Application Note

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

October 26, 2007 Revision 5

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Introduction

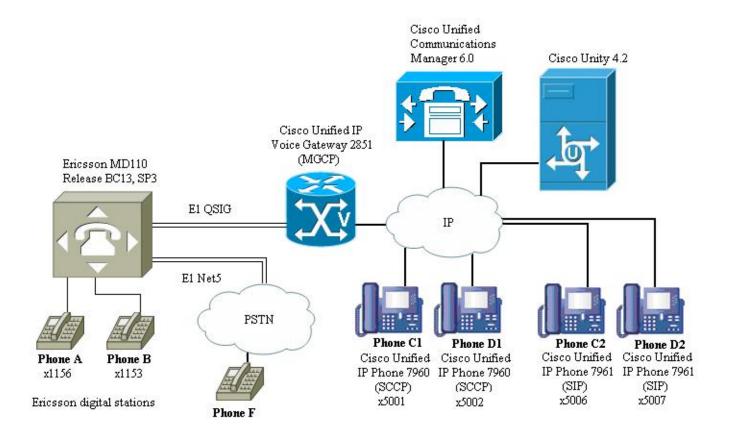
This is an application note for connectivity of Ericsson MD-110 Release BC13 PBX with Cisco Unified Communications Manager Release 6.0 via Cisco 2851 as MGCP gateway using ECMA QSIG protocol. A VWIC-2MFT-E1 is used to provide the physical E1 interface on the Cisco 2851.

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 realease (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 realease (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 realease (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 realease (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

...... CISCO.

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 6 8 11 12 13 39 40 100 101	711000000700010 211000000700010 211000000700010 711000000700010 711000000700010 411000000700010 211000000700010 711000000000000000000000	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3100000010 0010100010 3110030000 311000000 3110000011 3110000011 3110000011 3110000011 3110000011	0 0 0 0 0 0 0 0 0 0	30 30 30 30 30 30 30 30 30 30 30	128 128 128 128 128 128 128 128 128 128 128 128	00151515 00151515 03151515 03151515 00151515 00151515 00151515 03151515	111110000031 211100010050 211100010050 111110000011 311110000011 311110000031 111110000031 11111000031 11111000031	111111 101111 001100 001100 111111



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 6 8 11	SL60 TL30 TL30 TL50	H'00000310 H'00000000 H'00000001	H'15420000 H'0000036 H'00002232 H'00000000	H'06300000 H'00002016 H'00002016 H'00000000	NO NO NO NO
12 13	TL50 TL50	H'00000002	H'00000000	H'00000000	NO
39 40	SL60 SL60	H'00000310 H'00000B14	H'05400000 H'3A820000	H'06400000 H'46415000	NO NO
100 101	SL60 SL60	H'00000310 H'00000310	H'15400000 H'05400000	H'06300000 H'06300000	NO NO
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

ROUTE ROU	E EQUIPMEN TRU	IT DATA EQU	IP ADDRESS	SQU	INDDAT	CNTRL
11 11 11 11 11 11 11 11 11 11 11 11 11	$\begin{array}{c} 001-1\\ 001-2\\ 001-3\\ 001-4\\ 001-5\\ 001-6\\ 001-7\\ 001-8\\ 001-9\\ 001-10\\ 001-11\\ 001-12\\ 001-13\\ 001-14\\ 001-15\\ 001-17\\ 001-18\\ 001-19\\ 001-20\\ 001-21\\ 001-22\\ 001-23\\ 001-23\\ 001-24\\ 001-25\\ 001-25\\ 001-26\\ 001-27\\ 001-28\\ 001-29\\ 001-30\\ 001-31\\ \end{array}$	001-0-00-01 001-0-00-02 001-0-00-03 001-0-00-04 001-0-00-05 001-0-00-07 001-0-00-07 001-0-00-09 001-0-00-10 001-0-00-11 001-0-00-12 001-0-00-13 001-0-00-13 001-0-00-13 001-0-00-14 001-0-00-15 001-0-00-15 001-0-00-17 001-0-00-18 001-0-00-22 001-0-00-22 001-0-00-23 001-0-00-23 001-0-00-25 001-0-00-25 001-0-00-25 001-0-00-27 001-0-00-28 001-0-00-29 001-0-00-30			H'000000000FF H'000000000FF	
100 100 100 100 100 100 100 100 100 100	$\begin{array}{c} 001-1 \\ 001-2 \\ 001-3 \\ 001-4 \\ 001-5 \\ 001-6 \\ 001-7 \\ 001-8 \\ 001-9 \\ 001-10 \\ 001-11 \\ 001-12 \\ 001-13 \\ 001-14 \end{array}$	$\begin{array}{c} 001-0-30-01\\ 001-0-30-02\\ 001-0-30-03\\ 001-0-30-04\\ 001-0-30-05\\ 001-0-30-06\\ 001-0-30-07\\ 001-0-30-08\\ 001-0-30-10\\ 001-0-30-11\\ 001-0-30-11\\ 001-0-30-13\\ 001-0-30-13\\ 001-0-30-14\\ \end{array}$			H'000000000000 H'000000000000 H'00000000	

100 100 100 100 100 100 100 100 100 100	001-15 001-17 001-18 001-20 001-20 001-22 001-23 001-23 001-24 001-25 001-26 001-27 001-28 001-29 001-30	$\begin{array}{c} 001 - 0 - 30 - 15\\ 001 - 0 - 30 - 17\\ 001 - 0 - 30 - 18\\ 001 - 0 - 30 - 19\\ 001 - 0 - 30 - 20\\ 001 - 0 - 30 - 21\\ 001 - 0 - 30 - 22\\ 001 - 0 - 30 - 23\\ 001 - 0 - 30 - 23\\ 001 - 0 - 30 - 25\\ 001 - 0 - 30 - 26\\ 001 - 0 - 30 - 27\\ 001 - 0 - 30 - 28\\ 001 - 0 - 30 - 29\\ 001 - 0 - 30 - 30\\ 001 - 0 - 30 - 31\\ \end{array}$
101 101 101 101 101 101 101 101 101 101	001-1 001-2 001-3 001-5 001-6 001-7 001-8 001-9 001-10 001-11 001-12 001-13 001-14 001-15 001-15 001-16 001-17 001-18 001-19 001-20 001-21 001-22 001-23 001-24 001-25 001-25 001-26 001-27 001-28 001-29 001-30	$\begin{array}{c} 001-0-40-01\\ 001-0-40-02\\ 001-0-40-03\\ 001-0-40-04\\ 001-0-40-05\\ 001-0-40-06\\ 001-0-40-07\\ 001-0-40-07\\ 001-0-40-09\\ 001-0-40-10\\ 001-0-40-12\\ 001-0-40-12\\ 001-0-40-13\\ 001-0-40-13\\ 001-0-40-15\\ 001-0-40-15\\ 001-0-40-17\\ 001-0-40-18\\ 001-0-40-20\\ 001-0-40-22\\ 001-0-40-22\\ 001-0-40-22\\ 001-0-40-22\\ 001-0-40-22\\ 001-0-40-23\\ 001-0-40-25\\ 001-0-40-25\\ 001-0-40-27\\ 001-0-40-28\\ 001-0-40-28\\ 001-0-40-29\\ 001-0-40-30\\ 001-0-40-31\\ \end{array}$

Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 H'00000000000 H'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 H'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 Н'00000000000 H'000000000000 Н'00000000000 Н'00000000000 Н'00000000000



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 CUS	F ADC	TRC	SRT	NUMACK	PRE
12	101	1505000000002501050010010	0	1	0	
21	1	1225000000002501020011000	0	3	0	
235	100	1505000000002501050010010	0	1	0	
25	100	060610000000250006000000	0	3	0	
30	100	1606000000002501060010010	0	1	0	
31	11	100500000000250000000000	0	3	0	
35	11	0606000000002501060011000	0	3	0	
36	6	011500000000250001000000	0	3	0	
38	8	011500000000250001000000	0	3	0	
40	100	1707000000002501070010010	0	1	0	
42	101	1606000000002501060010010	0	1	0	
50	100	1606000000002501060010010	0	1	0	
550	11	0606000000002501060011000	0	1	0	
551	101	0707000000002501070011000	0	1	0	
560	11	0606000000002501060011000	0	1	0	
650	100	1707000000002501070011000	0	1	0	
666	100	0707000000002501070011000	0	1	0	
777	101	1505000000002501050010010	0	1	0	
9	101	1505000000002501050010010		2	0	
			-	-	-	



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



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 RONDP command.

For Ericsson node

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

<RONDP:ROU=ALL;

ROUTE NUMBER DATA

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



Number Analysis Summary

For Ericsson node

<NADAP;

NUMBER ANALYSIS DATA

TYPE OF SERIES EXTENSION NUMBER SERIES	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	5 1200
OWN EXCHANGE NUMBER SERIES	888
TYPE OF SERVICE CODE	SERVICE CODE
EXTERNAL NUMBER LENGTH DATA	
EXTERNAL NUMBER LENGTH DATA EXTERNAL NUMBER 122 125 235 40 42 50 550 551 554 650 666 777 9	NUMBER LENGTH 4 - 4 4 - 4 7 - 7 4 - 4 4 - 4 4 - 4 4 - 4 4 - 4 4 - 10 10 - 10 3 - 7 4 - 4 8 - 8
EXTERNAL NUMBER 122 125 235 40 42 50 550 551 554 650 666 777	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
EXTERNAL NUMBER 122 125 235 40 42 50 550 551 554 650 666 777 9	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
EXTERNAL NUMBER 122 125 235 40 42 50 550 551 554 650 666 7777 9 PROCEED TO SEND SIGNAL DATA	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$

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;</pre>

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
1153		001-0-20-02	-			1	0
1154		001-0-20-03	-			1	0
1155		001-0-20-04	-			1	0
1156		001-0-20-05	-			1	0
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



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
1153	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1154	03151515	0211120700	111151111	720004	20	0	00100013001000	0	0
1155	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
1156	00151515	0202720500	011151111	000001	19	0	00100013010000	0	0
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=00010013010000; To configure Calling/Connected Name and Number Allowed, use the following command: <KSCAC:DIR=1154&&1155,ADC=00100013010000; To remove Name, use the following command: <NIINE:DIR=1154;//REMOVE NAME To add Name, use the following command: <NIINI:DIR=1154,NAME1="BC12-1",NAME2="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
1153	ZORGON		10
1154	MX-ONE TSW-SP2	FOUR	10
1155	MX-ONE TSW-SP2	FIVE	10
1156	reav		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;</pre>

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</pre>

<CDINE:DIR=1153; // CALL DIVERSION INDIVIDUAL NUMBER END



Diversion Counter

For Ericsson node

<ASUVP:PARNUM=121;

APPLICA	TION	SYSTEM	PARAMETER	VALUES	FOR	UNIT		
PARNUM	CHA	PAF	RVAL M	INVAL	MZ	AXVAL	UNIT	REMARK
121	YES		12	0		255	RMP	
END								

<ASPAP:PARNUM=121;</pre>

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

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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.



This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at: http://www.cisco.com/wwl/export/crypto/tool/starg.html. If you require further assistance please contact us by sending email to export@cisco.com.



ECMA Parameter

ECMA Service Parameter – 1 of 1.

🖵 Clusterwide Parameters (Device - PRI	and MGCP Gateway) —————————————————————	
ASN.1 ROSE OID Encoding *	Use Global Value (ECMA)	👿 Use Local Value
OSIG Variant *	ECMA (Protocol Profile 0×91)	ISO (Protocol Profile 0x9F)



Voice Gateways

Cisco Unified Voice Gateways - 1 of 1.

cisco		fied CM A						Na	avigatio	n <mark>Cisco Unifi</mark> administ	ed CM Administ	
System 👻	Call Routing 👻 Ma	edia Resources 👻	Voice Mail 👻	Device 👻 App	lication 👻 User N	Management 👻	Bulk Admini	stration 👻	Help 👻	uunniist		it Logout
Find and	List Gateway											
Add N	lew Select All	Clear All	Delete Sel	lected 👇 Rese	st Selected							
-												
Status -	ords found											
Gatewa	ys (1 - 1 of 1)										Rows per Pa	ge 50 💽
Find Gate	ways where Name	3	✓ begins wi	th 🔹	H	lide 🔽 endp	oints Find	Clear Fil	ter	4 -		
				Select it	em or enter sear							
	Device Name	Description	Device Pool	Calling Search Space	n Extension	Partition	Route Group	Priority	Port	Device Type	Status	IP Address
	<u>2851 pbx</u>	2851_pb×								Cisco 2851	See Endpoints	
Add Ne	w Select All	Clear All	Delete Selec	ted Rese	t Selected							



Cisco Unified Voice Gateway 2851 – 1 of 2.

