



Siemens HiPath 4000 Release 3 using E1 ECMA Q.SIG to Cisco Unified Communications Manager 6.0

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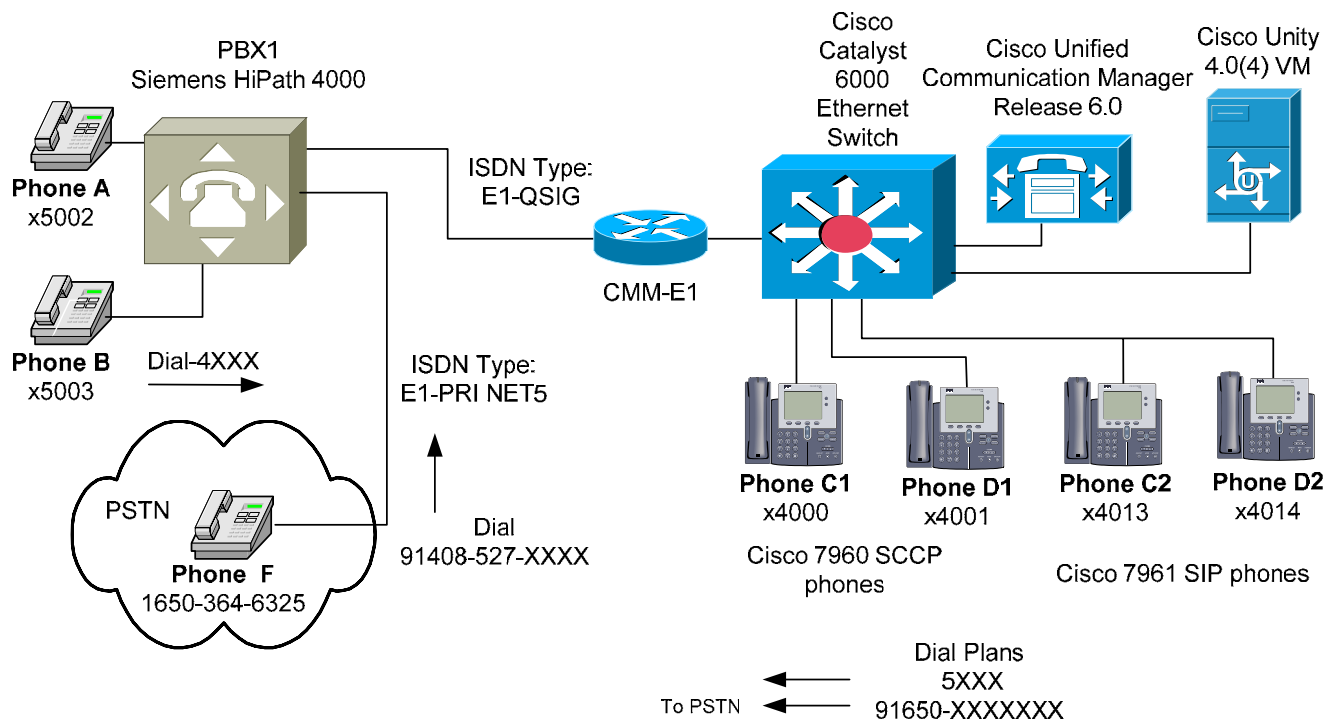
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Introduction

- This is an application note for connectivity of Siemens HiPath 4000 Release 3 PBX with Cisco Unified Communications Manager (CUCM) Release 6.0 via Cisco CMM-E1 as MGCP gateway using ECMA Q.SIG protocol.
- The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified Communications Manager connected to the PBX via Cisco CMM-E1 link as MGCP gateway.
- Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway with Unified Communications Manager Service parameter Q.SIG variant of ECMA and ECMAV1 switch type on the Hipath 4000 PBX.
- This Application Note uses the Cisco CMM-E1 voice gateway, however other Cisco voice gateways are also an option to use since Cisco Unified Communications Manager Q.SIG 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 Q.SIG protocol "ECMA1" is selected, therefore the Cisco CMM-E1 gateway configuration for **Channel IE Type** field should be set to **Timeslot Number**.

Connected Name and Number Restrictions:

- Siemens phone displayed dialed digits when CUCM sends Connected Name and Number as restricted.

Additional Network Feature Path Replacement for Call Diversion by forward switching:

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

Overlap Sending

- When CUCM is configured for Overlap Sending, calls made from SIP Phones C2 or D2 (Fig 1) to Siemens Hipath result in the Name not being updated on the SIP phone during Alerting State (Siemens has been verified to be sending Alerting Name). This interoperability issue is considered a limitation on Cisco Unified Communication Manager and an internal corrective action bug fix ticket has been generated to resolve this issue in future releases. (DDTS # CSCsj51238 Title: SIP Phone fails to display Alerting Name when using OVERLAP Sending).

MWI

- When Siemens Hipath 4000 is configured for ECMAV1 Q.SIG variant, the APDU sent to activate MWI on any Siemens digital station from CUCM is rejected by the Siemens Hipath for reasons unknown.



System Components

Hardware Requirements

Cisco Hardware:

- Cisco 35xx Ethernet Switch
- Cisco CMM-E1 Gateway
- Cisco IP Phones
- Cisco Unified Communication Manager Server

Siemens Hipath 4000 PBX Hardware:

- DIU-N2

Software Requirements

The following software is required:

- Cisco Unified Communication Manager Release 6.0
- PBX software release 3
- Cisco IOS Release 12.4 (for the CMM 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
- Sending Busy Name
- CT-Call Transfer (by join)
- CFU-Call Forwarding Unconditional (by join)
- CFB-Call Forwarding Busy (by join)
- CFNR-Call Forwarding No Reply (by join)
- CFU-Call Forwarding Unconditional (by Reroute)
- CFB-Call Forwarding Busy (by Reroute)



- CFNR-Call Forwarding No Reply (by Reroute)
- CCBS-Call Completion to Busy Subscriber
- CCNR-Call Completion No Reply
- ANF-PR-Additional Network Feature Path Replacement (for Call Transfer by join)
- ANF-PR-Additional Network Feature Path Replacement (for Call Diversion by forward switching) - see limitations section
- ANF-PR-Additional Network Feature Path Replacement (for Trombone connection)
- MWI- Message Waiting Indication (lamp ON, lamp OFF) ¹ - see limitation section

Configuration

Configuring the Siemens HiPath 4000 PBX

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

Configuration Menus and Commands for Hipath 4000

DPLN

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

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

¹ MWI was tested with Communication Manager 6.0 as the Message Center PINX and PBX users as remote subscribers.



CODE	CALL PROGRESS STATE					DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	0	1	11111	11112	22		
0							
001 - 009	*	*****	*****	**	..	CO	R
111		*****	*****	**	..	NETRTE	
12		*****	*****	**	..	TIE	
13 - 14		*****	*****	**	..	TIE	R
21		*****	*****	**	..	TIE	
22		*****	*****	**	..	KNQVRKY	
222		*****	*****	**	..	DNDKY	
23		*****	*****	**	..	TIE	
24		*****	*****	**	..	FWDKY	
25		*****	*****	**	..	MBKY	
26		*****	*****	**	..	MSGRKY	
27		*****	*****	**	..	DAKY	
28		*****	*****	**	..	DSSKY	
29		*****	*****	**	..	VCRKY	
30		*****	*****	**	..	VCKY	
		*****	*****	**	..	CONFKY	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE					DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	0	1	11111	11112	22		
3000 - 3010						STN	DESTNO 30 DNNO 0- 0-222
3011 - 3020						STN	DESTNO 31 DNNO 0- 0- 31
3021 - 3030						STN	DESTNO 32 DNNO 0- 0- 32
3031 - 3040						STN	DESTNO 33 DNNO 0- 0- 33
3041 - 3050						STN	DESTNO 35 DNNO 0- 0- 35
31					*	NAMEKY	
32					*	PARKKY	

