



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

November 2, 2007 Revision 2

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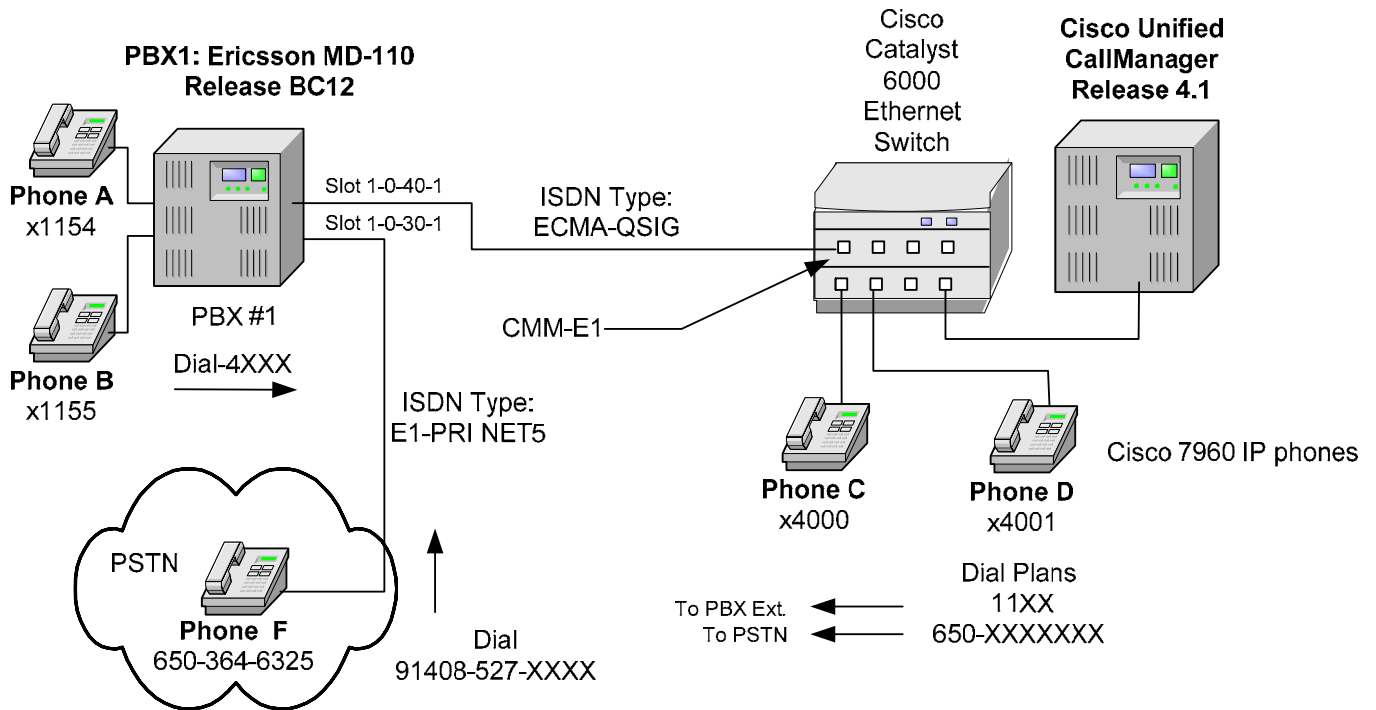
Introduction

- 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 711000000000010 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 711000000000010 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				
ROU	TYPE	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				
ROU	TYPE	VARC	VARI	VARO	FILTER
101	SL60	H'00000310	H'15400000	H'06400000	NO

END

For Ericsson 2 node

<RODAP:ROU=1;

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

END

<RODAP:ROU=3;

