
		>LCR ATTENDANT FOR VOICE																															

AMO-COSSU-111 CLASSES OF SERVICE
DISPLAY COMPLETED;



Trunk Group Access Code, BUEND

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

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

AMO-BUEND-111 TRUNK GROUP
DISPLAY COMPLETED;

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

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

AMO-BUEND-111 TRUNK GROUP
DISPLAY COMPLETED;



Trunk Configuration, TDCSU

For Master-side Configuration

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

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

H500: AMO TDCSU STARTED

DIGITAL TRUNK (FORMAT=L)			
DEV	= S2CONN	PEN	= 1-03-025-1
TGRP	= 27		
PROTVAR	= ECMA1	INS	= Y
SRCHMODE	= CIR		
COTNO	= 22	COPNO	= 21
DPLN	= 0		
ITR	= 1	COS	= 32
LCOSV	= 1		
LCOSD	= 1	CCT	= PRI ECMA 4
DESTNO	= 111		
SEGMENT	= 1	DEDSVC	= NONE
FACILITY	=	DEDSVC	=
TRTBL	= GDTR	SRTIDX	=
CBMATTR	= NONE	ATNTYP	= TIE
SUPPRESS	= 0	TCHARG	= N
CHIMAP	= N		
ISDNIP	=	ISDNIP	=
PNPL2P	=	PNPL1P	=
PNPAC	=		
TRACOUNT	= 31	SATCOUNT	= MANY
NNO	= 111		
ALARMNO	= 0	FIDX	= 1
CARRIER	= 1		
ZONE	= EMPTY	COTX	= 22
FWDX	= 5		
DOMTYPE	=	DOMAINNO	=
TPROFNO	=		
INIGHT	=	CCHDL	=
UUSCCX	= 16	UUSCCY	= 8
FNIDX	= 1		
CLASSMRK	= EC & G711	SRCGRP	=
TCCID	=		
BCNEG	= N	BCGR	= 1
LWPAR	= 1		
LWPP	= 0	LWLT	= 0
LWPS	= 0		
LWR1	= 0	LWR2	= 0
SVCDOM	=		
BCHAN	= 1 && 30		

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

AMO-TDCSU-111 DIGITAL TRUNKS
DISPLAY COMPLETED;

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

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

H500: AMO LWPAR STARTED

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

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



For Slave-side Configuration

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

DIGITAL TRUNK (FORMAT=L)					
DEV	= S2CONN	PEN	= 1-03-025-1	TGRP	= 27
PROTVAR	= ECMA1	INS	= Y	SRCHMODE	= CIR
COTNO	= 22	COPNO	= 21	DPLN	= 0
ITR	= 1	COS	= 32	LCOSV	= 1
LCOSD	= 1	CCT	= PRI ECMA 4	DESTNO	= 111
SEGMENT	= 1	DEDSVC	=	DEDSVC	= NONE
FACILITY	=	DITIDX	=	SRTIDX	=
TRTBL	= GDTR	SIDANI	= N	ATNTYP	= TIE
CBMATTR	= NONE	NWMUXTIM	= 10	TCHARG	= N
SUPPRESS	= 0	DGTPR	=	CHIMAP	= N
ISDNIP	=	ISDNIP	=		
PNPL2P	=	PNPL1P	=	PNPAC	=
TRACOUNT	= 31	SATCOUNT	= MANY	NNO	= 111
ALARMNO	= 0	FIDX	= 1	CARRIER	= 1
ZONE	= EMPTY	COTX	= 22	FWDX	= 5
DOMTYPE	=	DOMAINNO	=	TPROFNO	=
INIGHT	=			CCHDL	=
UUSCCX	= 16	UUSCCY	= 8	FNIDX	= 1
CLASSMRK	= EC & G711		& G7290PT	SRCGRP	=
TCCID	=				
BCNEG	= N	BCGR	= 1	LWPAR	= 0
LWPP	= 0	LWLT	= 0	LWPS	= 0
LWR1	= 0	LWR2	= 0		
SVCDOM	=				
BCHAN	= 1 && 30				

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

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

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

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

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



PSTN Trunk Configuration, TDCSU

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

DIGITAL TRUNK (FORMAT=L)			
DEV	= S2CONN	PEN	= 1-02-079-1
TGRP	= 23		
PROTVAR	= ETSI	INS	= Y
COTNO	= 21	COPNO	= 21
ITR	= 1	COS	= 10
LCOSD	= 32	CCT	= PRI ECMA 2
SEGMENT	= 8	DEDSVC	= NONE
FACILITY	=	DITIDX	=
TRTBL	= GDTR	SIDANI	= N
CBMATTR	= NONE	NWMUXTIM	= 10
SUPPRESS	= 0	DGTPR	=
ISDNIP	=	ISDNIP	=
PNPL2P	=	PNPL1P	=
TRACOUNT	= 31	SATCOUNT	= MANY
ALARMNO	= 0	FIDX	= 1
ZONE	= EMPTY	COTX	= 21
DOMTYPE	=	DOMAINNO	=
INIGHT	=	CCHDL	=
UUSCCX	= 16	UUSCCY	= 8
CLASSMRK	= EC & G711	FNIDX	= 1
TCCID	=	SRCGRP	=
BCNEG	= N	BCGR	= 1
LWPP	= 0	LWLT	= 0
LWR1	= 0	LWR2	= 0
SVCDOM	=	LWPAR	= 1
BCHAN	= 1 && 30	LWPS	= 0