DIGIT INTERPRETATION VALID FOR ALL DIAL PLANS

CODE	CALL PROGRESS STATE					DIGIT ANALYSIS RESULT	RESERVED/CONVERT DNI/ADD-INFO *=OWN NODE
	0	1	11111	11112	22		
33					*	CCKY	
34					*	HTKY	
35					*	STKY	
36					*	REMKY	
36 - 37					*	CO	
38					*	TIMEKY	
39					*	TIE	
4000 - 4050					*	STN	DESTNO 111 DNNO 0- 0-111
4051 - 4566					*	STN	DESTNO 222 DNNO 0- 0-222
4567					*	STN	DESTNO 34 DNNO 0- 0-200



DIGIT INTERPRETATION		VALID FOR ALL DIAL PLANS			
CODE		CALL PROGRESS STATE			
		1	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		.	****	*****	**... ..*
560		.	****	*****	**... ..*
59		.	****	*****	**... ..*
6000	- 6009	.	****	*****	**... ..*
					OWNNODE
					TIE
					TIE
					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		.	****	*****	**... ..*
8070		.	****	*****	**... ..*
83		.	****	*****	**... ..*
84		.	****	*****	**... ..*
88		.	.....	*	.....*
89		.	.....	*	.....*
9		.	****	*****	**... ..*
*13		.	.....	*	.....*
*15		.	*	.....	**... ..*
*16		.	.....	*	.....*
*17		.	*	.....	**... ..*
					TIE
					AHTVCE
					SPLIT
					AREM
					TRACE
					SCONSI
					SCONSCO
					R
					R
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
*18		.	.....	*	.....*
*19		.	*	.....	.....*
*20		.	.....	*	.....*
*25		.	.....	*	.....*
*29		.	.....	*	.....*
					ACOSX
					KNOVR
					ADND
					FWDTERM
					AFFWDVCE

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

Enbloc Sending Dial Plan, DPLN



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

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

AMO-LDPLN-111 ADMINISTRATION LCR DIALPLAN
DISPLAY COMPLETED;



Access code for Overlap Sending Dial Plan, DPLN

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

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

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

PSTN Dial Plan, DPLN

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

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



AMO-LDPLN-111 ADMINISTRATION LCR DIALPLAN
DISPLAY COMPLETED;

BCSU

PRI Board

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

```
ADDRESS : LTG 1 LTU 3 SOURCE GROUP 1
-----+-----+-----+-----+-----+-----+-----+-----+
| ASSIGNED | MODULE | FCT | HWY | | INSERTED | | | | MODULE |
PEN | 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
-----+-----+-----+-----+-----+-----+-----+-----+
| ASSIGNED | MODULE | FCT | HWY | | INSERTED | | | | MODULE |
PEN | 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 (AUTOMATIC OR ON REQUEST), MAND. CORNET-NQ	AOCC
LINE WITH IMPLICIT NUMBERS	LINO
NO TONE	NTON

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

Class of Parameter for Device Handler, COP

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

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



CO TRUNK ACCESS:
TRUNK ACCESS

TA

TOLL ACCESS:
TRUNK ACCESS

TA

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

Class of Service, COSSU

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

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

AMO-COSSU-111 CLASSES OF SERVICE
DISPLAY COMPLETED;

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

LCOS	1	2	3	4	5	6	COPIN
V	1234567890123456789012345678901234567890123456789012345678901234	1234567890123456789012345678901234567890123456789012345678901234	1234567890123456789012345678901234567890123456789012345678901234	1234567890123456789012345678901234567890123456789012345678901234	1234567890123456789012345678901234567890123456789012345678901234	1234567890123456789012345678901234567890123456789012345678901234	NUM
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	=	DEDSVC	= NONE
FACILITY	=	DITIDX	=	SRTIDX	=
TRTBL	= GDTR	SIDANI	= N	ATNTYP	= TIE
CBMATR	= NONE	NWMUXTIM	= 10	TCHARG	= N
SUPPRESS	= 0	DGTPR	=	CHIMAP	= N
ISDNIP	=	ISDNNP	=		
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	= 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
CBMATR	= 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			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	=	ISDNNP	=
PNPL2P	=	PNPL1P	=
TRACOUNT	= 31	SATCOUNT	= MANY
ALARMNO	= 0	FIDX	= 1
ZONE	= EMPTY	COTX	= 21
DOMTYPE	=	DOMAINNO	=
INIGHT	=	TPROFNO	=
UUSCCX	= 16	UUSCCY	= 8
CLASSMRK	= EC & G711		= & G729OPT
TCCID	=	SRCHMODE	= CIR
		DPLN	= 0
		LCOSV	= 32
		DESTNO	= 100
		DEDSVC	= NONE
		SRTIDX	=
		ATNTYP	= TIE
		TCHARG	= N
		CHIMAP	= N
		PNPAC	=
		NNO	= 1
		CARRIER	= 1
		FWDX	= 10
		CCHDL	=
		FNIDX	= 1
		SRCGRP	=
BCNEG	= N	BCGR	= 1
LWPP	= 0	LWLT	= 0
LWR1	= 0	LWR2	= 0
SVCDOM	=		
BCHAN	= 1 && 30		

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

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

Trunk Configuration to Hicom node, TDCSU

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

DIGITAL TRUNK (FORMAT=L)			
DEV	= S2CONN	PEN	= 1-03-025-0
TGRP	= 26		
PROTVAR	= PSS1V2	INS	= Y
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	=	ISDNNP	=
PNPL2P	=	PNPL1P	=
TRACOUNT	= 31	SATCOUNT	= MANY
ALARMNO	= 0	FIDX	= 1
ZONE	= EMPTY	COTX	= 22
DOMTYPE	=	DOMAINNO	=
		TPROFNO	=
		SRCHMODE	= CIR
		DPLN	= 0
		LCOSV	= 1
		DESTNO	= 222
		DEDSVC	= NONE
		SRTIDX	=
		ATNTYP	= TIE
		TCHARG	= N
		CHIMAP	= N
		PNPAC	=
		NNO	= 222
		CARRIER	= 1
		FWDX	= 10



INIGHT	=				CCHDL	=	
UUSCCX	=	16		UUSCCY	=	8	
CLASSMRK	=	EC	& G711	& G7290PT	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

AM0-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: AM0 REFTA STARTED

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

AM0-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: AM0 REFTA STARTED

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

AM0-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				DNN OF ROUTE =			111								
|	SERVICE INFO =															
-----+-----																
|	LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE	CARRIER									
|						ABCDEFGH	ZONE	LATTR	LDSRT							
-----+-----																
|	1	1	27	111	1	*****	1	EMPTY	NONE							
|	DNN OF ROUTE =		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				DNN OF ROUTE = 111					
SERVICE INFO =									
-----+-----									
LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE	CARRIER		LATTR	LDSRT
					ABCDEFGH	ZONE			
-----+-----									
1	1	26	15	3	*****	1	EMPTY	NONE	
-----+-----									

AMO-LDAT -111 LCR-DIRECTIONS

DISPLAY COMPLETED;

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

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

H500: AMO LDAT STARTED

-----+-----																
|	LROUTE = 27		LDPLN		NAME = PRI 4 ECMA1			SERVICE = ALL								
|	TYPE = LCR				DNN OF ROUTE =			111								
|	SERVICE INFO =															
-----+-----																
|	LRTEL	LVAL	TGRP	ODR	LAUTH	SCHEDULE	CARRIER									
|						ABCDEFGH	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				DNN 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 =	
DTMFPULS =	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-RICHT-111 TRUNK ROUTING
DISPLAY COMPLETED;

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

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

AMO-RICHT-111 TRUNK ROUTING
DISPLAY COMPLETED;

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

LRTE = 27	NAME = PRI 4 ECMA1	(NEUTRAL)	LSVC = ALL
DNNO = 111	PDNNO = 0		
ROUTOPT = YES	REROUT = YES	PLB = NO	FWDBL = NO
DTMFCNV = FIX	DTMFDSP = WITHOUT	DTMFTEXT =	
DTMFPULS = PP300	BUGS = LIN	ROUTATT = NO	MAINGRP = 15
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-LODR -111 ADMINISTRATION OF LCR OUTDIAL RULES
DISPLAY COMPLETED;

In-Band DTMF signaling:

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

Name and Number Restrictions:

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

