



# Ericsson MD110 BC13 SP3 using E1 ECMA QSIG to Cisco Unified Communications Manager 6.0

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## Table of Contents

Introduction .....	2
Network Topology.....	2
Limitations.....	3
System Components .....	4
Hardware Requirements .....	4
Software Requirements .....	4
Features .....	5
Features Supported.....	5
Features Not Supported .....	5
Configuration.....	6
Configuring the Ericsson MD110 BC13 SP3 PBX .....	6
Configuration Menus and Commands .....	6
Configuring the Cisco Unified Communications Manager 6.0.....	22
Configuring the Cisco Unified IOS Gateway 2851 .....	105
Acronyms .....	112



## Introduction

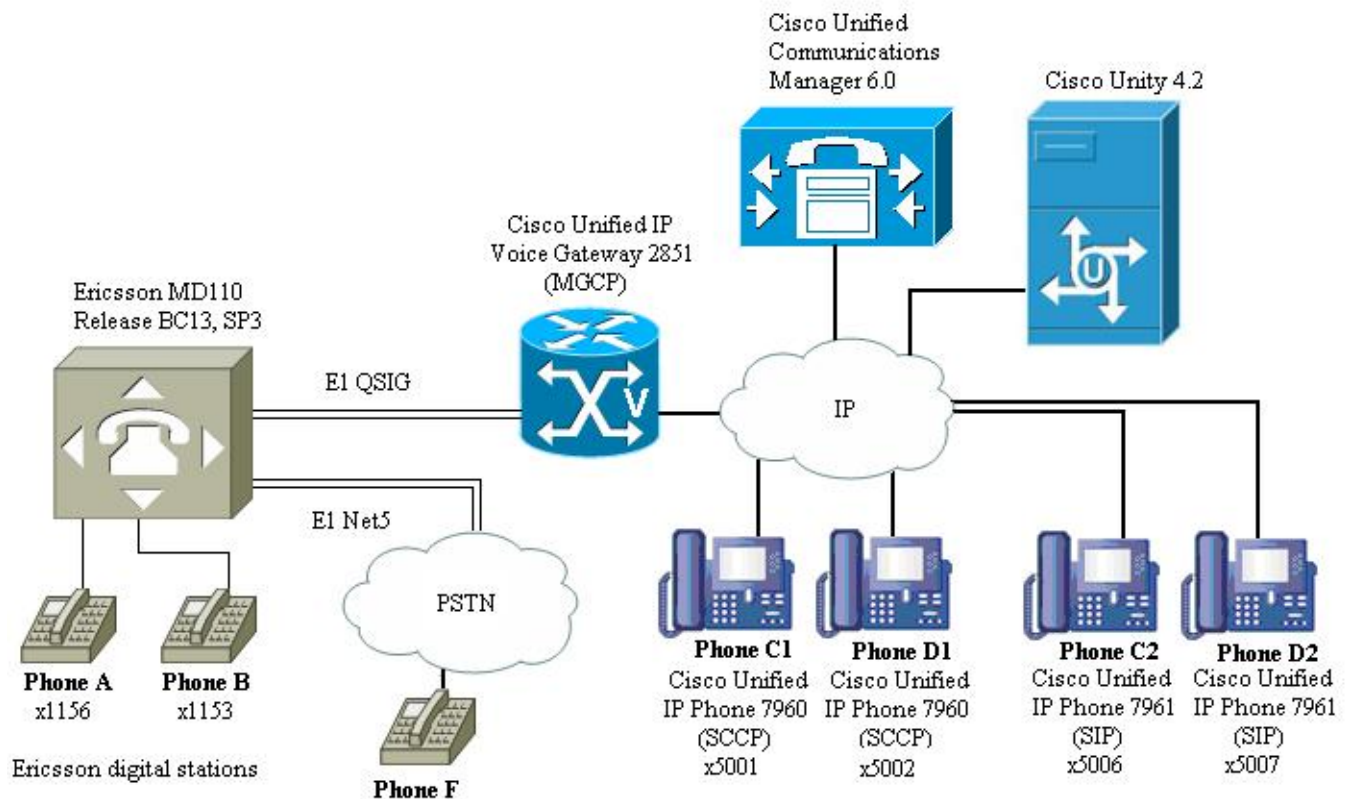
This is an application note for connectivity of Ericsson MD-110 Release BC13 PBX with Cisco Unified Communications Manager Release 6.0 via Cisco 2851 as MGCP gateway using ECMA QSIG protocol. A VWIC-2MFT-E1 is used to provide the physical E1 interface on the Cisco 2851.

The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified Communications Manager connected to the PBX via Cisco 2851 as MGCP gateway. Interoperability is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway with Communications Manager Service parameter QSIG variant of ECMA and ECMA switch type on the Ericsson MD-110 PBX.

This Application Note uses the Cisco 2851 w/ VWIC-2MFT-E1 voice gateway. However, other Cisco voice gateways are also an option to use since Communications Manager QSIG implementation does not depend on the physical interface.

## Network Topology

Figure 1. Basic Call Setup





## Limitations

The following section lists known limitations, caveats, or integration issues.

In a previous release of this application note, it was stated that Alerting Name was sent by the PBX extension, but not displayed on an originating SIP phone registered with Cisco Communications Manager 6.0. This was due to an improper PROGRESS message being sent before the ALERTING message from the PBX. This issue was resolved by passivating a patch (S111995A) from Ericsson, and should not be an issue in the field.

Cisco Unified IP Phones registered on Cisco Unified Communications Manager 6.0 do not display Busy Name sent over QSIG. Cisco Unified Communications Manager 6.0 does not support decode and display of Busy Name. It does support sending Busy Name.

The Ericsson MD110 PBX does not send or recognize "Call Transfer Complete" or "Call Transfer Active" FACILITY messages for ECMA QSIG. Therefore, the called (connected) name and number information is not updated on the originating phone after a transfer. Additionally, the original calling name and number information is not displayed on the final destination phone if the transfer is network/external (e.g., phone C1 calls phone A and phone A transfers to phone D1). Rather, the transferring phone's information is displayed.

On a call that originates from a Cisco Unified IP Phone (registered on Cisco Unified Communications Manager 6.0) to an Ericsson MD110 PBX extension, and is then forwarded unconditionally to another Cisco Unified IP Phone over the same trunk (e.g., phone C1 calls phone A, and phone A forwards back to phone D1), the original calling name and number information is not displayed. Only the forwarding name and number information are displayed. This is because the PBX sets up the second leg of the call with a new SETUP message (i.e., no reroute), and the forwarding party's information is sent as the calling party in this message. Also, the final destination connected name is not updated on the originating phone. The proper connected name is sent from Cisco Unified Communications Manager 6.0 to the PBX, but it is not included when the CONNECT message is relayed back to the Cisco Unified Communications Manager 6.0 in the first call leg.

On a call that originates from an Ericsson MD110 PBX extension to a Cisco Unified IP Phone (registered on Cisco Unified Communications Manager 6.0), and is then forwarded (either unconditionally or on busy or on no reply) to another extension on the same PBX, and where Reroute is not invoked, the forwarding name and number information is not displayed on the final destination. This is because the Cisco Unified Communications Manager 6.0 sets up the second leg of the call with a new SETUP message (i.e., no reroute), and the original party's information is sent as the calling party in this message. No forwarding party (diverting leg) information is sent.

The Ericsson MD110 PBX does not support external Call Forward Busy or Call Forward No Reply for ECMA QSIG. This is a limitation of the PBX and was also seen on the previous release (BC12, SP5).

The Ericsson MD110 PBX does not support Call Forward by Reroute for ECMA QSIG. There is no reroute proposal from the PBX, even if the parameter is enabled. This is a limitation of the PBX and was also seen on the previous release (BC12, SP5). In cases where the Cisco Unified Communications Manager 6.0 is the forwarding PINX, it sends a Reroute request, but the PBX ignores it. The Cisco Unified Communications Manager 6.0 waits for a timer to expire before abandoning the Reroute proposal and joining the call. This causes a ~5 second delay for the call to be completed. So, it is recommended for ECMA QSIG that the Reroute feature is turned off in Cisco Unified Communications Manager 6.0 Service Parameters to avoid this delay.

The Ericsson MD110 PBX does not support Call Back (on No Reply or on Busy) for ECMA QSIG. This is a limitation of the PBX and was also seen on the previous release (BC12, SP5).

The Ericsson MD110 PBX does not support Path Replacement for ECMA QSIG. This is a limitation of the PBX and was also seen on the previous release (BC12, SP5).

The Ericsson MD110 PBX does not support a voice mail integration with Cisco Unity for ECMA QSIG. This is because no diverting leg information is sent for Call Forward Unconditional, and because Ericsson MD110 PBX does not support external Call Forward Busy or Call Forward No Reply for ECMA QSIG.

Voice mail features with the Ericsson MD110 PBX designated as the message center PINX were not tested. This is because there was not a fully integrated voice mail system at the time of testing.

iDivert to voicemail using the Ericsson MD110 PBX as a forwarding node (e.g., phone C1 calls phone A, phone A forwards to phone D1, and phone D1 presses iDivert soft key) are limited to Legacy mode for ECMA QSIG, even if Legacy mode is de-selected in Cisco Unified Communications Manager 6.0. As soon as the soft key is pressed, the originator hits the voice mailbox for the final destination with no data-pass-through screen presented.



## System Components

### Hardware Requirements

The following hardware is required:

- Cisco Unified IOS gateway 2851 with NM-HD-2VE and VWIC-2MFT-E1

- Cisco MCS 7800 server (for Cisco Unified Communications Manager and Cisco Unity)

- Cisco Unified IP Phones 7960 and 7961

- Ericsson MD110 PBX and TL76/1, PRI-E1 interface card

### Software Requirements

The following software is required:

- Cisco Unified Communications Manager Release 6.0

- PBX software release BC13, SP3

- Cisco IOS Release 12.4



## Features

This section lists new and changed features and features that are not supported.