Cisco Unified CM Adu					Vavigation	Cisco Unified CM Administration 💽 Go
System ▼ Call Routing ▼ Media Resources ▼ \		Application 👻	User Management 👻	Bulk Administration 👻	Help 👻	administrator About Logout
Gateway Configuration					Rel	ated Links: Back To Find/List 💌 Go
🔚 Save 🗙 Delete 睯 Reset 🕂 Add N	зw					
- Status i Status: Ready						
– Gateway Details –						
Product	Cisco 2851					
Gateway	2851_pb×					
Protocol	MGCP					
Domain Name*	2851_pbx					
Description	2851_pbx					
Cisco Unified Communications Manager Group			•			
—Configured Slots, VICs and Endpoints—						
Module in Slot 0 < None >						
Module in Slot 1 NM-HD-2VE						
Subunit 0 VWIC-2MFT-E1						
the second second	1/0/ 0 EIFRI	1/0/ 1 EIPRI				
Subunit 1 < None >	-					
Module in Slot 2 < None >						
Contraction and the State State						
—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	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 省 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 Subunit 1 None > Module in Slot 2 None > Module in Slot 2 None > Product Specific Configuration Layout Global ISDN Switch Type primary-qsig Switchback Timing* Graceful Switchback schedule (hh:mm) 10 Switchback schedule (hh:mm) 12:00 Type Of DTMF Relay* Current GW Config	2 1/0/ 1 🔐	
(i) *- indicates required item.		-



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

41644	ed CM Administration d Communications Solutions	Navigation Cisco Unified CM Administration 🗾 Go
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 省 Re	iset	
Status Status: Ready		<u>*</u>
<u> </u>		
Device Information Product Gateway Device Protocol Registration IP Address End-Point Name *	Cisco MGCP E1 Port 2851_pbx Digital Access PRI Registered with Cisco Unified Communications Manager CM-SATURN 172.20.33.128 S1/SU0/DS1-0@2851_pbx	
Description Device Pool*	S1/SU0/DS1-0@2851_pbx	
Common Device Configuration	Default < None > Use System Default ・	
NetworkLocale	< None >	
Packet Capture Mode* Packet Capture Duration	None 💌	
Media Resource Group List Location *	< None > Hub_None	-



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

Cisco Unified Cl Cisco For Cisco Unified Com	M Administration		Navigation Cisco Unified CM Administration 🗾 Go administrator About Loqout
System - Call Routing - Media Resource	es ▼ Voice Mail ▼ Device ▼ App	plication 👻 User Management 👻	Bulk Administration - Help -
Gateway Configuration			Related Links: Back to MGCP Configuration 🗾 Go
🔚 Save 🗙 Delete			
Media Resource Group List < Non	lone e > ame aption (MLPP) Information v device		
Interface Information PRI Protocol Type* Protocol Side* Channel Selection Order* Channel IE Type* PCM Type* Delay for first restart (1/8 sec ticks)*	PRI ISO QSIG E1 User Top Down Timeslot Number A-law 32	• • •	



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

01000	nified CM Administration		Navigation Cisco Unified CM Administration 🚽 Go administrator About Logout
System 👻 Call Routing 👻	Media Resources 👻 Voice Mail 👻 Device 👻	Application 👻 User Management 👻	
Gateway Configuration			Related Links: Back to MGCP Configuration 🗾 Go
🔚 Save 🗙 Delete 🧣	Reset		
PCM Type [*] Delay for first restart (1/i Delay between restarts (: ☑ Inhibit restarts at PRI □ Enable status poll □ Unattended Port —Call Routing Informati	L/8 sec ticks)* 4 initialization		<u>-</u>
Significant Digits* Calling Search Space	All < None >		_
AAR Calling Search Space Prefix DN	° < None >	<u>·</u>	
Call Routing Informati Calling Party Presentation Calling Party Selection* Called party IE number t	* Default Originator	× ×	
Calling party IE number t			

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

Cisco Unified CM			Navigation	Cisco Unified CM Administration 💽 Go
System - Call Routing - Media Resource	s 🔻 Voice Mail 👻 Device 👻 Appl	ication 👻 User Management 👻	Bulk Administration 👻 Help 👻	auministrator About Logout
Gateway Configuration			Related Links:	Back to MGCP Configuration 💌 Go
🔚 Save 🗙 Delete 省 Reset				
Called party IE number type unknown*	Subscriber			
Calling party IE number type unknown*	Subscriber	-		
Called Numbering Plan*	Private	-		
Calling Numbering Plan*	Private	-		
Number of digits to strip*	0	-		
Caller ID DN				
SMDI Base Port*	0			
PRI Protocol Type Specific Inform	ation			
🗖 Display IE Delivery				
🗖 Redirecting Number IE Delivery - Or	utbound			
🗖 Redirecting Number IE Delivery - In	bound			
🗖 Send Extra Leading Character in Dis	play IE***			
🗖 Setup non-ISDN Progress Indicator	IE Enable****			
MCDN Channel Number Extension B	it Set to Zero**			
🔲 Send Calling Name In Facility IE				
🔲 Interface Identifier Present**				
Interface Identifier Value**	D			-



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

416.44	CM Administrat			Navigation	Cisco Unified CM Administration 💽 Go administrator About Logout
System 👻 Call Routing 👻 Media Reso	iurces 👻 Voice Mail 👻 D	Device 👻 Application 👻	User Management 👻	Bulk Administration 👻 Help 👻	
Gateway Configuration				Related Links	: Back to MGCP Configuration 💌 Go
🔜 Save 🗙 Delete					
☐ Interface Identifier Present** Interface Identifier Value** Connected Line ID Presentation (Q	0 SIG Inbound Call)* Defa	ult		V	
UUIE Configuration					
Product Specific Configuration Line Coding* Framing* Clock* Input Gain (-614 db)* Output Attenuation (-614 db)* Echo Cancellation Enable* Echo Cancellation Coverage (ms)*	HDB3 CRC4 External 0 0 Enable	• • •	?		

Route Patterns

Route Patterns – 1 of 1.

cisco	For Cisco U	nified Communicati	ions Solutio	ons					administrator	About Log
stem 👻	Call Routing 👻	Media Resources 👻 🗸 V	/oice Mail 👻	Device 👻	Application 👻 🛛	User Management 👻	Bulk Administr	ation 👻 Help 👻		
nd and	l List Route Pat	terns								
Add	New Select	All 🔛 Clear All 🍝	🛃 Delete Selec	cted						
tatus	-									
) 7 re	ecords found									
e										
oute	Patterns (1 -	7 of 7)							Rows p	er Page 50 💉
	Patterns (1 -	-							Rows p	er Page 50 💉
	Patterns (1 - te Patterns where	-	🔨 begins w	ith 💌		Find) Cle	ar Filter		Rows p	er Page 50 💉
d Rout		Pattern	✓ begins w Description	ith 💌	Partition				Rows po	er Page 50 💉 Cop
d Rout	te Patterns where	Pattern		ith 💌	Partition		Filter		ociated Device	
d Rout	te Patterns where Pattern ^	Pattern		ith 🔽	Partition		Filter S	As:	ociated Device	Сор
id Rout	te Patterns where Pattern * <u>11XX</u>	Pattern to Ericsson 2		ith 🔽	Partition		Filter S	As: 1/SU0/DS1-0@?	cociated Device 2851 pbx 2851 pbx	Сор
	te Patterns where Pattern * 11XX 12XX	Pattern to Ericsson 2 to Ericsson 1	Description	ith 💌	Partition		Filter S	Ass 1/SU0/DS1-0@: 1/SU0/DS1-1@:	cociated Device 2851 pbx 2851 pbx 2851 pbx	Cop D D
id Rout	te Pattern * Pattern * <u>11XX</u> <u>12XX</u> <u>42XX</u>	Pattern to Ericsson 2 to Ericsson 1 to pstn	Description son VM	ith 💌	Partition		Filter S	Ass 1/SU0/DS1-0@? 1/SU0/DS1-1@? 1/SU0/DS1-0@?	:ociated Device :851 pbx :851 pbx :851 pbx :851 pbx :851 pbx	Cop C C C C C C C C C C C C C C C C C C
id Rout	te Pattern * Pattern * 11XX 12XX 42XX 4500	Pattern to Ericsson 2 to Ericsson 1 to pstn route to Ericss	Description son VM node ID	ith 💌	Partition		Filter S	Ass 1/SU0/DS1-0@2 1/SU0/DS1-1@2 1/SU0/DS1-0@2 1/SU0/DS1-0@2	2006 2007 2007 2007 2007 2007 2007 2007	Cop D D D D D



11xx ENBLOC Route Pattern – 1 of 3.

	Unified CM Administration			Ν	lavigation	Cisco Unified CM Administration 💽 GO
System 👻 Call Routing	✓ Media Resources ✓ Voice Mail ✓ Device ✓	Application 🔻	• User Management 👻	Bulk Administration 👻	Help 👻	administrator About Logout
Route Pattern Conf	iguration				Rel	ated Links: Back To Find/List 💌 Go
Save 🗶 Delete	e 🗋 Copy 🕂 Add New					
Status Status: Ready						<u>▲</u>
Pattern Definition Route Pattern *	11XX					
Route Partition	< None >					
Description	to Ericsson 2					
Numbering Plan	Not Selected	w.				
Route Filter	< None >					
MLPP Precedence*	Default	•				
Gateway/Route List*	S1/SU0/DS1-0@2851_pbx	• (Edit)			
Route Option	Route this pattern					
	C Block this pattern No Error	-				
Call Classification*	OnNet		1			
Allow Device Ove	rride 🗖 Provide Outside Dial Tone 🗖 Allow Ov	erlap Sending	g 🗖 Urgent Priority			
Require Forced A	uthorization Code					
Authorization Level*	0		1			•



11xx ENBLOC Route Pattern – 2 of 3.

cisco		Inified CM					N	lavigation	Cisco Unified CM Admir	histration 🗾 Go
System 👻	Call Routing 👻	Media Resources	✓ Voice Mail ▼	Device 👻	Application -	User Management 👻	Bulk Administration 👻	Help 👻	dummi serveron a	boot Logout
Route Pa	ttern Configu	ration						Rel	ated Links: <mark>Back To F</mark>	ind/List 💌 Go
Rave	X Delete	Copy 🕂 A	dd New							
🗆 Requir	re Forced Autho	prization Code								
Authoriza	ition Level*	0								
🗆 Requir	re Client Matter	Code								
—Calling I	Party Transfo	rmations								
Use C	alling Party's E:	xternal Phone Nu	mber Mask							
Calling Pa	arty Transform	Mask								
Prefix Dig	gits (Outgoing C	alls)				1				
Calling Li	ne ID Presental	tion* Default				1				
	ame Presentatio	The state of the second s			1					
	ted Party Trai	nsformations —								
		entation* Default	2			•				
Connecte	d Name Presen	tation* Default	9 4			•				
Called P	arty Transfo	rmations ——				50				
Discard D	Digits	< None >				v .				
Called Pa	rty Transform I	Mask								
Prefix Dig	gits (Outgoing C	alls)								-



11xx ENBLOC Route Pattern – 3 of 3.

cisco			ninistration			Ν	lavigation	Cisco Unified CM Administration 🗾 Go
	FOF CISCO OIIITIE						1.00	administrator About Logout
System 👻	Call Routing - Media	Resources 👻 Vi	bice Mail ★ Device ★	Application 🔻	User Management 👻	Bulk Administration 👻	Help 🔻	
Route Pa	ttern Configuration	r					Rel	ated Links: 🖪 Back To Find/List 💌 🗔
Save	X Delete	əpy 🕂 Add Nev	v					
-Connec	ted Party Transfori	mations ———						<u>.</u>
	ed Line ID Presentatio				-			
Connecte	ed Name Presentation	* Default			•			
	Party Transformati							
Discard [< None >			-			
Called Pa	arty Transform Mask							
Prefix Di	، gits (Outgoing Calls)							
	etwork-Specific Fac Service Protocol	Not Selected	tion Element	100				
3343952323	dentification Code	Not Selected						
Network			Service Parameter	Name		Service Parameter	Value	
	elected		-	Manie			value	
						Palei Dollar		
— Save	Delete Copy	Add New -						
(i) *- i	ndicates required iten	n.						
								·

9.X Overlap Route Pattern – 1 of 3.