```
<dis-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
SSTNO    =Y          PERMACT =          LCOSD1   =6
TRACE    =N          EXTBUS  =          LCOSD2   =6
ALARMNO  =0          DFSVCANA=          CBKBMAX  =5
HMUSIC   =0          FLASH   =          RCBKB    =N
PMIDX    =0          SPDI     =0        RCBKNA   =N
                                SPDC1    =          CBKNAMB  =Y
                                SPDC2    =
                                COMGRP   =0
SECR     =N          DIGNODIS=N      DSSTNA   =N
STD      =55         CALLOG  =NONE    DSSTNB   =Y
                                TEXTSEL  =ENGLISH
REP      =0          OPTICOM =N        OPTIUSB  :0
IDCR     =N          OPTICA  =1        OPTIS0A  :
                                OPTISPA  :0
                                OPTIABA  :0
                                VPI       =
                                VCI       =
                                PATTERN  =
DCFWBUSY=N          HEADSET =N        APICLASS=
DNIDSP   =N          HSKEY   =NORMAL   ACFAPPL =0
DTMFBLK  =N          BASICSVC=
DTMFCTRD=Y          TSI      =1        IPPASSW  =
DVCFIG   =OPTIP500  SPROT   =          SOPTIDX  =
                                DPROT    =          DOPTIDX  =
                                FPROT    =          FOPTIDX  =
----- ACTIVATION IDENTIFIERS FOR FEATURES -----
FWDS     :N          HTOS     :N        DND      :N
FWDD     :N          HTOD     :N        VCP      :Y          TWLOGIN  :N
FWDF     :N          HTOF     :N        CWT      :N
----- FEATURES AND GROUP MEMBERSHIPS -----
PUGR     :          ESSTN    :
KEYSYS   :N          NOPTNO  :
HUNT CD  :N
----- SUBSCRIBER ATTRIBUTES (AMO SDAT) -----
NONE
-----
```

AMO-SBCSU-111



Configure Digital Station for MWI Application:

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

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

```
----- USER DATA -----  
STNO    =5002      OPT    =OPTI      COS1    =2        DPLN    =1  
MAIN0   =5002      CONN    =DIR      COS2    =2        ITR     =1  
PEN     = 1- 3- 31- 2      LCOSV1   =6        COSX    =0  
INS     =Y         ASYNCT   =500      LCOSV2   =6  
                PERMACT  =        LCOSD1   =6  
SSTNO   =N         EXTBUS   =        LCOSD2   =6        CBKBMAX =5  
TRACE   =N                                RCBKB    =N  
ALARMNO =0         DFSVCANA=        SPDI     =0        RCBKNA   =N  
HMUSIC  =0         FLASH    =        SPDC1    =        CBKNAMB  =Y  
PMIDX   =1                                SPDC2    =  
                COMGRP   =0  
SECR    =N         DIGNODIS=N      DSSTNA   =N  
STD     =55        CALLOG   =NONE     DSSTNB   =Y        TEXTSEL  =ENGLISH  
REP     =0         OPTICOM  =N        OPTIUSB  :0        VPI      =  
IDCR    =N         OPTICA   =1        OPTIS0A  :        VCI      =  
                OPTIDA   =        OPTISPA  :0        PATTERN  =  
                OPTIABA  :0  
DCFWBUSY=N        HEADSET  =N        APICLASS=  
DNIDSP  =N        HSKEY    =NORMAL    ACFAPPL  =0  
DTMFBLK =N                                IPPASSW   =  
DTMFCTR =Y        BASICSVC=        SPROT    =        SOPTIDX  =  
DVCFIG  =OPTIP500 TSI      =1        DPR0T    =        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 Cisco Communication Manager side, the PBX needs to configure an identifier for the Message Center's Service Access Number in order for the MWI light to work. Without this identifier the MWI light will not work.

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

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

```
<DISP-RICHT
```

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

IDX	SAN	NAME	TYPE
1	4005		OTHER

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

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

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

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

STNO	CHRISTIAN AND SURNAME	CHARCON	ORGANIZATIONAL UNIT
5002	HIPATH DT2*		

AM0-COSSU-111 CLASSES OF SERVICE
 DISPLAY COMPLETED;

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

AM0-PERSI-111 PERSONAL IDENTIFICATION DATA
 DISPLAY COMPLETED;

Siemens HiPath 4000 Software Release

```

<dis-dbc:verbose=n;
DIS-DBC:VERBOSE=N;
H500: AMO DBC   STARTED
+-----+
| SYSTEM CLASSIFICATION   : SYSTEM 80           (H80   )
| HARDWARE ASSEMBLY       : EXTENDED COMPACT CXE (CXE   )
| OPERATING MODE          : SIMPLEX
| RESTART TYPE            : SYM
| HW-ARCHITECTURE         : 4300
| HW-ARCHITECTURE TYPE    : 2
|
| 'NO OF' HW VALUES
|   LTG'S       :    1   LTU'S       :    4   LOG.LINES : 12000   MTS BD /GSN:    1
|   SIUP'S/LTU  :    4   TMD24'S PER LTU:    4   PHYS.PORTS:  6000   HWY /MTS BD:   64
|   HDLC /DCL   :    5   PBC /DCL    :    1   PBC'S      :    17
| LOG. SIU LINES           :    26
| LOG. CONF LINES         :    35
| LOG. DCL LINES          :    36
| DB DIMENSIONING-NAME    : SMALL                CONF-TABLE VERSION:    1
| DB SUSY'S:
|   SWITCH NUMBER : L31903Q1930A00001
| LOCATION        : CUSTOMER
| BAPPL           : BSMONO
| DBAPPL          : DBSMALL
| SYSTEM_ID       :
|
| OVERLAY RESOURCES IN ADP:
|   SLOTS         : 1000   MEMORY SPACE : 2000 KB
| OVERLAY RESOURCES IN SWU:
|   SLOTS         : 1000   MEMORY SPACE : 2000 KB
| OVERLAY RESOURCES BEI MONO PROCESSING:
|   SLOTS         :   400   MEMORY SPACE : 3000 KB
+-----+

AMO-DBC   -111      DATABASE CONFIGURATION
DISPLAY COMPLETED;

<disp-vegas:list=long;
DISP-VEGAS:LIST=LONG;
H500: AMO VEGAS STARTED
      SYSTEM NO.      AMO      APS NO.      START      USER      STATUS

```



```
SWU: L31903Q1930A00001 --- P30252B4500B00105 00.00.00 00:00 NOBODY FREE
      SWU RES CODE APS: P30252B4500S00105 (DIR FILE: :PDS:APSI/PS/S0-EM0SC)
      SWU AMO CODE APS: P30252B4500B00105 (DIR FILE: :PDS:APSI/PS/B0-EM0BC)
      SWU AMO TEXT APS: P30252B4500B00105 (DIR FILE: :PDS:APSI/PS/B0-EM0BC)
      BREAK MARK : NO
      RESERVATION : NO
ADS: L31903Q1930A00001 --- P30252B4500A00105 00.00.00 00:00 NOBODY FREE
      ADS RES CODE APS: P30252B4500D00105 (DIR FILE: :PDS:APSI/PS/D0-EM0DC)
      ADS AMO CODE APS: P30252B4500A00105 (DIR FILE: :PDS:APSI/PS/A0-EM0AC)
      ADS AMO TEXT APS: P30252B4500A00105 (DIR FILE: :PDS:APSI/PS/A0-EM0AC)
      BREAK MARK : NO
      RESERVATION : NO
```

```
AMO-VEGAS-111 ADMIN. OF DATABASE GENERATION RUNS ON SUPPORT SYSTEM
DISPLAY COMPLETED;
```

```
<DISPLAY-APS:ANS=Y,TYPE=PSALL,SP="Y0-EM0YC";
DISPLAY-APS:ANS=Y,TYPE=PSALL,SP="Y0-EM0YC";
H500: AMO APS STARTED
ADINIT STARTED
PROGRAM SYSTEM : Y0-EM0YC
VERSION NUMBER : 10
CORRECTION VERSION NUMBER : 001
PART NUMBER : P30252N4505B00005
PROGRAM SYSTEM WITH CODE SUBSYSTEMS
INTERFACE VERSION:
PROGRAM SYSTEM DOES NOT CONTAIN ANY INTERFACE VERSIONS

ADINIT COMPLETED
STATUS = H'0000
AMO-APS -111 SOFTWARE LOAD UPGRADE
DISPLAY COMPLETED;
```



Configuring the Cisco Unified Communication Manager

CUCM ECMA Service Parameter Configuration.