### Features Supported

- Basic Call (Overlap and ENBLOC dialing)
- CLIP-Calling Line (Number) Identification Presentation
- CLIR-Calling Line (Number) Identification Restriction
- CNIP-Calling Name Identification Presentation
- CNIR-Calling Name Identification Restriction
- COLP-Connected Line (Number) Identification Presentation
- COLR- Connected Line (Number) Identification Restriction
- CONP-Connected Name Identification Presentation
- CONR- Connected Name Identification Restriction
- Alerting Name (See Limitations)
- Busy Name (See Limitations)
- Tandem Call through PBX to/from PSTN
- Consultation Transfer – Local and Network/External
- Blind Transfer – Local and Network/External
- Call Forward Unconditional by Join – Local and Network/External (See Limitations)
- Call Forward Busy by Join – Local (See Limitations)
- Call Forward No Reply by Join – Local (See Limitations)
- iDivert (Legacy mode only)

### Features Not Supported

- Call Forward Busy by Join – Network/External
- Call Forward No Reply by Join – Network/External
- Call Forward Unconditional by Reroute – Network/External
- Call Forward Busy by Reroute – Network/External
- Call Forward No Reply by Reroute – Network/External
- Call Back/Call Completion – Busy and No Reply
- Path Replacement (for Call Transfer by join)
- Path Replacement (for Trombone connection)
- Voice Mail Integration and MWI



## Configuration

### Configuring the Ericsson MD110 BC13 SP3 PBX

**Warning:** The Ericsson MD-110 PBX user interface is very precise. 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 node (BC13, SP2) - using routes 100 & 101 only.**

**<ROCAP:ROU=ALL;**

ROUTE CATEGORY DATA

ROU	SEL	TRM	SERV	NODG	DIST	DISL	TRAF	SIG	BCAP
1	7110000000700010	4	3100000010	0	30	128	00151515	111110000031	001100
6	2110000000700010	5	0010100010	0	30	128	00151515	211100010050	001100
8	2110000000700010	5	0000100010	0	30	128	00151515	211100010050	001100
11	7110000000700010	5	3110030000	0	30	128	03151515	111110000011	111111
12	7110000000700010	5	3110000000	0	30	128	03151515	111110000011	111111
13	7110000000700010	5	3110000011	0	30	128	00151515	311110000011	101111
39	4110000000700010	5	3110000011	0	30	128	00151515	311110000031	001100
40	2110000000700010	5	0010000011	0	30	128	00151515	111110000031	001100
<b>100</b>	<b>7110000000000010</b>	<b>5</b>	<b>3110000011</b>	<b>0</b>	<b>30</b>	<b>128</b>	<b>03151515</b>	<b>111110000031</b>	<b>111111</b>
<b>101</b>	<b>7110000000000010</b>	<b>5</b>	<b>3110000011</b>	<b>0</b>	<b>30</b>	<b>128</b>	<b>03151515</b>	<b>111110000031</b>	<b>111111</b>

END



## Route Data Initiate

### For Ericsson node

E1-PRI QSIG Route Protocol Characteristics, protocol side "Network"

**<RODAP:ROU=ALL;**

ROUTE DATA

ROU	TYPE	VARC	VARI	VARO	FILTER
1	SL60	H'00000310	H'15420000	H'06300000	NO
6	TL30		H'00000036	H'00002016	NO
8	TL30	H'00000000	H'00002232	H'00002016	NO
11	TL50	H'00000001	H'00000000	H'00000000	NO
12	TL50	H'00000002	H'00000000	H'00000000	NO
13					
39	SL60	H'00000310	H'05400000	H'06400000	NO
40	SL60	H'00000B14	H'3A820000	H'46415000	NO
<b>100</b>	<b>SL60</b>	<b>H'00000310</b>	<b>H'15400000</b>	<b>H'06300000</b>	<b>NO</b>
<b>101</b>	<b>SL60</b>	<b>H'00000310</b>	<b>H'05400000</b>	<b>H'06300000</b>	<b>NO</b>

END

For, E1-PRI QSIG Route Protocol Characteristics, protocol side "User", make VARO = 06400000.



## Route Equipment Initiate

E1-PRI QSIG trunk lines (B-channels)

### For Ericsson node

**<ROEDP:ROU=ALL,TRU=ALL;**

ROUTE EQUIPMENT DATA

ROU	TRU	EQU	IP ADDRESS	SQU	INDDAT	CNTRL
11	001-1	001-0-00-01			H'0000000000FF	
11	001-2	001-0-00-02			H'0000000000FF	
11	001-3	001-0-00-03			H'0000000000FF	
11	001-4	001-0-00-04			H'0000000000FF	
11	001-5	001-0-00-05			H'0000000000FF	
11	001-6	001-0-00-06			H'0000000000FF	
11	001-7	001-0-00-07			H'0000000000FF	
11	001-8	001-0-00-08			H'0000000000FF	
11	001-9	001-0-00-09			H'0000000000FF	
11	001-10	001-0-00-10			H'0000000000FF	
11	001-11	001-0-00-11			H'0000000000FF	
11	001-12	001-0-00-12			H'0000000000FF	
11	001-13	001-0-00-13			H'0000000000FF	
11	001-14	001-0-00-14			H'0000000000FF	
11	001-15	001-0-00-15			H'0000000000FF	
11	001-17	001-0-00-17			H'0000000000FF	
11	001-18	001-0-00-18			H'0000000000FF	
11	001-19	001-0-00-19			H'0000000000FF	
11	001-20	001-0-00-20			H'0000000000FF	
11	001-21	001-0-00-21			H'0000000000FF	
11	001-22	001-0-00-22			H'0000000000FF	
11	001-23	001-0-00-23			H'0000000000FF	
11	001-24	001-0-00-24			H'0000000000FF	
11	001-25	001-0-00-25			H'0000000000FF	
11	001-26	001-0-00-26			H'0000000000FF	
11	001-27	001-0-00-27			H'0000000000FF	
11	001-28	001-0-00-28			H'0000000000FF	
11	001-29	001-0-00-29			H'0000000000FF	
11	001-30	001-0-00-30			H'0000000000FF	
11	001-31	001-0-00-31			H'0000000000FF	
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
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	001-16	001-0-40-17	H'000000000000
101	001-17	001-0-40-18	H'000000000000
101	001-18	001-0-40-19	H'000000000000
101	001-19	001-0-40-20	H'000000000000
101	001-20	001-0-40-21	H'000000000000
101	001-21	001-0-40-22	H'000000000000
101	001-22	001-0-40-23	H'000000000000
101	001-23	001-0-40-24	H'000000000000
101	001-24	001-0-40-25	H'000000000000
101	001-25	001-0-40-26	H'000000000000
101	001-26	001-0-40-27	H'000000000000
101	001-27	001-0-40-28	H'000000000000
101	001-28	001-0-40-29	H'000000000000
101	001-29	001-0-40-30	H'000000000000
101	001-30	001-0-40-31	H'000000000000

END



## Route External Destination Data Initiate

### For Ericsson node

Route and Access Code for the trunk Information. Note Routes 100 and 101 are for the PRI trunks.

**<RODDP:DEST=ALL;**

EXTERNAL DESTINATION ROUTE DATA

DEST	DRN	ROU	CHO	CUST	ADC	TRC	SRT	NUMACK	PRE
12		101			150500000000002501050010010	0	1	0	
21		1			122500000000002501020011000	0	3	0	
235		100			150500000000002501050010010	0	1	0	
25		100			060610000000002500060000000	0	3	0	
30		100			160600000000002501060010010	0	1	0	
31		11			100500000000002500000000000	0	3	0	
35		11			060600000000002501060011000	0	3	0	
36		6			011500000000002500010000000	0	3	0	
38		8			011500000000002500010000000	0	3	0	
40		100			170700000000002501070010010	0	1	0	
<b>42</b>		<b>101</b>			<b>160600000000002501060010010</b>	<b>0</b>	<b>1</b>	<b>0</b>	
<b>50</b>		<b>100</b>			<b>160600000000002501060010010</b>	<b>0</b>	<b>1</b>	<b>0</b>	
550		11			060600000000002501060011000	0	1	0	
551		101			070700000000002501070011000	0	1	0	
560		11			060600000000002501060011000	0	1	0	
650		100			170700000000002501070011000	0	1	0	
666		100			070700000000002501070011000	0	1	0	
777		101			150500000000002501050010010	0	1	0	
9		101			150500000000002501050010010	0	2	0	

END



## Exchange ID (System ID)

For Path Replacement, Exchange IDs need to be unique. Change System ID by using the following commands:

```
<SYIDE;
```

```
EXECUTED
```

```
<SYIDI:EXGID=888;
```

```
EXECUTED
```

## For Ericsson node

```
<SYIDP;
```

```
PRIVATE NETWORK EXCHANGE IDENTITY IS
```

```
888
```

```
END
```



## Route Number Data Print – Private Exchange Number Prefix

A prefix can be added to the outgoing number (as connected number) by setting the EXNOPR parameter. This should be left blank. This is accomplished by using the RONDE command.

```
<RONDE:ROU=100;
```

```
EXECUTED
```

It can be checked with the RONDV command.

### For Ericsson node

Route and Access Code for the trunk Information- Note Routes 100 & 101 are for the PRI trunks.

```
<RONDV:ROU=ALL;  
ROUTE NUMBER DATA
```

ROU	PRE	ROUDIR	EXNOPU	EXNOPR	TERAC
1					
6					
8					
11				6-777	
12				6-777	
13					
39					
40					
100					
101					

```
END
```



## Number Analysis Summary

### For Ericsson node

#### <NADAP;

#### NUMBER ANALYSIS DATA

TYPE OF SERIES	NUMBER SERIES
EXTENSION NUMBER SERIES	1001 - 1199
	4500 - 4508

EXTERNAL DESTINATION CODE	122
	125
	21
	235
	25
	30 - 38
	40
	42
	50
	550 - 560
	650
	666
	777
	9

ABBREVIATED COMMON NUMBER SERIES 1200

OWN EXCHANGE NUMBER SERIES	888
----------------------------	-----

TYPE OF SERVICE CODE	SERVICE CODE
----------------------	--------------

#### EXTERNAL NUMBER LENGTH DATA

EXTERNAL NUMBER	NUMBER LENGTH
122	4 - 4
125	4 - 4
235	7 - 7
40	4 - 4
42	4 - 4
50	4 - 4
550	4
551	3
554	4 - 10
650	10 - 10
666	3 - 7
777	4 - 4
9	8 - 8

#### PROCEED TO SEND SIGNAL DATA

EXTERNAL NUMBER	POS. TYPE
-----------------	-----------

#### CALL DISCRIMINATION DATA

EXTERNAL/INTERNAL NUMBER	CAT
--------------------------	-----



END



## Overlap/Enbloc sending

First remove access code

```
<NANLR:EXL=50;
```

To do overlap sending

```
<NANLS:EXL=50,MIN=2,MAX=4;
```

To do Enbloc sending

```
<NANLS:EXL=50,MIN=4,MAX=4;
```

## Key System Directory

### For Ericsson node

```
<KSDDP:DIR=ALL;
```

KEY SYSTEM DIRECTORY DATA

DIR	CUST	EQU	CAT	ADN	ODN	CALALT	TIMER
1151		001-0-20-00	-			1	0
1152		001-0-20-01	-			1	0
<b>1153</b>		<b>001-0-20-02</b>	<b>-</b>			<b>1</b>	<b>0</b>
1154		001-0-20-03	-			1	0
1155		001-0-20-04	-			1	0
<b>1156</b>		<b>001-0-20-05</b>	<b>-</b>			<b>1</b>	<b>0</b>
1157		001-0-20-06	-			1	0
1158		001-0-20-07	-			1	0
1159		001-0-20-08	-			1	0
1160		001-0-20-09	-			1	0
1161		001-0-20-10	-			1	0
1162		001-0-20-11	-			1	0
1163		001-0-20-12	-			1	0
1164		001-0-20-13	-			1	0
1165		001-0-20-14	-			1	0

END



## Calling/Connected Name and Number Restrictions

### For Ericsson node

<KSCAP:DIR=ALL;

KEY SYSTEM CATEGORY PRINT

DIR	TRAF	SERV	CDIV	ROC	ITYPE	TRM	ADC	LANG	BSEC
1151	03151515	0211120700	011151111	720004	19	0	00100013010000	0	0
1152	03151515	0211120700	011151111	720004	19	0	00100013010000	0	0
<b>1153</b>	<b>00151515</b>	<b>0202720500</b>	<b>011151111</b>	<b>000001</b>	<b>19</b>	<b>0</b>	<b>00100013010000</b>	<b>0</b>	<b>0</b>
1154	03151515	0211120700	111151111	720004	20	0	00100013001000	0	0
1155	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
<b>1156</b>	<b>00151515</b>	<b>0202720500</b>	<b>011151111</b>	<b>000001</b>	<b>19</b>	<b>0</b>	<b>00100013010000</b>	<b>0</b>	<b>0</b>
1157	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1158	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1159	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1160	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1161	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1162	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1163	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1164	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1165	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0