						Navigation Cisco Unified CM Administration 💌					
System - Call Routi			Application 👻	User Management 👻	Bulk Administration 👻	Help 👻	administrator	About	Logout		
Route Pattern Configuration Related Links: Back To Find/List											
🔚 Save 🗶 De	ete [Copy 🕂 Add New		_								
									<u> </u>		
Update succes	sful										
-Pattern Definition Route Pattern*	9.X										
Route Partition	< None >										
Description	overlap to Ericsson 2										
Numbering Plan	Not Selected		×								
Route Filter	< None >		*								
MLPP Precedence*	Default		*								
Gateway/Route Lis	t* S1/SU0/DS1-0@2851_pbx		• (Edit))							
Route Option	Route this pattern										
	C Block this pattern No Er	ror	*								
Call Classification*	OffNet			1							
Allow Device O	verride 🔽 Provide Outside Dial	l Tone 🔽 Allow Ov	erlap Sending	- □ Urgent Priority							
Require Forced	Authorization Code										
Authorization Level	* 0			1							
-	1895 -								-		

9.X Overlap Route Pattern – 2 of 3.

cisco		Jnified CM Unified Commu					N	lavigation	Cisco Unified CM administrator	Administration 🗾 Go
System 👻	Call Routing 👻	Media Resources	✓ Voice Mail ▼	Device 👻	Application \bullet	User Management 👻	Bulk Administration 👻	Help 👻		
Route Pa	ttern Configu	ıration						Rel	ated Links: Bac	k To Find/List 💌 Go
Rave	X Delete	Copy 🕂 /	Add New							
	re Forced Auth ition Level*	orization Code								×
	re Client Matte	r Code								
Calling	Party Transf	ormations								
20093		External Phone Nu	mber Mask							
Calling P	arty Transform	Mask								
Prefix Dig	gits (Outgoing (Calls)								
Calling Li	ne ID Presenta	ation* Default				ิจ				
	ame Presentat	100 SASL 01				-				
		insformations —				2000-00				
Connecte	d Line ID Pres	entation* Defaul	1			-				
Connecte	ed Name Prese	ntation* Default				•				
Called I	Party Transfo	rmations ——				20				
Discard D	Digits	PreDot				-				
Called Pa	arty Transform	Mask								
Prefix Die	gits (Outgoing (Calls)								-



9.X Overlap Route Pattern – 3 of 3.

cisco		ied CM Adm				ſ	Vavigation	Cisco Unified CM Administration 🗾 Go
	For Cisco Unifi	ed Communicatio	ns Solutions					administrator About Logout
System 👻	Call Routing 👻 Med	ia Resources 👻 Vo	ce Mail 👻 Device 👻	Application -	User Management 👻	Bulk Administration 👻	Help 👻	
Route Pa	ttern Configuratio	n					Re	lated Links: Back To Find/List 💌 Go
Save	X Delete	Copy 🕂 Add New						
	ted Party Transfo	mations						
	d Line ID Presentati				-			
	d Name Presentatio				•			
		~						
Discard D	arty Transformat	Provide the second se						
1910000000000		PreDot			_			
000000000000000000000000000000000000000	rty Transform Mask							
Prefix Dig	jits (Outgoing Calls)							
	etwork-Specific Fa	cilities Informat	ion Element					
256763303638080		- Not Selected	ion clement	•				
Carrier Io	dentification Code 🔽							
Network S			Service Parameter I	lama		Service Parameter	Uslus	
	elected			vanie			Value	
Testade se	SIECCED		IN NOCEXISC 2					
Caus	Delete Casu	Add New						
- Save	Delete Copy	Add Mew						
(i) *- ii	ndicates required ite	m						
	naroates required ite							

Calling Line ID Restriction

CLIR on 11xx Route Pattern – 1 of 1.

cisco		Jnified CM					И	lavigation	Cisco Unified CM	Administration 💽 Go
System 👻	Call Routing 👻	Media Resources	✓ Voice Mail ▼	Device 👻	Application 👻	User Management 👻	Bulk Administration 👻	Help 👻		
Route Pat	ttern Configu	ıration						Rel	lated Links: Bac	k To Find/List 💌 Go
		Copy 🕂	Add New							
	tion Level*									<u>_</u>
	re Client Matte									
Calling F	Party Transf	ormations								
🗖 Use Ca	alling Party's B	External Phone Nu	mber Mask							
Calling Pa	arty Transform	Mask								
Prefix Dig	its (Outgoing	Calls)				1				
Calling Lir	ne ID Presenta	ation* Restricted				-				
	ame Presentat	1121				-				
		nsformations –								
Connected	d Line ID Pres	entation* Defaul	t			-				
Connected	d Name Prese	ntation* Defaul	t			•				
Called P	arty Transfo	ormations ——								
Discard D	igits	< None >				.				
Called Par	rty Transform	Mask								
Prefix Dig	its (Outgoing	Calls)								-

Translation Patterns

List Translation Patterns – 1 of 1.

ystem ▼ Ca				administrator About	Logou
	all Routing 👻 Media Resources 👻 Voice M	ail 👻 Device 👻 Application	✓ User Management ✓ Bulk Administration ✓ H	Help 🔻	
nd and Lis	t Translation Patterns				
Add New	Select All 🔛 Clear All 🙀 Dele	te Selected			
Status ——					
2 record	ds found				
	104 M 2010 2020				
Translatio	n patterns (1 - 2 of 2)			Rows per Page	50 -
mansiacio				Rows per raye	
a a n aca atan	ion patterns where 🛛 Pattern 🛛 🖃 begi	ns with 💌	Find 🛛 Clear Filter 🛛 🕂 📟		
ing translat.	ion patterns where in attern				
	Translation Pattern *	Partition	Description	Route Filter	Сору
	Translation Pattern *	Partition 235.XX	· · · · ·	Route Filter	Сору
	Translation Pattern *	235.XX	· · · · ·	Route Filter	



Translation Pattern 5010 – 1 of 2.

	OUnified CM Administration			N	lavigation	Cisco Unified CM Administration	Go Go
System - Call Routing	✓ Media Resources ✓ Voice Mail ✓ Device ✓	Application 👻	User Management 👻	Bulk Administration 👻	Help 👻		
Translation Pattern	Configuration				Rel	ated Links: Back To Find/List	Go
Save 🗶 Delete	e [Copy 🕂 Add New						
Status							<u> </u>
i Status: Ready							
Pattern Definition							
Translation Pattern	5010						
Partition	< None >	•					
Description	translation pattern for Connected Restriction						
Numbering Plan	< None >	·*					
Route Filter	< None >	v					
MLPP Precedence*	Default						
Calling Search Space	< None >	•					
Route Option	 Route this pattern 						
	O Block this pattern No Error		•				
Provide Outside D	Dial Tone						
🗹 Urgent Priority							
() ()							
Calling Party Tran	sformations						
🗹 Use Calling Party	's External Phone Number Mask						-

Translation Pattern 5010 – 2 of 2.

01000	CM Administra		Na	avigation Cisco Unified CM /	
	sources 👻 Voice Mail 👻	User Management 👻	Bulk Administration 👻	administrator Help 🗸	About Logout
Translation Pattern Configurat	tion			Related Links: Back	To Find/List 💌 Go
🔚 Save 🗶 Delete 🗋 Copy	Add New				
Calling Party Transformation	5				
✓ Use Calling Party's External Ph	none Number Mask				
Calling Party Transform Mask		 _			
Prefix Digits (Outgoing Calls)		=			
Calling Line ID Presentation* De	Z . D				
	rauit rfault				
	Tault				
Connected Party Transformat	tions				
Connected Line ID Presentation*		•			
and the company of the state of the state of the state of the	Default				
Called Party Transformations	vone >				
Called Party Transform Mask 500		 			
Prefix Digits (Outgoing Calls)	1				
Prenx Digits (Outgoing Calls)					
- Save Delete Copy Ad	dd New				
(i) *- 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
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration	
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 ✓	×
Called Party Transformations Discard Digits < None > Called Party Transform Mask 5001 Prefix Digits (Outgoing Calls) Save Delete Copy Add New (i) *- indicates required item.	

Call Back

Call Back Service Parameters – 1 of 1.

CISCO Unified CM Administra		Navigation Cisco Unified CM Administration 💽
ystem 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻	Device 👻 Application 👻 User Management 👻 Bulk Administrati	
ervice Parameter Configuration		Related Links: Parameters for All Servers 💌
🔒 Save Set to Default 🔍 Condensed		
-Clusterwide Parameters (Feature - Call Back)		
Call Back Enabled Flag.*	True	True
Call Back Notification Audio File Name *	CallBack.raw	CallBack.raw
Connection Proposal Type *	Connection Retention	Connection Retention
Connection Response Type *	Default to Connection Retention	Default to Connection Retention
Call Back Request Protection T1 Timer *	10	10
Call Back Recall T3 Timer *	20	20
Call Back Calling Search Space	< None >	
No Path Reservation *	True *	True
Set Private Numbering Plan for Call Back.*	False 🔹	False
-Clusterwide Parameters (Feature - Call Recording)		
Play Recording Notification Tone To Observed Target.*	False	False
Play Recording Notification Tone To Observed Connected Parties_*	False	False
Clusterwide Parameters (Feature - Monitoring)	False	False
Play Monitoring Notification Tone To Observed Connected	False *	False
Parties *	L. 707	

Soft Key Templates – 1 of 1.

ahah		Navigation Cisco Unified CM Admin	nistration 🗾 🔮
cisco	For Cisco Unified Communications Solutions	administrator A	.bout 📘 Logo
ystem 👻	Call Routing Media Resources Voice Mail Device	✓ Application	
nd and	List Softkey Templates		
1 bbA	New 🔢 Select All 🔛 Clear All 💥 Delete Selected		
itatus –			
7 re	cords found		
770			
Softkey	y Template <i>(1 - 7 of 7)</i>	Rows per	Page 50 💌
	y Template (1 - 7 <i>of 7</i>) key Template where Name I begins with I	Rows per and where softkey template is Both Find Clear Filter	Page 50 .▼
nd Soft			÷ -
nd Soft	key Template where Name 💽 begins with 💌	and where softkey template is Both 💽 Find Clear Filter	÷ -
	key Template where Name 🔹 begins with 💌 Name ^	and where softkey template is Both Find Clear Filter	Сору
nd Soft	key Template where Name begins with Name Standard Assistant	and where softkey template is Both Find Clear Filter Description Standard template for assistant phones	Сору
nd Softl	key Template where Name	and where softkey template is Both Find Clear Filter Description Standard template for assistant phones Standard Softkey Template for CM Combined Feature	Сору
nd Soft	key Template where Name	and where softkey template is Both Find Clear Filter Description Standard template for assistant phones Standard Softkey Template for CM Combined Feature Standard template for proxy mode manager phones	Copy Copy C C C C C
nd Soft	key Template where Name	and where softkey template is Both Find Clear Filter Description Standard template for assistant phones Standard Softkey Template for CM Combined Feature Standard template for proxy mode manager phones Standard template for shared mode manager phones	Copy Copy C C C C C C C C C C C C C C C C C C C
nd Soft	key Template where Name	and where softkey template is Both Find Clear Filter Description Standard template for assistant phones Standard Softkey Template for CM Combined Feature Standard template for proxy mode manager phones Standard template for shared mode manager phones Standard Softkey Template for CallManager only	Copy C C C C C C C C C C C C C C C C C C C



Call Back Soft Key - 1 of 1.

cisco	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 👻	
Softkey T	emplate Configuration	Related Links: Configure Softkey Layout 💌 Go
Save	🗙 Delete 🗋 Copy 🕂 Add New 省 Reset	
Status –		
Name* Descriptio Application	Is* Cisco CallManager	Add Application Remove Application
- Save	Delete Copy Add New Reset	

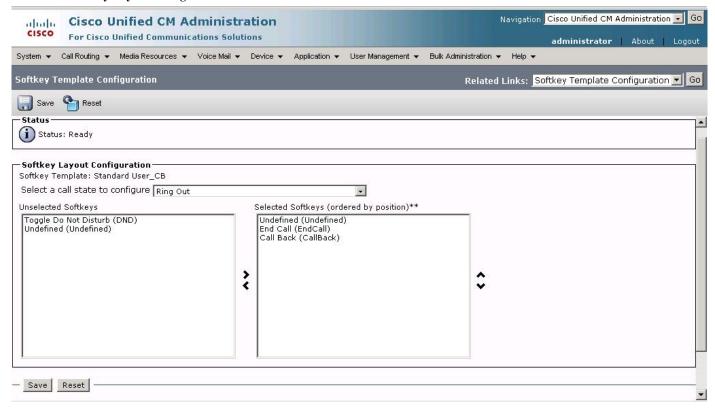


Call Back Soft Key Layout - On hook - 1 of 1.