ROUTE	DATA				
ROU	TYPE	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			
ROU	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=1707000000000250107001100,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			1707000000000250107001100	0	3	0	
25		100			1707000000000250107001100	0	3	0	
31		11			1005000000000250000000000	0	3	0	
35		11			0606000000000250106001100	0	3	0	
36		6			0115000000000250001000000	0	3	0	
38		8			0115000000000250001000000	0	3	0	
40		101			1707000000000250107001100	0	1	0	
42		100			0707000000000250107001100	0	1	0	
550		11			0606000000000250106001100	0	1	0	
551		101			0707000000000250107001100	0	1	0	
560		11			0606000000000250106001100	0	1	0	
650		100			1707000000000250107001100	0	1	0	
666		100			0707000000000250107001100	0	1	0	
950		11			0606000000000250106001100	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			1707000000000250107001100	0	1	0	
21		1			1727000000000250107001100	0	1	0	
23		3			1727000000000250107001100	0	1	0	
31		11			1005200000000250100001000	0	3	0	
40		3			1707000000000250107001100	0	1	0	
50		11			0606000000000250106001100	0	1	0	
550		11			0606000000000250106001100	0	1	0	
551		3			0707100000000250107001100	0	1	0	
560		11			0606000000000250106001100	0	1	0	
60		11			0606000000000250106001100	0	1	0	
777		1			0707000000000250007001100	0	1	0	
950		11			0606000000000250106001100	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                001-0-20-03  -        -        -        1        0

END
```

```
<KSDDP:DIR=1155;
KEY SYSTEM DIRECTORY DATA
DIR      CUST      EQU          CAT      ADN      ODN      CALALT  TIMER
1155                001-0-20-04  -        -        -        1        0

END
```

For Ericsson 2 node

```
<KSDDP:DIR=4200&&4201;
KEY SYSTEM DIRECTORY DATA
DIR      CUST      EQU          CAT      ADN      ODN      CALALT  TIMER
4200                001-1-20-00  1        -        -        1        0
4201                001-1-20-01  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*	<input type="text" value="Use Global Value(ECMA)"/>	Use Local Value
QSIG Variant*	<input type="text" value="ECMA (Protocol Profile 0x91)"/>	ISO (Protocol Profile 0x9F)
Caller ID	<input type="text"/>	
Calling Name Not Available Timeout (msec)*	<input type="text" value="2000"/>	2000
Calling Party Number Screening Indicator*	<input type="text" value="CallManager sets the screening indicator value - Default setting"/>	CallManager sets the screening indicator value - Default setting
Change B- Channel Maintenance Status 1	<input type="text"/>	
Change B- Channel Maintenance Status 2	<input type="text"/>	

CMM-E1 Gateway Configuration

Cisco CallManager Administration
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) E1PRI
(1/1) E1PRI
(1/2) E1PRI
(1/3) ?

(1/4) ?
(1/5) ?

Module in Slot 2

Module in Slot 3

Module in Slot 4

Product Specific Configuration
i

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.

Device Information

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

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain (e.g., "0000FF")	<input type="text"/>
MLPP Indication	Not available on this device
MLPP Preemption	Not available on this device

Interface Information

PRI Protocol Type*	<input type="text" value="PRI QSIG E1"/>
Protocol Side*	<input type="text" value="Network"/>
Channel Selection Order*	<input type="text" value="Top Down"/>
Channel IE Type*	<input type="text" value="Timeslot Number"/>

PCM Type*	A-law
Delay for first restart (1/8 sec ticks)	32
Delay between restarts (1/8 sec ticks)	4
<input checked="" type="checkbox"/> Inhibit restarts at PRI initialization <input type="checkbox"/> Enable status poll	
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	
<input type="checkbox"/> Display IE Delivery <input type="checkbox"/> Redirecting Number IE Delivery - Outbound <input type="checkbox"/> Redirecting Number IE Delivery - Inbound <input checked="" type="checkbox"/> Send Extra Leading Character In DisplayIE*** <input type="checkbox"/> Setup non-ISDN Progress Indicator IE Enable****	

<input type="checkbox"/>	Display IE Delivery
<input type="checkbox"/>	Redirecting Number IE Delivery - Outbound
<input type="checkbox"/>	Redirecting Number IE Delivery - Inbound
<input checked="" type="checkbox"/>	Send Extra Leading Character In DisplayIE***
<input type="checkbox"/>	Setup non-ISDN Progress Indicator IE Enable****
<input type="checkbox"/>	MCDN Channel Number Extension Bit Set to Zero**
<input type="checkbox"/>	Send Calling Name In Facility IE
<input type="checkbox"/>	Interface Identifier Present**
Interface Identifier Value**	<input type="text" value="0"/>
Connected Line ID Presentation (QSIG Inbound Call)*	<input type="text" value="Default"/>

UUIE Configuration

<input type="checkbox"/>	Passing Precedence Level Through UUIE
Security Access Level	<input type="text" value="2"/>

Product Specific Configuration [i](#)