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

```
<KSCAC:DIR=1154&&1155,ADC=0010013010000;
```

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="ONE",PRES=20; //ADD NAME
```

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

#### For Ericsson node

```
<NIINP:DIR=ALL;  
EXTENSION NAMES
```

DIR	NAME1	NAME2	PRES	INFO
1051	REAL MOFO		11	
1063	V-MAIL P-1		11	
1064	V-MAIL P-2		11	
1151	MX-ONE TSW-SP2	ONE	10	
1152	MX-ONE TSW-SP2	TWO	10	
<b>1153</b>	<b>ZORGON</b>		10	
1154	MX-ONE TSW-SP2	FOUR	10	
1155	MX-ONE TSW-SP2	FIVE	10	
<b>1156</b>	<b>reav</b>		10	
1157	MX-ONE TSW-SP2	SEVEN	10	
1158	MX-ONE TSW-SP2	EIGHT	10	
1159	MX-ONE TSW-SP2	NINE	10	
1160	MX-ONE TSW-SP2	ZERO	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.
```

To print parameter's value, use the following command:

### For Ericsson node

```
<ASPAP:PARNUM=66;  
APPLICATION SYSTEM PARAMETERS  
PARNUM      PARVAL  
    66          1  
END
```

## Call Diversion on Busy/No Reply

### For Ericsson node

```
<CDIDP:DIR=ALL;  
CALL DIVERSION INDIVIDUAL DATA  
DIR          DIV  
1152         4500  
1154         4500  
1155         4500  
1157         4500  
1158         4500  
1159         4500  
1160         4500  
1161         4500  
1162         4500  
1163         4500  
1164         4500  
1165         4500  
END
```

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

```
<CDINI:DIR=1153,DIV=5001; // CALL DIVERSION INDIVIDUAL NUMBER INITIATE
```

```
<CDINE:DIR=1153;          // 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
```

### For Ericsson node

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

<ASPAP:PARNUM=121;
APPLICATION SYSTEM PARAMETERS
PARNUM    PARVAL
    121    12
END
```

## Network Services

```
<ASPAC:PARNUM=223,PARVAL=7;    // Network Features: Standard SS-Call Forwarding,
Standard SS-Call Transfer, Path Replacement for route optimization.
```

### For Ericsson node

