



Ericsson MD-110 Release BC12 using E1 ECMA QSIG to Cisco Unified CallManager 4.1

November 2, 2007 Revision 2

Table of Contents

Introduction	1
Network Topology.....	2
Limitations.....	2
System Components	2
Hardware Requirements	2
Software Requirements	3
Features	3
Features Supported.....	3
Features Not Supported	3
Configuration.....	3
Configuring the Ericsson MD-110 PBX.....	3
Configuring the Cisco Unified CallManager.....	11
Configuring the Cisco CMM-E1 MGCP Router	45
Acronyms	50

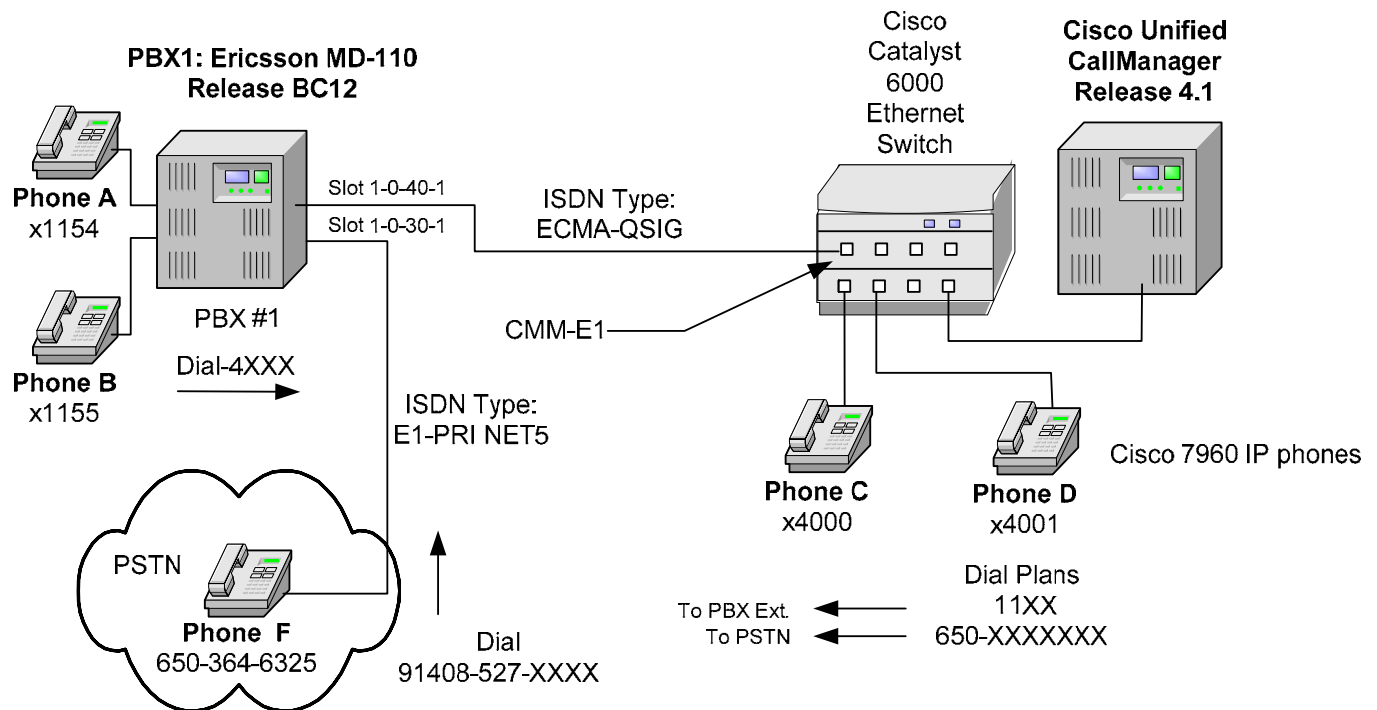
Introduction

- This is an application note for connectivity of Ericsson MD-110 Release BC12 PBX with Cisco Unified CallManager Release 4.1 via Cisco Communication Media Module CMM-E1 as MGCP gateway using ECMA1 QSIG protocol.
- The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified CallManager connected to the PBX via CMM-E1 QSIG link as MGCP gateway.
- Connectivity is achieved by using the PRI ISO QSIG E1 protocol type on the MGCP gateway with Cisco Unified CallManager Service parameter QSIG variant of ECMA and ECMA switch type on the Ericsson MD-110 PBX.
- This Application Note uses the CMM-E1 voice gateway, however other Cisco voice gateways are also an option to use since Cisco Unified CallManager QSIG implementation does not depend on the physical interface.

Network Topology

Figure 1. Network Topology

Basic Call Setup End-to-End Configuration



Limitations

Calling/Connected Name Restrictions

- Ericsson phone displayed Calling/Connected Name when CUCM sends it as restricted.

System Components

Hardware Requirements

- Cisco Hardware:
 - Cisco Catalyst 6000 switch with CMM-E1 Gateway
 - Cisco Unified CallManager Server
- Ericsson MD-110 PBX Hardware:
 - TLU76/1, E1 PRI/QSIG



Software Requirements

- PBX Software version BC12
- Cisco Unified CallManager 4.1

Features

Features Supported

- CLIP-Calling Line (Number) Identification Presentation
- CLIR-Calling Line (Number) Identification Restriction
- CNIP-Calling Name Identification Presentation
- COLP-Connected Line (Number) Identification Presentation
- COLR- Connected Line (Number) Identification Restriction
- CONP-Connected Name Identification Presentation
- Sending Alerting Name
- CT-Call Transfer (by join)
- CFU-Call Forwarding Unconditional (by join)
- CFB-Call Forwarding Busy (by join)
- CFNR-Call Forwarding No Reply (by join)

Features Not Supported

- Ericsson did not honor CNIR-Calling Name Identification Restriction
- Ericsson did not honor CONR- Connected Name Identification Restriction
- Ericsson did not Update Name and Number for Call Transfers
- Ericsson did not support External/Network Call Forwarding
- Ericsson did not support Call Forwarding by Reroute
- Ericsson did not support Call Completion
- Ericsson did not support ANF-PR-Additional Network Feature Path Replacement
- Ericsson did not support MWI- Message Waiting Indication (lamp ON, lamp OFF)

Configuration

Configuring the Ericsson MD-110 PBX

Warning: The Ericsson MD-110 PBX user interface is very cryptic. All parameters and options are mapped to position-dependent numeric fields within the various commands listed below. The user must have the correct revision of the Ericsson MD-110 PBX administration manual to be able to decipher each field position and determine its meaning. It is therefore not advisable to make changes to an MD-110 PBX unless you know exactly what you are doing. A single number out of place in a command string can cause unusual behavior on the PBX.