Line Coding*	<input type="text" value="HDB3"/>
Framing*	<input type="text" value="CRC4"/>
Clock*	<input type="text" value="External"/>
Input Gain (-6..14 db)*	<input type="text" value="0"/>
Output Attenuation (-6..14 db)*	<input type="text" value="0"/>
Echo Cancellation Enable*	<input type="text" value="Enable"/>
Echo Cancel Coverage (ms)*	<input type="text" value="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 CallManager Administration
For Cisco IP Telephony Solutions

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

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

Cisco Systems

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

Calling Search Space Information

Calling Search Space Name*
Description

Route Partitions for this Calling Search Space

Find Partitions containing

Available Partitions

phones

▼ ▲

Selected Partitions*
(ordered by highest priority)

Incoming Trunk

▲ ▼

* indicates required item

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

Calling Search Space Information

Calling Search Space Name*

Description

Route Partitions for this Calling Search Space

Find Partitions containing

Available Partitions



Selected Partitions*
(ordered by highest priority)



* indicates required item

Calling Search Space Configuration

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

Calling Search Space: PathReplacementCSS

Status: Ready

Calling Search Space Information

Calling Search Space Name*

Description

Route Partitions for this Calling Search Space

Find Partitions containing

Available Partitions



Selected Partitions*
(ordered by highest priority)



* 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

Pattern Definition

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

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text" value="551XXXX"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input style="border: none;" type="text" value="Default"/>
Calling Name Presentation	<input style="border: none;" type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input style="border: none;" type="text" value="Default"/>
Connected Name Presentation	<input style="border: none;" type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input style="border: none;" type="text" value=" < None > "/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>



Route Pattern: 777
Status: Ready
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

Pattern Definition

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

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input style="border: none;" type="text" value="Default"/>
Calling Name Presentation	<input style="border: none;" type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input style="border: none;" type="text" value="Default"/>
Connected Name Presentation	<input style="border: none;" type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input style="border: none;" type="text" value=" < None > "/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

Trunk Network: Specific Facility Transformation Element



Route Pattern: 42XX

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

Pattern Definition

Route Pattern*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

Gateway or Route List* (Edit)

Route Option
 Route this pattern
 Block this pattern

Call Classification* Allow Device Override

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Require Forced Authorization Code
Authorization Level

Require Client Matter Code

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)



Route Pattern: 666
Status: Update completed
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

Pattern Definition

Route Pattern*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

Gateway or Route List* [\(Edit\)](#)

Route Option
 Route this pattern
 Block this pattern

Call Classification* Allow Device Override

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Require Forced Authorization Code
Authorization Level

Require Client Matter Code

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)



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

Pattern Definition

Route Pattern*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

Gateway or Route List* [\(Edit\)](#)

Route Option
 Route this pattern
 Block this pattern

Call Classification* Allow Device Override

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Require Forced Authorization Code
Authorization Level

Require Client Matter Code

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)



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

Pattern Definition

Route Pattern*	<input type="text" value="650364XXXX"/>	
Partition	<input style="border: none;" type="text" value=" < None > "/>	
Description	<input type="text" value="PSTN Route gateway"/>	
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>	
Route Filter	<input style="border: none;" type="text" value=" < None > "/>	
MLPP Precedence	<input type="text" value="Default"/>	
Gateway or Route List*	<input type="text" value="S1/DS1-1@CMM-E1"/> (Edit)	
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input style="border: none;" type="text" value=" — Not Selected — "/>	
Call Classification*	<input type="text" value="OnNet"/> <input type="checkbox"/> Allow Device Override	
<input type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending	<input type="checkbox"/> Urgent Priority
<input type="checkbox"/> Require Forced Authorization Code		
Authorization Level	<input type="text" value="0"/>	
<input type="checkbox"/> Require Client Matter Code		

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text" value="408527"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Default"/>
Connected Name Presentation	<input type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input style="border: none;" type="text" value=" < None > "/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>



Translation Pattern for Incoming Calls

Translation Pattern Configuration

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

Translation Pattern: 40XX
Status: Ready

Pattern Definition

Translation Pattern	<input type="text" value="40XX"/>
Partition	<input type="text" value="Incoming Trunk"/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value="< None >"/>
Calling Search Space	<input type="text" value="phones"/>
MLPP Precedence	<input type="text" value="Default"/>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="— Not Selected —"/>