```
<ASPAP:PARNUM=223;
APPLICATION SYSTEM PARAMETERS
PARNUM    PARVAL
    223    7
END
```



Ericsson MD-110 Software Version

**For Ericsson node**

**CADAP;**

CALENDAR DATA

IDENTITY=ACM1

VERSION=CXP1010101/4/TSWSP03/R4A

16:43:21

MON 16 JUL 2007

END



## Configuring the Cisco Unified Communications Manager 6.0

Software Version

Software Version – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**Cisco Unified CM Administration**  
System version: 6.0.1.1000-37

Username

Password

Login Reset

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If you require further assistance please contact us by sending email to [export@cisco.com](mailto:export@cisco.com).



ECMA Parameter


ECMA Service Parameter – 1 of 1.

Clusterwide Parameters (Device - PRI and MGCP Gateway)		
<a href="#">ASN.1 ROSE OID Encoding</a> *	Use Global Value (ECMA) <input type="button" value="v"/>	Use Local Value
<a href="#">QSIG Variant</a> *	ECMA (Protocol Profile 0x91) <input type="button" value="v"/>	ISO (Protocol Profile 0x9F)



## Voice Gateways

### Cisco Unified Voice Gateways – 1 of 1.






**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions


Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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


Find and List Gateway

 Add New  Select All  Clear All  Delete Selected  Reset Selected

**Status**  
 1 records found

**Gateways (1 - 1 of 1)** Rows per Page 50 ▾

Find Gateways where Name ▾ begins with ▾ Hide ▾ endpoints Find Clear Filter + -  
Select item or enter search text ▾

<input type="checkbox"/>	Device Name	Description	Device Pool	Calling Search Space	Extension	Partition	Route Group	Priority	Port	Device Type	Status	IP Address
<input type="checkbox"/>	 <a href="#">2851_pbx</a>	2851_pbx								Cisco 2851	<a href="#">See Endpoints</a>	

Add New Select All Clear All Delete Selected Reset Selected





## Cisco Unified Voice Gateway 2851 – 1 of 2.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

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

Save Delete Reset Add New

**Status**  
 Status: Ready

**Gateway Details**

Product	Cisco 2851
Gateway	2851_pbx
Protocol	MGCP
Domain Name*	<input type="text" value="2851_pbx"/>
Description	<input type="text" value="2851_pbx"/>
Cisco Unified Communications Manager Group*	<span>Default</span>

**Configured Slots, VICs and Endpoints**

Module in Slot 0	<span>&lt; None &gt;</span>		
Module in Slot 1	<span>NM-HD-2VE</span>		
Subunit 0	<span>VWIC-2MFT-E1</span>	1/0/ 0	1/0/ 1
Subunit 1	<span>&lt; None &gt;</span>		
Module in Slot 2	<span>&lt; None &gt;</span>		

**Product Specific Configuration Layout**



## Cisco Unified Voice Gateway 2851 – 2 of 2.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

**Gateway Configuration** Related Links: Back To Find/List Go

Save Delete Reset Add New

**Configured Slots, VICs and Endpoints**

Module in Slot 0 < None >  
Module in Slot 1 NM-HD-2VE  
Subunit 0 VWIC-2MFT-E1 1/0/ 0 1/0/ 1   
Subunit 1 < None >  
Module in Slot 2 < None >

**Product Specific Configuration Layout**

Global ISDN Switch Type primary-qsig  
Switchback Timing\* Graceful  
Switchback uptime-delay (min) 10  
Switchback schedule (hh:mm) 12:00  
Type Of DTMF Relay\* Current GW Config

Save Delete Reset Add New

\*- indicates required item.



## Cisco 2851 E1 PRI QSIG Trunk 1/0/0- 1 of 5.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Reset

**Status**  
 Status: Ready

**Device Information**

Product	Cisco MGCP E1 Port
Gateway	2851_pbx
Device Protocol	Digital Access PRI
Registration	Registered with Cisco Unified Communications Manager CM-SATURN
IP Address	172.20.33.128
End-Point Name *	S1/SU0/DS1-0@2851_pbx
Description	<input type="text" value="S1/SU0/DS1-0@2851_pbx"/>
Device Pool*	<input type="text" value="Default"/>
Common Device Configuration	<input type="text" value=" &lt; None &gt;"/>
Call Classification*	<input type="text" value=" Use System Default"/>
NetworkLocale	<input type="text" value=" &lt; None &gt;"/>
Packet Capture Mode*	<input type="text" value=" None"/>
Packet Capture Duration	<input type="text" value=" 0"/>
Media Resource Group List	<input type="text" value=" &lt; None &gt;"/>
Location*	<input type="text" value=" Hub_None"/>
ADP Group	<input type="text" value=""/>



## Cisco 2851 E1 PRI QSIG Trunk 1/0/0- 2 of 5.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Gateway Configuration** Related Links: Back to MGCP Configuration Go

Save Delete Reset

Media Resource Group List < None >

Location\* Hub\_None

AAR Group < None >

Load Information

☐ Transmit UTF-8 for Calling Party Name

☐ V150 (subset)

**Multilevel Precedence and Preemption (MLPP) Information**

MLPP Domain < None >

MLPP Indication Not available on this device

MLPP Preemption Not available on this device

**Interface Information**

PRI Protocol Type\* PRI ISO QSIG E1

Protocol Side\* User

Channel Selection Order\* Top Down

Channel IE Type\* Timeslot Number

PCM Type\* A-law

Delay for first restart (1/8 sec ticks)\* 32



## Cisco 2851 E1 PRI QSIG Trunk 1/0/0- 3 of 5.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Reset

PCM Type\* A-law

Delay for first restart (1/8 sec ticks)\* 32

Delay between restarts (1/8 sec ticks)\* 4

☒ Inhibit restarts at PRI initialization

☐ Enable status poll

☐ Unattended Port

**Call Routing Information - Inbound Calls**

Significant Digits\* All

Calling Search Space < None >

AAR Calling Search Space < None >

Prefix DN

**Call Routing Information - Outbound Calls**

Calling Party Presentation\* Default

Calling Party Selection\* Originator

Called party IE number type unknown\* Subscriber

Calling party IE number type unknown\* Subscriber

Called number type unknown\*



## Cisco 2851 E1 PRI QSIG Trunk 1/0/0- 4 of 5.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Reset

Called party IE number type unknown*	<span>Subscriber</span>
Calling party IE number type unknown*	<span>Subscriber</span>
Called Numbering Plan*	<span>Private</span>
Calling Numbering Plan*	<span>Private</span>
Number of digits to strip*	<span>0</span>
Caller ID DN	
SMDI Base Port*	<span>0</span>

**PRI Protocol Type Specific Information**

☒ Display IE Delivery

☐ Redirecting Number IE Delivery - Outbound

☒ Redirecting Number IE Delivery - Inbound

☒ Send Extra Leading Character in Display IE\*\*\*

☒ Setup non-ISDN Progress Indicator IE Enable\*\*\*\*

☒ MCDN Channel Number Extension Bit Set to Zero\*\*

☒ Send Calling Name In Facility IE

☒ Interface Identifier Present\*\*

Interface Identifier Value\*\* 0



## Cisco 2851 E1 PRI QSIG Trunk 1/0/0- 5 of 5.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Gateway Configuration** Related Links: Back to MGCP Configuration Go

Save Delete Reset

☐ Interface Identifier Present\*\*

Interface Identifier Value\*\*

Connected Line ID Presentation (QSIG Inbound Call)\* Default

**UUIE Configuration**

☐ Passing Precedence Level Through UUIE

Security Access Level\*

**Product Specific Configuration Layout**

Line Coding\* HDB3

Framing\* CRC4

Clock\* External

Input Gain (-6..14 db)\*

Output Attenuation (-6..14 db)\*

Echo Cancellation Enable\* Enable


Echo Cancellation Coverage (ms)\* 24

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Page 31 of 114



## Route Patterns

### Route Patterns – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions


Navigation **Cisco Unified CM Administration**

**administrator** | [About](#) | [Logout](#)

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








**Find and List Route Patterns**

Add New

**Status**  
 7 records found

**Route Patterns (1 - 7 of 7)** Rows per Page 50 ▾

Find Route Patterns where

<input type="checkbox"/>	Pattern ^	Description	Partition	Route Filter	Associated Device	Copy
<input type="checkbox"/>	<a href="#">11XX</a>	to Ericsson 2			<a href="#">S1/SU0/DS1-0@2851_pbx</a>	
<input type="checkbox"/>	<a href="#">12XX</a>	to Ericsson 1			<a href="#">S1/SU0/DS1-1@2851_pbx</a>	
<input type="checkbox"/>	<a href="#">42XX</a>	to pstn			<a href="#">S1/SU0/DS1-0@2851_pbx</a>	
<input type="checkbox"/>	<a href="#">4500</a>	route to Ericsson VM			<a href="#">S1/SU0/DS1-0@2851_pbx</a>	
<input type="checkbox"/>	<a href="#">777</a>	to Ericsson 1 node ID			<a href="#">S1/SU0/DS1-1@2851_pbx</a>	
<input type="checkbox"/>	<a href="#">888</a>	to Ericsson 2 node ID			<a href="#">S1/SU0/DS1-0@2851_pbx</a>	
<input type="checkbox"/>	<a href="#">9.X</a>	overlap to Ericsson 2			<a href="#">S1/SU0/DS1-0@2851_pbx</a>	





### 11xx ENBLOC Route Pattern – 1 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Copy Add New

**Status**  
 Status: Ready

**Pattern Definition**  
Route Pattern\*   
Route Partition < None >  
Description   
Numbering Plan -- Not Selected --  
Route Filter < None >  
MLPP Precedence\* Default  
Gateway/Route List\* S1/SU0/DS1-0@2851\_pbx [\(Edit\)](#)  
Route Option  
☒ Route this pattern  
☐ Block this pattern No Error  
Call Classification\* OnNet  
☐ Allow Device Override ☐ Provide Outside Dial Tone ☐ Allow Overlap Sending ☐ Urgent Priority  
☐ Require Forced Authorization Code  
Authorization Level\*



### 11xx ENBLOC Route Pattern – 2 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

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

Save Delete Copy Add New

☐ 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\* 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)



### 11xx ENBLOC Route Pattern – 3 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Copy Add New

**Connected Party Transformations**

Connected Line ID Presentation\* Default

Connected Name Presentation\* Default

**Called Party Transformations**

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol -- Not Selected --

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
<span>-- Not Selected --</span>	<span>&lt; Not Exist &gt;</span>	

Save Delete Copy Add New

\*- indicates required item.



## 9.X Overlap Route Pattern – 1 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

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

Save Delete Copy Add New

**Status**  
Update successful

**Pattern Definition**  
Route Pattern\*   
Route Partition < None >  
Description   
Numbering Plan -- Not Selected --  
Route Filter < None >  
MLPP Precedence\* Default  
Gateway/Route List\* S1/SU0/DS1-0@2851\_pbx [\(Edit\)](#)  
Route Option  
☒ Route this pattern  
☐ Block this pattern No Error  
Call Classification\* OffNet  
☐ Allow Device Override ☒ Provide Outside Dial Tone ☒ Allow Overlap Sending ☐ Urgent Priority  
☐ Require Forced Authorization Code  
Authorization Level\*



## 9.X Overlap Route Pattern – 2 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

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

Save Delete Copy Add New

☐ 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\* 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)



## 9.X Overlap Route Pattern – 3 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

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

Save Delete Copy Add New

**Connected Party Transformations**

Connected Line ID Presentation\* Default

Connected Name Presentation\* Default

**Called Party Transformations**

Discard Digits PreDot

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol -- Not Selected --

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
<span>-- Not Selected --</span>	<span>&lt; Not Exist &gt;</span>	

Save Delete Copy Add New

\*- indicates required item.



## Calling Line ID Restriction

### CLIR on 11xx Route Pattern – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

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

Save Delete Copy Add New

☐ 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\* Restricted

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)



## Translation Patterns

### List Translation Patterns – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

administrator | About | Logout

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


### Find and List Translation Patterns

Add New

**Status**  
 2 records found

**Translation patterns (1 - 2 of 2)** Rows per Page: 50 ▾

Find Translation patterns where  begins with

<input type="checkbox"/>		Translation Pattern ^	Partition	Description	Route Filter	Copy
<input type="checkbox"/>		<a href="#">235.XXXX</a>		235.XXXX		
<input type="checkbox"/>		<a href="#">5010</a>		translation pattern for Connected Restriction		





## Translation Pattern 5010 – 1 of 2.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Copy Add New

**Status**  
 Status: Ready

**Pattern Definition**  
Translation Pattern   
Partition < None >  
Description   
Numbering Plan < None >  
Route Filter < None >  
MLPP Precedence\* Default  
Calling Search Space < None >  
Route Option  
☒ Route this pattern  
☐ Block this pattern No Error  
☒ Provide Outside Dial Tone  
☒ Urgent Priority

**Calling Party Transformations**  
☒ Use Calling Party's External Phone Number Mask



## Translation Pattern 5010 – 2 of 2.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Copy Add New

**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)


Save Delete Copy Add New

\*- indicates required item.



## Connected Line ID Restriction

### Translation Pattern 5010 - Connected Name / Number Restriction for 5001 – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

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

Save  Delete  Copy  Add New

☒ 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\* Restricted ▾

**Called Party Transformations**

Discard Digits < None > ▾

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Save Delete Copy Add New

\*- indicates required item.



## Call Back

### Call Back Service Parameters – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Set to Default Condensed

**Clusterwide Parameters (Feature - Call Back)**

<a href="#">Call Back Enabled Flag</a> *	<input type="text" value="True"/>	True
<a href="#">Call Back Notification Audio File Name</a> *	<input type="text" value="CallBack.raw"/>	CallBack.raw
<a href="#">Connection Proposal Type</a> *	<input type="text" value="Connection Retention"/>	Connection Retention
<a href="#">Connection Response Type</a> *	<input type="text" value="Default to Connection Retention"/>	Default to Connection Retention
<a href="#">Call Back Request Protection T1 Timer</a> *	<input type="text" value="10"/>	10
<a href="#">Call Back Recall T3 Timer</a> *	<input type="text" value="20"/>	20
<a href="#">Call Back Calling Search Space</a>	<input type="text" value="&lt; None &gt;"/>	
<a href="#">No Path Reservation</a> *	<input type="text" value="True"/>	True
<a href="#">Set Private Numbering Plan for Call Back</a> *	<input type="text" value="False"/>	False

**Clusterwide Parameters (Feature - Call Recording)**


<a href="#">Play Recording Notification Tone To Observed Target</a> *	<input type="text" value="False"/>	False
<a href="#">Play Recording Notification Tone To Observed Connected Parties</a> *	<input type="text" value="False"/>	False

**Clusterwide Parameters (Feature - Monitoring)**

<a href="#">Play Monitoring Notification Tone To Observed Target</a> *	<input type="text" value="False"/>	False
<a href="#">Play Monitoring Notification Tone To Observed Connected Parties</a> *	<input type="text" value="False"/>	False



## Soft Key Templates – 1 of 1.





**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions


Navigation Cisco Unified CM Administration Go

administrator | About | Logout


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








### Find and List Softkey Templates

 Add New  Select All  Clear All  Delete Selected

**Status**  
 7 records found

**Softkey Template (1 - 7 of 7)** Rows per Page 50

Find Softkey Template where Name ▾ begins with ▾  and where softkey template is Both ▾ Find Clear Filter  

<input type="checkbox"/>	Name ^	Description	Copy
<input type="checkbox"/>	<a href="#">Standard Assistant</a>	Standard template for assistant phones	
<input type="checkbox"/>	<a href="#">Standard Feature</a>	Standard Softkey Template for CM Combined Feature	