Configure the Ericsson MD-110 PBX in the following sequence:

1. **ROCAI** Route Category Initiate
2. **RODAI** Route Data Initiate



3. **ROEQI** Route Equipment Initiate
4. **RODDI** Route External Destination

Configuration Menus and Commands

Route Category Initiate

Setup internal characteristics for the route. Ex. Traffic direction, services, Bearer capabilities.

For Ericsson 1 node

```
<ROCAP:ROU=100;
ROUTE CATEGORY DATA
ROU SEL          TRM SERV          NODG DIST DISL TRAF          SIG          BCAP
100 7110000000000010 5    2110030000    0   30   128  03151515 111110000031 111111

END
<ROCAP:ROU=101;
ROUTE CATEGORY DATA
ROU SEL          TRM SERV          NODG DIST DISL TRAF          SIG          BCAP
101 7110000000000010 5    2110030000    0   30   128  03151515 111110000031 001100

END
```

For Ericsson 2 node

```
<ROCAP:ROU=1;
ROUTE CATEGORY DATA
ROU SEL          TRM SERV          NODG DIST DISL TRAF          SIG          BCAP
1   7110000000000010 5    3110000000    0   30   128  03151515 111110000031 111111

END
<ROCAP:ROU=3;
ROUTE CATEGORY DATA
ROU SEL          TRM SERV          NODG DIST DISL TRAF          SIG          BCAP
3   7110000000000010 5    3110000000    0   30   128  03151515 111110000031 111111

END
```

Route Data Initiate

For Ericsson 1 node

```
E1-PRI ECMA QSIG Route Protocol Characteristics, protocol side "Network"
<RODAP:ROU=100;
ROUTE DATA
ROU  TYPE  VARC          VARI          VARO          FILTER
100  SL60  H'00000310  H'15400000  H'06300000  NO

END
```

PSTN trunk E1-PRI ETSI Route Protocol Characteristics, protocol side "Network"



<RODAP:ROU=100;

ROUTE	DATA	VARC	VARI	VARO	FILTER
100	SL60	H'00000310	H'05400000	H'06300000	NO

END

E1-PRI ECMA QSIG Route Protocol Characteristics, protocol side "User"

<RODAP:ROU=101;

ROUTE	DATA	VARC	VARI	VARO	FILTER
101	SL60	H'00000310	H'15400000	H'06400000	NO

END

For Ericsson 2 node

<RODAP:ROU=1;

ROUTE	DATA	VARC	VARI	VARO	FILTER
1	SL60	H'00000310	H'15400000	H'06400000	NO

END

<RODAP:ROU=3;

ROUTE	DATA	VARC	VARI	VARO	FILTER
3	SL60	H'00000310	H'15400000	H'06300000	NO

END

Route Equipment Initiate

For Ericsson 1 node

E1-PRI QSIG trunk lines (B-channels)

< ROEDP:ROU=100,TRU=ALL;

ROUTE	EQUIPMENT	DATA	TRU	EQU	SQU	INDDAT	CNTRL
100			001-1	001-0-30-01		H'000000000000	
100			001-2	001-0-30-02		H'000000000000	
100			001-3	001-0-30-03		H'000000000000	
100			001-4	001-0-30-04		H'000000000000	
100			001-5	001-0-30-05		H'000000000000	
100			001-6	001-0-30-06		H'000000000000	
100			001-7	001-0-30-07		H'000000000000	
100			001-8	001-0-30-08		H'000000000000	
100			001-9	001-0-30-09		H'000000000000	
100			001-10	001-0-30-10		H'000000000000	
100			001-11	001-0-30-11		H'000000000000	
100			001-12	001-0-30-12		H'000000000000	
100			001-13	001-0-30-13		H'000000000000	
100			001-14	001-0-30-14		H'000000000000	
100			001-15	001-0-30-15		H'000000000000	
100			001-17	001-0-30-17		H'000000000000	
100			001-18	001-0-30-18		H'000000000000	
100			001-19	001-0-30-19		H'000000000000	



100	001-20	001-0-30-20	H'000000000000
100	001-21	001-0-30-21	H'000000000000
100	001-22	001-0-30-22	H'000000000000
100	001-23	001-0-30-23	H'000000000000
100	001-24	001-0-30-24	H'000000000000
100	001-25	001-0-30-25	H'000000000000
100	001-26	001-0-30-26	H'000000000000
100	001-27	001-0-30-27	H'000000000000
100	001-28	001-0-30-28	H'000000000000
100	001-29	001-0-30-29	H'000000000000
100	001-30	001-0-30-30	H'000000000000
100	001-31	001-0-30-31	H'000000000000

END

<ROEDP:ROU=101,TRU=ALL;

ROUTE	EQUIPMENT	DATA				
ROU	TRU	EQU	SQU	INDDAT	CNTRL	
101	001-1	001-0-40-01		H'000000000000		
101	001-2	001-0-40-02		H'000000000000		
101	001-3	001-0-40-03		H'000000000000		
101	001-4	001-0-40-04		H'000000000000		
101	001-5	001-0-40-05		H'000000000000		
101	001-6	001-0-40-06		H'000000000000		
101	001-7	001-0-40-07		H'000000000000		
101	001-8	001-0-40-08		H'000000000000		
101	001-9	001-0-40-09		H'000000000000		
101	001-10	001-0-40-10		H'000000000000		
101	001-11	001-0-40-11		H'000000000000		
101	001-12	001-0-40-12		H'000000000000		
101	001-13	001-0-40-13		H'000000000000		
101	001-14	001-0-40-14		H'000000000000		
101	001-15	001-0-40-15		H'000000000000		
101	001-17	001-0-40-17		H'000000000000		
101	001-18	001-0-40-18		H'000000000000		
101	001-19	001-0-40-19		H'000000000000		
101	001-20	001-0-40-20		H'000000000000		
101	001-21	001-0-40-21		H'000000000000		
101	001-22	001-0-40-22		H'000000000000		
101	001-23	001-0-40-23		H'000000000000		
101	001-24	001-0-40-24		H'000000000000		
101	001-25	001-0-40-25		H'000000000000		
101	001-26	001-0-40-26		H'000000000000		
101	001-27	001-0-40-27		H'000000000000		
101	001-28	001-0-40-28		H'000000000000		
101	001-29	001-0-40-29		H'000000000000		
101	001-30	001-0-40-30		H'000000000000		
101	001-31	001-0-40-31		H'000000000000		