Cisco Unified CM Adminis Cisco For Cisco Unified Communications So		Navigation Cisco Unified CM Administration 🚽 Go administrator About Logout
System Call Routing Media Resources Voice Mail		Bulk Administration 👻 Help 👻
Softkey Template Configuration		Related Links: Softkey Template Configuration 💌 Go
🔚 Save		
Status		
Softkey Layout Configuration Softkey Template: Standard User_CB Select a call state to configure On Hook Unselected Softkeys Conference List (ConfList) Direct Transfer (DirTfr) Group Pick Up (GPickUp) HLog (HLog) Immediate Divert (iDivert) Join (Join) Meet Me (MeetMe) Mobility (Mobility)	Selected Softkeys (ordered by position)** Redial (Redial) **NewCall (NewCall) Forward All (CfwdAll) Call Back (CallBack)	•
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)	<	→
Save Reset		



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





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

cis			r	Vavigation Cisco Unified C administrato	
System	✓ Call Routing ▼ Media Resources ▼ Voice Mail ▼	Device - Application - Us	er Management 👻 Bulk Administration 👻	Help 👻	
Phone	Configuration		Related Links: Back To	Find/List	
🔒 s	iave 💢 Delete 🗋 Copy 🎦 Reset 🕂 Add N	lew			
State					
Ass	Modify Button Items	Phone Type Product Type: Cisco Device Protocol: SCCP	7960		
2 3	Compartition [2] - 1221 (no partition) Compared a new SD	Device Information Registration IP Address MAC Address*	Registered with Cisco Unified Comm 172.20.235.101	unications Manager CM-SA	TURN
4 5	역 Add a new SD 역 Add a new SD	Description	0003E362FED4		
6	Carl Add a new SD	Device Pool* Common Device Configuration	Default < None >	View D	the second s
7	The [3] - Add a new DN	Phone Button Template*	Standard 7960 SCCP		
8	Carl Add a new SD	Softkey Template Common Phone Profile*	Standard User CB Standard Common Phone Profile		
10		Calling Search Space AAR Calling Search Space	< None >	•	•



Route Optimization

Path Replacement Service Parameter – 1 of 1.

Cisco Unified CM Adminis Cisco For Cisco Unified Communications So		Navigation Cisco Unified CM Administration 💽 Go
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail		
Service Parameter Configuration		Related Links: Parameters for All Servers 💌 Go
🔚 Save Set to Default 🔍 Condensed		
Clusterwide Parameters (Feature - Path Repla	cement)	
Path Replacement Enabled.*	True 🔽	False
Path Replacement on Tromboned Calls.*	True 💌	True
Start Path Replacement Minimum Delay Time *	20	0
Start Path Replacement Maximum Delay Time *	30	0
Path Replacement T1 Timer *	30	30
Path Replacement T2 Timer *	15	15
Path Replacement PINX ID	235	
Path Replacement Calling Search Space	<pre></pre>	Ĩ
—Clusterwide Parameters (Feature - Call Back)·		
Call Back Enabled Flag *	True	True
Call Back Notification Audio File Name *	CallBack.raw	CallBack.raw
Connection Proposal Type *	Connection Retention	Connection Retention
Connection Response Type *	Default to Connection Retention	Default to Connection Retention
Call Back Request Protection T1 Timer *	10	10
Call Back Recall T3 Timer.*	20	20
Call Back Calling Search Space	< None >	

Reroute Service Parameter – 1 of 1.

Cisco Unified CM Adminis		Navigation Cisco Unified CM Administration 💌
For Cisco Unified Communications So	lutions	administrator About Log
em	✓ Device ✓ Application ✓ User Management ✓ Bulk Adminis	tration - Help -
vice Parameter Configuration		Related Links: Parameters for All Servers 💌
Save 🧬 Set to Default 🍳 Advanced		
Ivanced Ad Hoc Conference Enabled *	, False	▼ False
ere are hidden parameters in this group. Click on A	dvanced button to see hidden parameters.	_
	•	
lusterwide Parameters (Feature - Forward)-		
rward Maximum Hop Count.*	12	12
rward No Answer Timer *	12	12
ax Forward Hops to DN *	12	12
stain Forward Information.*	False	False
rward By Reroute Enabled *	True	- False
ansform Forward by Reroute Destination *	True	True
ways Forward Switch Voice Mail Calls *	True	True
rward By Reroute T1 Timer.*	10	10
clude Original Called Info for Q.SIG Call Diversions	* Only after the first diversion	 Only after the first diversion
ax Forward UnRegistered Hops to DN *	0	0
A CSS Activation Policy *	With Configured CSS	With Configured CSS
ere are hidden parameters in this group. Click on A	dvanced button to see hidden parameters.	- 205

IP Phones

IP Phones – 1 of 1.

	Cisco Unified Cl For Cisco Unified Comr					tion Cisco Unified Cl administrato	10	
	all Routing 👻 Media Resourc	es 👻 Voice Mail 👻 De	vice 🔻 Applicatio	on 👻 User Managem	ent 👻 Bulk Administration 👻 Help	•		
id Lis	t Phones				Related Links:	Actively Logged Ir	n Device	Report 💌
ld New	Select All	ar All 🛛 🙀 Delete Selected	a 💁 Reset Sele	ected				
5								
recor	ds found							
e (:	t - 8 of 8)					Rou	vs per Pa	age 50 💽
one w	here Device Name	💽 begins (with 💌	Fir	nd 🛛 Clear Filter 🛛 🔂 😑			
			Select i	tem or enter search	n text 💌			
	Device Name(Line) *	Description	Device Pool	Device Protocol	Status	IP Address	Сору	Super Co
7960	SEP0002FD06DF77	Auto 5002	Default	SCCP	Registered with CM-SATURN	172.20.235.100	ß	C*
7960	SEP0003E362FED4	Auto 5001	Default	SCCP	Registered with CM-SATURN	172.20.235.101	ß	1
7960	SEP000B5FD22FE8	SEP000B5FD22FE8	Default	SIP	Unknown	Unknown	ß	1)
7960	SEP000BBEF9E87D	SEP000BBEF9E87D	Default	SIP	Unknown	Unknown	ß	CP
	SEP00124362B4C5	Auto 5003	Default	SCCP	Registered with CM-SATURN	172.20.235.105	ß	C*
7060					Registered with CM-SATURN	172 20 225 111	Ъ	()
7960	SEP00170EEE3279	Auto 5006	Default	SIP	Registered with CM-SATORN	<u>172.20.235.111</u>	40	4 <u>o</u> r
7960 7961 7961 7961	SEP00170EEE3279 SEP00170EEE32C6	Auto 5006 Auto 5007	Default Default	SIP	Unregistered With CM-SATORN	<u>172.20.235.111</u> <u>172.20.235.110</u>	ß	tr Cr
	d Lis d New 5	d List Phones d New Select All Cleat records found e (1 - 8 of 8) one where Device Name Device Name(Line) ^ SEP0002FD06DF77 SEP0003E362FED4	d List Phones d New ∰ Select All ∰ Clear All ∰ Delete Selected records found e (1 - 8 of 8) one where Device Name ↓ begins of Device Name(Line) ▲ Description SEP0002FD06DF77 Auto 5002 SEP0003E362FED4 Auto 5001	d List Phones d New ∰ Select All ∰ Clear All ∰ Delete Selected records found e (1 - 8 of 8) one where Device Name ↓ begins with ↓ Select i Device Name(Line) ↑ Description Device Pool SEP0002FD06DF77 Auto 5002 Default SEP0003E362FED4 Auto 5001 Default	d List Phones d New Select All Clear All Delete Selected Reset Selected records found e (1 - 8 of 8) one where Device Name Device Name Device Name(Line) Description Device Pool Device Protocol SEP0002FD06DF77 Auto 5002 Default SCCP SEP0003E362FED4 Auto 5001 Default SCCP	d List Phones Related Links: d New Select All Clear All Delete Selected Reset Selected records found records found	Call Routing Media Resources Voice Mail Device Application User Management Bulk Administration Help Related Links: Actively Logged Ir Actively Logged Ir Actively Logged Ir Call New Select All Clear All Clear All Delete Selected Reset Selected Reset Selected Routing Routing Routing Precords found Precord	Call Routing Media Resources Voice Mail Device Mail Device Name Device Name Description Device Pool Device Pool



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

cisc					o Unified CM Administration 💌	Go Gout
System	✓ Call Routing Media Resources Voice Mail	Device - Application - Us	er Management 👻 Bulk A	dministration 👻 Help 👻		
Phone	Configuration		Related Lin	ks: Back To Find/List		Go
🔚 Sa	we 💢 Delete 🕞 Copy 🍨 Reset 🕂 Add N	lew				
Statu (i) St	s tatus: Ready					
	ciation Information Modify Button Items	Phone Type Product Type: Cisco Device Protocol: SCCP	7960			
2 3	Add a new SD	Device Information Registration IP Address MAC Address*	172.20.235.101	Jnified Communications Mana	ager CM-SATURN	
5	Com Add a new SD	Description	0003E362FED4 Auto 5001 Default		 View Details 	
	Add a new SD Unassigned Associated Items	Common Device Configuration Phone Button Template*	< None >		View Details	
	ens Line [3] - Add a new DN Reg Add a new SD	Softkey Template Common Phone Profile*	Standard 7960 SCCP			
10000	Add a new SURL	Common Phone Prome Calling Search Space AAR Calling Search Space	Standard Common PH	one Protile	•	•



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

	Cisco Unified CM Administr		Navigation	n Cisco Unified CM Administration	
Syster	n Call Routing Media Resources Voice Mail Total Routing Media Resources Voice Mail Media Resources Media Resources Voice Mail Media Resources Media Resources Media Resources Voice Mail Media Resources Media Resources Media Resources Voice Mail Media Resources Media Resources		er Management 👻 Bulk Administration 👻 Help 👻	administrator About	Logout
Phon	e Configuration		Related Links: Back To Find/List	t I	▼ Go
	Save 🗙 Delete 🗋 Copy 🎦 Reset 👍 Add I	New			
9	Add a new SURL		Estanuaru Common Phone Prome	<u> </u>	
		Calling Search Space	< None >	*	
10		AAR Calling Search Space	< None >	*	
11	Add a new BLF Directed Call Park	Media Resource Group List	< None >	×	
12	Privacy	User Hold MOH Audio	< None >		
13	None	Source Network Hold MOH Audio			
1		Source	<pre>None ></pre>		
		Location *	Hub_None	*	
		AAR Group	< None >		
		User Locale	< None >		
		Network Locale	< None >		
		Built In Bridge*	Default		
		Privacy*	Default		
		Device Mobility Mode*	Default	View Current Device	
			Mobility Settings		
		Owner User ID	< None >	*	
		Phone Load Name			
		Retry Video Call as Aud	lio		
		☐ Ignore Presentation Ind	licators (internal calls only)		-



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

Cisco Unified CM Administr		
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 睯 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 Presence Group* Standard Presence group Device Security Profile* Cisco 7960 - Standard SCCP Non-Secure Profile	
	SUBSCRIBE Calling Search Space < None > Unattended Port	



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

cisco				Iministra				Ν	Vavigation	Cisco Unified CM	Administration 🗾 GO
				ations Soluti					11010	administrator	About Logout
System 👻	Call Routing 🔻	Media Res	ources 🔻	Voice Mail 🔻	Device - A	pplication 🔻	User Management 🔻	Bulk Administration 👻	Help 🔻		
Phone Co	nfiguration						Relati	ed Links: Back To	Find/List		💌 Go
Save	X Delete	Сору	P Rese	t 🛟 Add Ne	W						
				8				n (CAPF) Informati	ion ———		
					Certificate	s and a second	No Pending O	peration		•	
					Authenticat	ion Mode*	By Null String]		-	
					Authenticat	ion String					
					Genera	te String					
					Key Size (E	its)*	1024			-	
					Operation (Completes By	2007 6	30 12 (mm;MM;	нн:		
					Certificate	Operation Sta		(carried and a second sec	,		
					Note: Secu	rity Profile Co	ontains Addition CAI	PF Settings.			
				3							
				8	— Expansio Module 1	n Module In				=	
					25900225000		None >			-	
					Module 1 Lo						
					Module 2	<	None >			*	
					Module 2 Lo	ad Name					
				9		(A)					
				5			ons Information ((Leave blank to us	e default)———	1
					Information						
					Directory	Г					-