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

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

Trunk Configuration to Hicom node, TDCSU

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

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



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

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

AMO-TDCSU-111 DIGITAL TRUNKS
 DISPLAY COMPLETED;

Reference Clock Configuration, REFTA

For Master-side Configuration

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

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

AMO-REFTA-111 REFERENCE CLOCK TABLE
 DISPLAY COMPLETED;

For Slave-side Configuration

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

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

AMO-REFTA-111 REFERENCE CLOCK TABLE
 DISPLAY COMPLETED;



Trunk Least Cost Routing Configuration

LDAT

<DISPLAY-LDAT:TYPE=LCR,LROUTE=1;

DISPLAY-LDAT:TYPE=LCR,LROUTE=1;

H500: AMO LDAT STARTED

-----+-----									
LROUTE = 1		LDPLN		NAME = ROPTCCM			SERVICE = ALL		
TYPE = LCR				DNNO OF ROUTE =			111		
-----+-----									
SERVICE INFO =									
-----+-----									
LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE	CARRIER	ZONE	LATTR	LDSRT
-----+-----									
1	1	27	111	1	*****	1	EMPTY	NONE	
DNNO =		111							
-----+-----									

AMO-LDAT -111 LCR-DIRECTIONS

DISPLAY COMPLETED;

<DISPLAY-LDAT:TYPE=LCR,LROUTE=26;

DISPLAY-LDAT:TYPE=LCR,LROUTE=26;

H500: AMO LDAT STARTED

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

AMO-LDAT -111 LCR-DIRECTIONS

DISPLAY COMPLETED;

<DISPLAY-LDAT:TYPE=LCR,LROUTE=27;

DISPLAY-LDAT:TYPE=LCR,LROUTE=27;

H500: AMO LDAT STARTED

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

AMO-LDAT -111 LCR-DIRECTIONS

DISPLAY COMPLETED;

<DISPLAY-LDAT:TYPE=LCR,LROUTE=165;

DISPLAY-LDAT:TYPE=LCR,LROUTE=165;

H500: AMO LDAT STARTED

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



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

AMO-LDAT -111 LCR-DIRECTIONS
DISPLAY COMPLETED;

RICHT

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

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

AMO-RICT-111 TRUNK ROUTING
DISPLAY COMPLETED;

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

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

AMO-RICT-111 TRUNK ROUTING
DISPLAY COMPLETED;

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

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



AMO-RICHT-111 TRUNK ROUTING
DISPLAY COMPLETED;

PSTN RICHT

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

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

AMO-RICHT-111 TRUNK ROUTING
DISPLAY COMPLETED;

LCR Out-dial Rules, LODR

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

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

H03: THE NEXT FREE ODR IS 2

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

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

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

H03: THE NEXT FREE ODR IS 2

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

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

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



H03: THE NEXT FREE ODR IS 2

AMO-L0DR -111 ADMINISTRATION OF LCR OUTDIAL RULES
DISPLAY COMPLETED;

In-Band DTMF signaling:

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

Name and Number Restrictions:

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

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

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

AMO-SBCSU-111



Configure Digital Station for MWI Application:

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

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

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

AMO-SBCSU-111



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

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

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

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

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

IDX	SAN	NAME	TYPE
1	4005		OTHER

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

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

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

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



```

|-----|-----|-----|-----|
+-----+-----+-----+-----+
AM0-COSSU-111      CLASSES OF SERVICE
DISPLAY COMPLETED;

```

```

<DISPLAY-PERSI:TYPE=NAME,STNO=5002;
DISPLAY-PERSI:TYPE=NAME,STNO=5002;
H500:  AM0 PERSI STARTED

```

STNO	CHRISTIAN AND SURNAME	CHARCON	ORGANIZATIONAL UNIT
5002	HIPATH DT2*		

```

AM0-PERSI-111      PERSONAL IDENTIFICATION DATA
DISPLAY COMPLETED;

```

Configuring the Cisco Unified CallManager

CCM 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)	ISO (Protocol Profile 0x9F)
Caller ID		
Calling Name Not Available Timeout *	2000	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

Gateway Configuration

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



Status

 Status: Ready

Device Information

Product	Cisco MGCP E1 Port
Gateway	3745B4_E1
Device Protocol	Digital Access PRI
Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.221.200
End-Point Name *	S2/DS1-1@3745B4_E1
Description	S2/DS1-1@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