END

For Ericsson 2 node

<ROEDP:ROU=1,TRU=ALL;

ROUTE	EQUIPMENT	DATA				
ROU	TRU	EQU	IP ADDRESS	SQU	INDDAT	CNTRL
1	001-1	001-1-40-01			H'000000000000	
1	001-2	001-1-40-02			H'000000000000	



1	001-3	001-1-40-03	H'000000000000
1	001-4	001-1-40-04	H'000000000000
1	001-5	001-1-40-05	H'000000000000
1	001-6	001-1-40-06	H'000000000000
1	001-7	001-1-40-07	H'000000000000
1	001-8	001-1-40-08	H'000000000000
1	001-9	001-1-40-09	H'000000000000
1	001-10	001-1-40-10	H'000000000000
1	001-11	001-1-40-11	H'000000000000
1	001-12	001-1-40-12	H'000000000000
1	001-13	001-1-40-13	H'000000000000
1	001-14	001-1-40-14	H'000000000000
1	001-15	001-1-40-15	H'000000000000
1	001-17	001-1-40-17	H'000000000000
1	001-18	001-1-40-18	H'000000000000
1	001-19	001-1-40-19	H'000000000000
1	001-20	001-1-40-20	H'000000000000
1	001-21	001-1-40-21	H'000000000000
1	001-22	001-1-40-22	H'000000000000
1	001-23	001-1-40-23	H'000000000000
1	001-24	001-1-40-24	H'000000000000
1	001-25	001-1-40-25	H'000000000000
1	001-26	001-1-40-26	H'000000000000
1	001-27	001-1-40-27	H'000000000000
1	001-28	001-1-40-28	H'000000000000
1	001-29	001-1-40-29	H'000000000000
1	001-30	001-1-40-30	H'000000000000
1	001-31	001-1-40-31	H'000000000000

END

<ROEDP:ROU=3,TRU=ALL;

ROUTE EQUIPMENT DATA

ROU	TRU	EQU	IP ADDRESS	SQU	INDDAT	CNTRL
3	001-1	001-1-50-01			H'000000000000	
3	001-2	001-1-50-02			H'000000000000	
3	001-3	001-1-50-03			H'000000000000	
3	001-4	001-1-50-04			H'000000000000	
3	001-5	001-1-50-05			H'000000000000	
3	001-6	001-1-50-06			H'000000000000	
3	001-7	001-1-50-07			H'000000000000	
3	001-8	001-1-50-08			H'000000000000	
3	001-9	001-1-50-09			H'000000000000	
3	001-10	001-1-50-10			H'000000000000	
3	001-11	001-1-50-11			H'000000000000	
3	001-12	001-1-50-12			H'000000000000	
3	001-13	001-1-50-13			H'000000000000	
3	001-14	001-1-50-14			H'000000000000	
3	001-15	001-1-50-15			H'000000000000	
3	001-17	001-1-50-17			H'000000000000	
3	001-18	001-1-50-18			H'000000000000	
3	001-19	001-1-50-19			H'000000000000	
3	001-20	001-1-50-20			H'000000000000	
3	001-21	001-1-50-21			H'000000000000	
3	001-22	001-1-50-22			H'000000000000	
3	001-23	001-1-50-23			H'000000000000	
3	001-24	001-1-50-24			H'000000000000	
3	001-25	001-1-50-25			H'000000000000	
3	001-26	001-1-50-26			H'000000000000	
3	001-27	001-1-50-27			H'000000000000	



```
3      001-28      001-1-50-28      H'000000000000
3      001-29      001-1-50-29      H'000000000000
3      001-30      001-1-50-30      H'000000000000
3      001-31      001-1-50-31      H'000000000000
```

END

Route External Destination Data Initiate

For Ericsson 1 PSTN ROUTE

```
NANSI:NUMTYP=ED, NUMSE=650;
RODDI:DEST=650, ROU=100, ADC=170700000000250107001100, SRT=1;
NANLS:EXL=650, MIN=10, MAX=10;
```

For Ericsson 1 node

Route and Access Code for the trunk Information- Note Route 100 & 101 are the PRI QSIG

< RODDP:DEST=ALL;

EXTERNAL DESTINATION ROUTE DATA

DEST	DRN	ROU	CHO	CUST	ADC	TRC	SRT	NUMACK	PRE
21		1			170700000000250107001100	0	3	0	
25		100			170700000000250107001100	0	3	0	
31		11			100500000000250000000000	0	3	0	
35		11			060600000000250106001100	0	3	0	
36		6			011500000000250001000000	0	3	0	
38		8			011500000000250001000000	0	3	0	
40		101			170700000000250107001100	0	1	0	
42		100			070700000000250107001100	0	1	0	
550		11			060600000000250106001100	0	1	0	
551		101			070700000000250107001100	0	1	0	
560		11			060600000000250106001100	0	1	0	
650		100			170700000000250107001100	0	1	0	
666		100			070700000000250107001100	0	1	0	
950		11			060600000000250106001100	0	7	0	

END

For Ericsson 2 node

Route and Access Code for the trunk Information- Note Route 1 & 3 are the PRI QSIG

<RODDP:DEST=ALL;

EXTERNAL DESTINATION ROUTE DATA

DEST	DRN	ROU	CHO	CUST	ADC	TRC	SRT	NUMACK	PRE
11		1			170700000000250107001100	0	1	0	
21		1			172700000000250107001100	0	1	0	
23		3			172700000000250107001100	0	1	0	
31		11			100520000000250100001000	0	3	0	
40		3			170700000000250107001100	0	1	0	
50		11			060600000000250106001100	0	1	0	
550		11			060600000000250106001100	0	1	0	
551		3			070710000000250107001100	0	1	0	
560		11			060600000000250106001100	0	1	0	
60		11			060600000000250106001100	0	1	0	
777		1			070700000000250007001100	0	1	0	
950		11			060600000000250106001100	0	7	0	

END



Overlap/Enbloc sending

For Ericsson 1 node

To do overlap sending First remove access code
<NANLR:EXL=40;

To do Enbloc sending
<NANLS:EXL=40,MIN=4,MAX=4;

Key System Directory

For Ericsson 1 node

```
<KSDDP:DIR=1154;
KEY SYSTEM DIRECTORY DATA
DIR      CUST      EQU      CAT      ADN      ODN      CALALT  TIMER
1154                                -              1        0

END
```

```
<KSDDP:DIR=1155;
KEY SYSTEM DIRECTORY DATA
DIR      CUST      EQU      CAT      ADN      ODN      CALALT  TIMER
1155                                -              1        0

END
```