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Service Parameter Configuration Related Links: Parameters for All Servers

Clusterwide Parameters (Device - PRI and MGCP Gateway)

ASN.1 ROSE OID Encoding *	Use Global Value (ECMA)	<input checked="" type="button" value="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 - Defau	CallManager sets the screening indicator value - Default setting
Change B-Channel Maintenance Status 1		
Change B-Channel Maintenance Status 2		
Change B-Channel Maintenance Status 3		
Change B-Channel Maintenance Status 4		
Change B-Channel Maintenance Status 5		
Clear Calls Flag When Datalink Is Down *	<input checked="" type="button" value="True"/>	False
Database MGCP Device Request Timer *	5	5
Device Status Poll Interval *	3000	3000
Disable Alerting Progress Indicator *	<input checked="" type="button" value="False"/>	True
Discard Non Inband Progress in Overlap Sending *	<input checked="" type="button" value="False"/>	True
Disable Resume from Shared-line MGCP FXS Port *	<input checked="" type="button" value="True"/>	False
DTMF Silence Tone Flag *	<input checked="" type="button" value="False"/>	True
Enable Display IE in Codeset 6 *	<input checked="" type="button" value="False"/>	True
Enable Sending PRI NI2 Service Message *	<input checked="" type="button" value="False"/>	True
Flash Hook Duration *	500	500
Gateway Poll Timer *	10	10
Location In PRI Progress Indicator IE (User Side Only) *	Use the Network Side PRI progress indicator IE	<input checked="" type="button" value="Use the Network Side PRI progress indicator IE"/>
Matching Calling Party with Attendant Flag *	<input checked="" type="button" value="False"/>	True
MGCP Database Query Delay Timer *	1000	1000
MGCP FXS On-Hook Pending Timer *	3	3
MGCP Response Timer *	30	30
MGCP Timer *	3	3



CUCM Version

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Cisco Unified CM Administration

System version: 6.0.1.1000-37



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CMM-E1 Gateway Configuration

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Gateway Configuration Related Links:

Status
 Status: Ready

Gateway Details
Product Communication Media Module
Gateway VENUS-CMM-E1
Protocol MGCP
Domain Name*
Description
Cisco Unified Communications Manager Group*

Configured Slots, VICs and Endpoints
Module in Slot 1
Subunit 0 1/ 0 1/ 1 1/ 2 1/ 3 1/ 4 1/ 5
Module in Slot 2
Subunit 0 2/ 0 2/ 1 2/ 2 2/ 3 2/ 4 2/ 5
Module in Slot 3
Module in Slot 4

Product Specific Configuration Layout
Global ISDN Switch Type
Switchback Timing*
Switchback uptime-delay (min)
Switchback schedule (hh:mm)
Fax mode*

*- indicates required item.



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Gateway Configuration Related Links: Back to MGCP Configuration Go

Save Delete Reset

Status
Status: Ready

Device Information
Product Cisco MGCP E1 Port
Gateway VENUS-CMM-E1
Device Protocol Digital Access PRI
Registration Registered with Cisco Unified Communications Manager CM-VENUS
IP Address 172.20.214.51
End-Point Name * S2/DS1-0@VENUS-CMM-E1
Description CM-VENUS to Hipath
Device Pool* Default
Common Device Configuration < None >
Call Classification* Use System Default
NetworkLocale United States
Media Resource Group List MRGL-CM-VENUS
Location* Hub_None
AAR Group < None >
Load Information
☐ Transmit UTF-8 for Calling Party Name

Multilevel Precedence and Preemption (MLPP) Information
MLPP Domain < None >
MLPP Indication Not available on this device
MLPP Preemption Not available on this device

Interface Information
PRI Protocol Type* PRI ISO QSIG E1
Protocol Side* User
Channel Selection Order* Top Down
Channel IE Type* Timeslot Number
PCM Type* A-law



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Gateway Configuration Related Links: Back to MGCP Configuration Go

Save Delete Reset

Delay for first restart (1/8 sec ticks)*

Delay between restarts (1/8 sec ticks)*

☒ Inhibit restarts at PRI initialization

☐ Enable status poll

☐ Unattended Port

Call Routing Information - Inbound Calls

Significant Digits* All

Calling Search Space Incoming Trunk

AAR Calling Search Space < None >

Prefix DN

Call Routing Information - Outbound Calls

Calling Party Presentation* Default

Calling Party Selection* Originator

Called party IE number type unknown* Unknown

Calling party IE number type unknown* Unknown

Called Numbering Plan* Private

Calling Numbering Plan* Private

Number of digits to strip* 0

Caller ID DN

SMDI Base Port*

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****



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Gateway Configuration Related Links: Back to MGCP Configuration Go

Save Delete Reset

☐ Setup non-ISDN Progress Indicator IE Enable***

☐ MCDN Channel Number Extension Bit Set to Zero**

☐ Send Calling Name In Facility IE

☐ Interface Identifier Present**

Interface Identifier Value**

Connected Line ID Presentation (QSIG Inbound Call)*

UUIE Configuration

☐ Passing Precedence Level Through UUIE

Security Access Level*

Product Specific Configuration Layout

Line Coding*

Framing*

Clock*

Input Gain (-6..14 db)*

Output Attenuation (-6..14 db)*

Echo Cancellation Enable*

Echo Cancel Coverage (ms)*

Save Delete Reset

*- indicates required item.

** - applies to DMS-100 protocol only.

*** - applies to DMS-100 protocol and DMS-250 protocol only.

**** - may be required to force ringback from some PBXs.

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



Partition Configuration

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Find and List Partitions

Add New Select All Clear All Delete Selected

Status

2 records found

Partition (1 - 2 of 2)

Rows per Page 50 ▾

Find Partition where Name ▾ begins with ▾

Find Clear Filter

☐	Partition Name ^	Description
☐	Incoming Trunk	Incoming Trunk
☐	Phones	Phones

Add New Select All Clear All Delete Selected



Calling Search Space

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Find and List Calling Search Spaces

[+ Add New](#) [Select All](#) [Clear All](#) [Delete Selected](#)

Status
 3 records found

Calling Search Space (1 - 3 of 3) Rows per Page 50 ▾

Find Calling Search Space where CSS Name ▾ begins with ▾ [Find](#) [Clear Filter](#) [+](#) [-](#)

☐	CSS Name ^	Description	Copy
☐	Incoming Trunk		
☐	PathReplacementCSS		
☐	Phones		

[Add New](#) [Select All](#) [Clear All](#) [Delete Selected](#)



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

Save Delete Copy Add New

Status
 Status: Ready

Calling Search Space Information
Name* Incoming Trunk
Description

Route Partitions for this Calling Search Space
Available Partitions**
Phones
Selected Partitions
Incoming Trunk

Save Delete Copy Add New

*- indicates required item.
 **Selected Partitions are ordered by highest priority



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

Save Delete Copy Add New

Status

Status: Ready

Calling Search Space Information

Name* Phones

Description

Route Partitions for this Calling Search Space

Available Partitions**

Incoming Trunk

Selected Partitions

Phones

▼ ▲

Save Delete Copy Add New

*- indicates required item.