☒ Inhibit restarts at PRI initialization

☐ Enable status poll

☐ Unattended Port

☒ Inhibit restarts at PRI initialization

☐ Enable status poll

☐ Unattended Port

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Call Routing Information - Inbound Calls	
Significant Digits*	All
Calling Search Space	Incoming Trunk
AAR Calling Search Space	< None >
Prefix DN	

Call Routing Information - Outbound Calls	
Calling Party Presentation*	Default
Calling Party Selection*	Originator
Called party IE number type unknown*	National
Calling party IE number type unknown*	National
Called Numbering Plan*	Private
Calling Numbering Plan*	Private
Number of digits to strip*	0
Caller ID DN	
SMDI Base Port*	0

PRI Protocol Type Specific Information	
☐ Display IE Delivery	
☐ Redirecting Number IE Delivery - Outbound	
☐ Redirecting Number IE Delivery - Inbound	
☐ Send Extra Leading Character in Display IE***	
☐ Setup non-ISDN Progress Indicator IE Enable****	
☐ MCDN Channel Number Extension Bit Set to Zero**	
☐ Send Calling Name In Facility IE	
☐ Interface Identifier Present**	
Interface Identifier Value**	0
Connected Line ID Presentation (QSIG Inbound Call)*	Default

UUIE Configuration	
☐ Passing Precedence Level Through UUIE	
Security Access Level*	2

Product Specific Configuration	
Line Coding *	HDB3
Framing *	CRC4
Clock *	External

Save

Delete

Reset



Partition Configuration

Navigation

Cisco Unified CallManager Administration

Go

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 Partition Name begins with Find ☐ Search Within Results
(name begins with any)

Search Results

	Partition Name	Description
☐	Incoming Trunk	Incoming Trunk
☐	Phones	Phones

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

Calling Search Space

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

Logged in as: 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 Name begins with Find ☐ Search Within Results
(name begins with any)

Search Results

	CSS Name	Description	Copy
☐	Incoming Trunk	3745 E1	
☐	Path Replacement CCS	Path Replacement CCS	
☐	Phones	7960 and 7940	

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



Cisco Unified CallManager Administration

For Cisco IP Telecommunication Solutions

Logged in as:CCMAdministrator

System

Call Routing

Media Resources

Voice Mail

Device

Application

User Management

Bulk Administration

Help

Log Off

Calling Search Space Configuration

Related Links: Back To Find/ListGo



Status

 Status: Ready

Calling Search Space Information

Name*Incoming Trunk

Description3745 E1

Route Partitions for this Calling Search Space

Available PartitionsPhones

Selected Partitions
(Ordered by highest priority)Incoming Trunk

Save

Delete

Copy

Add New

Cisco Unified CallManager Administration

For Cisco IP Telecommunication Solutions

Logged in as:CCMAdministrator

System

Call Routing

Media Resources

Voice Mail

Device

Application

User Management

Bulk Administration

Help

Log Off

Calling Search Space Configuration

Related Links: Back To Find/ListGo



Status

 Status: Ready

Calling Search Space Information

Name*Phones

Description7960 and 7940

Route Partitions for this Calling Search Space

Available PartitionsIncoming Trunk

Selected Partitions
(Ordered by highest priority)Phones

Save

Delete

Copy

Add New



Cisco Unified CallManager Administration

For Cisco IP Telecommunication Solutions

Logged in as: CCMAdministrator

System

Call Routing

Media Resources

Voice Mail

Device

Application

User Management

Block Administration

Help

Log Off

Calling Search Space Configuration

Related Links: Back To Find/List

Go

Status

Status: Ready

Calling Search Space Information

Name* Path ReplacementCCS

Description Path ReplacementCCS

Route Partitions for this Calling Search Space

Available Partitions

Selected Partitions
(Ordered by highest priority)

Incoming Trunk
Phones

Save

Delete

Copy

Add New

Enbloc Route Configuration

Find and List Route Patterns

Status

6 records found

Search Options

Find Route Patterns where Pattern begins with

Find

Search Within Results

(numplan.dnorpattern begins with any)

Search Results

	Pattern	Description	Partition	Route Filter	Associated Device	Copy
☐	222	CCM-Vindaloo to Hicom			S2/DS1-0@3745B4_E1	
☐	555	CCM-Vindaloo to Hipath			S2/DS1-1@3745B4_E1	
☐	5XXX	CCM-Vindaloo to Hipath			S2/DS1-1@3745B4_E1	
☐	8XXX	CCM-Vindaloo to Hicom			S2/DS1-0@3745B4_E1	
☐	9.5	CCM-Vindaloo to Hipath			S2/DS1-1@3745B4_E1	
☐	9.8	CCM-Vindaloo to Hicom			S2/DS1-0@3745B4_E1	