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

cisco	Cisco Unified CM Administr For Cisco Unified Communications Solut		Navigation	Cisco Unified CM Administration Go administrator About Logout
System 👻	Call Routing 👻 Media Resources 👻 Voice Mail 👻	Device - Application - User Management -	- Bulk Administration 👻 Help 👻	
Phone Co	nfiguration	Rela	ted Links: Back To Find/List	
Save	🗶 Delete 🗋 Copy 🎦 Reset 🕂 Add N	ew		
		Information Directory Messages Services Authentication Server Proxy Server Idle Idle Timer (seconds) Extension Information Enable Extension Mobility Log Out Profile Use Current Device Set Log out Profile Value Value Value MLPP Information MLPP Domain NLPP Indication* Default	ttings 💌	



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

diala cisco		Inified CM Adm Unified Communicati			Navigation	Cisco Unified CM A administrator	Go Gout
System 👻	Call Routing 👻	Media Resources 👻 🗸	oice Mail 👻 Device 👻 Application 👻	User Management 👻	Bulk Administration 👻 Help 👻		
Phone Co	onfiguration			Relat	ed Links: Back To Find/List		Go
Rave	X Delete	🗋 Copy 🎦 Reset	Add New				
				None > efault efault	• • •		
			Do Not Disturb Do Not Disturb DND Option* DND Incoming Call All	Ringer Off ert < None >		•	
			Product Specific Co		?		
			☐ Disable Speakerph ☐ Disable Speakerph PC Port * Settings Access* Gratuitous ARP* PC Voice VLAN Access Video Capabilities*	one and Headset Enabled Enabled Enabled	× × ×		



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

System Call Routing Media Resources	Voice Mail Device Application	User Management 👻 Bulk Ac	ministration 👻 Help 👻	
Phone Configuration		Related Link	s: Back To Find/List	
📊 Save 🗙 Delete 📋 Copy 睯 Reset	Add New			
	Product Specific Con	ne	?	
	PC Port * Settings Access* Gratuitous ARP*	Enabled Enabled Enabled	•	
	PC Voice VLAN Access* Video Capabilities* Auto Line Select* Web Access*	Enabled Disabled Disabled Enabled	•	
Save Delete Copy Reset Add	New			



Line 5001 – 1 of 6.

	Unified CM Administration		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	e 🎦 Reset 🕂 Add New		
Status Status: Ready			
Directory Number Directory Number*	Information 5001		
Route Partition	< None >	•	
Description			
Alerting Name	A5001		
ASCII Alerting Name	A5001		
Allow Control of D			
Associated Devices	SEP0003E362FED4	Edit Device Edit Line Appearan	nce
	**		
Dissociate Devices			
		1	

Line 5001 – 2 of 6.

01000	d CM Administration		Navigatio	n Cisco Unified CM A administrator	dministration 🗾 Go
System 👻 Call Routing 👻 Media Ro	esources 👻 Voice Mail 👻 Device 👻	Application 👻 User Manageme	nt 👻 Bulk Administration 👻 Help 👻	8	
Directory Number Configurati	on		Related Links: Configu	ure Device (SEP000:	3E362FED4) 💌 Go
🔚 Save 🗙 Delete	t 🛟 Add New				
					<u> </u>
—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 >				F
Auto Answer*	Auto Answer Off				
- AAR Settings					
	Voice Mail	AAR Destination Mask		AAR Group	
AAR 🗖 or			< None >		
☑ Retain this destination in the history	call forwarding				
—Call Forward and Call Pickup	Settings				
	Voice Mail	Destination	C.	alling Search Space	
Calling Search Space Activation	Policy		Use System Default		

Line 5001 – 3 of 6.

	CM Administrati		Navigation Cisco Unifi	ed CM Administration 🗾 🗔 rator About Logout
System 👻 Call Routing 👻 Media Res	sources 👻 Voice Mail 👻 De	wice 👻 Application 👻 User Managem	ent 🕶 Bulk Administration 👻 Help 👻	
Directory Number Configuratio	n		Related Links: Configure Device (S	EP0003E362FED4) 🗾 Go
🔜 Save 🗙 Delete	🛟 Add New			
-	Voice Mail	Destination	Calling Search S	ipace
Calling Search Space Activation F	Policy		Use System Default	
Forward All	🗆 or 🛛		< None >	
Secondary Calling Search Space	for Forward All		< None >	
Forward Busy Internal	🗆 or		< None >	
Forward Busy External	🗆 or 🛛		< None >	
Forward No Answer Internal	🗆 or		< None >	
Forward No Answer External	🗆 or		< None >	
Forward No Coverage Internal	🗆 or		< None >	
Forward No Coverage External	🗆 or		< None >	
Forward on CTI Failure	🗆 or 🛛		< None >	•
Forward Unregistered Internal	🗆 or		< None >	
Forward Unregistered External	🗆 or		< None >	
No Answer Ring Duration (seconds	;)	Ĩ		
Call Pickup Group	< None >	•		
1.00 v.C		Shu ndu		

Line 5001 – 4 of 6.

01550	ified CM Administration	Navigation Cisco Unified CM Administration 🗾 Go administrator About Logout
System 👻 Call Routing 👻 M	fedia Resources ▼ Voice Mail ▼ Device	Application User Management Bulk Administration Help
Directory Number Config	juration	Related Links: Configure Device (SEP0003E362FED4) 🗾 😡
🔚 Save 🗙 Delete 🔮	Reset 🛟 Add New	
Call Pickup Group	< None >	×
MLPP Calling Search Space MLPP No Answer Ring Dura Line Settings for All De Hold Reversion Ring Durati Hold Reversion Notification (seconds)	vices	Setting the Hold Reversion Ring Duration to zero will disable the feature Setting the Hold Reversion Notification Interval to zero will disable the
Line 1 on Device SEP00 Display (Internal Caller ID)	03E362FED4	Display text for a line appearance is intended for displaying text such as a name nal calls. If you specify a number, the person receiving a call may not see the proper identity of the
ASCII Display (Internal Caller ID)	Phone5001	
Line Text Label	Phone5001	
ASCII Line Text Label	Phone5001	

Line 5001 – 5 of 6.

	fied CM Administration		Navigation Cisco Unified CM Administration 🗾 Go
System 👻 Call Routing 👻 Me	edia Resources 👻 Voice Mail 👻 Device 👻 🤉	Application 👻 User Management 👻 Bulk Administra	ation 🔻 Help 👻
Directory Number Config	uration	Related L	inks: 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	<u>•</u>	
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 >		
	g Settings on Device SEP0003E362FED)4	
Note:The range to select the Maximum Number of Calls*	e Max Number of calls is: 1-196		
Busy Trigger*	14		
Busy Irigger	2	0.	ace than are agual to May, Calle)



Line 5001 – 6 of 6.

aliala Cisco Unified CM Adminis	stration	Navigation Cisco Unified CM Administration 🗾 Go
CISCO For Cisco Unified Communications S	olutions	administrator About Logout
System - Call Routing - Media Resources - Voice Ma	il 👻 Device 👻 Application 👻 User Management 👻	- Bulk Administration 👻 Help 👻
Directory Number Configuration		Related Links: Configure Device (SEP0003E362FED4) 💌 Go
🔜 Save 🗶 Delete 省 Reset 🕂 Add New		
Multiple Call/Call Waiting Settings on Device SI Note:The range to select the Max Number of calls is: 1		<u>م</u> [
Maximum Number of Calls*	4	
Busy Trigger*	2	(Less than or equal to Max. Calls)
Forwarded Call Information Display on Device	SED0002E262EED4	
Caller Name	327000323021204	
Caller Number		
Redirected Number		
🔽 Dialed Number		
Users Associated with Line		
Associate End Users		
- Save Delete Reset Add New		
(i) *- indicates required item.		
(i) **- Changes to Line or Directory Number setting	gs require restart.	-



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

cis			Na	vigation Cisco Unified CM Administration 💽 G administrator About Logou	
System	✓ Call Routing ▼ Media Resources ▼ Voice Mail ▼	Device - Application - Use	er Management 👻 Bulk Administration 👻	Help 🔻	
Phone	Configuration		Related Links: Back To F	ind/List 🗾 🤦	0
🔚 s	iave 💢 Delete 🗋 Copy 🎦 Reset 🕂 Add N	lew			
State	us Status: Ready				
Asso	Modify Button Items	Phone Type Product Type: Cisco 7 Device Protocol: SIP	7961		
2 3 4	Image: Line [2] - Add a new DN Image: Line [2] - Add a new DN Image: Line [2] - Add a new SD Image: Line [2] - Add a new SD	Device Information Registration IP Address MAC Address*	Registered with Cisco Unified Commu <u>172.20.235.110</u> 100170EEE32C6	nications Manager CM-SATURN	
5	Add a new SD Image: Add a new SD Image: Add a new SD	Description Device Pool*	Auto 5007 Default	View Details	
7	Unassigned Associated Items Com Add a new SD	Common Device Configuration Phone Button Template*	< None > Standard 7961 SIP	View Details	
8 9	Add a new SURL	Softkey Template Common Phone Profile* Calling Search Space	< None > Standard Common Phone Profile < None >	×	
10	Add a new BLF Directed Call Park	AAR Calling Search Space	< None >		-



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

Cisco Unified CM Administr		Navigation	Go Cisco Unified CM Administration 💽 Go
System Call Routing Media Resources Voice Mail	Device 👻 Application 👻 Use	er Management 👻 Bulk Administration 👻 Help 👻	
Phone Configuration		Related Links: Back To Find/List	Go
🔚 Save 🗙 Delete 🗋 Copy 🎱 Reset 🕂 Add h	New		
9 Add a new BLF SD 10 Mark Add a new BLF Directed Call Park	Calling Search Space	<pre></pre>	
11 • The Intercom [1] - Add a new Intercom	Media Resource Group List User Hold MOH Audio		
13 Privacy 14 None	Source Network Hold MOH Audio Source	< None >	
	Location*	Hub_None < None >	•
	User Locale Network Locale	< None >	×
	Built In Bridge* Privacy*	Default Default	×
	Device Mobility Mode*	Default Mobility Settings	View Current Device
	Owner User ID Phone Personalization*	< None > Default	×
	Phone Load Name	licators (internal calls only)	



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

Cisco Unified CM / Cisco For Cisco Unified Commun	also tions Calutions	inistration 🗾 Go
System - Call Routing - Media Resources	✓ Voice Mail Device Application User Management Bulk Administration Help	ibode Eogode
Phone Configuration	Related Links: Back To Find/List	🗾 Go
🔚 Save 🗙 Delete 🗋 Copy 省 R	ieset 🛟 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 □ Presence Group* SIP Dial Rules < None > MTP Preferred Originating Codec* 711ulaw Device Security Profile* Cisco 7961 - Standard SIP Non-Secure Profile SUBSCRIBE Calling Search Space < None > SIP Profile* SIP Profile* SIP Profile* Standard SIP Profile ✓ SIP Profile* Siget User ✓ None >	
		•



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

cisco		Unified C	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -							Navig	ation 🔽	Cisco Unified CM A	Administrati	on 🔻 Go
	12/12/12/12/12	Unified Com		Sector Sector Sector							200	administrator	About	Logout
System 👻	Call Routing	Media Resour	rces ▼ \	′oice Mail 👻	Device 🔻	Application 🔻	User Managem	ent 🔻 E	Bulk Administr	ation 👻 Hel	p 🔻			
Phone Co	onfiguration							Related	Links: B	ack To Find	/List			▼ Go
Save		Copy	Reset	Add Ne	w									
					Digest Us	ser	<	None >						-
					🗆 Media	a Termination P	oint Required							
					🗆 Unatt	ended Port								
					🗆 Requi	ire DTMF Recep	ition							
					Certificat Authentic Authentic Gene Key Size Operation Certificat Note: Se	n Completes By te Operation St curity Profile C al Data Locati ion	No Pen By Null 1024 2007 atus: None ontains Additi	ding Ope String 6 30 on CAPF	1 12 (Yr Settings.	YY:MM:DD:I				