**Selected Partitions are ordered by highest priority



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

Save Delete Copy Add New

Status
 Status: Ready

Calling Search Space Information
Name* PathReplacementCSS
Description

Route Partitions for this Calling Search Space
Available Partitions**
Selected Partitions

Incoming Trunk Phones

Save Delete Copy Add New

*- indicates required item.
 **Selected Partitions are ordered by highest priority

Enbloc Route Configuration



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

Save Delete Copy Add New

Pattern Definition

Route Pattern*
5XXX

Route Partition
< None >

Description
CM-VENUS to Siemens Hipath

Numbering Plan
-- Not Selected --

Route Filter
< None >

MLPP Precedence*
Default

Gateway/Route List*
S2/DS1-0@VENUS-CMM-E1 (Edit)

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 >



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

Save Delete Copy Add New

Pattern Definition

Route Pattern*
555

Route Partition
< None >

Description
CM-VENUS to Siemens Hipath

Numbering Plan
-- Not Selected --

Route Filter
< None >

MLPP Precedence*
Default

Gateway/Route List*
S2/DS1-0@VENUS-CMM-E1 (Edit)

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 >



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

Save Delete Copy Add New

Pattern Definition

Route Pattern*

8XXX

Route Partition

< None >

Description

CM-VENUS to Siemens Hicom

Numbering Plan

-- Not Selected --

Route Filter

< None >

MLPP Precedence*

Default

Gateway/Route List*

S2/DS1-1@VENUS-CMM-E1

(Edit)

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 >

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

Save Delete Copy Add New

Pattern Definition

Route Pattern*222

Route Partition< None >

DescriptionCM-VENUS to Siemens Hicom

Numbering Plan-- Not Selected --

Route Filter< None >

MLPP Precedence*Default

Gateway/Route List*S2/DS1-1@VENUS-CMM-E1 (Edit)

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 >



Overlap Sending Route Pattern Configuration

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

Save Delete Copy Add New

Pattern Definition

Route Pattern*
9.5

Route Partition
< None >

Description
Ovlp sending CM-VENUS to Siemens Hipath

Numbering Plan
-- Not Selected --

Route Filter
< None >

MLPP Precedence*
Default

Gateway/Route List*
S2/DS1-0@VENUS-CMM-E1 [\(Edit\)](#)

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
PreDot

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PSTN Route Pattern Configuration

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

Save Delete Copy Add New

Pattern Definition

Route Pattern*
91650364XXXX

Route Partition
< None >

Description
PSTN gateway

Numbering Plan
-- Not Selected --

Route Filter
< None >

MLPP Precedence*
Default

Gateway/Route List*
S2/DS1-0@VENUS-CMM-E1 (Edit)

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 >



Translation Pattern for Incoming Calls

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

Save Delete Copy Add New

Pattern Definition

Translation Pattern

40XX

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

Save Delete Copy Add New

Pattern Definition

Route Pattern*

5XXX

Route Partition

< None >

Description

CM-VENUS to Siemens Hipath

Numbering Plan

-- Not Selected --

Route Filter

< None >

MLPP Precedence*

Default

Gateway/Route List*

S2/DS1-0@VENUS-CMM-E1

[\(Edit\)](#)

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 >



CNIR Route Pattern Configuration

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

Save Delete Copy Add New

Pattern Definition

Route Pattern*
5XXX

Route Partition
< None >

Description
CM-VENUS to Siemens Hipath

Numbering Plan
-- Not Selected --

Route Filter
< None >

MLPP Precedence*
Default

Gateway/Route List*
S2/DS1-0@VENUS-CMM-E1 [\(Edit\)](#)

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 >



COLR Translation Pattern Configuration

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

Save Delete Copy Add New

Pattern Definition

Translation Pattern

40XX

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)



CONR Translation Pattern Configuration

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Save Delete Copy Add New

Pattern Definition

Translation Pattern

40XX

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)



MWI lamp On/Off Configuration

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

Save Delete Copy Add New

Status
 Status: Ready

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

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

*- indicates required item.

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

Save Delete Copy Add New

Status
 Status: Ready

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

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

*- indicates required item.





Voice Mail Profile Configuration

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

Save Delete Copy Reset Add New

Status
 Status: Ready

Voice Mail Profile Information
Voice Mail Profile Unity2 (used by 12 devices)
Voice Mail Profile Name*
Description
Voice Mail Pilot**
Voice Mail Box Mask
☒ Make this the default Voice Mail Profile for the System

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



Voice Mail Pilot Configuration

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

Save Delete Add New

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

*- indicates required item.



Voice Mail Ports List

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Find and List Voice Mail Ports

Add New Select All Clear All Delete Selected Reset Selected

Status
 2 records found

Voice Mail Port (1 - 2 of 2) **Rows per Page** 50 ▾

Find Voice Mail Port where **Device Name** ▾ begins with ▾ **Find** **Clear Filter**
 Select item or enter search text ▾

☐	Device Name ^	Description	Device Pool	Device Security Mode	Calling Search Space	Ext.	Partition	Status	IP Address	Copy
☐	Unity2-VI1	Unity Integration	Default	Non Secure Voice Mail Port	Phones	2900	Phones	Registered with CM-VENUS	172.20.214.250	
☐	Unity2-VI2	Unity Integration	Default	Non Secure Voice Mail Port	Phones	2901	Phones	Registered with CM-VENUS	172.20.214.250	

Add New **Select All** **Clear All** **Delete Selected** **Reset Selected**



Voice Mail Port Configuration

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Voice Mail Port Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Status
 Status: Ready

Device Information
Registration Registered with Cisco Unified Communications Manager CM-VENUS
IP Address 172.20.214.250
Port Name* Unity2-VI1
Description Unity Integration
Device Pool* Default ▾
Common Device Configuration MigratedCommonDeviceConfig1 ▾
Calling Search Space Phones ▾
AAR Calling Search Space < None > ▾
Location* Hub_None ▾
Device Security Mode* Non Secure Voice Mail Port ▾

Directory Number Information
Directory Number* 2900
Partition Phones ▾
Calling Search Space Phones ▾
AAR Group < None > ▾
Internal Caller ID Display VoiceMail
Internal Caller ID Display (ASCII format) VoiceMail
External Number Mask

Save Delete Copy Reset Add New

*- indicates required item.



CallBack Service Parameters

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

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

Clusterwide Parameters (Feature - Call Recording)

[Play Recording Notification Tone To Observed Target](#) *

False

False

[Play Recording Notification Tone To Observed Connected Parties](#) *

False

False

Clusterwide Parameters (Feature - Monitoring)

[Play Monitoring Notification Tone To Observed Target](#) *

False

False

[Play Monitoring Notification Tone To Observed Connected Parties](#) *

False

False

Clusterwide Parameters (Route Plan)

[Stop Routing on Out of Bandwidth Flag](#) *

False

False

[Stop Routing on Unallocated Number Flag](#) *

True

True

[Stop Routing on User Busy Flag](#) *

True

True

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

Clusterwide Parameters (Hunt List)

[Stop Hunting on Out of Bandwidth Flag](#) *

False

False

Clusterwide Parameters (Service)



CallBack Softkey Configuration

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

Save Reset

Status
 Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User CallBack
Select a call state to configure **On Hook**

Unselected Softkeys
Conference List (ConfList)
Direct Transfer (DirTrfr)
Group Pick Up (GPickUp)
HLog (HLog)
Immediate Divert (iDivert)
Join (Join)
Meet Me (MeetMe)
Mobility (Mobility)
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)
End Call (EndCall)
Forward All (CfwdAll)
Call Back (CallBack)
Toggle Do Not Disturb (DND)

< >

Save Reset

*- indicates required item.
 **- indicates mandatory fields



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Softkey Template Configuration Related Links: Softkey Template Configuration Go

Save Reset

Status
 Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User CallBack
Select a call state to configure Ring Out ▾

Unselected Softkeys
Undefined (Undefined)

>

<

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

<

>

Save Reset

*- indicates required item.
 **- indicates mandatory fields

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IDivert Softkey Configuration