Add New

Select All

Clear All

Delete Selected

Rows per Page 50



Route Pattern Configuration

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



Status

Status: Ready

Pattern Definition

Route Pattern*	222
Route Partition	< None >
Description	CCM-Vindaloo to Hicom
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence*	Default
Gateway/Route List*	S2/DS1-0@3745B4_E1 (Edit) Find
Route Option	☒ Route this pattern ☐ Block this pattern No Error
Call Classification*	OffNet
☐ Allow Device Override	☒ Provide Outside Dial Tone
☐ Require Forced Authorization Code	☐ Allow Overlap Sending
Authorization Level*	0
☐ Require Client Matter Code	☐ 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)	

ISDN Network-Specific Facilities Information Element

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



Route Pattern Configuration

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



Status

Status: Ready

Pattern Definition

Route Pattern *	555
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 >	



Cisco Unified CallManager Administration

For Cisco IP Telecommunication Solutions

Logged in as: CCMAdministrator

System

Call Routing

Media Resources

Voice Mail

Device

Application

User Management

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Help

Log Off

Route Pattern Configuration

Related Links: Back To Find/ListGo

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

-- Not Selected --

Service Parameter Name

< Not Exist >

Service Parameter Value

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Route Pattern Configuration

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

Status
 Status: Ready

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

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

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

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

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

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



Overlap Sending Route Pattern Configuration

Route Pattern Configuration

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

Status

Status: Ready

Pattern Definition

Route Pattern*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence*

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

Route Option

☒ Route this pattern

☐ Block this pattern

Call Classification*

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

☐ Require Forced Authorization Code

Authorization Level*

☐ Require Client Matter Code

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation*

Calling Name Presentation*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol

Carrier Identification Code

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



Route Pattern Configuration

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



Status

Status: Ready

Pattern Definition

Route Pattern *	9.8
Route Partition	< None >
Description	CCM-Vindaloo to Hicom
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence *	Default
Gateway/Route List *	S2/DS1-0@3745B4_E1 (Edit) Find
Route Option	☒ Route this pattern ☐ Block this pattern No Error
Call Classification *	OffNet
☐ Allow Device Override	☒ Provide Outside Dial Tone
☐ Require Forced Authorization Code	☒ Allow Overlap Sending
☐ Urgent Priority	
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	PreDot
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	

ISDN Network-Specific Facilities Information Element

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



Translation Pattern for Incoming Calls

Translation Pattern Configuration		Related Links: Back To Find/List Go
  		
Status  Status: Ready		
Pattern Definition		
Translation Pattern	4XXX	
Partition	Incoming Trunk	
Description		
Numbering Plan	< None >	
Route Filter	< None >	
MLPP Precedence*	Default	
Calling Search Space	Phones	
Route Option	☒ Route this pattern ☐ Block this pattern No Error	
☒ Provide Outside Dial Tone ☒ Urgent Priority		
Calling Party Transformations		
☐ Use Calling Party's External Phone Number Mask		
Calling Party Transform Mask		
Prefix Digits (Outgoing Calls)		
Calling Line ID Presentation*	Default	
Calling Name Presentation*	Default	
Connected Party Transformations		
Connected Line ID Presentation*	Default	
Connected Name Presentation*	Default	
Called Party Transformations		
Discard Digits	< None >	
Called Party Transform Mask		
Prefix Digits (Outgoing Calls)		



CLIR Route Pattern Configuration

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System

Call Routing

Media Resources

Voice Mail

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User Management

Block Administration

Help

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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*

Restricted

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

-- Not Selected --

Service Parameter Name

< Not Exist >

Service Parameter Value

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CNIR Route Pattern Configuration

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Block Administration

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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*

Restricted

Connected Party Transformations

Connected Line ID Presentation*

Default

Connected Name Presentation*

Default

Called Party Transformations

Discard Digits

< None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

ISDN Network-Specific Facilities Information Element

Network Service Protocol

-- Not Selected --

Carrier Identification Code

Network Service

-- Not Selected --

Service Parameter Name

< Not Exist >

Service Parameter Value

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COLR Translation Pattern Configuration

Translation Pattern Configuration

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

Status

Status: Ready

Pattern Definition

Translation Pattern: 4XXX

Partition: Incoming Trunk

Description:

Numbering Plan: < None >

Route Filter: < None >

MLPP Precedence*: Default

Calling Search Space: Phones

Route Option:

☒ Route this pattern

☐ Block this pattern: No Error

☒ Provide Outside Dial Tone ☒ Urgent Priority

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask:

Prefix Digits (Outgoing Calls):

Calling Line ID Presentation*: Default

Calling Name Presentation*: Default

Connected Party Transformations

Connected Line ID Presentation*: Restricted

Connected Name Presentation*: Default

Called Party Transformations

Discard Digits: < None >

Called Party Transform Mask:

Prefix Digits (Outgoing Calls):

ISDN Network-Specific Facilities Information Element

Network Service Protocol: -- Not Selected --

Carrier Identification Code:

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



CONR Translation Pattern Configuration

Translation Pattern Configuration		Related Links: Back To Find/List Go
  		
Status  Status: Ready		
Pattern Definition		
Translation Pattern	4XXX	
Partition	Incoming Trunk	
Description		
Numbering Plan	< None >	
Route Filter	< None >	
MLPP Precedence*	Default	
Calling Search Space	Phones	
Route Option	☒ Route this pattern ☐ Block this pattern No Error	
☒ Provide Outside Dial Tone ☒ Urgent Priority		
Calling Party Transformations		
☐ Use Calling Party's External Phone Number Mask		
Calling Party Transform Mask		
Prefix Digits (Outgoing Calls)		
Calling Line ID Presentation*	Default	
Calling Name Presentation*	Default	
Connected Party Transformations		
Connected Line ID Presentation*	Default	
Connected Name Presentation*	Restricted	
Called Party Transformations		
Discard Digits	< None >	
Called Party Transform Mask		
Prefix Digits (Outgoing Calls)		
ISDN Network-Specific Facilities Information Element		
Network Service Protocol	-- Not Selected --	
Carrier Identification Code		
Network Service	Service Parameter Name	Service Parameter Value
-- Not Selected --	< Not Exist >	



MWI lamp On/Off Configuration

Cisco Unified CallManager AdministrationFor Cisco IP Telecommunication Solutions

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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
and where Message Waiting Indicator is
(numplan.dnorpattern begins with any)
 ☐ Search Within Results

Search Results

	Directory Number	Description	Partition	Calling Search Space	Copy
☐	 4038	MWI On		Path ReplacementCCS	
☐	 4039	MWI Off		Path ReplacementCCS	

Rows per Page

Message Waiting Configuration

Related Links:



Status
 Status: Ready

Message Waiting Information
Message Waiting Number*
Partition
Description
Message Waiting Indicator* ☒ On ☐ Off
Calling Search Space

Message Waiting Configuration

Related Links:



Status
 Status: Ready

Message Waiting Information
Message Waiting Number*
Partition
Description
Message Waiting Indicator* ☐ On ☒ Off
Calling Search Space



CallBack Service Parameters

Clusterwide Parameters (Feature - Call Back)		
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: CCMAAdministrator

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

Softkey Template Configuration

Related Links:

Status
 Status: Ready

Softkey Template Information

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

Softkey Template Configuration

Related Links: [Softkey Template Configuration](#) [Go](#)



Status

 Status: Ready

Softkey Layout Configuration

Softkey Template: Standard Feature-CB

Select a call state to configure: [Ring Out](#)

Unselected Softkeys

Undefined (Undefined)

Selected Softkeys (ordered by position)**

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



Softkey Template Configuration

Related Links: [Softkey Template Configuration](#) [Go](#)



Status

 Status: Ready

Softkey Layout Configuration

Softkey Template: Standard Feature-CB

Select a call state to configure: [On Hook](#)

Unselected Softkeys

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

Selected Softkeys (ordered by position)**

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





Path Replacement Service Parameters

Clusterwide Parameters (Feature - Path Replacement)		
Path Replacement Enabled *	True	False
Path Replacement on Tromboned Calls *	True	True
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	

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 >

Associated Call Pickup Group Information	
Find Pickup Numbers by Numbers/Partition	
Partition	< None >
Call Pickup Group Numbers Contain	
Find	
Available Call Pickup Groups	(No Matches Found)
Add to Associated Call Pickup Groups	

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



Forward by Reroute Service Parameter

Clusterwide Parameters (Feature - Forward)		
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

Privacy*	Default
Owner User ID	< None >
Phone Load Name	
☒ Retry Video Call as Audio ☐ 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
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration
SUBSCRIBE Calling Search Space	< None >
☐ Unattended Port ☐ Require DTMF Reception ☐ 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	
☐	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	
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	
Secure Shell Password	

Product Specific Configuration Layout

?

☐ Disable Speakerphone	
☐ Disable Speakerphone and Headset	
PC Port *	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Enabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Disabled
Auto Line Select*	Disabled
Web Access*	Enabled

Directory Number Configuration

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



Status

 Status: Ready

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

Directory Number Information

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

☒ Allow Control of Device from CTI

Associated Devices

SEP000427D3FFF7

[Edit Device](#)

[Edit Line Appearance](#)



Dissociate Devices



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

Call Forward and Call Pickup Settings	
Forward All	☐ or Calling Search Space: Phones
Secondary Calling Search Space for Forward All	< None > Find
Forward Busy Internal	☐ or Phones
Forward Busy External	☐ or Phones
Forward No Answer Internal	☐ or Phones
Forward No Answer External	☐ or Phones
Forward No Coverage Internal	☐ or < None >
Forward No Coverage External	☐ or < None >
Forward on CTI Failure	☐ or < 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 SEP000427D3FFF7	
Display (Internal Caller ID)	Vindaloo-00 Display text for a line appearance is intended for displaying text such as a name instead of a number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)	Vindaloo-00
Line Text Label	Vindaloo-00
ASCII Line Text Label	Vindaloo-00
External Phone Number Mask	
Message Waiting Lamp Policy*	Use System Policy
Ring Setting (Phone Idle)*	Ring
Ring Setting (Phone Active)	Use System Default Applies to this line when any line on the phone has a call in progress.