For Ericsson 2 node

```
<KSDDP:DIR=4200&&4201;
KEY SYSTEM DIRECTORY DATA
DIR      CUST      EQU      CAT      ADN      ODN      CALALT  TIMER
4200                                1              1        0
4201                                1              1        0

END
```

Calling/Connected Name and Number Restrictions

To configure Calling/Connected Name and Number Restricted, use the following command:

```
<KSCAC:DIR=1154&&1155,ADC=00010013010000;
```

To configure Calling/Connected Name and Number Allowed, use the following command:

```
<KSCAC:DIR=1154&&1155,ADC=00100013010000;
```

To remove Name, use the following command:

```
<NIINE:DIR=1154;//REMOVE NAME
```

To add Name, use the following command:

```
<NIINI:DIR=1154,NAME1="BC12-1",NAME2="FOUR",PRES=20; //ADD NAME
```

To print Station's Name, use the following command:

```
<NIINP:DIR=1154&&1155;

EXTENSION NAMES
DIR      NAME1      NAME2      PRES  INFO
1154     BC12-1     FOUR      10
```



```
1155    BC12-1                FIVE                10
END
```

Path Replacement (Route Optimization)

To enable/disable Path Replacement, use the following command:

```
<ASPAC:PARNUM=66,PARVAL=1; //Route optimization allowed. --- FORWARD
```

```
<ASPAC:PARNUM=66,PARVAL=0; //Route optimization NOT allowed.
```

Call Diversion on Busy/No Reply

To enable/disable Diversion on Busy/No Reply, use the following command:

```
<CDINI:DIR=1154,DIV=4200; // CALL DIVERSION INDIVIDUAL NUMBER INITIATE
```

```
<CDINE:DIR=1154;          // CALL DIVERSION INDIVIDUAL NUMBER END
```

Diversion Counter

```
<ASUVP:PARNUM=121; // check current setting for maximum number of hop diversions
```

```
<ASPAC:PARNUM=121,PARVAL= VALUE; // To set maximum number of hop diversions where VALUE range is
                                0-255
```

```
<ASUVP:PARNUM=121;
```

```
APPLICATION SYSTEM PARAMETER VALUES FOR UNIT
PARNUM  CHA    PARVAL  MINVAL  MAXVAL  UNIT    REMARK
   121  YES      12       0      255   RMP
END
```

Ericsson MD-110 Software Version

For Ericsson 1 node

```
<•CADAP;
CALENDAR DATA
IDENTITY=ACM-1
VERSION=CXP1010101/2/BC12SP5/R2A
11:19:20
THU 21 OCT 2004
END
```

For Ericsson 2 node

```
<CADAP;
CALENDAR DATA

IDENTITY=DANDS-EURO
VERSION=CXP1010001/5/BC11SP13/R3A
```



CALENDAR TIME NOT VALID

17:23:44

TUE 31 AUG 2004

END

Configuring the Cisco Unified CallManager

ECMA Protocol Service Parameter

Clusterwide Parameters (Device - PRI and MGCP Gateway)		
Parameter Name	Parameter Value	Suggested Value
ASN.1 ROSE OID Encoding*	Use Global Value(ECMA)	Use Local Value
QSIG Variant*	ECMA (Protocol Profile 0x91)	ISO (Protocol Profile 0x9F)
Caller ID		
Calling Name Not Available Timeout (msec)*	2000	2000
Calling Party Number Screening Indicator*	CallManager sets the screening indicator value - Default setting	CallManager sets the screening indicator value - Default setting
Change B- Channel Maintenance Status 1		
Change B- Channel Maintenance Status 2		



CMM-E1 Gateway Configuration

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Gateway Configuration

[Back to Find/List Gateways](#)

Product: Communication Media Module
Protocol: MGCP
MGCP : CMM-E1

Status: Ready

Domain Name*

Description

Cisco CallManager Group*

Installed Voice Interface Cards

Endpoint Identifiers

Module in Slot 1

Subunit

(1/0) (1/1) (1/2) (1/3)

(1/4) (1/5)

Module in Slot 2

Module in Slot 3

Module in Slot 4

Product Specific Configuration

Global ISDN Switch Type

Switchback Timing*

Switchback uptime-delay (min)

Switchback schedule (hh:mm)

Fax mode*

* indicates required item

[Back to Find/List Gateways](#)

Gateway Configuration

[Back to MGCP Configuration](#)

[Back to Find/List Gateways](#)

[Dependency Records](#)

Product : Communication Media Module

Gateway : S1/DS1-1@CMM-E1

Device Protocol: Digital Access PRI

Registration: Registered with Cisco CallManager CM-MARS

IP Address: 172.20.231.51

Status: Update completed.

[Update](#)

[Delete](#)

[Reset Gateway](#)

Device Information

End-Point Name*	S1/DS1-1@CMM-E1
Description	CM-MARS to Ericsson 1
Device Pool*	Default
Call Classification*	Use System Default
Network Locale	United States
Media Resource Group List	< None >
Location	< None >
AAR Group	< None >
Load Information	

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain (e.g., "0000FF")	
MLPP Indication	Not available on this device
MLPP Preemption	Not available on this device

Interface Information

PRI Protocol Type*	PRI QSIG E1
Protocol Side*	Network
Channel Selection Order*	Top Down
Channel IE Type*	Timeslot Number

PCM Type*	A-law
Delay for first restart (1/8 sec ticks)	32
Delay between restarts (1/8 sec ticks)	4
☒ Inhibit restarts at PRI initialization	
☐ Enable status poll	
Call Routing Information	
Inbound Calls	
Significant Digits*	All
Calling Search Space	Incoming Trunk
AAR Calling Search Space	< None >
Prefix DN	
Outbound Calls	
Calling Line ID 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*	0
PRI Protocol Type Specific Information	
☐ Display IE Delivery	
☐ Redirecting Number IE Delivery - Outbound	
☐ Redirecting Number IE Delivery - Inbound	
☒ Send Extra Leading Character In DisplayIE***	
☐ Setup non-ISDN Progress Indicator IE Enable****	

☐ Display IE Delivery	
☐ Redirecting Number IE Delivery - Outbound	
☐ Redirecting Number IE Delivery - Inbound	
☒ Send Extra Leading Character In DisplayIE***	
☐ Setup non-ISDN Progress Indicator IE Enable****	
☐ MCDN Channel Number Extension Bit Set to Zero**	
☐ Send Calling Name In Facility IE	
☐ Interface Identifier Present**	
Interface Identifier Value**	0
Connected Line ID Presentation (QSIG Inbound Call)*	Default
UUIE Configuration	
☐ Passing Precedence Level Through UUIE	
Security Access Level	2
Product Specific Configuration 	
Line Coding*	HDB3
Framing*	CRC4
Clock*	External
Input Gain (-6..14 db)*	0
Output Attenuation (-6..14 db)*	0
Echo Cancellation Enable*	Enable
Echo Cancel Coverage (ms)*	64
* indicates required item ** applicable to DMS-100 protocol only *** applicable to DMS-100 protocol and DMS-250 protocol only **** may be required to force ringback from some PBXs	
Back to MGCP Configuration Back to Find/List Gateways	



Partitions Configuration

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)



Cisco Systems

Find and List Partitions

[Add a New Partition](#)

2 matching record(s) for Partition Name begins with ""

Find Partitions where Partition Name
and show items per page
To list all items, click Find without entering any search text.