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

Save Reset

Status
 Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User CallBack
Select a call state to configure Connected ▾

Unselected Softkeys
HLog (HLog)
Mobility (Mobility)
Quality Report Tool (QRT)
Remove Last Conference Party (RmLstC)
Toggle Malicious Call Trace (MCID)
Undefined (Undefined)

Selected Softkeys (ordered by position)**
Hold (Hold)
End Call (EndCall)
Transfer (Trnsfer)
Park (Park)
Conference (Confrn)
Conference List (Conflist)
Select (Select)
Join (Join)
Direct Transfer (DirTrfr)
Video Mode Command (VidMode)
Immediate Divert (iDivert)
Toggle Do Not Disturb (DND)

Save Reset

*- indicates required item.
 **- indicates mandatory fields



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Softkey Template Configuration Related Links: Softkey Template Configuration Go

Save Reset

Status
 Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User CallBack
Select a call state to configure On Hold ▾
Unselected Softkeys

Undefined (Undefined)

> <

Selected Softkeys (ordered by position)**

**Resume (Resume)
NewCall (NewCall)
Direct Transfer (DirTrfr)
Select (Select)
Join (Join)
Immediate Divert (iDivert)
Toggle Do Not Disturb (DND)

< >

Save Reset

*- indicates required item.
 **- indicates mandatory fields

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

Status
 Status: Ready

Softkey Layout Configuration
Softkey Template: Standard User CallBack
Select a call state to configure

Unselected Softkeys
Undefined (Undefined)

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

*- indicates required item.
 **- indicates mandatory fields



Path Replacement Service Parameters

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Service Parameter Configuration Related Links: Parameters for All Servers

Clusterwide Parameters (Feature - Call Pickup)

[Auto Call Pickup Enabled](#) *

[Call Pickup Locating Timer](#) *

[Call Pickup No Answer Timer](#) *

Clusterwide Parameters (Feature - Refer)

[Validate Refer-to URI](#) *

Clusterwide Parameters (Feature - Replaces)

[Block OffNet To OffNet Replaces](#) *

Clusterwide Parameters (Feature - Redirection [3xx])

[Redirection Ring No Answer Reversion Timer](#) *

[Maximum Redirection Count](#) *

Clusterwide Parameters (Feature - Multilevel Precedence and Preemption)

[Locations-based MLPP Enable](#) *

[Executive Override Call Preemptable](#) *

Clusterwide Parameters (Feature - Path Replacement)

[Path Replacement Enabled](#) *

[Path Replacement on Tromboned Calls](#) *

[Start Path Replacement Minimum Delay Time](#) *

[Start Path Replacement Maximum Delay Time](#) *

[Path Replacement T1 Timer](#) *

[Path Replacement T2 Timer](#) *

[Path Replacement PINX ID](#)

[Path Replacement Calling Search Space](#)



PR Call Pick Up Group

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Call Pickup Group Configuration Related Links: Back To Find/List Go

Save Delete Copy Add New

Call Pickup Group Information
Call Pickup Group Name* PR-call-pickup-group
Call Pickup Group Number* 111
Description
Partition Incoming Trunk

Call Pickup Group Notification Settings
Call Pickup Group Notification Policy No Alert
Call Pickup Group Notification Timer (seconds)* 6

Call Information Display For Call Pickup Group Notification
☐ Calling Party Information ☐ Called Party Information

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
Selected Call Pickup Groups 111/Incoming Trunk
Reverse Order of Selected Numbers
Removed Call Pickup Groups



Forward by Reroute Service Parameter

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Service Parameter Configuration Related Links: [Parameters for All Servers](#)

[Translation CSS](#)

[Block OffNet To OffNet Transfer](#) *

False

False

[Drop Ad Hoc Conference](#) *

Never

Never

[Advanced Ad Hoc Conference Enabled](#) *

False

False

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

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](#) *

True

False

[Forward By Reroute Enabled](#) *

True

False

[Transform Forward by Reroute Destination](#) *

True

True

[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

[Max Forward UnRegistered Hops to DN](#) *

0

0

[CFA CSS Activation Policy](#) *

With Configured CSS

With Configured CSS

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

Clusterwide Parameters (Feature - Hold Reversion)

[Hold Reversion Duration](#) *

0

0

[Hold Reversion Notification Interval](#) *

30

30

[CFA Destination Override](#) *

False

False

Clusterwide Parameters (Feature - Call Pickup)

[Auto Call Pickup Enabled](#) *

False

False

[Call Pickup Locating Timer](#) *

1

1

[Call Pickup No Answer Timer](#) *

12

12



IP 7960 SCCP phone Configuration

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Phone Configuration Related Links:

 Save  Delete  Copy  Reset  Add New

Association Information

1  [Line \[1\] - 4000 in Phones](#)

2  [Line \[2\] - 6007 in Phones](#)

3  [Add a new SD](#)

4  [Add a new SD](#)

5  [Add a new SD](#)

6  [Add a new SD](#)

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

7  [Line \[3\] - Add a new DN](#)

8  [Add a new SD](#)

9  [Add a new SURL](#)

10  [Add a new BLF SD](#)

11  [Add a new BLF Directed Call Park](#)

12 Privacy

13 None

Phone Type
Product Type: Cisco 7960
Device Protocol: SCCP

Device Information
Registration Registered with Cisco Unified Communications Manager CM-VENUS
IP Address [172.20.214.100](#)
MAC Address* [00127F3B9054](#)
Description 4000 SCCP
Device Pool* Default [View Details](#)
Common Device Configuration MigratedCommonDeviceConfig1 [View Details](#)
Phone Button Template* Standard 7960 SCCP
Softkey Template Standard User CallBack
Common Phone Profile* Standard Common Phone Profile
Calling Search Space < None >
AAR Calling Search Space < None >
Media Resource Group List MRGL-CM-VENUS
User Hold MOH Audio Source 1-SampleAudioSource
Network Hold MOH Audio Source < None >
Location* Hub_None
AAR Group < None >
User Locale < None >
Network Locale < None >
Built In Bridge* Default
Privacy* Default
Device Mobility Mode* Default [View Current](#)
[Device Mobility Settings](#)
Owner User ID < None >

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Phone Configuration Related Links: Back To Find/List Go

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Phone Load Name

☒ Retry Video Call as Audio
☐ Ignore Presentation Indicators (internal calls only)
☒ Allow Control of Device from CTI
☒ Logged Into Hunt Group
☐ Remote Device

Protocol Specific Information

Packet Capture Mode* None
Packet Capture Duration 60
Presence Group* Standard Presence group
Device Security Profile* Cisco 7960 - Standard SCCP Non-Secure Profile
SUBSCRIBE Calling Search Space < None >
☐ Unattended Port
☐ Require DTMF Reception
☒ RFC2833 Disabled

Certification Authority Proxy Function (CAPF) Information

Certificate Operation* No Pending Operation
Authentication Mode* By Null String
Authentication String

Generate String

Key Size (Bits)* 1024
Operation Completes By 2007 5 19 12 (YYYY:MM:DD:HH)
Certificate Operation Status: None
Note: Security Profile Contains Addition CAPF Settings.

Expansion Module Information

Module 1 < None >
Module 1 Load Name



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Phone Configuration

Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Module 2 < None >

Module 2 Load Name

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 -- Use Current Device Settings --

Log in Time < None >

Log out Time < None >

MLPP Information

MLPP Domain < None >

MLPP Indication* Default

MLPP Preemption* Default

Do Not Disturb

☐ Do Not Disturb

DND Option* Ringer Off

DND Incoming Call Alert Beep Only

Product Specific Configuration Layout



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Save Delete Copy Reset Add New

Log out time [< None >](#)

MLPP Information

MLPP Domain

[< None >](#)

MLPP Indication*

[Default](#)

MLPP Preemption*

[Default](#)

Do Not Disturb

☐ Do Not Disturb

DND Option*

[Ringer Off](#)

DND Incoming Call Alert

[Beep Only](#)

Product Specific Configuration Layout

☐ Disable Speakerphone

☐ Disable Speakerphone and Headset

PC Port *

[Enabled](#)

Settings Access*

[Enabled](#)

Gratuitous ARP*

[Enabled](#)

PC Voice VLAN Access*

[Enabled](#)

Video Capabilities*

[Disabled](#)

Auto Line Select*

[Disabled](#)

Web Access*

[Enabled](#)

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

*- indicates required item.