Multiple Call/Call Waiting Settings on Device SEP000427D3FFF7	
Note: The range to select the Max Number of calls is: 1-200	
Maximum Number of Calls*	4
Busy Trigger*	2 (Less than or equal to Max. Calls)



Forwarded Call Information Display on Device SEP000427D3FFF7

- ☒ Caller Name
- ☐ Caller Number
- ☐ Redirected Number
- ☒ Dialed Number

SIP phone Configuration

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

Status
 Status: Ready

Association Information
[Modify Button Items](#)

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

Phone Type
Product Type: Cisco 7961
Device Protocol: SIP

Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.221.103
MAC Address *	00170EEE2F9E
Description	Auto 4002
Device Pool *	Default
Phone Button Template *	Standard 7961 SIP
Softkey Template	Standard Feature-CB
Common Phone Profile *	Standard Common Phone Profile
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
User Hold Audio Source	< None >
Network Hold Audio Source	< None >
Location *	Hub_None
User Locale	< None >
Network Locale	< None >
Built In Bridge *	Default
Privacy *	Default
Owner User ID	< None >
Phone Load Name	

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



Protocol Specific Information	
Packet Capture Mode *	None
Packet Capture Duration	0
Presence Group *	Standard Presence group
SIP Dial Rules	< None >
MTP Preferred Originating Codec *	711ulaw
SIP Phone Security Profile *	Standard SIP Profile for Auto Registration
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile *	Standard SIP Profile
Digest User	< None >
☐ Media Termination Point Required	
☐ Unattended Port	
☐ Require DTMF Reception	

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

Extension Information	
☐ Enable Extension Mobility	
Log Out Profile	-- Not Selected --
Login in User ID	< None >
Log in Time	< None >
Log out Time	< None >

Certification Authority Proxy Function (CAPF) Information	
Certificate Operation *	No Pending Operation
Authentication String	
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 *	Enabled
Settings Access *	Enabled
Gratuitous ARP *	Enabled
PC Voice VLAN Access *	Enabled
Video Capabilities *	Disabled
Auto Line Select *	Disabled
Web Access *	Enabled
Span to PC Port *	Disabled
Logging Display *	PC Controlled
Load Server	

Directory Number Configuration

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



Status

 Status: Ready

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

Directory Number Information

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

☒ Allow Control of Device from CTI

Associated Devices

SEP00170EEE2F9E

[Edit Device](#)

[Edit Line Appearance](#)



Dissociate Devices



Directory Number Settings		
Voice Mail Profile	< 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	Calling Search Space: Phones
Secondary Calling Search Space for Forward All		< None > Find
Forward Busy Internal	☐ or	Phones
Forward Busy External	☐ or	Phones
Forward No Answer Internal	☐ or	Phones
Forward No Answer External	☐ or	Phones
Forward No Coverage Internal	☐ or	< None >
Forward No Coverage External	☐ or	< None >
Forward on CTI Failure	☐ or	< None >
No Answer Ring Duration (seconds)		
Call Pickup Group	< None >	

MLPP Alternate Party Settings	
Target (Destination)	
MLPP Calling Search Space	< None >
MLPP No Answer Ring Duration (seconds)	

Line 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

Voicemail Profile Configuration

Navigation | Cisco Unified CM

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

Voice Mail Profile Configuration Related Links:

Status
 Status: Ready

Voice Mail Profile Information
Voice Mail Profile Unity (used by 4 devices)
Voice Mail Profile Name*
Description
Voice Mail Pilot**
Voice Mail Box Mask
☒ Make this the default Voice Mail Profile for the System



Voicemail Pilot Configuration

Navigation Cisco Unified Call

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

Voice Mail Pilot Configuration Related Links:



Status
 Status: Ready

Voice Mail Pilot Information

Voice Mail Pilot Number

Calling Search Space

Description

☒ Make this the default Voice Mail Pilot for the system

Voicemail Ports

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

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

Logged in as: CCMAdministrator 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
☐	Vindaloo-VI1	Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-Vindaloo	172.20.239.252	
☐	Vindaloo-VI2	Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-Vindaloo	172.20.239.252	
☐	Vindaloo-VI3	Unity VM	Default	Standard SCCP Profile for Auto Registration	Registered with CM-Vindaloo	172.20.239.252	
☐	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](#) [Go](#)