<input type="checkbox"/>	<a href="#">Standard Manager</a>	Standard template for proxy mode manager phones	
<input type="checkbox"/>	<a href="#">Standard Shared Mode Manager</a>	Standard template for shared mode manager phones	
<input type="checkbox"/>	<a href="#">Standard User</a>	Standard Softkey Template for CallManager only	
<input type="checkbox"/>	<a href="#">Standard User iDiver</a>	Standard Softkey Template for CCM w/ iDiver	
<input type="checkbox"/>	<a href="#">Standard User CB</a>	Standard Softkey Template for CallManager only	

Add New Select All Clear All Delete Selected



## Call Back Soft Key – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Copy Add New Reset

**Status**  
 Status: Ready

**Softkey Template Information**  
Name\*   
Description   
Applications\*   
☐ Default Softkey Template  

[Add Application](#)  
[Remove Application](#)

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

\*- indicates required item.



## Call Back Soft Key Layout – On hook – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

**Softkey Template Configuration** Related Links: Softkey Template Configuration Go

Save Reset

**Status**  
 Status: Ready

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

Unselected Softkeys  
Conference List (ConfList)  
Direct Transfer (DirTrfr)  
Group Pick Up (GPickUp)  
HLog (HLog)  
Immediate Divert (iDivert)  
Join (Join)  
Meet Me (MeetMe)  
Mobility (Mobility)  
Other Pickup (oPickup)  
Pick Up (PickUp)  
Quality Report Tool (QRT)  
Remove Last Conference Party (RmLstC)  
Select (Select)  
Toggle Do Not Disturb (DND)  
Undefined (Undefined)  
Video Mode Command (VidMode)

>  
<

Selected Softkeys (ordered by position)\*\*  
Redial (Redial)  
\*\*NewCall (NewCall)  
Forward All (CfwdAll)  
Call Back (CallBack)

<  
>

Save Reset



## Call Back Soft Key Layout – Ring out – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Reset

**Status**  
 Status: Ready

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

Unselected Softkeys  
Toggle Do Not Disturb (DND)  
Undefined (Undefined)

Selected Softkeys (ordered by position)\*\*  
Undefined (Undefined)  
End Call (EndCall)  
Call Back (CallBack)

Save Reset





## Phone x5001 set up for Call Back (Call Back Softkey Template Applied) – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Phone Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Status**  
 Status: Ready

**Association Information**  

Modify Button Items

1 [Line \[1\] - 5001 \(no partition\)](#)

2 [Line \[2\] - 1221 \(no partition\)](#)

3 [Add a new SD](#)

4 [Add a new SD](#)

5 [Add a new SD](#)

6 [Add a new SD](#)

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

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

8 [Add a new SD](#)

9 [Add a new SURF](#)

10 [Add a new BLF SD](#)

**Phone Type**  
**Product Type:** Cisco 7960  
**Device Protocol:** SCCP

**Device Information**  
Registration Registered with Cisco Unified Communications Manager CM-SATURN  
IP Address [172.20.235.101](#)  
MAC Address\*   
Description   
Device Pool\* Default View Details  
Common Device Configuration < None > View Details  
Phone Button Template\* Standard 7960 SCCP  
Softkey Template Standard User CB  
Common Phone Profile\* Standard Common Phone Profile  
Calling Search Space < None >  
AAR Calling Search Space < None >

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Page 49 of 114



## Route Optimization

### Path Replacement Service Parameter – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration

administrator | About | Logout

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

Service Parameter Configuration Related Links: Parameters for All Servers

**Clusterwide Parameters (Feature - Path Replacement)**

<a href="#">Path Replacement Enabled</a> *	<input type="text" value="True"/>	False
<a href="#">Path Replacement on Tromboned Calls</a> *	<input type="text" value="True"/>	True
<a href="#">Start Path Replacement Minimum Delay Time</a> *	<input type="text" value="20"/>	0
<a href="#">Start Path Replacement Maximum Delay Time</a> *	<input type="text" value="30"/>	0
<a href="#">Path Replacement T1 Timer</a> *	<input type="text" value="30"/>	30
<a href="#">Path Replacement T2 Timer</a> *	<input type="text" value="15"/>	15
<a href="#">Path Replacement PINX ID</a>	<input type="text" value="235"/>	
<a href="#">Path Replacement Calling Search Space</a>	<input type="text" value=" &lt; None &gt;"/>	

**Clusterwide Parameters (Feature - Call Back)**

<a href="#">Call Back Enabled Flag</a> *	<input type="text" value="True"/>	True
<a href="#">Call Back Notification Audio File Name</a> *	<input type="text" value="CallBack.raw"/>	CallBack.raw
<a href="#">Connection Proposal Type</a> *	<input type="text" value="Connection Retention"/>	Connection Retention
<a href="#">Connection Response Type</a> *	<input type="text" value="Default to Connection Retention"/>	Default to Connection Retention
<a href="#">Call Back Request Protection T1 Timer</a> *	<input type="text" value="10"/>	10
<a href="#">Call Back Recall T3 Timer</a> *	<input type="text" value="20"/>	20
<a href="#">Call Back Calling Search Space</a>	<input type="text" value=" &lt; None &gt;"/>	



## Reroute Service Parameter – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

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

Save Set to Default Advanced

Advanced Ad Hoc Conference Enabled \* False False

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

**Clusterwide Parameters (Feature - Forward)**

<span>Forward Maximum Hop Count *</span>	<input type="text" value="12"/>	12
<span>Forward No Answer Timer *</span>	<input type="text" value="12"/>	12
<span>Max Forward Hops to DN *</span>	<input type="text" value="12"/>	12
<span>Retain Forward Information *</span>	<span>False</span>	False
<span>Forward By Reroute Enabled *</span>	<span>True</span>	False
<span>Transform Forward by Reroute Destination *</span>	<span>True</span>	True
<span>Always Forward Switch Voice Mail Calls *</span>	<span>True</span>	True
<span>Forward By Reroute T1 Timer *</span>	<input type="text" value="10"/>	10
<span>Include Original Called Info for Q.SIG Call Diversions *</span>	<span>Only after the first diversion</span>	Only after the first diversion
<span>Max Forward UnRegistered Hops to DN *</span>	<input type="text" value="0"/>	0
<span>CFA CSS Activation Policy *</span>	<span>With Configured CSS</span>	With Configured CSS

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

**Clusterwide Parameters (Feature - Hold Reversion)**

<span>Hold Reversion Duration *</span>	<input type="text" value="0"/>	0
--	--------------------------------	---



## IP Phones

### IP Phones – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Find and List Phones** Related Links: Actively Logged In Device Report Go

Add New  Select All  Clear All  Delete Selected  Reset Selected

**Status**

8 records found

**Phone (1 - 8 of 8)** Rows per Page 50

Find Phone where Device Name begins with Find Clear Filter    
Select item or enter search text

<input type="checkbox"/>		Device Name(Line) ^	Description	Device Pool	Device Protocol	Status	IP Address	Copy	Super Copy
<input type="checkbox"/>		<a href="#">SEP0002FD06DF77</a>	Auto 5002	<a href="#">Default</a>	SCCP	Registered with CM-SATURN	<a href="#">172.20.235.100</a>		
<input type="checkbox"/>		<a href="#">SEP0003E362FED4</a>	Auto 5001	<a href="#">Default</a>	SCCP	Registered with CM-SATURN	<a href="#">172.20.235.101</a>		
<input type="checkbox"/>		<a href="#">SEP000B5FD22FE8</a>	SEP000B5FD22FE8	<a href="#">Default</a>	SIP	Unknown	Unknown		
<input type="checkbox"/>		<a href="#">SEP000BBEF9E87D</a>	SEP000BBEF9E87D	<a href="#">Default</a>	SIP	Unknown	Unknown		
<input type="checkbox"/>		<a href="#">SEP00124362B4C5</a>	Auto 5003	<a href="#">Default</a>	SCCP	Registered with CM-SATURN	<a href="#">172.20.235.105</a>		
<input type="checkbox"/>		<a href="#">SEP00170EEE3279</a>	Auto 5006	<a href="#">Default</a>	SIP	Registered with CM-SATURN	<a href="#">172.20.235.111</a>		
<input type="checkbox"/>		<a href="#">SEP00170EEE32C6</a>	Auto 5007	<a href="#">Default</a>	SIP	Unregistered	<a href="#">172.20.235.110</a>		
<input type="checkbox"/>		<a href="#">SEP003094C32A35</a>	Auto 5000	<a href="#">Default</a>	SCCP	Registered with CM-SATURN	<a href="#">172.20.235.106</a>		

Add New Select All Clear All Delete Selected Reset Selected



## Cisco Unified IP Phone 7960, x5001, SCCP – 1 of 7.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Phone Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Status**  
 Status: Ready

**Association Information**  
Modify Button Items  

1	<a href="#">Line [1] - 5001 (no partition)</a>
2	<a href="#">Line [2] - 1221 (no partition)</a>
3	<a href="#">Add a new SD</a>
4	<a href="#">Add a new SD</a>
5	<a href="#">Add a new SD</a>
6	<a href="#">Add a new SD</a>
----- Unassigned Associated Items -----	
7	<a href="#">Line [3] - Add a new DN</a>
8	<a href="#">Add a new SD</a>
9	<a href="#">Add a new SURL</a>
10	<a href="#">Add a new BLF SD</a>


**Phone Type**  
**Product Type:** Cisco 7960  
**Device Protocol:** SCCP

**Device Information**  
Registration Registered with Cisco Unified Communications Manager CM-SATURN  
IP Address [172.20.235.101](#)  
MAC Address\*   
Description   
Device Pool\*  [View Details](#)  
Common Device Configuration  [View Details](#)  
Phone Button Template\*   
Softkey Template   
Common Phone Profile\*   
Calling Search Space   
AAR Calling Search Space





## Cisco Unified IP Phone 7960, x5001, SCCP – 2 of 7.






**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions


Navigation Cisco Unified CM Administration Go


administrator | About | Logout


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

Phone Configuration Related Links: Back To Find/List Go

 Save  Delete  Copy  Reset  Add New

9  [Add a new SURF](#)

10  [Add a new BLF SD](#)

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

12 Privacy

13 None

Common Phone Profile

Standard Common Phone Profile

Calling Search Space < None >

AAR Calling Search Space < None >

Media Resource Group List < None >

User Hold MOH Audio Source < None >

Network Hold MOH Audio Source < None >

Location\* Hub\_None

AAR Group < None >

User Locale < None >

Network Locale < None >

Built In Bridge\* Default

Privacy\* Default

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

Owner User ID < None >

Phone Load Name

☒ Retry Video Call as Audio

☐ Ignore Presentation Indicators (internal calls only)



## Cisco Unified IP Phone 7960, x5001, SCCP – 3 of 7.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Phone Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

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

**Protocol Specific Information**  
Packet Capture Mode\* None  
Packet Capture Duration 0  
Presence Group\* Standard Presence group  
Device Security Profile\* Cisco 7960 - Standard SCCP Non-Secure Profile  
SUBSCRIBE Calling Search Space < None >  
☐ Unattended Port  
☐ Require DTMF Reception  
☐ RFC2833 Disabled

**Certification Authority Proxy Function (CAPF) Information**  
Certificate Operation\* No Pending Operation  
Authentication Mode\* ...



## Cisco Unified IP Phone 7960, x5001, SCCP – 4 of 7.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration Go

administrator | About | Logout

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

Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Certification Authority Proxy Function (CAPF) Information**

Certificate Operation\*  
No Pending Operation

Authentication Mode\*  
By Null String

Authentication String  

Generate String

Key Size (Bits)\*  
1024

Operation Completes By  
2007 6 30 12 (YYYY:MM:DD:HH)

Certificate Operation Status: None

Note: Security Profile Contains Addition CAPF Settings.

**Expansion Module Information**

Module 1  
< None >

Module 1 Load Name

Module 2  
< None >

Module 2 Load Name

**External Data Locations Information (Leave blank to use default)**

Information

Directory





## Cisco Unified IP Phone 7960, x5001, SCCP – 5 of 7.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Enter user extension information (leave blank to use default)

Information

Directory

Messages

Services

Authentication Server

Proxy Server

Idle

Idle Timer (seconds)

**Extension Information**

☐ Enable Extension Mobility

Log Out Profile -- Use Current Device Settings --

Log in Time < None >

Log out Time < None >

**MLPP Information**

MLPP Domain < None >

MLPP Indication\* Default



## Cisco Unified IP Phone 7960, x5001, SCCP – 6 of 7.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Phone Configuration** Related Links: Back To Find/List Go

Save  Delete  Copy  Reset  Add New

**MLPP Information**

MLPP Domain

< None >

MLPP Indication\*

Default

MLPP Preemption\*

Default

**Do Not Disturb**

☐ Do Not Disturb

DND Option\*

Ringer Off

DND Incoming Call Alert

< None >

**Product Specific Configuration Layout**

☐ Disable Speakerphone

☐ Disable Speakerphone and Headset

PC Port \*

Enabled

Settings Access\*

Enabled

Gratuitous ARP\*

Enabled

PC Voice VLAN Access\*

Enabled

Video Capabilities\*

Disabled



## Cisco Unified IP Phone 7960, x5001, SCCP – 7 of 7.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Copy Reset Add New

**Product Specific Configuration Layout**

☐ Disable Speakerphone

☐ Disable Speakerphone and Headset

PC Port \* Enabled

Settings Access \* Enabled

Gratuitous ARP \* Enabled

PC Voice VLAN Access \* Enabled

Video Capabilities \* Disabled

Auto Line Select \* Disabled

Web Access \* Enabled

Save Delete Copy Reset Add New

\*- indicates required item.

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

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



Line 5001 – 1 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

**Directory Number Configuration** Related Links: Configure Device (SEP0003E362FED4) Go

Save Delete Reset Add New

**Status**  
 Status: Ready

**Directory Number Information**  
Directory Number\*   
Route Partition < None > ▾  
Description   
Alerting Name   
ASCII Alerting Name   
☒ Allow Control of Device from CTI  
Associated Devices   

▼ ▲

Edit Device  
Edit Line Appearance

Dissociate Devices



Line 5001 – 2 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Directory Number Configuration** Related Links: Configure Device (SEP0003E362FED4) Go

Save Delete Reset Add New

**Directory Number Settings**

Voice Mail Profile

< None >

(Choose <None> to use system default)

Calling Search Space

< None >

Presence Group\*

Standard Presence group

User Hold MOH Audio Source

< None >

Network Hold MOH Audio Source

< None >

Auto Answer\*

Auto Answer Off

**AAR Settings**

Voice Mail

AAR

☐ or

☒ Retain this destination in the call forwarding history

AAR Destination Mask

AAR Group

< None >

**Call Forward and Call Pickup Settings**

Voice Mail

Calling Search Space Activation Policy

Destination

Calling Search Space

Use System Default



Line 5001 – 3 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP0003E362FED4) Go

Save  Delete  Reset  Add New

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			<span>Use System Default</span>
Forward All	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Secondary Calling Search Space for Forward All			<span>&lt; None &gt;</span>
Forward Busy Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward Busy External	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward No Answer Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward No Answer External	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward No Coverage Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward No Coverage External	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward on CTI Failure	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward Unregistered Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
Forward Unregistered External	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<span>&lt; None &gt;</span>
No Answer Ring Duration (seconds)	<input type="text"/>		
Call Pickup Group	<span>&lt; None &gt;</span>		