Matching record(s) 1 to 2 of 2

☐	Partition Name	Description
☐	Incoming Trunk	Incoming Trunk
☐	phones	phones

First Previous Next Last Page of 1



Calling Search Space Configuration

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)

Cisco CallManager Administration
For Cisco IP Telephony Solutions

Calling Search Space Configuration

[Add New Calling Search Space](#)
[Back to Find/List Calling Search Spaces](#)
[Dependency Records](#)

Calling Search Space: Incoming Trunk (in use)
Status: Ready

Copy

Update

Delete

Restart Devices

Calling Search Space Information

Calling Search Space Name* Incoming Trunk

Description

Route Partitions for this Calling Search Space

Find Partitions containing

Find

Available Partitions

phones

▼ ▲

Selected Partitions*
(ordered by highest priority)

Incoming Trunk

▲ ▼

* indicates required item

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)

Cisco CallManager Administration
For Cisco IP Telephony Solutions

Cisco Systems

Calling Search Space Configuration

[Add New Calling Search Space](#)
[Back to Find/List Calling Search Spaces](#)
[Dependency Records](#)

Calling Search Space: phones (in use)
Status: Ready

Copy

Update

Delete

Restart Devices

Calling Search Space Information

Calling Search Space Name*

phones

Description

Route Partitions for this Calling Search Space

Find Partitions containing

Find

Available Partitions

Incoming Trunk

Selected Partitions*
(ordered by highest priority)

phones

* indicates required item

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)

Cisco CallManager Administration
For Cisco IP Telephony Solutions



Calling Search Space Configuration

[Add New Calling Search Space](#)
[Back to Find/List Calling Search Spaces](#)
[Dependency Records](#)

Calling Search Space: PathReplacementCSS
Status: Ready

[Copy](#) [Update](#) [Delete](#)

Calling Search Space Information

Calling Search Space Name*
Description

Route Partitions for this Calling Search Space

Find Partitions containing [Find](#)
Available Partitions

▼▲

Selected Partitions*
(ordered by highest priority)

Incoming Trunk phones

▲▼

* indicates required item



Enbloc Route Pattern Configuration

Route Pattern: 11XX

Status: Ready

Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

Copy Update Delete

Pattern Definition

Route Pattern*	11XX
Partition	< None >
Description	CM-MARS to Ericsson 1
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route List*	S1/DS1-1@CMM-E1 (Edit)
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
Call Classification*	OnNet
☐ Provide Outside Dial Tone	☐ Allow Overlap Sending
☐ Require Forced Authorization Code	☐ Urgent Priority
Authorization Level	0
☐ Require Client Matter Code	

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	551XXXX
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)	

Route Pattern: 777

Status: Ready

Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

[Copy](#)
[Update](#)
[Delete](#)

Pattern Definition

Route Pattern*	777
Partition	< None >
Description	CM-MARS to Ericsson 1
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route List*	S1/DS1-1@CMM-E1 (Edit)
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
Call Classification*	OnNet ☐ Allow Device Override ☐ Provide Outside Dial Tone ☐ Allow Overlap Sending ☐ Urgent Priority ☐ Require Forced Authorization Code Authorization Level 0
	☐ Require Client Matter Code

Calling Party Transformations

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

Connected Party Transformations

Connected Line ID Presentation Default
Connected Name Presentation Default

Called Party Transformations

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

ISDN Network: Specify Facilitating Information Element

Route Pattern: 42XX

Status: Ready

Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

Copy

Update

Delete

Pattern Definition

Route Pattern*	42XX		
Partition	< None >		
Description	CM-MARS to Ericsson 3		
Numbering Plan*	North American Numbering Plan		
Route Filter	< None >		
MLPP Precedence	Default		
Gateway or Route List*	S1/DS1-0@CMM-E1		(Edit)
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —		
Call Classification*	OnNet	☐	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	551XXXX
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)	



Route Pattern: 666

Status: Update completed

Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

[Copy](#)[Update](#)[Delete](#)

Pattern Definition

Route Pattern*	666
Partition	< None >
Description	CM-MARS to Ericsson 3
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
MLPP Precedence	Default
Gateway or Route List*	S1/DS1-0@CMM-E1 (Edit)
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
Call Classification*	OnNet ☐ Allow Device Override
☐ Provide Outside Dial Tone	☐ Allow Overlap Sending ☐ Urgent Priority
☐ Require Forced Authorization Code	
Authorization Level	0
☐ Require Client Matter Code	

Calling Party Transformations

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

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default

Called Party Transformations

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



Overlap Sending Route Pattern Configuration

Route Pattern: 9.1
Status: Ready
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

CopyUpdateDelete

Pattern Definition

Route Pattern*	9.1		
Partition	< None >		
Description	Ovlp sending CM-MARS to Ericsson 1		
Numbering Plan*	North American Numbering Plan		
Route Filter	< None >		
MLPP Precedence	Default		
Gateway or Route List*	S1/DS1-1@CMME1		(Edit)
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —		
Call Classification*	OffNet	☐ Allow Device Override	☐ Urgent Priority
☒ Provide Outside Dial Tone	☒ Allow Overlap Sending		
☐ 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
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	



PSTN Route Pattern Configuration

Route Pattern: 650364XXXX
Status: Update completed
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

CopyUpdateDelete

Pattern Definition

Route Pattern*	650364XXXX		
Partition	< None >		
Description	PSTN Route gateway		
Numbering Plan*	North American Numbering Plan		
Route Filter	< None >		
MLPP Precedence	Default		
Gateway or Route List*	S1/DS1-1@CMME1		(Edit)
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —		
Call Classification*	OnNet	☐ Allow Device Override	☐ Urgent Priority
☐ Provide Outside Dial Tone	☐ Allow Overlap Sending		
☐ 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)	408527
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)	



Translation Pattern for Incoming Calls

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 40XX
Status: Ready

Copy Update Delete

Pattern Definition

Translation Pattern	40XX
Partition	Incoming Trunk
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	phones
MLPP Precedence	Default
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
☒ 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)	

* indicates required item.