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

Cisco Unified CM Administ		Navigation Cisco Unified CM Administration 💽 Go
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail	- Device - Application - User Management - Bulk	Administration 👻 Help 👻
Phone Configuration	Related Li	nks: 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 out Time < None > Log out Time < None > MLPP Information MLPP Domain < None > Do Not Disturb	

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

ahaha	Cisco L	Inified	CM Ac	lministr	ation				Navigation	Cisco Unified CM 4	Administratio	on 🗾 Go
cisco	For Cisco	Unified Co	nmunica	ations Solut	ions					administrator	About	Logout
System 👻	Call Routing 👻	Media Reso	urces 🔻	Voice Mail 👻	Device 👻	Application 👻	User Management 👻	Bulk Administration 🔻	Help 🔻			
Phone Co	nfiguration						Relat	ed Links: Back To	Find/List	3		▼ Go
Save	X Delete	Copy	P Rese	t 🛟 Add N	lew							
							•		-			
					Do N	Disturb ot Disturb	19					
					DND Opt		Ringer Off			•		
					DND Inc	oming Call Aler	t < None >			•		
					Secure S	Shell Inform	ation———					
					Secure S	Shell Password						
					- Produc	t Specific Con	figuration Layout	t				
											2	
					🗖 Disab	le Speakerpho	ne					
					209		ne and Headset					
					PC Port			Enabled				
					Gratuitou			Enabled Disabled		•		
					1.112.212.112.1213.11.1213	VLAN Access*		Enabled				-

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

aliala cisco		Unified CM A	Iministration ations Solutions	Navigation	Cisco Unified CM Administration 💽 🛛	
System 👻	Call Routing 👻	Media Resources 👻	Voice Mail - Device - Application - User Mana	gement 👻 Bulk Administration 👻 Help 👻		
Phone Co	nfiguration			Related Links: Back To Find/List		Go
Save	X Delete	🗋 Copy 🎦 Resi	t 🛟 Add New			
			Gratuitous ARP*	Disabled	•	
			PC Voice VLAN Access*	Enabled	*	
			Video Capabilities*	Disabled	•	
			Auto Line Select*	Disabled	•	
			Web Access*	Enabled	•	
			Span to PC Port*	Disabled	×	
			Logging Display*	PC Controlled	•	
			Load Server			
			Recording Tone*	Disabled	•	
			Recording Tone Local Volume*	100		
			Recording Tone Remote Volume*	50		
			Recording Tone Duration			
			RTCP*	Disabled		
			"more" Soft Key Timer	5		
			Auto Call Select*	Enabled		
			Log Server	[]		-
			Advertise G.722 Codec*	Use System Default		
			Wideband Headcet UI Control*			-



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

cisco	100000000000000000000000000000000000000	Unified CM Ac			Navigation	Cisco Unified CM Ad	ministration 🗾 Go
cisco	For Cisco	Unified Communica	itions Solutions			administrator	About Logout
System 👻	Call Routing 🔻	Media Resources 🔻	Voice Mail Device Application	🔹 User Management 👻	Bulk Administration 👻 Help 👻		
Phone Co	nfiguration			Relat	ed Links: Back To Find/List	2 	.▼ Go
Save	X Delete	Copy 🎦 Rese	: 🛟 Add New				
			"more" Soft Key Tim	er	5		
			Auto Call Select*		Enabled	•	
			Log Server			(1	
			Advertise G.722 Cod	ec*	Use System Default	•	
			Wideband Headset U	I Control*	Enabled	•	
			Wideband Handset U	I Control*	Enabled	•	
			Wideband Headset*		Enabled	•	
			Wideband Handset*		Use Phone Default	•	
			Peer Firmware Sharii	ng*	Disabled	•	
			Cisco Discovery Prot	cocol (CDP): Switch Por	t* Enabled	•	
			Cisco Discovery Prot	iocol (CDP): PC Port*	Enabled		
— Save	Delete	copy Reset Add	New				
(i) *- ir	ndicates requi	red item.					
ĕ							
	Device reset	is not required for cha	nges to Packet Capture Mode and Pa	scket Capture Duration	1.		
(i) ***	Note: Securit	y Profile Contains Add	tion CAPF Settings.				•



Line 5007 - 1 of 6.

01000	OUnified CM Administration		Navigation Cisco Unified CM Administration 🗾 Go
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	e 🎦 Reset 🛟 Add New		
Status (i) Status: Ready			
— Directory Number Directory Number*	Information 5007		
Route Partition	5007 < None >		
Description			
Alerting Name	A5007		
ASCII Alerting Name	A5007		
Allow Control of E	Device from CTI		
Associated Devices	SEP00170EEE32C6	Edit Device Edit Line Appeara	ance
	**		
Dissociate Devices			

Line 5007 – 2 of 6.

cisco		d CM Administ Communications Sol			Navigati	on Cisco Unified CM Administration 💽 Go
System 👻 🛛	Call Routing 👻 Media R	esources 👻 Voice Mail	🕶 Device 👻 Applicat	ion 👻 User Management 🔹	🗸 Bulk Administration 👻 Help 🔹	
Directory M	Number Configurat	ion			Related Links: Config	ure Device (SEP00170EEE32C6) 💌 Go
Rave	🗙 Delete	et 🕂 Add New				
	I					-
-Directory	v Number Settings-					
Voice Mail F	Profile	< None >		💽 (Choose <no< td=""><td>one> to use system default)</td><td></td></no<>	one> to use system default)	
Calling Sea	arch Space	< None >				
Presence G	Group*	Standard Presence gr	oup	•		
User Hold N	MOH Audio Source	< None >		•		
Network Ho	old MOH Audio Source	<pre></pre>		•		
Auto Answe	er*	Auto Answer Off				
-AAR Setti	ings					
		Voice Mail	AAI	R Destination Mask		AAR Group
AAR	🗖 or				< None >	
I Retain history	this destination in the	e call forwarding				
- Call Eorm	ard and Call Pickur	Settings				
Can Forw		Voice Mail	Des	tination		Calling Search Space
Calling Se	arch Space Activation	n Policy			Use System Defau	lt 💽

Line 5007 - 3 of 6.

01000	CM Administration	•	Navigation Cisco Unified Ci administrato	
System 👻 Call Routing 👻 Media Res	sources 👻 Voice Mail 👻 Device		✓ Bulk Administration ✓ Help ✓	
Directory Number Configuratio	n		Related Links: Configure Device (SEPO	0170EEE32C6) 💌 Go
🔜 Save 🗙 Delete	🕂 Add New			
	Voice Mail	Destination	Calling Search Space	
Calling Search Space Activation F	Policy		Use System Default	•
Forward All	🗆 or		< None >	
Secondary Calling Search Space	for Forward All		< None >	
Forward Busy Internal	🗆 or		< None >	•
Forward Busy External	🗆 or		< None >	•
Forward No Answer Internal	🗆 or		<pre>< None ></pre>	
Forward No Answer External	🗆 or		< None >	•
Forward No Coverage Internal	🗆 or		< None >	
Forward No Coverage External	□ or		< None >	
Forward on CTI Failure	or [< None >	•
Forward Unregistered Internal			< None >	
Forward Unregistered External	□ or		< None >	
No Answer Ring Duration (seconds		Î	and the second sec	_
Call Pickup Group	< None >			
]

Line 5007 – 4 of 6.

01000	ified CM Administration	Navigation Cisco Unified CM Administration 💌 Go administrator About Logout
System 👻 Call Routing 👻 N	1edia Resources 👻 Voice Mail 👻 Device 🤜	
Directory Number Config	guration	Related Links: Configure Device (SEP00170EEE32C6) 💌 Go
🔜 Save 🗙 Delete 🤮	Reset 🛟 Add New	
Call Pickup Group	< None >	
Target (Destination) MLPP Calling Search Space MLPP No Answer Ring Dura - Line Settings for All De Hold Reversion Ring Durati Hold Reversion Notification (seconds)	vices	Setting the Hold Reversion Ring Duration to zero will disable the feature Setting the Hold Reversion Notification Interval to zero will disable the
- Line 1 on Device SEP00 Display (Internal Caller ID)	170EEE32C6	Display text for a line appearance is intended for displaying text such as a name
ASCII Display (Internal Caller ID)	instead of a directory number for inte caller. Phone5007	nal calls. If you specify a number, the person receiving a call may not see the proper identity of the
Line Text Label	Phone5007	
ASCII Line Text Label	Phone5007	

Line 5007 - 5 of 6.

	fied CM Administration		Navigation Cisco Unified CM Administration 💽 GO administrator About Logout
System 👻 Call Routing 👻 Me	edia Resources 👻 Voice Mail 👻 Device 👻	Application 👻 User Management 👻 Bulk Administrati	on 🕶 Help 🕶
Directory Number Config	uration	Related Lir	ks: Configure Device (SEP00170EEE32C6) 💌 Go
🔚 Save 🗶 Delete 😭	Reset 🛟 Add New		
Line Text Label	Phone5007		_
ASCII Line Text Label	Phone5007		
External Phone Number Mask	[
Visual Message Waiting Indicator Policy*	Use System Policy		
Audible Message Waiting Indicator Policy*	Off	•	
Ring Setting (Phone Idle)*	Use System Default	×	
Ring Setting (Phone Active)	Use System Default	Applies to this line when any line o	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		
Recording Option*	Call Recording Disabled		
Recording Profile	< None >	•	
Monitoring Calling Search Space	< None >	×	*



Line 5007 - 6 of 6.

Cisco Unified CM Administra Cisco For Cisco Unified Communications Soluti		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 < None > Search Space		-
-Multiple Call/Call Waiting Settings on Device SEPOC 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 SEP	00170FFF32C6	
Caller Name		
🗖 Caller Number		
Redirected Number		
🗹 Dialed Number		
Users Associated with Line		
Associate End Users		
SaveDeleteResetAdd New		



Call Forwarding

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

Cisco Unified			Navigation Cisco Unified	
iystem ▾ Call Routing ▾ Media Res	ources 👻 Vo	ce Mail 👻 Device 👻 Application 👻 User Mana		
irectory Number Configuratio	n		Related Links: Configure Device (SEF	00170EEE32C6) 💌
🔜 Save 🗙 Delete	Add Nev	<i>i</i>		
Call Forward and Call Pickup §	ettings —			
	Voice Mail	Destination	Calling Search Spa	ice
Calling Search Space Activation F	olicy		Use System Default	-
Forward All	🗆 or		< None >	•
Secondary Calling Search Space	for Forward A	t	< None >	•
Forward Busy Internal	🗆 or	5002	< None >	
Forward Busy External	🗆 or	5002	< None >	•
Forward No Answer Internal	🗆 or	5002	< None >	
Forward No Answer External	🗆 or	5002	< None >	
Forward No Coverage Internal	🗖 or		< None >	
Forward No Coverage External	[] or		< None >	
Forward on CTI Failure	🗖 or		< None >	•
Forward Unregistered Internal	🗖 or	5002	< None >	
Forward Unregistered External	🗖 or	5002	< None >	•
o Answer Ring Duration (seconds				
all Pickup Group	< None >	¥.		

Cisco Unity Integration

List Hunt Pilots – 1 of 1.

սիսիս	Cisco Unified CM	Administration				Navigation	Cisco Unified CM 4	Administrat	ion 🗾 Go
cisco	For Cisco Unified Commu	nications Solutions					administrator	About	Logout
System 👻	Call Routing 👻 Media Resources	✓ Voice Mail ▼ Device ▼	Application 👻	User Management 👻	Bulk Administration	🕶 Help 👻			
Find and	List Hunt Pilots								
Add N	lew 🔛 Select All 🔛 Clear A	II 🙀 Delete Selected							
Status -									
1 rec	ords found								
Hunt Di	ots (1 - 1 of 1)						Dama	per Page	50 -
nuncri							ROWS	per Page	JU
Find Hunt	Pilots where Pattern 💽 be	gins with 💽	Find	Clear Filter	÷ -				
	Pattern *	Description	Pa	artition	Route Filter		Hunt List		Сору
	<u>5090</u>	VM Hunt Pilot				Unit	VVM HL	ß	
Add Ne	w Select All Clear All	Delete Selected							



Hunt Pilot 5090 – 1 of 3.