## Line 5001 – 4 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

**Directory Number Configuration** Related Links: Configure Device (SEP0003E362FED4) Go

Save Delete Reset Add New

Call Pickup Group < None >

**MLPP Alternate Party Settings**

Target (Destination)

MLPP Calling Search Space

< None >

MLPP No Answer Ring Duration (seconds)

**Line Settings for All Devices**

Hold Reversion Ring Duration (seconds)

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

Hold Reversion Notification Interval (seconds)

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

**Line 1 on Device SEP0003E362FED4**

Display (Internal Caller ID)

Phone5001

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

ASCII Display (Internal Caller ID)

Phone5001

Line Text Label

Phone5001

ASCII Line Text Label

Phone5001





## Line 5001 – 5 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) | [Call Routing](#) | [Media Resources](#) | [Voice Mail](#) | [Device](#) | [Application](#) | [User Management](#) | [Bulk Administration](#) | [Help](#)

**Directory Number Configuration** Related Links: [Configure Device \(SEP0003E362FED4\)](#) Go

Save Delete Reset Add New

Line Text Label

Phone5001

ASCII Line Text Label

Phone5001

External Phone Number Mask

Visual Message Waiting Indicator Policy\*

Use System Policy

Ring Setting (Phone Idle)\*

Ring

Ring Setting (Phone Active)

Use System Default

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

Call Pickup Group Audio Alert Setting(Phone Idle)

Use System Default

Call Pickup Group Audio Alert Setting(Phone Active)

Use System Default

Monitoring Calling Search Space

< None >

**Multiple Call/Call Waiting Settings on Device SEP0003E362FED4**

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

Maximum Number of Calls\*

4

Busy Tripper\*

2

(Less than or equal to Max Calls)





Line 5001 – 6 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP0003E362FED4) Go

Save Delete Reset Add New

**Multiple Call/Call Waiting Settings on Device SEP0003E362FED4**  
Note: The range to select the Max Number of calls is: 1-196  
Maximum Number of Calls\*   
Busy Trigger\*  (Less than or equal to Max. Calls)

**Forwarded Call Information Display on Device SEP0003E362FED4**  
☒ Caller Name  
☒ Caller Number  
☒ Redirected Number  
☒ Dialed Number

**Users Associated with Line**  

Associate End Users

Save Delete Reset Add New

\*- indicates required item.  
 \*\*- Changes to Line or Directory Number settings require restart.



## Cisco Unified IP Phone 7961, x5007, SIP – 1 of 8.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Phone Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Status**  
 Status: Ready

**Association Information**  
Modify Button Items

1	<a href="#">Line [1] - 5007 (no partition)</a>
2	<a href="#">Line [2] - Add a new DN</a>
3	<a href="#">Add a new SD</a>
4	<a href="#">Add a new SD</a>
5	<a href="#">Add a new SD</a>
6	<a href="#">Add a new SD</a>
----- Unassigned Associated Items -----	
7	<a href="#">Add a new SD</a>
8	<a href="#">Add a new SURL</a>
9	<a href="#">Add a new BLF SD</a>
10	<a href="#">Add a new BLF Directed Call Park</a>


**Phone Type**  
**Product Type:** Cisco 7961  
**Device Protocol:** SIP

**Device Information**

Registration	Registered with Cisco Unified Communications Manager CM-SATURN	
IP Address	<a href="#">172.20.235.110</a>	
MAC Address*	<input type="text" value="00170EEE32C6"/>	
Description	<input type="text" value="Auto 5007"/>	
Device Pool*	<input type="text" value="Default"/>	<a href="#">View Details</a>
Common Device Configuration	<input type="text" value="&lt; None &gt;"/>	<a href="#">View Details</a>
Phone Button Template*	<input type="text" value="Standard 7961 SIP"/>	
Softkey Template	<input type="text" value="&lt; None &gt;"/>	
Common Phone Profile*	<input type="text" value="Standard Common Phone Profile"/>	
Calling Search Space	<input type="text" value="&lt; None &gt;"/>	
AAR Calling Search Space	<input type="text" value="&lt; None &gt;"/>	



## Cisco Unified IP Phone 7961, x5007, SIP – 2 of 8.






**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions


Navigation Cisco Unified CM Administration Go


administrator | About | Logout


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

Phone Configuration Related Links: Back To Find/List Go

 Save  Delete  Copy  Reset  Add New

9  [Add a new BLF SD](#)

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

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

12 Do Not Disturb

13 Privacy

14 None

Common Phone Profile Standard Common Phone Profile

Calling Search Space < None >

AAR Calling Search Space < None >

Media Resource Group List < None >

User Hold MOH Audio Source < None >

Network Hold MOH Audio Source < None >

Location\* Hub\_None

AAR Group < None >

User Locale < None >

Network Locale < None >

Built In Bridge\* Default

Privacy\* Default

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

Owner User ID < None >

Phone Personalization\* Default

Phone Load Name

☐ Ignore Presentation Indicators (internal calls only)



## Cisco Unified IP Phone 7961, x5007, SIP – 3 of 8.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Phone Load Name

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

**Protocol Specific Information**

Packet Capture Mode\* None  
Packet Capture Duration 0  
Presence Group\* Standard Presence group  
SIP Dial Rules < None >  
MTP Preferred Originating Codec\* 711ulaw  
Device Security Profile\* Cisco 7961 - Standard SIP Non-Secure Profile  
Rerouting Calling Search Space < None >  
SUBSCRIBE Calling Search Space < None >  
SIP Profile\* Standard SIP Profile  
Digest User < None >  
☐ Media Termination Point Required



## Cisco Unified IP Phone 7961, x5007, SIP – 4 of 8.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Phone Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Digest User < None >

☐ Media Termination Point Required

☐ Unattended Port

☐ Require DTMF Reception

**Certification Authority Proxy Function (CAPF) Information**

Certificate Operation\* No Pending Operation

Authentication Mode\* By Null String

Authentication String

Generate String

Key Size (Bits)\* 1024

Operation Completes By 2007 6 30 12 (YYYY:MM:DD:HH)

Certificate Operation Status: None

Note: Security Profile Contains Addition CAPF Settings.

**External Data Locations Information (Leave blank to use default)**

Information

Directory

Messages



## Cisco Unified IP Phone 7961, x5007, SIP – 5 of 8.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Phone Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Directory

Messages

Services

Authentication Server

Proxy Server

Idle

Idle Timer (seconds)

**Extension Information**

☐ Enable Extension Mobility

Log Out Profile -- Use Current Device Settings --

Log in Time < None >

Log out Time < None >

**MLPP Information**

MLPP Domain < None >

**Do Not Disturb**



## Cisco Unified IP Phone 7961, x5007, SIP – 6 of 8.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Phone Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Next Comment < None >

**Do Not Disturb**  
☐ Do Not Disturb  
DND Option \* Ringer Off  
DND Incoming Call Alert < None >


**Secure Shell Information**  
Secure Shell User  
Secure Shell Password

**Product Specific Configuration Layout**  
☐ Disable Speakerphone  
☐ Disable Speakerphone and Headset  
PC Port \* Enabled  
Settings Access \* Enabled  
Gratuitous ARP \* Disabled  
PC Voice VLAN Access \* Enabled





## Cisco Unified IP Phone 7961, x5007, SIP – 7 of 8.






**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Phone Configuration Related Links: Back To Find/List Go


 Save  Delete  Copy  Reset  Add New

Gratuitous ARP*	<span>Disabled</span>
PC Voice VLAN Access*	<span>Enabled</span>
Video Capabilities*	<span>Disabled</span>
Auto Line Select*	<span>Disabled</span>
Web Access*	<span>Enabled</span>
Span to PC Port*	<span>Disabled</span>
Logging Display*	<span>PC Controlled</span>
Load Server	
Recording Tone*	<span>Disabled</span>
Recording Tone Local Volume*	100
Recording Tone Remote Volume*	50
Recording Tone Duration	
RTCP*	<span>Disabled</span>
"more" Soft Key Timer	5
Auto Call Select*	<span>Enabled</span>
Log Server	
Advertise G.722 Codec*	<span>Use System Default</span>
Wideband Headset UI Control*	





## Cisco Unified IP Phone 7961, x5007, SIP – 8 of 8.






**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout


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


Phone Configuration Related Links: Back To Find/List Go


 Save  Delete  Copy  Reset  Add New

"more" Soft Key Timer	<input type="text" value="5"/>
Auto Call Select*	<span>Enabled</span>
Log Server	<input type="text"/>
Advertise G.722 Codec*	<span>Use System Default</span>
Wideband Headset UI Control*	<span>Enabled</span>
Wideband Handset UI Control*	<span>Enabled</span>
Wideband Headset*	<span>Enabled</span>
Wideband Handset*	<span>Use Phone Default</span>
Peer Firmware Sharing*	<span>Disabled</span>
Cisco Discovery Protocol (CDP): Switch Port*	<span>Enabled</span>
Cisco Discovery Protocol (CDP): PC Port*	<span>Enabled</span>

Save Delete Copy Reset Add New

 \*- indicates required item.

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

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



Line 5007 – 1 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration

Related Links: Configure Device (SEP00170EEE32C6) Go

Save Delete Reset Add New

Status

Status: Ready

Directory Number Information

Directory Number\*5007

Route Partition< None >

Description

Alerting NameA5007

ASCII Alerting NameA5007

☒ Allow Control of Device from CTI

Associated Devices

SEP00170EEE32C6

Edit Device

Edit Line Appearance

▼▲

Dissociate Devices



Line 5007 – 2 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP00170EEE32C6) Go

Save Delete Reset Add New

**Directory Number Settings**

Voice Mail Profile

< None >

(Choose <None> to use system default)

Calling Search Space

< None >

Presence Group\*

Standard Presence group

User Hold MOH Audio Source

< None >

Network Hold MOH Audio Source

< None >

Auto Answer\*

Auto Answer Off

**AAR Settings**

Voice Mail

AAR

☐ or

AAR Destination Mask

AAR Group

< None >

☒ Retain this destination in the call forwarding history

**Call Forward and Call Pickup Settings**

Voice Mail

Calling Search Space Activation Policy

Destination

Calling Search Space

Use System Default



Line 5007 – 3 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP00170EEE32C6) Go

Save Delete Reset Add New

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



## Line 5007 – 4 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP00170EEE32C6) Go

Save Delete Reset Add New

Call Pickup Group < None >

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

**Line Settings for All Devices**  
Hold Reversion Ring Duration (seconds)  Setting the Hold Reversion Ring Duration to zero will disable the feature  
Hold Reversion Notification Interval (seconds)  Setting the Hold Reversion Notification Interval to zero will disable the feature

**Line 1 on Device SEP00170EEE32C6**  
Display (Internal Caller ID)  Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.  
ASCII Display (Internal Caller ID)   
Line Text Label   
ASCII Line Text Label



## Line 5007 – 5 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP00170EEE32C6) Go

Save Delete Reset Add New

Line Text Label	<input type="text" value="Phone5007"/>
ASCII Line Text Label	<input type="text" value="Phone5007"/>
External Phone Number Mask	<input type="text"/>
Visual Message Waiting Indicator Policy *	<input type="text" value="Use System Policy"/>
Audible Message Waiting Indicator Policy *	<input type="text" value="Off"/>
Ring Setting (Phone Idle) *	<input type="text" value="Use System Default"/>
Ring Setting (Phone Active)	<input type="text" value="Use System Default"/> Applies to this line when any line on the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	<input type="text" value="Use System Default"/>
Call Pickup Group Audio Alert Setting(Phone Active)	<input type="text" value="Use System Default"/>
Recording Option *	<input type="text" value="Call Recording Disabled"/>
Recording Profile	<input type="text" value="&lt; None &gt;"/>
Monitoring Calling Search Space	<input type="text" value="&lt; None &gt;"/>



Line 5007 – 6 of 6.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP00170EEE32C6) Go

Save Delete Reset Add New

Monitoring Calling Search Space < None >

**Multiple Call/Call Waiting Settings on Device SEP00170EEE32C6**  
Note: The range to select the Max Number of calls is: 1-200  
Maximum Number of Calls\* 4  
Busy Trigger\* 2 (Less than or equal to Max. Calls)

**Forwarded Call Information Display on Device SEP00170EEE32C6**  
☒ Caller Name  
☐ Caller Number  
☐ Redirected Number  
☒ Dialed Number

**Users Associated with Line**  
Associate End Users

Save Delete Reset Add New





## Call Forwarding

Call Forwarding: line 5007 set up to forward to 5002 – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Configure Device (SEP00170EEE32C6) Go

Save Delete Reset Add New

### Call Forward and Call Pickup Settings


	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			
Forward All	<input type="checkbox"/> or		Use System Default
Secondary Calling Search Space for Forward All			< None >
Forward Busy Internal	<input type="checkbox"/> or	5002	< None >
Forward Busy External	<input type="checkbox"/> or	5002	< None >
Forward No Answer Internal	<input type="checkbox"/> or	5002	< None >
Forward No Answer External	<input type="checkbox"/> or	5002	< None >
Forward No Coverage Internal	<input type="checkbox"/> or		< None >
Forward No Coverage External	<input type="checkbox"/> or		< None >
Forward on CTI Failure	<input type="checkbox"/> or		< None >
Forward Unregistered Internal	<input type="checkbox"/> or	5002	< None >
Forward Unregistered External	<input type="checkbox"/> or	5002	< None >
No Answer Ring Duration (seconds)			
Call Pickup Group	< None >		





## Cisco Unity Integration

### List Hunt Pilots – 1 of 1.





**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions


Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)



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


**Find and List Hunt Pilots**

 Add New  Select All  Clear All  Delete Selected

**Status**  
 1 records found

**Hunt Pilots (1 - 1 of 1)** Rows per Page 50 ▾


Find Hunt Pilots where Pattern ▾ begins with ▾  Find Clear Filter  

<input type="checkbox"/>	Pattern ^	Description	Partition	Route Filter	Hunt List	Copy
<input type="checkbox"/>	<a href="#">5090</a>	VM Hunt Pilot			<a href="#">UnityVM_HL</a>	

Add New Select All Clear All Delete Selected



## Hunt Pilot 5090 – 1 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration Go

administrator | About | Logout

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

**Hunt Pilot Configuration** Related Links: Back To Find/List Go

Save Delete Copy Add New

**Status**  
Status: Ready

**Pattern Definition**  
Hunt Pilot\* 5090  
Route Partition < None >  
Description VM Hunt Pilot  
Numbering Plan < None >  
Route Filter < None >  
MLPP Precedence\* Default  
Hunt List\* UnityVM\_HL (Edit)  
Route Option  
☒ Route this pattern  
☐ Block this pattern No Error  
☐ Provide Outside Dial Tone ☐ Urgent Priority

**Hunt Forward Settings**

	Use Personal Preferences	Destination	Calling Search Space
Forward Hunt No Answer <input type="checkbox"/> or			< None >



## Hunt Pilot 5090 – 2 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

**Hunt Pilot Configuration** Related Links: Back To Find/List Go

Save Delete Copy Add New

**Hunt Forward Settings**

	Use Personal Preferences	Destination	Calling Search Space
Forward Hunt No Answer	<input type="checkbox"/> or	<input type="text"/>	<span>&lt; None &gt;</span>
Forward Hunt Busy	<input type="checkbox"/> or	<input type="text"/>	<span>&lt; None &gt;</span>
Maximum Hunt Timer	<input type="text"/>		

**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 >



### Hunt Pilot 5090 – 3 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

**Hunt Pilot Configuration** Related Links: Back To Find/List Go

Save Delete Copy Add New