CLIR Route Pattern Configuration

Route Pattern: 11XX
Status: Ready
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

CopyUpdateDelete

Pattern Definition

Route Pattern*	11XX	
Partition	< None >	
Description	CM-MARS to Ericsson 1	
Numbering Plan*	North American Numbering Plan	
Route Filter	< None >	
MLPP Precedence	Default	
Gateway or Route List*	S1/DS1-1@CMM-E1 (Edit)	
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —	
Call Classification*	OnNet	
☐ Provide Outside Dial Tone	☐ Allow Overlap Sending	☐ Allow Device Override
☐ Require Forced Authorization Code	☐ Urgent Priority	
Authorization Level	0	
☐ Require Client Matter Code		

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	551XXXX
Prefix Digits (Outgoing Calls)	
Calling Line ID Presentation	Restricted
Calling Name Presentation	Default

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default

Called Party Transformations

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

CNIR Route Pattern Configuration



Route Pattern: 11XX

Status: Ready

Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

Copy

Update

Delete

Pattern Definition

Route Pattern*	11XX	
Partition	< None >	
Description	CM-MARS to Ericsson 1	
Numbering Plan*	North American Numbering Plan	
Route Filter	< None >	
MLPP Precedence	Default	
Gateway or Route List*	S1/DS1-1@CMM-E1 (Edit)	
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —	
Call Classification*	OnNet ☐ 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	551XXXX
Prefix Digits (Outgoing Calls)	
Calling Line ID Presentation	Default
Calling Name Presentation	Restricted

Connected Party Transformations

Connected Line ID Presentation	Default
Connected Name Presentation	Default

Called Party Transformations

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



COLR Translation Pattern Configuration

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 40XX
Status: Ready

Pattern Definition

Translation Pattern	40XX
Partition	Incoming Trunk
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	phones
MLPP Precedence	Default
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
☒ 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)	

* indicates required item.

CONR Translation Pattern Configuration

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 40XX

Status: Ready

[Copy](#)

[Update](#)

[Delete](#)

Pattern Definition

Translation Pattern	40XX
Partition	Incoming Trunk
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	phones
MLPP Precedence	Default
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
☒ 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)	

* indicates required item.

MWI Lamp On/Off Configuration

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions
Cisco Systems

Message Waiting Configuration

[Add a New Message Waiting Number](#)
[Back to Find/List Message Waiting Numbers](#)

Message Waiting Number : 7001
 Status: Ready

Message Waiting Number*

Description

Message Waiting Indicator ☒ On ☐ Off

Partition

Calling Search Space

* indicates required item

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions
Cisco Systems

Message Waiting Configuration

[Add a New Message Waiting Number](#)
[Back to Find/List Message Waiting Numbers](#)

Message Waiting Number : 7000
 Status: Ready

Message Waiting Number*

Description

Message Waiting Indicator ☐ On ☒ Off

Partition

Calling Search Space

* indicates required item



MWI Activate Translation Pattern Configuration

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 7701
Status: Ready

Pattern Definition

Translation Pattern	7701
Partition	phones
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	phones
MLPP Precedence	Default
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
☒ Provide Outside Dial Tone ☒ Urgent Priority	

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	1154
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	7001
Prefix Digits (Outgoing Calls)	

* indicates required item.



MWI Deactivate Translation Pattern Configuration

Translation Pattern Configuration

[Add a New Translation Pattern](#)
[Back to Find/List Translation Patterns](#)

Translation Pattern: 7700
Status: Ready

Pattern Definition

Translation Pattern	7700
Partition	phones
Description	
Numbering Plan*	North American Numbering Plan
Route Filter	< None >
Calling Search Space	phones
MLPP Precedence	Default
Route Option	☒ Route this pattern ☐ Block this pattern — Not Selected —
☒ Provide Outside Dial Tone	☒ Urgent Priority

Calling Party Transformations

☐ Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	1154
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	7000
Prefix Digits (Outgoing Calls)	

* indicates required item.



CallBack Service Parameters

Parameter Name	Parameter Value	Suggested Value
Callback Notification Audio File Name*	CallBack.raw	CallBack.raw
Connection Proposal Type*	Connection Retention	Connection Release
Connection Response Type*	Default to Connection Retention	Default to Connection Retention
Callback Request Protection Timer (T1) (sec)*	10	10
Callback Recall Timer (T3) (sec)*	20	20
Callback Calling Search Space	< None >	



CallBack Softkey Configuration

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)

Cisco CallManager Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Softkey Template Configuration

[Add New Softkey Template](#)
[Configure Softkey Layout](#)
[Dependency Records](#)
[Back to Find/List Softkey Templates](#)

Softkey Template: Standard User CallBack
Status: Ready

Copy

Update

Delete

Restart Devices

Softkey Template Name*

Standard User CallBack

Description

Standard Softkey Template for CallManager only

Add Application

Delete Application

Application

Cisco CallManager

* indicates required item

System
Route Plan
Service
Feature
Device
User
Application
Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

Cisco Systems

Softkey Layout Configuration

[Softkey Template Configuration](#)

Call States

- Connected
- Connected Conference
- Connected Transfer
- Digits After First
- Off Hook
- Off Hook With Feature
- On Hold
- On Hook**
- Remote In Use
- Ring In
- Ring Out

Softkey Template: Standard User CallBack
Status: Ready

Unselected Softkeys

- Conference List (30)(ConfList)
- Direct Transfer (28)(DirTrfr)
- Immediate Divert (31)(iDiver)
- Join (15)(Join)
- Quality Report Tool (22)(QRT)
- Remove Last Conference Party (19)
- Select (29)(Select)
- Undefined (0)(Undefined)
- Video Mode Command (33)(VidMoc

Selected Softkeys (ordered by position)**

- Redial (1)(Redial)
- **NewCall (2)(NewCall)
- Forward All (5)(CfwdAll)
- Call Back (20)(CallBack)

** indicates mandatory fields
* indicates required item

System
Route Plan
Service
Feature
Device
User
Application
Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

Cisco Systems

Softkey Layout Configuration

[Softkey Template Configuration](#)

Call States

- Connected
- Connected Conference
- Connected Transfer
- Digits After First
- Off Hook
- Off Hook With Feature
- On Hold
- On Hook
- Remote In Use
- Ring In
- Ring Out**

Softkey Template: Standard User CallBack
Status: Ready

UpdateRestart Devices

Unselected Softkeys

Undefined (0)(Undefined)