01000	co Unified CM Administration isco Unified Communications Solutions			7		Cisco Unified CM Adminis	
System 👻 Call Routi	ng 👻 Media Resources 👻 Voice Mail 👻 Device 👻 A	pplication 👻 Us	er Management 👻	Bulk Administration 👻	Help 👻		
Hunt Pilot Config	uration				Relat	ted Links: Back To Fin	id/List 💌 Go
🔚 Save 🗙 De	lete 🗋 Copy ᆛ Add New						
Status Status: Ready							
Hunt Pilot*	5090						
Route Partition	< None >	•					
Description	VM Hunt Pilot						
Numbering Plan	< None >	*					
Route Filter	< None >	÷					
MLPP Precedence*	Default	-					
Hunt List*	UnityVM_HL	🚽 (<u>Edit</u>)					
Route Option	Route this pattern						
	C Block this pattern No Error	-					
Provide Outside Dial Tone Urgent Priority							
Hunt Forward Se	ettings						
	Use Personal Preferences			Destination		Calling Sea	rch Space
Forward Hunt No	Answer 🔲 or					< None >	•



Hunt Pilot 5090 – 2 of 3.

01000	fied CM Administration		Na	a a state a st	d CM Administration 🗾 Go
	dia Resources 👻 Voice Mail 👻 Device 👻	Application 👻 User Manageme	nt 👻 Bulk Administration 👻	administr Help 👻	ator About Logout
Hunt Pilot Configuration				Related Links:	Back To Find/List 💌 Go
🔜 Save 🗙 Delete 🗋	Copy 🔂 Add New				
—Hunt Forward Settings—					
E. S. LUCIER	Use Personal Preference	5	Destination		Calling Search Space
Forward Hunt No Answer	🗖 or				< None >
Forward Hunt Busy	🗖 or				< None > 💽
Maximum Hunt Timer					0
− Calling Party Transform					
Calling Party Transform Mas	k				
Prefix Digits (Outgoing Calls)				
Calling Line ID Presentation	* Default				
Calling Name Presentation*	Default				
—Connected Party Transfo	ormations				
Connected Line ID Presentat	tion* Default				
Connected Name Presentation	on* Default	•			
—Called Party Transforma	tions				
Discard Digits	< None >	· ·			-



Hunt Pilot 5090 - 3 of 3.

Cisco Unified CM Administration		Navigation Cisco Unified CM Administration 🗾 Go
System Call Routing Media Resources Voice Mail Device	Application - User Management - Bulk Administration	
Hunt Pilot Configuration		Related Links: Back To Find/List 💌 Go
🔚 Save 🗙 Delete 🗈 Copy 🕂 Add New		
Caning Line ID Fresentation Default	<u>×</u>	
Calling Name Presentation* Default		
Connected Party Transformations		
Connected Line ID Presentation* Default	•	
Connected Name Presentation* Default		
Called Party Transformations		
Discard Digits <pre></pre>		
Called Party Transform Mask		
Prefix Digits (Outgoing Calls)		
AAR Group Settings		
AAR Group < None >	T	
External Number Mask		
— Save Delete Copy Add New		
(i) *- indicates required item.		-

Hunt List – 1 of 2.

Cisco Unified CM Ad			1	Vavigation	Cisco Unified CM	10 880 W 10	
System - Call Routing - Media Resources -	Voice Mail Device Application	User Management 👻	Bulk Administration 👻	Help 👻	aummistrator	About	Logout
Hunt List Configuration				Related	d Links: Back To I	Find/List	✓ Go
🔚 Save 🗶 Delete 🗈 Copy 🍄 Reset	t 🛟 Add New						
Status Status: Ready							
Hunt List Information	UnityVM_HL						
Description Cisco Unified Communications Manager Grou	Unity VM HuntList	1					
✓ Enable this Hunt List (change effective on ✓ 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 Adm				N	lavigation	Cisco Unified CM	10 100 10 10	
System 👻	0.000	🔹 Media Resources 👻 Vo		Application 👻	User Management 👻	Bulk Administration 👻	Help 👻	administrator	About	Logout
Hunt List	Configurati	on					Related	Links: Back To	Find/List	💌 Go
Rave	X Delete	Copy Preset	🕂 Add New							
Add I Selected (.ine Group Groups ^{**}	SaturnUM1_LG			×					-
Removed	Groups***	· · · · ·	•							
Hunt Lis	t Details — mUM1_LG									
— Save	Delete	Copy Reset Add Ne								
(i) **o	dicates requi dered by hig will be remov		ou click Save							

Line Group – 1 of 3.

	ied CM Administration			Ν	lavigation	Cisco Unified CM Administration	
	a Resources - Voice Mail - Device -	Application -	User Management 👻	Bulk Administration 👻	Help 👻	administrator About	Logout
System + San touting + Medi			ooor management	evans Automise autom •	noib *		_
Line Group Configuration					Rel	ated Links: Back To Find/List	💌 Go
🔚 Save 🗙 Delete 🕂 A	Add New						
Line Group Information—							
· · · · · · · · · · · · · · · · · · ·	urnUM1_LG						
RNA Reversion Timeout* 10							
· · · · · · · · · · · · · · · · · · ·							
Distribution Algorithm*) Down	•					
Hunt Options							
	ember; then, try next group in Hunt L	ist 🔹					
and the second sec	ember; then, try next group in Hunt L						
Ing nexem	ember; then, try next group in Hunt L						
	ember; then, try next group in Hunt L	ist 💌					
—Line Group Member Inform	mation —						
Find Directory Numbers	to Add to Line Group-						
Partition	< None >	•					
Directory Number Contains			Find				
	1		- mu				
Available DN/Route Partition	1221 1222	-					
	4200	_					
	4201	-					
	4202						

Add to Line Group



Line Group – 2 of 3.

cisco	Cisco Unifi For Cisco Unific							Navigatior	Go Cisco Unified CM Administration 💽 Go
System 👻	Call Routing 👻 Medi	ia Resources 👻	Voice Mail 👻	Device 🔻	Application 👻	User Management 👻	Bulk Administration 👻	Help 🔻	
Line Grou	ıp Configuration							Re	lated Links: Back To Find/List 💌 Go
Save	X Delete	Add New							
	rectory Numbers	to Add to Lin	e Group						_
Partition		< None >			-]			
Director	y Number Contains					Find			
	e DN/Route Partition	1222 4200 4201 4202 Add to L	ine Group		•	1			
	Reverse Or	der of Select	ed DN/Route I	Partitions	6				
Selected	DN/Route Partition	5091 5092 5093 5094				×			
		· •	•						
Remove	d DN/Route Partition								

Line Group – 3 of 3.

61660			dministra	and the second second			r	Vavigation	an a	1 Administration 토 🧕	
200			Voice Mail -	2020) 	0 uudia akiaa	Line Menninger	Bulk Administration 👻	L la la	administrator	• About Logou	ut
System 👻 Call Routin	g ♥ Iwea	la Resources 👻	Voice Mail 👻	Device 🗸	Application •	User Management 👻	Buik Administration •	Help 🔻			
Line Group Config	uration							Rel	ated Links: Bad	ck To Find/List 💌 G	0
Save 🗶 Del	ete 🛟 .	Add New									
		5093 5094				^				1	
	Removed DN/Route Partition										
Removed DN/Rou	e Partition:	י									
		ļ									
											J
Directory Number											1
•778 •778 5092 (no part											
•7785 5092 (no part											
•7715 5094 (no part											
778 5094 (no part	don)										
— Save Delete	Add Ne										
Jave Delete	AUGING	500									
(i) *- indicates n	quired ite	·m.									
(i) **Fields marl	ed with a r Broadca	** are require st. The No Ans	d when the Dis wer setting is ι	tribution A used for Lo	lgorithm is set ngest Idle and	: to Top Down or Cin I Broadcast.	cular, and are not use	ed when th	e Distribution Alg	orithm is set to	-



Line Group Line 5091 – 1 of 4.

	Unified CM Administration		Navigation Cisco Unified CM Administration 🗾 G	io
CISCO For Cise	co Unified Communications Solutions		administrator About Logou	ut
System 👻 Call Routing	✓ Media Resources ✓ Voice Mail ✓ Device ✓	Application User Management Bulk Administration	▼ Help ▼	
Directory Number (Configuration		Related Links: Back To Find/List 🔄 G	0
Save 🗙 Delete	e [Copy 🎦 Reset 🕂 Add New			
Status				-
i Status: Ready				
	To firm alter			1
Directory Number Directory Number*	5091			
Route Partition	< None >			
Description				
Alerting Name	VoiceMail			
ASCII Alerting Name				
Line Group	SaturnUM1_LG	Edit Line Group		
Associated Devices	SaturnUM1-VI1	Edit Device		
		Edit Line Appearance		
12	VA			
Dissociate Devices				
				-



Line Group Line 5091 – 2 of 4.

cisco		fied CM Admin	and the second second second				Navigatior	Cisco Unified CM Administr	
System 👻	Call Routing 👻 Me	dia Resources 👻 Voice N	tail 👻 Device 👻	Application 👻	User Management 👻	Bulk Administratio	n 🔻 Help 🔫	aunimistrator	. Logoot
Directory	v Number Configu	uration					Relate	d Links: Back To Find/List	: 🔽 Go
Rave	X Delete	Copy 🎦 Reset 🕂	Add New						
	I								4
-Director	ry Number Settin	gs							
Voice Mai	il Profile	NoVoiceMail			💽 (Choose <nor< td=""><td>ne> to use system</td><td>n default)</td><td></td><td></td></nor<>	ne> to use system	n default)		
Calling S	earch Space	< None >			•				
Presence	Group*	Standard Presence	e group		•				
User Hold	MOH Audio Source	<pre>></pre>			-				
Network I	Hold MOH Audio So	urce < None >			-				
Auto Ansi		Auto Answer Off							
-AAR Set	ttinas —								
		Voice Mail		AAR Dest	ination Mask			AAR Group	
AAR	🗆 or					< N	one >		•
☑ Reta history	in this destination i	n the call forwarding							
—Call For	ward and Call Pie	kup Settings							
		Voice Mail		Destinatio	on		Ca	lling Search Space	
Calling S	Search Space Activ	ation Policy				Use Sy	stem Default		•



Line Group Line 5091 – 3 of 4.

Cisco Unified			Μ	Javigation Cisco Unified CM Administr	
System 👻 Call Routing 👻 Media Res	ources 👻 Voice Mail	✓ Device ✓ Application ✓ User Management ✓	Bulk Administration 👻	Help 🔻	
Directory Number Configuratio	n			Related Links: Back To Find/List	. 💽 Go
🔜 Save 🗶 Delete 🗋 Copy	Preset 🕂 Add	d New			
	Voice Mail	Destination		Calling Search Space	
Calling Search Space Activation F	olicy		Use System	n Default	-
Forward All	🗆 or 📃		< None >		•
Secondary Calling Search Space	for Forward All		< None >		•
Forward Busy Internal	🗆 or 📃		< None >		•
Forward Busy External	🗆 or 🛛 🗌		< None >		•
Forward No Answer Internal	🗆 or 📃		< None >		•
Forward No Answer External	🗆 or 📃		< None >		•
Forward No Coverage Internal	🗆 or 🛛		< None >		•
Forward No Coverage External	🗆 or 📃		< None >		•
Forward on CTI Failure	🗆 or 🛛 🗖		< None >		•
Forward Unregistered Internal	🗆 or 📃		< None >		•
Forward Unregistered External	🗆 or 📃		< None >		•
No Answer Ring Duration (seconds					
Call Pickup Group	< None >				
)] _



Line Group Line 5091 – 4 of 4.