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)

**AAR Group Settings**

AAR Group < None >

External Number Mask

Save Delete Copy Add New

\*- indicates required item.



## Hunt List – 1 of 2.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Hunt List Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Status**  
 Status: Ready

**Hunt List Information**  
Name\*   
Description   
Cisco Unified Communications Manager Group\* Default ▾  
☒ Enable this Hunt List (change effective on Save; no reset required)  
☒ For Voice Mail Usage

**Hunt List Member Information**  
**Add Line Group**  
Selected Groups\*\* 

SaturnUM1\_LG

▼


▼

▼

Removed Groups\*\*\*



## Hunt List – 2 of 2.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

**Hunt List Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Add Line Group**

Selected Groups\*\*  


SaturnUM1\_LG

▼


Removed Groups\*\*\*  


▼


**Hunt List Details**  

 [SaturnUM1\\_LG](#)

Save Delete Copy Reset Add New

 \*- indicates required item.

 \*\*ordered by highest priority

 \*\*\*will be removed from Hunt List when you click Save



### Line Group – 1 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

**Line Group Configuration** Related Links: Back To Find/List Go

Save  Delete  Add New

**Line Group Information**

Line Group Name\* SaturnUM1\_LG

RNA Reversion Timeout\* 10

Distribution Algorithm\* Top Down

**Hunt Options**

No Answer\* Try next member; then, try next group in Hunt List

Busy\*\* Try next member; then, try next group in Hunt List

Not Available\*\* Try next member; then, try next group in Hunt List

**Line Group Member Information**

**Find Directory Numbers to Add to Line Group**

Partition < None >

Directory Number Contains  Find

Available DN/Route Partition 1221  
1222  
4200  
4201  
4202

Add to Line Group



### Line Group – 2 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

**Line Group Configuration** Related Links: Back To Find/List Go

Save Delete Add New

**Find Directory Numbers to Add to Line Group**

Partition < None >

Directory Number Contains Find

Available DN/Route Partition 

1221  
1222  
4200  
4201  
4202

Add to Line Group

**Current Line Group Members**

**Reverse Order of Selected DN/Route Partitions**

Selected DN/Route Partition 

5091  
5092  
5093  
5094

Removed DN/Route Partition





### Line Group – 3 of 3.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Line Group Configuration** Related Links: Back To Find/List Go

Save Delete Add New

5093  
5094

Removed DN/Route Partition

^

^

**Directory Numbers**

7715 5091 (no partition)

7715

7715 5092 (no partition)

7715

7715 5093 (no partition)

7715

7715 5094 (no partition)

7715

Save Delete Add New

\*- indicates required item.

\*\*Fields marked with a \*\* are required when the Distribution Algorithm is set to Top Down or Circular, and are not used when the Distribution Algorithm is set to Longest Idle or Broadcast. The No Answer setting is used for Longest Idle and Broadcast.



## Line Group Line 5091 – 1 of 4.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | [About](#) | [Logout](#)

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

**Directory Number Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

**Status**  
 Status: Ready

**Directory Number Information**  
Directory Number\*   
Route Partition < None >  
Description   
Alerting Name   
ASCII Alerting Name   
Line Group  Edit Line Group  
Associated Devices  Edit Device  
Edit Line Appearance  

▼ ▲

  
Dissociate Devices



## Line Group Line 5091 – 2 of 4.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) | [Call Routing](#) | [Media Resources](#) | [Voice Mail](#) | [Device](#) | [Application](#) | [User Management](#) | [Bulk Administration](#) | [Help](#)

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

Save  Delete  Copy  Reset  Add New

**Directory Number Settings**

Voice Mail Profile

NoVoiceMail

(Choose <None> to use system default)

Calling Search Space

< None >

Presence Group\*

Standard Presence group

User Hold MOH Audio Source

< None >

Network Hold MOH Audio Source

< None >

Auto Answer\*

Auto Answer Off

**AAR Settings**

Voice Mail

AAR

☐ or

AAR Destination Mask

AAR Group

< None >

☒ Retain this destination in the call forwarding history

**Call Forward and Call Pickup Settings**

Voice Mail

Calling Search Space Activation Policy

Destination

Calling Search Space

Use System Default



## Line Group Line 5091 – 3 of 4.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Directory Number Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			<span>Use System Default</span>
Forward All	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Secondary Calling Search Space for Forward All			<span>&lt; None &gt;</span>
Forward Busy Internal	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward Busy External	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward No Answer Internal	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward No Answer External	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward No Coverage Internal	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward No Coverage External	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward on CTI Failure	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward Unregistered Internal	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
Forward Unregistered External	<input type="checkbox"/> or		<span>&lt; None &gt;</span>
No Answer Ring Duration (seconds)			
Call Pickup Group			<span>&lt; None &gt;</span>



## Line Group Line 5091 – 4 of 4.

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Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

**Directory Number Configuration** Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Forward Unregistered External ☐ or  < None >

No Answer Ring Duration (seconds)

Call Pickup Group < None >

**MLPP Alternate Party Settings**

Target (Destination)

MLPP Calling Search Space < None >

MLPP No Answer Ring Duration (seconds)

**Line Settings for All Devices**

Hold Reversion Ring Duration (seconds)  Setting the Hold Reversion Ring Duration to zero will disable the feature

Hold Reversion Notification Interval (seconds)  Setting the Hold Reversion Notification Interval to zero will disable the feature


Save Delete Copy Reset Add New

\*- indicates required item.

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



## Voice Mail Profiles – 1 of 1.

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administrator | About | Logout

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





Find and List Voice Mail Profiles

Add New

**Status**  
 3 records found

**Voice Mail Profile (1 - 3 of 3)** Rows per Page 50 ▾

Find Voice Mail Profile where Voice Mail Profile Name

	Name ^	Description	Pilot	Calling Search Space	Copy
<input type="checkbox"/>	<a href="#">Default</a>	Default voice messaging profile			
<input type="checkbox"/>	<a href="#">NoVoiceMail</a>	No Voice Mail			
	<a href="#">UnityVM_Profile</a>	Unity VM Profile	5090		



## Unity Voice Mail Profile – 1 of 1.

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Navigation **Cisco Unified CM Administration**

**administrator** | [About](#) | [Logout](#)

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

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


**Status**  
 Status: Ready

**Voice Mail Profile Information**  
Voice Mail Profile UnityVM\_Profile (used by 10 devices)  
Voice Mail Profile Name\*   
Description   
Voice Mail Pilot\*\*   
Voice Mail Box Mask   
☒ Make this the default Voice Mail Profile for the System

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



## Voice Mail Pilots – 1 of 1.





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Navigation **Cisco Unified CM Administration** **Go**

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





**Find and List Voice Mail Pilots**

 Add New  Select All  Clear All  Delete Selected

**Status**  
 3 records found

**Voice Mail Pilot { 1 - 3 of 3 }** **Rows per Page** 50 ▾

Find Voice Mail Pilot where Voice Mail Pilot Number ▾ begins with ▾     

		Pilot Number ^	Description	Calling Search Space
<input type="checkbox"/>			<a href="#">Default</a>	
<input type="checkbox"/>			<a href="#">No Voice Mail</a>	
		<a href="#">5090</a>	<a href="#">VM Pilot</a>	





## Voice Mail Pilot 5090 – 1 of 1.

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Navigation **Cisco Unified CM Administration**

**administrator** | [About](#) | [Logout](#)

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

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


**Status**  
 Status: Ready


**Voice Mail Pilot Information**  
Voice Mail Pilot Number   
Calling Search Space Description   
☒ Make this the default Voice Mail Pilot for the system

\*- indicates required item.



## Voice Mail Ports – 1 of 1.






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administrator | About | Logout



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





### Find and List Voice Mail Ports

 Add New  Select All  Clear All  Delete Selected  Reset Selected

**Status**  
 4 records found

**Voice Mail Port (1 - 4 of 4)** Rows per Page 50 ▾

Find Voice Mail Port where Device Name ▾ begins with ▾       
 ▾

<input type="checkbox"/>	Device Name ▲	Description	Device Pool	Device Security Mode	Calling Search Space	Ext.	Partition	Status	IP Address	Copy
<input type="checkbox"/>	<a href="#">SaturnUM1-VI1</a>	VM Port	<a href="#">Default</a>	Non Secure Voice Mail Port		<a href="#">5091</a>		Registered with CM-SATURN	172.20.239.252	
<input type="checkbox"/>	<a href="#">SaturnUM1-VI2</a>	VM Port	<a href="#">Default</a>	Non Secure Voice Mail Port		<a href="#">5092</a>		Registered with CM-SATURN	172.20.239.252	
<input type="checkbox"/>	<a href="#">SaturnUM1-VI3</a>	VM Port	<a href="#">Default</a>	Non Secure Voice Mail Port		<a href="#">5093</a>		Registered with CM-SATURN	172.20.239.252	
<input type="checkbox"/>	<a href="#">SaturnUM1-VI4</a>	VM Port	<a href="#">Default</a>	Non Secure Voice Mail Port		<a href="#">5094</a>		Registered with CM-SATURN	172.20.239.252	



iDiver

## iDiver Softkey Template – 1 of 1.

**Cisco Unified CM Administration**  
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Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

[System](#) ▾ [Call Routing](#) ▾ [Media Resources](#) ▾ [Voice Mail](#) ▾ [Device](#) ▾ [Application](#) ▾ [User Management](#) ▾ [Bulk Administration](#) ▾ [Help](#) ▾

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

Save Delete Copy Add New Reset

**Status**

Status: Ready

**Softkey Template Information**

Name\*

Description

Applications\*

Add Application

Remove Application

☐ Default Softkey Template


Save Delete Copy Add New Reset

\*- indicates required item.





## iDivert Softkey Template Layout – Hold – 1 of 1.



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Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Softkey Template Configuration Related Links: Softkey Template Configuration Go

 Save  Reset

**Status**  
 Status: Ready

**Softkey Layout Configuration**  
Softkey Template: Standard User iDivert  
Select a call state to configure On Hold

Unselected Softkeys  
Toggle Do Not Disturb (DND)  
Undefined (Undefined)

Selected Softkeys (ordered by position)\*\*  
\*\*Resume (Resume)  
Immediate Divert (iDivert)  
NewCall (NewCall)  
Direct Transfer (DirTrfr)  
Select (Select)  
Join (Join)  
Redirect (Redirect)  
Transfer to Voice Mail (TrnsfVM)

>  
<

&u2191  
&u2193

Save Reset



## iDivert Softkey Template Layout – Ring in – 1 of 1.

**Cisco Unified CM Administration**  
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Navigation Cisco Unified CM Administration Go

**administrator** | [About](#) | [Logout](#)

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

**Softkey Template Configuration** Related Links: Softkey Template Configuration Go

Save Reset

**Status**  
 Status: Ready

**Softkey Layout Configuration**  
Softkey Template: Standard User iDivert  
Select a call state to configure Ring In  

Unselected Softkeys  
Toggle Do Not Disturb (DND)  
Undefined (Undefined)

Selected Softkeys (ordered by position)\*\*  
Immediate Divert (iDivert)  
Answer (Answer)  
Redirect (Redirect)  
Transfer to Voice Mail (TrnsfVM)

><

&u2193

Save Reset



## iDivert Service Parameters set for Legacy – 1 of 1.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Service Parameter Configuration Related Links: Parameters for All Servers Go

Save Set to Default Advanced

<a href="#">SIP Dual Mode Alert Timer</a> *	<input type="text" value="1500"/>	1500
<a href="#">Enable Enterprise Feature Access</a> *	<input type="text" value="False"/>	False
<a href="#">Enable Mobile Voice Access</a> *	<input type="text" value="False"/>	False
<a href="#">Mobile Voice Access Number</a>	<input type="text"/>	
<a href="#">Matching Caller ID with Remote Destination</a> *	<input type="text" value="Complete Match"/>	Complete Match
<a href="#">Number of Digits for Caller ID Partial Match</a> *	<input type="text" value="10"/>	10
<a href="#">System Remote Access Blocked Numbers</a>	<input type="text"/>	

**Clusterwide Parameters (Feature - Immediate Divert)**

<a href="#">Use Legacy Immediate Divert</a> *	<input type="text" value="True"/>	True
<a href="#">Allow QSIG during iDivert</a> *	<input type="text" value="True"/>	False
<a href="#">Immediate Divert User Response Timer</a> *	<input type="text" value="5"/>	5

Save Set to Default Advanced

\*- indicates required item.

\*\*Set-to-Default button only applies to the modifiable parameters.



## iDivert Service Parameters set for \*50 (data-pass-through) – 1 of 1.

**Cisco Unified CM Administration**  
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Navigation Cisco Unified CM Administration Go

administrator | About | Logout

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

Service Parameter Configuration Related Links: Parameters for All Servers Go

Save Set to Default Advanced

<a href="#">SIP Dual Mode Alert Timer</a> *	<input type="text" value="1500"/>	1500
<a href="#">Enable Enterprise Feature Access</a> *	<input type="text" value="False"/>	False
<a href="#">Enable Mobile Voice Access</a> *	<input type="text" value="False"/>	False
<a href="#">Mobile Voice Access Number</a>	<input type="text"/>	
<a href="#">Matching Caller ID with Remote Destination</a> *	<input type="text" value="Complete Match"/>	Complete Match
<a href="#">Number of Digits for Caller ID Partial Match</a> *	<input type="text" value="10"/>	10
<a href="#">System Remote Access Blocked Numbers</a>	<input type="text"/>	

**Clusterwide Parameters (Feature - Immediate Divert)**

<a href="#">Use Legacy Immediate Divert</a> *	<input type="text" value="False"/>	True
<a href="#">Allow QSIG during iDivert</a> *	<input type="text" value="True"/>	False
<a href="#">Immediate Divert User Response Timer</a> *	<input type="text" value="5"/>	5

Save Set to Default Advanced

\*- indicates required item.

\*\*Set-to-Default button only applies to the modifiable parameters.





## Configuring the Cisco Unified IOS Gateway 2851

sho ver

Cisco IOS Software, 2800 Software (C2800NM-IPVOICE-M), Version 12.4(11)T, RELEASE SOFTWARE (fc2)

Technical Support: <http://www.cisco.com/techsupport>

Copyright (c) 1986-2006 by Cisco Systems, Inc.

Compiled Sat 18-Nov-06 17:16 by prod\_rel\_team

ROM: System Bootstrap, Version 12.3(8r)T7, RELEASE SOFTWARE (fc1)

2851\_pbx uptime is 4 weeks, 1 minute

System returned to ROM by power-on

System image file is "flash:c2800nm-ipvoice-mz.124-11.T.bin"

Cisco 2851 (revision 53.51) with 251904K/10240K bytes of memory.

Processor board ID FTX1002C063

2 Gigabit Ethernet interfaces

49 Serial interfaces

2 Channelized E1/PRI ports

DRAM configuration is 64 bits wide with parity enabled.

239K bytes of non-volatile configuration memory.

62720K bytes of ATA CompactFlash (Read/Write)

Configuration register is 0x2102