Provide Outside Dial Tone Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Default"/>
Connected Name Presentation	<input type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input type="text" value="< None >"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

* 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

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

Pattern Definition

Route Pattern*

Partition

Description

Numbering Plan*

Route Filter

MLPP Precedence

Gateway or Route List* [\(Edit\)](#)

Route Option

Route this pattern

Block this pattern

Call Classification* Allow Device Override

Provide Outside Dial Tone Allow Overlap Sending Urgent Priority

Require Forced Authorization Code

Authorization Level

Require Client Matter Code

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation

Calling Name Presentation

Connected Party Transformations

Connected Line ID Presentation

Connected Name Presentation

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

CNIR Route Pattern Configuration



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

Pattern Definition

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

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text" value="551XXXX"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Restricted"/>

Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Default"/>
Connected Name Presentation	<input type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input type="text" value=" < None >"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>



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	<input type="text" value="40XX"/>
Partition	<input type="text" value="Incoming Trunk"/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value=" < None >"/>
Calling Search Space	<input type="text" value="phones"/>
MLPP Precedence	<input type="text" value="Default"/>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="— Not Selected —"/>

Provide Outside Dial Tone Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Restricted"/>
Connected Name Presentation	<input type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input type="text" value=" < None >"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

* 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

Pattern Definition

Translation Pattern	<input type="text" value="40XX"/>
Partition	<input type="text" value="Incoming Trunk"/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value="< None >"/>
Calling Search Space	<input type="text" value="phones"/>
MLPP Precedence	<input type="text" value="Default"/>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="-- Not Selected --"/>
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input checked="" type="checkbox"/> Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Default"/>
Connected Name Presentation	<input type="text" value="Restricted"/>

Called Party Transformations

Discard Digits	<input type="text" value="< None >"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

* 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

Copy Update Delete

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

Copy Update Delete

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	<input type="text" value="7701"/>
Partition	<input type="text" value="phones"/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value="< None >"/>
Calling Search Space	<input type="text" value="phones"/>
MLPP Precedence	<input type="text" value="Default"/>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="— Not Selected —"/>

Provide Outside Dial Tone Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text" value="1154"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Default"/>
Connected Name Presentation	<input type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input type="text" value="< None >"/>
Called Party Transform Mask	<input type="text" value="7001"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

* 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	<input type="text" value="7700"/>
Partition	<input type="text" value="phones"/>
Description	<input type="text"/>
Numbering Plan*	<input type="text" value="North American Numbering Plan"/>
Route Filter	<input type="text" value="< None >"/>
Calling Search Space	<input type="text" value="phones"/>
MLPP Precedence	<input type="text" value="Default"/>
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="-- Not Selected --"/>
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input checked="" type="checkbox"/> Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask	<input type="text" value="1154"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation	<input type="text" value="Default"/>
Calling Name Presentation	<input type="text" value="Default"/>

Connected Party Transformations

Connected Line ID Presentation	<input type="text" value="Default"/>
Connected Name Presentation	<input type="text" value="Default"/>

Called Party Transformations

Discard Digits	<input type="text" value="< None >"/>
Called Party Transform Mask	<input type="text" value="7000"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>

* indicates required item.



CallBack Service Parameters

Parameter Name	Parameter Value	Suggested Value
Callback Notification Audio File Name*	<input type="text" value="CallBack.raw"/>	CallBack.raw
Connection Proposal Type*	<input type="text" value="Connection Retention"/>	Connection Release
Connection Response Type*	<input type="text" value="Default to Connection Retention"/>	Default to Connection Retention
Callback Request Protection Timer (T1) (sec)*	<input type="text" value="10"/>	10
Callback Recall Timer (T3) (sec)*	<input type="text" value="20"/>	20
Callback Calling Search Space	<input type="text" value="< 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)(iDivert)
- 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)(FwdAll)
- 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