Status
 Status: Ready

Device Information

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

Directory Number Information

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

Voice Mail Port Configuration

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

Status
 Status: Ready

Device Information

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

Directory Number Information

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



Voice Mail Port Configuration

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



Status

Status: Ready

Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-VI3
Description	Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

Directory Number Information

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

Voice Mail Port Configuration

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



Status

Status: Ready

Device Information

Registration	Registered with Cisco Unified CallManager CM-Vindaloo
IP Address	172.20.239.252
Port Name*	Vindaloo-VI4
Description	Unity VM
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration

Directory Number Information

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



Voicemail Version

Configuration

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

Cisco
Unity

[Log off](#)

Configuration

Software Versions

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



MWI Configuration

Navigation | Cisco Unified CallManager Administration | [Home](#)

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

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

Find and List Message Waiting Numbers

Status
 2 records found

Search Options

Find Message Waiting Numbers where begins with ☐ Search Within Results

and where Message Waiting Indicator is
(numplan.dnorpattern begins with any)

Search Results

	Directory Number	Description	Partition	Calling Search Space	Copy
☐	4038	MWI On		Path ReplacementCCS	
☐	4039	MWI Off		Path ReplacementCCS	

Rows per Page

MWI ON

Navigation | Cisco Unified CallManager Administration | [Home](#)

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*

Partition

Description

Message Waiting Indicator* ☒ On ☐ Off

Calling Search Space



MWI OFF

Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions

Logged in as: CCMAAdministrator

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

Log Off

Message Waiting Configuration

Related Links: Back To Find/List ▾ Go



Status

 Status: Ready

Message Waiting Information

Message Waiting Number*

Partition

< None >

Description

Message Waiting Indicator*☐ On ☒ Off

Calling Search Space

Path ReplacementCCS

Save Delete Copy Add New



Configuring the 3745 Router

sho ver

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

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

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

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

3745B4_E1#

sho run

Building configuration...

Current configuration : 3738 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname 3745B4_E1
!
boot-start-marker
boot system flash:c3745-ipvoice-mz.124-3.bin
boot-end-marker
!
logging buffered 1000000 debugging
!
no aaa new-model
!
resource policy
!
no network-clock-participate slot 1
no network-clock-participate slot 2
voice-card 1
dspfarm
!
voice-card 2
dspfarm
!
ip subnet-zero

```
ip cef
ip tcp synwait-time 13
!
!
no ip dhcp use vrf connected
ip dhcp excluded-address 192.168.10.0 192.168.10.60
ip dhcp excluded-address 192.168.11.0 192.168.11.10
!
ip dhcp pool hq-pool-phones
    network 192.168.10.0 255.255.255.0
    option 150 ip 192.168.10.50
    default-router 192.168.10.1
!
ip dhcp pool hq-pool-data
    network 192.168.11.0 255.255.255.0
    default-router 192.168.11.1
!
!
no ip domain lookup
ip host whiz 171.69.1.162
ip host dirt 171.69.1.129
ip host danube 171.69.17.14
ip host CM-VINDALOO 172.20.221.254
ip name-server 172.20.221.254
ip dhcp-server 192.168.10.1
isdn switch-type primary-net5
!
!
voice call carrier capacity active
!
!
!
!
!
!
!
!
!
!
!
!
!
controller E1 1/0
    pri-group timeslots 1-31 service mgcp
!
controller E1 1/1
    pri-group timeslots 1-31 service mgcp
!
controller E1 2/0
    pri-group timeslots 1-31 service mgcp
!
controller E1 2/1
    pri-group timeslots 1-31 service mgcp
!
!
!
interface FastEthernet0/0
ip address 172.20.221.200 255.255.255.0
duplex auto
speed auto
```



```
!  
interface FastEthernet0/0.10  
encapsulation dot1Q 10  
no snmp trap link-status  
!  
interface FastEthernet0/0.11  
encapsulation dot1Q 11  
ip address 192.168.11.1 255.255.255.0  
no snmp trap link-status  
!  
interface FastEthernet0/1  
no ip address  
shutdown  
duplex auto  
speed auto  
!  
interface Serial1/0:15  
no ip address  
isdn switch-type primary-net5  
isdn incoming-voice voice  
isdn bind-l3 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-l3 ccm-manager  
no cdp enable  
!  
interface Serial2/0:15  
no ip address  
isdn switch-type primary-qsig  
isdn incoming-voice voice  
isdn bind-l3 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
```