```
2851_pbx# show run
```

```
Building configuration...
```

```
Current configuration : 3397 bytes
```

```
!
```

```
version 12.4
```

```
service timestamps debug datetime msec
```

```
service timestamps log datetime msec
```

```
no service password-encryption
```

```
!
```

```
hostname 2851_pbx
```

```
!
```

```
boot-start-marker
```

```
boot-end-marker
```

```
!
```

```
logging buffered 1000000
```

```
enable secret 5 $1$Aof0$VpNFzm5wFXJFI.udPvRnm/
```

```
enable password cisco
```

```
!
```

```
no aaa new-model
```

```
network-clock-participate slot 1
```

```
ip tcp synwait-time 13
```

```
!
```

```
!
```

```
ip cef
```

```
!
```

```
no ip domain lookup
```

```
ip host CM-SATURN 172.20.235.254
```



```
ip name-server 172.20.235.254

multilink bundle-name authenticated

!

isdn switch-type primary-qsig

isdn gateway-max-interworking

!

voice-card 0

no dspfarm

!

voice-card 1

dspfarm

!

!

!

!

username pbx privilege 15 secret 5 $1$Dby8$s6cwlUG35kFpoBqcoZocH/

username cisco password 0 cisco

!

!

controller E1 1/0/0

pri-group timeslots 1-31 service mgcp

!

controller E1 1/0/1

pri-group timeslots 1-18 service mgcp

!

!

!

!

interface GigabitEthernet0/0
```



```
description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
```

```
ip address 172.20.33.128 255.255.255.0
```

```
duplex auto
```

```
speed auto
```

```
!
```

```
interface GigabitEthernet0/1
```

```
no ip address
```

```
shutdown
```

```
duplex auto
```

```
speed auto
```

```
!
```

```
interface Serial1/0/0:15
```

```
no ip address
```

```
encapsulation hdlc
```

```
isdn switch-type primary-qsig
```

```
isdn incoming-voice voice
```

```
isdn bind-l3 ccm-manager
```

```
isdn bchan-number-order ascending
```

```
no cdp enable
```

```
!
```

```
interface Serial1/0/1:15
```

```
no ip address
```

```
encapsulation hdlc
```

```
isdn switch-type primary-qsig
```

```
isdn incoming-voice voice
```

```
isdn bind-l3 ccm-manager
```

```
isdn bchan-number-order ascending
```

```
no cdp enable
```

```
!
```



```
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/0
ip route 0.0.0.0 0.0.0.0 172.20.33.1
!
!
ip http server
ip http authentication local
ip http timeout-policy idle 5 life 86400 requests 10000
!
!
!
!
control-plane
!
!
!
voice-port 1/0/0:15
echo-cancel coverage 24
voice-port 1/0/1:15
echo-cancel coverage 24
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server 172.20.235.254
ccm-manager config
!
mgcp
mgcp call-agent CM-SATURN 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
```



```
mgcp modem passthrough voip mode nse
```

```
mgcp package-capability rtp-package
```

```
no mgcp package-capability res-package
```

```
mgcp package-capability sst-package
```

```
no mgcp package-capability fxr-package
```

```
mgcp package-capability pre-package
```

```
no mgcp timer receive-rtcp
```

```
mgcp sdp simple
```

```
mgcp fax t38 inhibit
```

```
mgcp rtp payload-type g726r16 static
```

```
mgcp profile default
```

```
!
```

```
!
```

```
dial-peer cor custom
```

```
!
```

```
!
```

```
!
```

```
!
```

```
banner login ^C
```

```
-----
```

Cisco Router and Security Device Manager (SDM) is installed on this device.

This feature requires the one-time use of the username "cisco"

with the password "cisco".

Please change these publicly known initial credentials using SDM or the Cisco IOS CLI.

Here are the Cisco IOS commands.

```
username <myuser> privilege 15 secret 0 <mypassword>
```

```
no username cisco
```



Replace <myuser> and <mypassword> with the username and password you want to use.

For more information about SDM please follow the instructions in the QUICK START  
GUIDE for your router or go to <http://www.cisco.com/go/sdm>

```
-----  
^C  
!  
line con 0  
line aux 0  
line vty 0 4  
  privilege level 15  
  login local  
  transport input telnet  
line vty 5 15  
  privilege level 15  
  login local  
  transport input telnet  
!  
scheduler allocate 20000 1000  
!  
end
```



## Acronyms

Acronym	Definitions
ANF-PR	Additional Network Feature Path Replacement
AOC Advice-of-charge	Information element is sent with the connection setup information for incoming Euro-ISDN connections. The AOC IE is used for call charge calculation
CCM	Cisco Unified Call Manager
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CNIP	Calling Name Identification Presentation
CNIR	Calling Name Identification Restriction
COLP	Connected Line (Number) Identification Presentation





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