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

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

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Directory Number Configuration Related Links: Configure Device (SEP00127F3B9054) Go

Save Delete Reset Add New

Directory Number Information

Directory Number* 4000

Route Partition Phones

Description

Alerting Name VENUS-0(A)

ASCII Alerting Name VENUS-0(A)

☒ Allow Control of Device from CTI

Associated Devices SEP00127F3B9054

Edit Device

Edit Line Appearance

▼ ▲

Dissociate Devices

Directory Number Settings

Voice Mail Profile Unity2 (Choose <None> to use system default)

Calling Search Space Phones

Presence Group* Standard Presence group

User Hold MOH Audio Source < None >

Network Hold MOH Audio Source < None >

Auto Answer* Auto Answer Off

AAR Settings

	Voice Mail	AAR Destination Mask	AAR Group
AAR	☐ or		< None >
☒ Retain this destination in the call forwarding history			

Call Forward and Call Pickup Settings



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Directory Number Configuration **Related Links:** **Configure Device (SEP00127F3B9054)** **Go**

Save Delete Reset Add New

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			Use System Default ▾
Forward All	☐ or		Phones ▾
Secondary Calling Search Space for Forward All			< None > ▾
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 > ▾
Forward Unregistered Internal	☐ or		Phones ▾
Forward Unregistered External	☐ or		Phones ▾
No Answer Ring Duration (seconds)	5		
Call Pickup Group			< None > ▾

MLPP Alternate Party Settings

Target (Destination)

MLPP Calling Search Space

MLPP No Answer Ring Duration (seconds)

Line Settings for All Devices



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Directory Number Configuration

Related Links: Configure Device (SEP00127F3B9054) Go

Save Delete Reset Add New

Line Settings for All Devices

Hold Reversion Ring Duration (seconds)

Setting the Hold Reversion Ring Duration to zero will disable the feature

Hold Reversion Notification Interval (seconds)

Setting the Hold Reversion Notification Interval to zero will disable the feature

Line 1 on Device SEP00127F3B9054

Display (Internal Caller ID)

VENUS-0

Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.

ASCII Display (Internal Caller ID)

VENUS-0

Line Text Label

VENUS-0

ASCII Line Text Label

VENUS-0

External Phone Number Mask

Visual Message Waiting Indicator 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.

Call Pickup Group Audio Alert Setting (Phone Idle)

Use System Default

Call Pickup Group Audio Alert Setting (Phone Active)

Use System Default

Monitoring Calling Search Space

< None >

Multiple Call/Call Waiting Settings on Device SEP00127F3B9054

Note:The range to select the Max Number of calls is: 1-196

Maximum Number of Calls*

4



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Directory Number Configuration Related Links: Configure Device (SEP00127F3B9054) Go

Save Delete Reset Add New

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.

Call Pickup Group Audio Alert Setting (Phone Idle)

Use System Default

Call Pickup Group Audio Alert Setting (Phone Active)

Use System Default

Monitoring Calling Search Space

< None >

Multiple Call/Call Waiting Settings on Device SEP00127F3B9054

Note:The range to select the Max Number of calls is: 1-196

Maximum Number of Calls*

4

Busy Trigger*

2 (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP00127F3B9054

☒ Caller Name

☒ Caller Number

☒ Redirected Number

☒ Dialed Number

Users Associated with Line

Associate End Users

Save Delete Reset Add New

*- indicates required item.

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



IP 7961 SIP phone Configuration

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

Save Delete Copy Reset Add New

Association Information
[Modify Button Items](#)

1 [Line \[1\] - 4013 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 [Add a new BLF Directed Call Park](#)

11 [Intercom \[1\] - Add a new Intercom](#)

12 Do Not Disturb

13 Privacy

14 None

Phone Type
Product Type: Cisco 7961
Device Protocol: SIP

Device Information

RegistrationRegistered with Cisco Unified Communications Manager CM-VENUS

IP Address[172.20.214.113](#)

MAC Address*[00152B8F3767](#)

Description4013 SIP

Device Pool*Default [View Details](#)

Common Device ConfigurationMigratedCommonDeviceConfig1 [View Details](#)

Phone Button Template*Standard 7961 SIP

Softkey TemplateStandard User CallBack

Common Phone Profile*Standard Common Phone Profile

Calling Search Space< None >

AAR Calling Search Space< None >

Media Resource Group ListMRGL-CM-VENUS

User Hold MOH Audio Source1-SampleAudioSource

Network Hold MOH Audio Source1-SampleAudioSource

Location*Hub_None

AAR Group< None >

User LocaleEnglish, United States

Network LocaleUnited States

Built In Bridge*Default

Privacy*Default

Device Mobility Mode*Default [View Current](#)
[Device Mobility Settings](#)

Owner User ID< None >

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Phone Configuration Related Links: Back To Find/List Go

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Phone Personalization* Default ▾
Phone Load Name
☐ Ignore Presentation Indicators (internal calls only)
☒ Allow Control of Device from CTI
☒ Logged Into Hunt Group
☐ Remote Device

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 ▾
Device Security Profile* Cisco 7961 - Standard SIP Non-Secure Profile ▾
Rerouting Calling Search Space Phones ▾
SUBSCRIBE Calling Search Space Phones ▾
SIP Profile* Default SIP Profile ▾
Digest User < None > ▾
☐ Media Termination Point Required
☐ Unattended Port
☐ Require DTMF Reception

Certification Authority Proxy Function (CAPF) Information
Certificate Operation* No Pending Operation ▾
Authentication Mode* By Null String ▾
Authentication String

Generate String

Key Size (Bits)* 1024 ▾
Operation Completes By 2007 5 19 12 (YYYY:MM:DD:HH) ▾



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Certificate Operation Status: None
Note: Security Profile Contains Addition CAPF Settings.

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 -- Use Current Device Settings --
Log in Time < None >
Log out Time < None >

MLPP Information

MLPP Domain < None >

Do Not Disturb

☐ Do Not Disturb
DND Option* Ringer Off
DND Incoming Call Alert Disable

Secure Shell Information

Secure Shell User
Secure Shell Password



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Save Delete Copy Reset Add New

☐ 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

Recording Tone*

Disabled ▾

Recording Tone Local Volume*

100

Recording Tone Remote Volume*

50

Recording Tone Duration

RTCP*

Disabled ▾

"more" Soft Key Timer

5

Auto Call Select*

Enabled ▾

Log Server

Advertise G.722 Codec*

Use System Default ▾

Wideband Headset UI Control*

Enabled ▾

Wideband Handset UI Control*

Enabled ▾



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Directory Number Configuration Related Links: Configure Device (SEP00152B8F3767) Go

Save Delete Reset Add New

Directory Number Information

Directory Number* 4013

Route Partition Phones

Description

Alerting Name VENUS-13(A)

ASCII Alerting Name VENUS-13(A)

☒ Allow Control of Device from CTI

Associated Devices SEP00152B8F3767

Edit Device

Edit Line Appearance

▼ ▲

Dissociate Devices

Directory Number Settings

Voice Mail Profile Unity2 (Choose <None> to use system default)

Calling Search Space Phones

Presence Group* Standard Presence group

User Hold MOH Audio Source < None >

Network Hold MOH Audio Source < None >

Auto Answer* Auto Answer Off

AAR Settings

Voice Mail

AAR Destination Mask

AAR Group

AAR ☐ or

< None >

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Save Delete Reset Add New

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			Use System Default
Forward All	☐ or		Phones
Secondary Calling Search Space for Forward All			< None >
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 >
Forward Unregistered Internal	☐ or		Phones
Forward Unregistered External	☐ or		Phones
No Answer Ring Duration (seconds)		5	
Call Pickup Group		< None >	

MLPP Alternate Party Settings



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Directory Number Configuration

Related Links: Configure Device (SEP00152B8F3767) Go

Save Delete Reset Add New

Line Settings for All Devices

Hold Reversion Ring Duration (seconds)

Setting the Hold Reversion Ring Duration to zero will disable the feature

Hold Reversion Notification Interval (seconds)

Setting the Hold Reversion Notification Interval to zero will disable the feature

Line 1 on Device SEP00152B8F3767

Display (Internal Caller ID)

VENUS-13

Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.