Cisco Unified CM Administration For Cisco Unified Communications Solutions	Navigation Cisco Unified CM Administration 💽 Go
System • Call Routing • Media Resources • Voice Mail • Device • Application • User Management •	
Directory Number Configuration	Related Links: Back To Find/List 🗾 Go
🔚 Save 🗶 Delete 🗈 Copy 省 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 MLPP No Answer Ring Duration (seconds)	
Line Settings for All Devices Hold Reversion Ring Duration (seconds)	
	tting the Hold Reversion Ring Duration to zero will disable the feature
(seconds) feature Se	tting the Hold Reversion Notification Interval to zero will disable the
Save Delete Copy Reset Add New	
i) *- indicates required item.	
$\overline{\mathbf{i}}$ **- Changes to Line or Directory Number settings require restart.	-



Voice Mail Profiles – 1 of 1.

abab	-	4 Administration				Navigation	Cisco Unified CM /	Administration 💊	o Go
cisco	For Cisco Unified Comm	unications Solutions					administrator	About Lo	ogout
System 👻	Call Routing 👻 Media Resource	es 👻 Voice Mail 👻 Device	 Application + 	User Management 👻	Bulk Administration	🔹 Help 👻			
Find and	List Voice Mail Profiles								
Add I	New 🔛 Select All 🔛 Clea	r All 🛛 🙀 Delete Selected							
Status	cords found								
Voice N	tail Profile (1 - 3 of 3)						Rows	per Page 50	*
eta di Unita									
Find Voic	e Mail Profile where Voice Mail	Profile Name begins with	*	Find	Clear Filter 🛛 🛟				
Find Voic	e Mail Profile where Voice Mail Name ⁴	Profile Name begins with	Description	(Find)	Clear Filter 🛛 🔂		ling Search Space	Cot	PY
		Profile Name begins with Default voice messag	Description	Find			ling Search Space	Cot	PY
	Name 📤	L	Description	Find			ling Search Space	1	PY
	Name [▲] Default	Default voice messag	Description	(Find)			lling Search Space	ß	ΡŸ



Unity Voice Mail Profile – 1 of 1.

abab	Cisco U	nified CM Ac	ministra	ation				Navigation	Cisco Unified CM 4	dministrati	on 🔽 GO
cisco	For Cisco L	Inified Communica	ations Soluti	ions					administrator	About	Logout
System 👻 🤘	Call Routing 👻	Media Resources 👻	Voice Mail 👻	Device 👻	Application \bullet	User Management 👻	Bulk Administration 👻	Help 🔻			
Voice Mail	Profile Conf	iguration						Related	Links: Back To F	ind/List	🖌 Go
Save	🗙 Delete 🛛	🗋 Copy 🎦 Rese	t 🕂 Add N	ew							
Status — Status Status	:: Ready il Profile Infi	ormation ———									
Voice Mail F		UnityVM_Profile (u	sed by 10 dev	/ices)							
Voice Mail F	Profile Name*	UnityVM_Profile									
Description	6	Unity VM Profile									
Voice Mail F	Pilot**	5090/< None >			~						
Voice Mail B	Box Mask										
🗹 Make th	nis the default	Voice Mail Profile for	r the System								
— Save (Delete Co	py Reset Add	d New								
(i) *- ind	licates require	d 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.

ahaha	Cisco	Unified CM A	dministrati	on					Navigati	on Cisco Unified CM	Administ	ration 📐	🖌 😡
cisco	For Cisco	Unified Communic	ations Solutions							administrator	Abo	ut L	ogout
System 👻	Call Routing 👻	Media Resources 👻	Voice Mail 👻 Dev	rice 👻	Application \bullet	User Manage	ement 👻	Bulk Administrati	on 👻 Help 🖲	•			
Find and I	List Voice M	ail Pilots											
🕂 Add N	Add New 🔛 Select All 🔛 Clear All 💥 Delete Selected												
Status 3 records found													
Voice M	ail Pilot <i>(1</i>	- 3 of 3)								Row	s per Pa	ge 50	~
Find Voice	Mail Pilot wh	ere Voice Mail Pilot (Number 🔽 begins	with	*		Find	Clear Filter	-				
			Pilot Number 🔺			Des	cription			Calling Search S	pace		
Г	1				<u>Defa</u>	<u>iult</u>							
Г	1				<u>No V</u>	loice Mail							
(j)	2	<u>5090</u>			VM F	<u>Pilot</u>							
Add Net	w Select	All Clear All	Delete Selected										



Voice Mail Pilot 5090 - 1 of 1.

	sco Unified CM Administration	Naviga	tion Cisco	Unified CM A	dministratio	n 🔽 🖸
CISCO For	Cisco Unified Communications Solutions		adm	inistrator	About	Logout
System 👻 Call Ro	uting 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration	👻 Help				
Voice Mail Pilot	: Configuration	Rel	ated Links:	Back To F	ind/List	🖌 Go
🔚 Save 🗙	Delete 🛟 Add New					
Status Status: Rea	ıdy					
— Voice Mail Pil	ot Information					
Voice Mail Pilot I	Numper 2000					
Calling Search S	ipace < None >					
Description	VM Pilot					
Make this the	e default Voice Mail Pilot for the system					
- Save Dele						

Voice Mail Ports - 1 of 1.

		Unified Con		inistration 15 Solutions				admini:	fied CM Administration	Logou
System	n 👻 Call Routing	 Media Resou 	rces 👻 Voic	e Mail 👻 Device 👻 Application	n 👻 User Management	t 🕶 Bulk	Administratio	n 🕶 Help 👻		
ind a	and List Voice N	1ail Ports								
ۍ م	Add New 🔣 Se	lect All	ear All 🐳	Delete Selected 🛛 😋 Reset Sele	cted					
Γ.										
Stat	hue									
-										
1)	4 records found									
	Mail Bash /									1.2
¥oid	ce Mail Port 🛛 🥻	t - 4 of 4)							Rows per Page 50	~
			ame	begins with	Find	Clear	Filter		Rows per Page 50	~
	ce Mail Port () Voice Mail Port wh		ame	begins with	Find	Clear	Filter	-	Rows per Page 50	~
			ame		Find Find em or enter search to		Filter	-4	Rows per Page 50	~
ind \			ame Device Pool				Filter =) 📼 Status	Rows per Page 50	
ind V	Voice Mail Port wh	ere Device N	Device	Select it	em or enter search to Calling Search	ext 🔽				
	Voice Mail Port wh Device Name	Device N	Device Pool	Select it Device Security Mode Non Secure Voice Mail	em or enter search to Calling Search	ext 💌 Ext.		Status Registered with CM-	IP Address	Cot
ind V	Voice Mail Port wh	Description	Device Pool <u>Default</u>	Select it Device Security Mode Non Secure Voice Mail Port Non Secure Voice Mail	em or enter search to Calling Search	ext 💌 Ext. <u>5091</u>		Status Registered with CM- SATURN Registered with CM-	IP Address 172.20.239.252	Cot
ind V	Voice Mail Port wh Device Name SaturnUM1-VI1 SaturnUM1-VI2	Description VM Port VM Port	Device Pool <u>Default</u> <u>Default</u>	Select it Device Security Mode Non Secure Voice Mail Port Non Secure Voice Mail Port Non Secure Voice Mail	em or enter search to Calling Search	Ext. 5091 5092		Status Registered with CM- SATURN Registered with CM- SATURN Registered with CM-	IP Address 172.20.239.252 172.20.239.252	co D

iDivert

iDivert Softkey Template - 1 of 1.

Cisco Unified CM Administration	Navigation Cisco Unified CM Administration 💌 GO
System Call Routing Media Resources Voice Mail Device	administrator About Logout Application ▼ User Management ▼ Bulk Administration ▼ Help ▼
Softkey Template Configuration	Related Links: Configure Softkey Layout 🗾 Go
🔚 Save 🗶 Delete 🗈 Copy 🕂 Add New 蠀 Reset	
Status Status: Ready	
Softkey Template Information Name* Standard User iDivert Description Standard Softkey Template for CCM w/ iDivert Applications* Cisco CallManager	Add Application Remove Application
C Default Softkey Template	
- Save Delete Copy Add New Reset	



iDivert Softkey Template Layout - Connected - 1 of 1.

Cisco Unified CM Adminis		Navigation Cisco Unified CM Administration 💽 G administrator About Logou
System - Call Routing - Media Resources - Voice Mail	I Device Application User Management	🕶 Bulk Administration 👻 Help 👻
Softkey Template Configuration		Related Links: Softkey Template Configuration 💌 G
📊 Save		
- Status Status: Ready - Softkey Layout Configuration Softkey Template: Standard User iDivert Select a call state to configure Connected	v 1	
Unselected Softkeys HLog (HLog) Mobility (Mobility) Quality Report Tool (QRT) Toggle Do Not Disturb (DND) Undefined (Undefined)	Selected Softkeys (ordered by position)** Immediate Divert (iDivert) Hold (Hold) End Call (EndCall) Transfer (Trnsfer) Park (Park) Conference (Confrn) Conference List (ConfList) Select (Select) Join (Join) Direct Transfer (DirTrfr) Video Mode Command (VidMode) Redirect (Redirect) Remove Last Conference Party (RmLstC) Transfer to Voice Mail (TrnsfVM) Toggle Malicious Call Trace (MCID)	\$
Save Reset		



iDivert Softkey Template Layout - Hold - 1 of 1.

Cisco Unified CM Adminis		Navigation Cisco Unified CM Administration 💽 G
System - Call Routing - Media Resources - Voice Mail	▼ Device ▼ Application ▼ User Management ▼	Bulk Administration 👻 Help 👻
Softkey Template Configuration		Related Links: Softkey Template Configuration 💌 G
🔜 Save 🏻 😭 Reset		
Status Status: Ready Softkey Layout Configuration Softkey Template: Standard User iDivert		
Select a call state to configure On Hold	Selected Softkeys (ordered by position)**	
Toggle Do Not Disturb (DND) Undefined (Undefined)	 **Resume (Resume) Immediate Divert (IDivert) NewCall (NewCall) Direct Transfer (DirTrfr) Select (Select) Join (Join) Redirect (Redirect) Transfer to Voice Mail (TrnsfVM) 	\$
- Save Reset		



iDivert Softkey Template Layout - Ring in - 1 of 1.

cisco	Cisco Unified CM For Cisco Unified Commu				T	Vavigatior	Cisco Unified CM Administration 💽 Go administrator About Logout
System 👻	Call Routing 👻 Media Resources	▼ Voice Mail ▼	Device 👻 Application	👻 User Management 👻	Bulk Administration \bullet	Help 🔻	
Softkey To	emplate Configuration				Related	Links: S	oftkey Template Configuration 💌 🗔
Save	Preset Reset						
Softkey Te	Layout Configuration mplate: Standard User iDiver						
Unselected	call state to configure Ring	In	Selected Softkays (ordered by position)**			
Toggle D	o Not Disturb (DND) d (Undefined)	>	Immediate Divert Answer (Answer) Redirect (Redirect) Transfer to Voice M	(iDivert)	\$		
- Save	Reset						

iDivert Service Parameters set for Legacy – 1 of 1.

Cisco Unified CM Administr		Navigation Cisco Unified CM Administration 🗾 Go
System Call Routing Media Resources Voice Mail	Device - Application - User Management - Bulk Administrati	
Service Parameter Configuration		Related Links: Parameters for All Servers 💌 Go
🔚 Save 🧬 Set to Default 🔍 Advanced		
SIP Dual Mode Alert Timer.*	1500	1500
Enable Enterprise Feature Access *	False	False
Enable Mobile Voice Access *	False	False
Mobile Voice Access Number		
Matching Caller ID with Remote Destination *	Complete Match	Complete Match
Number of Digits for Caller ID Partial Match *	10	10
System Remote Access Blocked Numbers		
Clusterwide Parameters (Feature - Immediate Di	uert)	
Use Legacy Immediate Divert *	True	True
Allow QSIG during iDivert *	True	False
Immediate Divert User Response Timer_*	5	5
Save Set to Default Advanced Set to Default Advanced *- indicates required item. **Set-to-Default button only applies to the modifiab	le parameters.	

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

cisco	Cisco Unified CM Administr For Cisco Unified Communications Solut		Navigation Cisco Unified CM Administration 💽 Go
System 👻	Call Routing 👻 Media Resources 👻 Voice Mail 👻	Device 👻 Application 👻 User Management 👻 Bulk Administrati	on 🔻 Help 🔫
Service Pa	arameter Configuration		Related Links: Parameters for All Servers 💌 Go
Save	🧬 Set to Default 🔍 Advanced		
SIP Dual I	Mode Alert Timer.*	1500	1500
Enable En	terprise Feature Access *	False	False
Enable Mo	bile Voice Access *	False 🔹	False
Mobile Vo	ice Access Number		
Matching	Caller ID with Remote Destination *	Complete Match	Complete Match
Number o	f Digits for Caller ID Partial Match.*	10	10
System R	emote Access Blocked Numbers		
	<u>vide Parameters (Feature - Immediate D</u>	ivert)	
Use Legad	oy Immediate Divert.*	False 🔽	True
Allow QSI	G during iDivert.*	True	False
Immediat	e Divert User Response Timer_*	5	5
ě	Set to Default Advanced dicates required item.	le 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

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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\$Aofo\$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-13 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-13 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 04 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
ССМ	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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