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*	<input type="text" value="True"/>	False
Path Replacement on Tromboned Calls*	<input type="text" value="True"/>	True
Start Path Replacement Minimum Delay Time (sec)*	<input type="text" value="2"/>	0
Start Path Replacement Maximum Delay Time (sec)*	<input type="text" value="4"/>	0
Path Replacement T1 Timer (sec)*	<input type="text" value="30"/>	30
Path Replacement T2 Timer (sec)*	<input type="text" value="15"/>	15
Path Replacement PINX Id	<input type="text" value="551"/>	
Path Replacement Calling Search Space	<input type="text" value="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*	<input type="text" value="12"/>	12
Forward No Answer Timer (sec)*	<input type="text" value="12"/>	12
Max Forwards Hops to DN*	<input type="text" value="12"/>	12
Retain Forward Information*	<input type="text" value="False"/>	False
Forward By Reroute Enabled*	<input type="text" value="True"/>	False
Forward By Reroute T1 Timer (sec)*	<input type="text" value="15"/>	15

Cluster Wide Parameters (Feature - Path Replacement)



IP phone Configuration

Phone Configuration

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

Directory Numbers

Base Phone

- Line 1 - 4000 in 7960 phones
- Line 2 - Add new DN 7960

Phone: SEP003094C331AD (Auto 4000)
Registration: Registered with Cisco CallManager 172.20.231.254
IP Address: [172.20.231.102](#)
Status: Ready

Phone Configuration (Model = Cisco 7960)

Device Information

MAC Address*	<input type="text" value="003094C331AD"/>
Description	<input type="text" value="Auto 4000"/>
Owner User ID	<input type="text"/> (Select User ID)
Device Pool*	Default <input type="button" value="v"/> (View details)
Calling Search Space	< None > <input type="button" value="v"/>
AAR Calling Search Space	< None > <input type="button" value="v"/>
Media Resource Group List	< None > <input type="button" value="v"/>
User Hold Audio Source	1 - SampleAudioSource <input type="button" value="v"/>
Network Hold Audio Source	< None > <input type="button" value="v"/>
Location	< None > <input type="button" value="v"/>
User Locale	< None > <input type="button" value="v"/>
Network Locale	< None > <input type="button" value="v"/>
Device Security Mode	Use System Default <input type="button" value="v"/>
Signal Packet Capture Mode	None <input type="button" value="v"/>
Packet Capture Duration	<input type="text" value="0"/>
Built In Bridge	Default <input type="button" value="v"/>
Privacy	Default <input type="button" value="v"/>

Retry Video Call as Audio
 Ignore Presentation Indicators (internal calls only)

Phone Button Template Information

Phone Button Template* [\(View button list\)](#)

Softkey Template Information

Softkey Template



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	
<input type="checkbox"/> 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	<input type="text"/> <input type="button" value="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	<input type="text" value=""/> (e.g., "0000FF")
MLPP Indication	Default
MLPP Preemption	Default

Product Specific Configuration	
Disable Speakerphone	<input type="checkbox"/>
Disable Speakerphone and Headset	<input type="checkbox"/>
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*

Partition

Directory Number Settings

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

Calling Search Space

AAR Group

User Hold Audio Source

Network Hold Audio Source

Auto Answer

Call Forward and Pickup Settings

	Voice Mail	Coverage/ Destination	Calling Search Space
Forward All	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="< None >"/>
Forward Busy Internal	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="< None >"/>
Forward Busy External	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="< None >"/>
Forward No Answer Internal	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="< None >"/>
Forward No Answer External	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="< None >"/>
Forward No Coverage Internal	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="< None >"/>
Forward No Coverage External	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="< None >"/>

No Answer Ring Duration (seconds)

Call Pickup Group

MLPP Alternate Party Settings

Target (Destination)

Calling Search Space

No Answer Ring Duration (seconds)



No Answer Ring Duration (seconds)

Call Pickup Group

MLPP Alternate Party Settings

Target (Destination)

Calling Search Space

No Answer Ring Duration (seconds)

Line Settings for all Devices

Alerting Name

Line Settings for this Device

Display (Internal Caller ID)

Line Text Label

External Phone Number Mask

Message Waiting Lamp Policy

Ring Setting (Phone Idle)

Ring Setting (Phone Active)**

Multiple Call / Call Waiting Settings

Maximum Number of Calls* (1 - 200)

Busy Trigger* (<= Max. Calls)

Forwarded Call Information Display

<input checked="" type="checkbox"/> Caller Name	<input checked="" type="checkbox"/> Caller Number
<input checked="" type="checkbox"/> Redirected Number	<input checked="" type="checkbox"/> 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

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  
Copyright (c) 1986-2004 by cisco Systems, Inc.
```



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 196608K/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-13 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-13 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-13 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-13 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-13 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-13 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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