ASCII Display (Internal Caller ID)

VENUS-13

Line Text Label

VENUS-13

ASCII Line Text Label

VENUS-13

External Phone Number Mask

Visual Message Waiting Indicator Policy*

Use System Policy

Audible Message Waiting Indicator Policy*

Default

Ring Setting (Phone Idle)*

Use System Default

Ring Setting (Phone Active)

Use System Default

Applies to this line when any line on the phone has a call in progress.

Call Pickup Group Audio Alert Setting (Phone Idle)

Use System Default

Call Pickup Group Audio Alert Setting

Use System Default



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Directory Number Configuration Related Links: Configure Device (SEP00152B8F3767) Go

Save Delete Reset Add New

Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.
Call Pickup Group	Use System Default	
Audio Alert Setting (Phone Idle)		
Call Pickup Group Audio Alert Setting (Phone Active)	Use System Default	
Recording Option*	Call Recording Disabled	
Recording Profile	< None >	
Monitoring Calling Search Space	< None >	

Multiple Call/Call Waiting Settings on Device SEP00152B8F3767
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 SEP00152B8F3767
☒ Caller Name
☒ Caller Number
☒ Redirected Number
☒ Dialed Number

Users Associated with Line
Associate End Users

Save Delete Reset Add New



Configuring the CMM-E1 gateway

```
VENUS-CMM-E1#sh ver
VENUS-CMM-E1#sh version
Cisco IOS Software, Cat6K-lc Software (wscmm-IPVOICE-M), Version 12.4(5a), RELEA
SE SOFTWARE (fc3)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Sat 14-Jan-06 04:52 by alnguyen
```

```
ROM: System Bootstrap, Version 12.2(1r)T2, RELEASE SOFTWARE (fc1)
```

```
VENUS-CMM-E1 uptime is 1 day, 2 hours, 34 minutes
System returned to ROM by power-on
System image file is "bootflash:wscmm-ipvoice-mz.124-5a.bin"
```

```
cisco WS-SVC-CMM Cat6k Voice Linecard (R7000) processor (revision 0xFF) with 196
608K/65536K bytes of memory.
Processor board ID SAD0825032A
R7000 CPU at 400MHz, Implementation 39, Rev 3.3, 256KB L2 Cache
Last reset from power-on
1 FastEthernet interface
1 Gigabit Ethernet interface
206 Serial interfaces
6 Channelized E1/PRI ports
6 Channelized T1/PRI ports
32768K bytes of processor board bootflash (Read/Write)
```

```
Configuration register is 0x2
```

```
VENUS-CMM-E1#
VENUS-CMM-E1#sh run
Building configuration...
```

```
Current configuration : 4329 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname VENUS-CMM-E1
!
boot-start-marker
boot-end-marker
!
enable password cisco
!
no aaa new-model
!
resource policy
```



```
!  
mmi polling-interval 60  
no mmi auto-configure  
no mmi pvc  
mmi snmp-timeout 180  
!  
!  
no ip domain lookup  
ip host CM-CHIVAS 172.20.8.254  
ip host CM-BARZA 172.20.110.254  
ip host CM-MERCURY 172.20.215.254  
ip host CM-VENUS 172.20.214.254  
!  
isdn switch-type primary-4ess  
!  
!  
!  
!  
controller T1 1/0  
    framing esf  
    linecode b8zs  
    pri-group timeslots 1-24 service mgcp  
!  
controller T1 1/1  
    framing esf  
    linecode b8zs  
    pri-group timeslots 1-24 service mgcp  
!  
controller T1 1/2  
    framing esf  
    linecode b8zs  
    pri-group timeslots 1-24 service mgcp  
!  
controller T1 1/3  
    framing esf  
    linecode b8zs  
    pri-group timeslots 1-24 service mgcp  
!  
controller T1 1/4  
    framing esf  
    linecode b8zs  
    pri-group timeslots 1-24 service mgcp  
!  
controller T1 1/5  
    framing esf  
    linecode b8zs  
    pri-group timeslots 1-24 service mgcp  
!  
controller E1 2/0  
    pri-group timeslots 1-31 service mgcp  
!  
controller E1 2/1  
    pri-group timeslots 1-31 service mgcp  
!
```



```
controller E1 2/2
!
controller E1 2/3
!
controller E1 2/4
!
controller E1 2/5
!
!
!
interface GigabitEthernet1/0
 ip address 172.20.214.51 255.255.255.0
 no ip proxy-arp
 no negotiation auto
 no keepalive
!
interface Serial1/0:23
 no ip address
 encapsulation hdlc
 no logging event link-status
 isdn switch-type primary-qsig
 isdn incoming-voice voice
 isdn bind-l3 ccm-manager
 no cdp enable
!
interface Serial1/1:23
 no ip address
 encapsulation hdlc
 no logging event link-status
 isdn switch-type primary-qsig
 isdn incoming-voice voice
 isdn bind-l3 ccm-manager
 no cdp enable
!
interface Serial1/2:23
 no ip address
 encapsulation hdlc
 no logging event link-status
 isdn switch-type primary-qsig
 isdn incoming-voice voice
 isdn bind-l3 ccm-manager
 no cdp enable
!
interface Serial1/3:23
 no ip address
 encapsulation hdlc
 no logging event link-status
 isdn switch-type primary-qsig
 isdn incoming-voice voice
 isdn bind-l3 ccm-manager
 no cdp enable
!
interface Serial1/4:23
 no ip address
```



```
encapsulation hdlc
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-l3 ccm-manager
no cdp enable
!
interface Serial1/5:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-l3 ccm-manager
no cdp enable
!
interface Serial2/0:15
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-l3 ccm-manager
no cdp enable
!
interface Serial2/1:15
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-l3 ccm-manager
no cdp enable
!
ip default-gateway 172.20.8.1
ip route 0.0.0.0 0.0.0.0 172.20.8.1
ip route 0.0.0.0 0.0.0.0 172.20.215.1
ip route 0.0.0.0 0.0.0.0 172.20.214.1
!
no ip http server
!
!
control-plane
!
!
voice-port 1/0:23
!
voice-port 1/1:23
!
voice-port 1/2:23
!
voice-port 1/3:23
!
voice-port 1/4:23
```



```
!  
voice-port 1/5:23  
!  
voice-port 2/0:15  
!  
voice-port 2/1:15  
!  
ccm-manager mgcp  
ccm-manager music-on-hold  
ccm-manager config server CM-VENUS  
ccm-manager config  
!  
mgcp  
mgcp call-agent CM-VENUS 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  
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 voice 1 pots  
  service mgcpapp  
  port 1/0:23  
!  
dial-peer voice 2 pots  
  service mgcpapp  
  port 1/1:23  
!  
dial-peer voice 3 pots  
  service mgcpapp  
  port 1/2:23  
!  
dial-peer voice 4 pots  
  service mgcpapp  
  port 1/3:23  
!  
dial-peer voice 5 pots  
  service mgcpapp  
  port 1/4:23  
!  
dial-peer voice 6 pots  
  service mgcpapp  
  port 1/5:23
```



```
!  
dial-peer voice 7 pots  
  service mgcpapp  
  port 2/0:15  
!  
dial-peer voice 8 pots  
  service mgcpapp  
  port 2/1:15  
!  
!  
line con 0  
  password cisco  
line vty 0 4  
  password cisco  
  login  
!  
!  
end
```

VENUS-CMM-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.
CUCM	Cisco Unified Communication Manager
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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