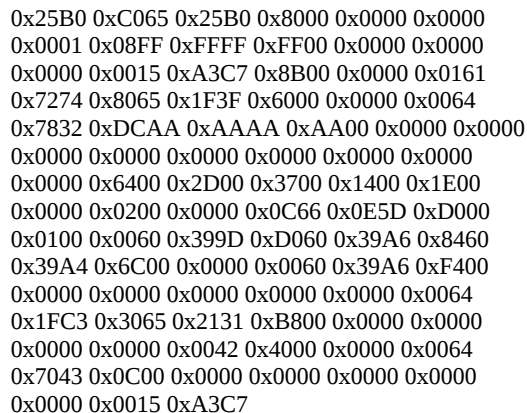
```
port 3/0/0
!
dial-peer voice 999301 pots
service mgcpapp
port 3/0/1
!
dial-peer voice 5 pots
service mgcpapp
!
!
line con 0
line aux 0
line vty 0 4
login
!
!
end
```

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 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
```



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 00 02 03 C1 8B 4A 41 44 30
0x20: 37 30 36 30 4D 37 58 03 00 81 00 00 00 00 04 00
0x30: C8 09 FF FF FF FF FF FF FF FF FF C2 8B 4A 4D 58
0x40: 30 37 31 35 4C 30 38 50 FF FF FF FF FF FF FF FF
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
```

c3700 Mid-Plane EEPROM:

[illegible]



0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D15 0xA3C7 0x8B00 0x0000 0x0061
0x725D 0x1865 0x1F3F 0x60EF 0x4321 0xCD61
0x725F 0xAC0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B 0x0D0B
0x0D0B 0x0D15 0xA3C7

Chassis Serial Number : JMX0715L08P
MAC Address block size : 80
Chassis MAC Address : 000c.30d0.1e50
EEPROM format version 4

EEPROM contents (hex):

0x00: 04 FF 40 03 3E 41 02 00 C0 46 03 20 00 30 01 01
0x10: 42 41 30 80 00 00 00 02 05 C1 8B 53 4D 51 30
0x20: 37 31 30 54 30 33 4E 03 00 81 00 00 00 00 04 00
0x30: C8 09 FF FF FF FF FF FF FF FF C2 8B 4A 4D 58
0x40: 30 37 31 35 4C 30 38 50 43 00 50 C3 06 00 0C 30
0x50: D0 1E 50 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

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 04 00
0x30: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

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

WIC Slot 0:

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

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

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

Slot 2:

High Density Voice Port adapter
Port adapter is analyzed
Port adapter insertion time unknown



EEPROM contents at hardware discovery:

Hardware Revision : 1.1
Top Assy. Part Number : 800-03567-01
Board Revision : E0
Deviation Number : 0-0
Fab Version : 02
PCB Serial Number : JAB043409F7
RMA Test History : 00
RMA Number : 0-0-0-0
RMA History : 00
Product (FRU) Number : NM-HDV=

EEPROM format version 4

EEPROM contents (hex):

0x00: 04 FF 40 00 CC 41 01 01 C0 46 03 20 00 0D EF 01
0x10: 42 45 30 80 00 00 00 02 02 C1 8B 4A 41 42 30
0x20: 34 33 34 30 39 46 37 03 00 81 00 00 00 00 04 00
0x30: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x40: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x50: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x60: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0x70: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

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

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

WIC Slot 0:

E1 (2 Port) Multi-Flex Trunk WAN Daughter Card
Hardware revision 1.0 Board revision B0
Serial number 22101697 Part number 800-04479-02
FRU Part Number VWIC-2MFT-E1=

Test history 0x0 RMA number 00-00-00

Connector type PCI

EEPROM format version 1

EEPROM contents (hex):

0x20: 01 23 01 00 01 51 3E C1 50 11 7F 02 00 00 00 00
0x30: 58 00 00 00 00 09 07 00 FF FF FF FF FF FF FF FF

HDV firmware: Compiled Fri 19-Nov-04 14:23 by michen

HDV memory size 524280 heap free 141761

Slot 3:

4 PORT Voice PM for MARs Port adapter

Port adapter is analyzed

Port adapter insertion time unknown

EEPROM contents at hardware discovery:

Hardware revision 1.1 Board revision H0
Serial number 25100457 Part number 800-02491-02
FRU Part Number: NM-2V=

Test history 0x0 RMA number 00-00-00

EEPROM format version 1

EEPROM contents (hex):

0x00: 01 65 01 01 01 7F 00 A9 50 09 BB 02 00 00 00 00
0x10: 88 00 00 00 01 03 09 17 FF FF FF FF FF FF FF FF



VIC Slot 0:

FXS Voice daughter card (2 port)

Hardware revision 1.1 Board revision B0

Serial number 27635018 Part number 800-02493-04

FRU Part Number VIC-2FXS=

Test history 0x0 RMA number 00-00-00

Connector type Wan Module

EEPROM format version 1

EEPROM contents (hex):

0x20: 01 0E 01 01 01 A5 AD 4A 50 09 BD 04 00 00 00 00

0x30: 58 00 00 00 02 06 22 01 FF FF FF FF FF FF FF FF

3745B4_E1#



Acronyms

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