Selected Softkeys (ordered by position)**

Undefined (0)(Undefined)
**End Call (9)(EndCall)
Call Back (20)(CallBack)

** indicates mandatory fields
* indicates required item



Path Replacement Service Parameters

Clusterwide Parameters (Feature - Path Replacement)		
Parameter Name	Parameter Value	Suggested Value
Path Replacement Enabled*	True	False
Path Replacement on Tromboned Calls*	True	True
Start Path Replacement Minimum Delay Time (sec)*	2	0
Start Path Replacement Maximum Delay Time (sec)*	4	0
Path Replacement T1 Timer (sec)*	30	30
Path Replacement T2 Timer (sec)*	15	15
Path Replacement PINX Id	551	
Path Replacement Calling Search Space	PathReplacementCSS	
Clusterwide Parameters (Feature - Call Back)		

[System](#) [Route Plan](#) [Service](#) [Feature](#) [Device](#) [User](#) [Application](#) [Help](#)

Cisco CallManager Administration
For Cisco IP Telephony Solutions



Call Pickup Configuration

[Add a New Call Pickup Number](#)
[Back to Find/List Call Pickup Numbers](#)
[Dependency Records](#)

Call Pickup Number: 551 - Incoming Trunk

Status: Ready

Call Pickup Number*

Description

Partition

* indicates required item



Forward by Reroute Service Parameter

Clusterwide Parameters (Feature - Forward)		
Parameter Name	Parameter Value	Suggested Value
Forward Maximum Hop Count*	12	12
Forward No Answer Timer (sec)*	12	12
Max Forwards Hops to DN*	12	12
Retain Forward Information*	False	False
Forward By Reroute Enabled*	True	False
Forward By Reroute T1 Timer (sec)*	15	15

Cluster Wide Parameters (Feature - Path Replacement)		
--	--	--



IP phone Configuration

[Add a new phone](#)
[Add/Update Speed Dials](#)
[Subscribe/Unsubscribe Services](#)
[Dependency Records](#)
[Back to Find/List Phones](#)

Phone Configuration

Directory Numbers
Base Phone
Line 1 - 4000 in
phones
Line 2 - Add new DN

Phone: SEP003094C331AD (Auto 4000)
Registration: Registered with Cisco CallManager 172.20.231.254
IP Address: 172.20.231.102
Status: Ready
[Copy](#) [Update](#) [Delete](#) [Reset Phone](#)
Phone Configuration (Model = Cisco 7960)
Device Information
MAC Address* 003094C331AD
Description Auto 4000
Owner User ID (Select User ID)
Device Pool* Default (View details)
Calling Search Space < None >
AAR Calling Search Space < None >
Media Resource Group List < None >
User Hold Audio Source 1 - SampleAudioSource
Network Hold Audio Source < None >
Location < None >
User Locale < None >
Network Locale < None >
Device Security Mode Use System Default
Signal Packet Capture Mode None
Packet Capture Duration 0
Built In Bridge Default
Privacy Default
☒ Retry Video Call as Audio
☐ Ignore Presentation Indicators (internal calls only)
Phone Button Template Information
Phone Button Template* Standard 7960 (View button list)
Softkey Template Information
Softkey Template Standard User CallBack

Expansion Module Information	
Module 1	< None >
Module 2	< None >
Firmware Load Information (leave blank to use default)	
Phone Load Name	
Module 1 Load Name	(Module 1 selection required)
Module 2 Load Name	(Module 2 selection required)
Cisco IP Phone - External Data Locations (leave blank to use default)	
Information	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	
Extension Mobility (Device Profile) Information	
☐ Enable Extension Mobility Feature	
Log Out Profile	— Not Selected —
Log In User ID	< None >
Log In Time	< None >
Log Out Time	< None >
Certification Authority Proxy Function (CAPF) Information	
Certificate Operation	No Pending Operation
Authentication Mode	By Authentication String
Authentication String	Generate String
Key Size (bits)	1024
Operation Completes By**	: : : (YYYY : MM : DD : HH)
Certificate Operation Status : None	
Multilevel Precedence and Preemption (MLPP) Information	
MLPP Domain	(e.g., "0000FF")
MLPP Indication	Default

Multilevel Precedence and Preemption (MLPP) Information	
MLPP Domain	(e.g., "0000FF")
MLPP Indication	Default
MLPP Preemption	Default

Product Specific Configuration	
Disable Speakerphone	☐
Disable Speakerphone and Headset	☐
Forwarding Delay*	Disabled
PC Port*	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Enabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Disabled
Auto Line Select*	Disabled

* indicates a required item.
** Indicates time on Publisher.

[Back to top of page](#)
[Back to Find/List Phones](#)



Directory Number Configuration

[Configure Device \(SEP003094C331AD\)](#)
[Dependency Records](#)

Associated With

SEP003094C331AD
7960 (Line 1)

Directory Number: 4000 (phones)

Status: Ready

Note: Any update to this Directory Number automatically resets the associated devices

[Update](#)

[Remove from Device](#)

[Reset Devices](#)

Directory Number

Directory Number* 4000

Partition phones

Directory Number Settings

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

Calling Search Space phones

AAR Group <None>

User Hold Audio Source <None>

Network Hold Audio Source <None>

Auto Answer Auto Answer Off

Call Forward and Pickup Settings

	Voice Mail	Coverage/ Destination	Calling Search Space
Forward All	☐		<None>
Forward Busy Internal	☐		<None>
Forward Busy External	☐		<None>
Forward No Answer Internal	☐		<None>
Forward No Answer External	☐		<None>
Forward No Coverage Internal	☐		<None>
Forward No Coverage External	☐		<None>
No Answer Ring Duration		(seconds)	
Call Pickup Group		<None>	

MLPP Alternate Party Settings

Target (Destination)

Calling Search Space <None>

No Answer Ring Duration (seconds)



No Answer Ring Duration	(seconds)
Call Pickup Group	< None >
MLPP Alternate Party Settings	
Target (Destination)	
Calling Search Space	< None >
No Answer Ring Duration	(seconds)
Line Settings for all Devices	
Alerting Name	MARS 0
Line Settings for this Device	
Display (Internal Caller ID)	MARS 0
Line Text Label	MARS 0
External Phone Number Mask	
Message Waiting Lamp Policy	Use System Policy
Ring Setting (Phone Idle)	Use System Default
Ring Setting (Phone Active)**	Use System Default
Multiple Call / Call Waiting Settings	
Maximum Number of Calls*	4 (1 - 200)
Busy Trigger*	2 (<= Max. Calls)
Forwarded Call Information Display	
☒ Caller Name	☒ Caller Number
☒ Redirected Number	☒ Dialed Number
* indicates required item; changes to Line or Directory Number settings require restart.	
** Ring Setting (Phone Active) applies to this line when any line on the phone has a call in progress.	
Note: If you are using a language other than English for Display (Internal Caller ID) or Line Text Label text, make sure the correct character set (shown below) is selected. Text displays incorrectly if the wrong charset is selected. (English characters are included in all character sets.)	
Character Set	Western European (Latin 1)

Configuring the Cisco CMM-E1 MGCP Router

CMM-E1#

CMM-E1#sh ver

Cisco Internetwork Operating System Software

IOS (tm) Cat6K-lc Software (wscmm-I6S-M), Version 12.2(13)ZP3, EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)

TAC Support: <http://www.cisco.com/tac>

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Compiled Thu 05-Feb-04 17:38 by pwade
Image text-base: 0x60010940, data-base: 0x60D80000

ROM: System Bootstrap, Version 12.2(1r)T2, RELEASE SOFTWARE (fc1)
ROM: Cat6K-lc Software (wscmm-I6S-M), Version 12.2(13)ZP3, EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)

CMM-E1 uptime is 9 minutes
System returned to ROM by power-on
System image file is "bootflash:wscmm-i6s-mz.122-13.ZP3.bin"

cisco WS-SVC-CMM Cat6k Voice Linecard (R7000) processor (revision 0xFF) with 196 608K/65536K bytes of memory.
R7000 CPU at 400Mhz, Implementation 39, Rev 3.3, 256KB L2 Cache
Last reset from power-on
Bridging software.
Primary Rate ISDN software, Version 1.1.
Channelized E1, Version 1.0.
1 FastEthernet/IEEE 802.3 interface(s)
1 Gigabit Ethernet/IEEE 802.3 interface(s)
186 Serial network interface(s)
6 Channelized E1/PRI port(s)
32768K bytes of processor board bootflash (Read/Write)

Configuration register is 0x2

CMM-E1#**sh run**
Building configuration...

Current configuration : 3490 bytes
!
version 12.2
no service config
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname CMM-E1
!
!
ip subnet-zero
ip tcp synwait-time 13
ip host CM-MARS 172.20.231.254
!
isdn switch-type primary-4ess
!
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server CM-MARS
ccm-manager config
ms dsp firmware 0 bundled



```
ms dsp firmware 1 bundled
ms dsp firmware 2 bundled
!
!
controller E1 1/0
  pri-group timeslots 1-31 service mgcp
!
controller E1 1/1
  pri-group timeslots 1-31 service mgcp
!
controller E1 1/2
  pri-group timeslots 1-31 service mgcp
!
controller E1 1/3
  pri-group timeslots 1-31 service mgcp
!
controller E1 1/4
  pri-group timeslots 1-31 service mgcp
!
controller E1 1/5
  pri-group timeslots 1-31 service mgcp
!
!
interface GigabitEthernet1/0
  ip address 172.20.231.51 255.255.255.0
  no ip proxy-arp
  no negotiation auto
  no keepalive
!
interface Serial1/0:15
  no ip address
  no logging event link-status
  isdn switch-type primary-qsig
  isdn incoming-voice voice
  isdn bind-l3 ccm-manager
  no cdp enable
!
interface Serial1/1:15
  no ip address
  no logging event link-status
  isdn switch-type primary-qsig
  isdn protocol-emulate network
  isdn incoming-voice voice
  isdn bind-l3 ccm-manager
  no cdp enable
!
interface Serial1/2:15
  no ip address
  no logging event link-status
  isdn switch-type primary-qsig
  isdn protocol-emulate network
  isdn incoming-voice voice
  isdn bind-l3 ccm-manager
  no cdp enable
```



```
!  
interface Serial1/3:15  
  no ip address  
  no logging event link-status  
  isdn switch-type primary-qsig  
  isdn incoming-voice voice  
  isdn bind-l3 ccm-manager  
  no cdp enable  
!  
interface Serial1/4:15  
  no ip address  
  no logging event link-status  
  isdn switch-type primary-qsig  
  isdn incoming-voice voice  
  isdn bind-l3 ccm-manager  
  no cdp enable  
!  
interface Serial1/5:15  
  no ip address  
  no logging event link-status  
  isdn switch-type primary-qsig  
  isdn incoming-voice voice  
  isdn bind-l3 ccm-manager  
  no cdp enable  
!  
ip classless  
ip route 0.0.0.0 0.0.0.0 172.20.231.1  
no ip http server  
!  
!  
arp 127.0.0.30 0000.0300.0000 ARPA  
arp 127.0.0.12 0000.2100.0000 ARPA  
arp 127.0.0.11 0000.1100.0000 ARPA  
call rsvp-sync  
!  
voice-port 1/0:15  
  echo-cancel coverage 64  
!  
voice-port 1/1:15  
  echo-cancel coverage 64  
!  
voice-port 1/2:15  
  echo-cancel coverage 64  
!  
voice-port 1/3:15  
  echo-cancel coverage 64  
!  
voice-port 1/4:15  
  echo-cancel coverage 64  
!  
voice-port 1/5:15  
  echo-cancel coverage 64  
!  
mgcp
```



```
mgcp call-agent CM-MARS 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
dial-peer voice 1 pots
  application mgcpapp
!
dial-peer voice 2 pots
  application mgcpapp
!
dial-peer voice 3 pots
  application mgcpapp
!
dial-peer voice 4 pots
  application mgcpapp
  port 1/3:15
!
dial-peer voice 5 pots
  application mgcpapp
  port 1/4:15
!
dial-peer voice 6 pots
  application mgcpapp
  port 1/5:15
!
dial-peer voice 9991015 pots
  application mgcpapp
  port 1/0:15
!
dial-peer voice 9991115 pots
  application mgcpapp
  port 1/1:15
!
dial-peer voice 9991215 pots
  application mgcpapp
  port 1/2:15
!
!
line con 0
line vty 0 4
  login
!
!
end
```



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 CallManager
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CMM	Communication Media Module (CMM) is a Cisco Catalyst® 6500 Series and Cisco 7600 Series line card that provides flexible and high-density T1/E1 gateways
CNIP	Calling Name Identification Presentation
CNIR	Calling Name Identification Restriction
COLP	Connected Line (Number) Identification Presentation
COLR	Connected Line (Number) Identification Restriction
CONP	Connected Name Identification Presentation
CONR	Connected Name Identification Restriction
CT	Call Transfer
MWI	Message Waiting Indicator
PSTN	Public Switched Telephone Network



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