



# NEC IPX 2400 R15 using T1-QSIG to Cisco Unified Communications Manager 6.0

November 15, 2007 Revision 2

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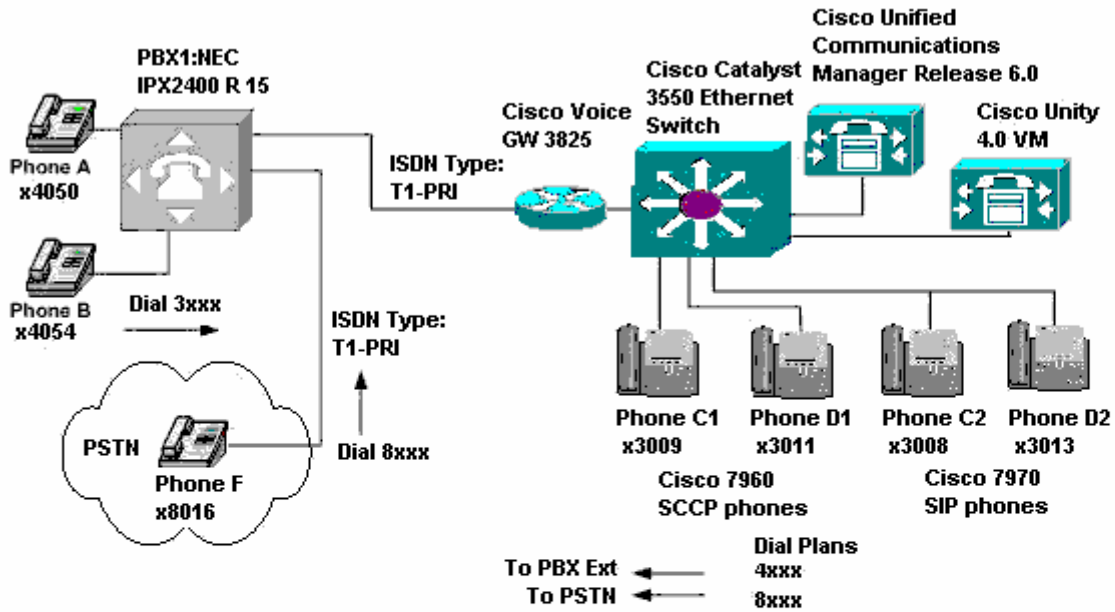


## Introduction

- This is an application note for connectivity of NEC IPX 2400 release 15 with Cisco Unified Communications Manager Release 6.0 via Cisco Voice Gateway-3825-T1 QSIG as MGCP gateway using ISO QSIG protocol.
- The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified Communications Manager connected to the PBX via Cisco Voice Gateway-3825 -T1 QSIG link as MGCP gateway.
- Connectivity is achieved by using the PRI QSIG T1 protocol type on the MGCP gateway and ISO QSIG switch type on the of NEC IPX 2400 PBX.
- This Application Note uses the Cisco Voice Gateway-3825; however, other Cisco voice gateways are also an option to use since Cisco Unified Communications Manager QSIG implementation does not depend on the physical interface.

Network Topology

Figure 1. Network Topology or Test Setup





## Limitations

- NEC IPX 2400 release 15 does not support Basic call with Overlap sending/receiving
- NEC PBX does not allow the restriction setting of the connected name and connected number for basic calls.
- In the Call Forwarding Unconditional (CFU) by Joint external, The PBX passed the diverting station number, but does not pass the diverting station name.
- Call Transfers (Consultation-local) Cisco IP phone calls NEC phone A and phone A transfer call to NEC phone B - NEC restricted the redirection name and number presentation using QSIG The calling phone displayed the connected name and number “from private, unknown number”. But, if using Blind transfer, NEC PBX allows the display of connected name and connected number.
- ANF-PR-Additional Network Feature Path Replacement (for Call Forward by join), the current NEC IPX 2400 North American Release 15 software does not support Path Replacement on Call Forward by join.
- CONR- Connected Name Identification Restriction – (NEC IPX 2400 could not change connected name to restricted).
- COLR- Connected Line (Number) Identification Restriction – (NEC IPX 2400 could not change connected number to restricted).

## System Components

### Hardware Requirements

- Cisco Catalyst 3550 switch with CISCO VOICE GATEWAY-3825-T1 Gateway
- Cisco Unified Call Manager Server
- NEC IPX 2400 IP PBX
- Cisco Unity

### Software Requirements

- NEC IPX 2400 Release 15
- Cisco Unified Communications Manager 6.0
- Cisco IOS for MGCP gateway , Version 12.4(15)T1 or higher
- Cisco Unity, Version 4.2(1)

## Features

### Features Supported

- CLIP-Calling Line (Number) Identification Presentation
- CLIR-Calling Line (Number) Identification Restriction
- CNIP-Calling Name Identification Presentation
- CNIR-Calling Name Identification Restriction
- COLP-Connected Line (Number) Identification Presentation
- CONP-Connected Name Identification Presentation
- Sending Alerting Name
- CT-Call Transfer
- CFU-Call Forwarding Unconditional (by join)
- CFB-Call Forwarding Busy (by join)



- CFNR-Call Forwarding No Reply (by join)
- CFU-Call Forwarding Unconditional (by Reroute)
- CFB-Call Forwarding Busy (by Reroute)
- CFNR-Call Forwarding No Reply (by Reroute)
- CCBS-Call Completion to Busy Subscriber
- CCNR-Call Completion No Reply
- ANF-PR-Additional Network Feature Path Replacement (for Call Transfer by join)
- ANF-PR-Additional Network Feature Path Replacement (for Call Diversion by forward switching)
- ANF-PR-Additional Network Feature Path Replacement (for Trombone connection)
- IDivert

#### **Features not supported**

- Q.SIG MWI- Message Waiting Indication (lamp ON, lamp OFF), the current NEC IPX 2400 North American Release 15 software does not support QSIG-MWI
- Overlap sending and overlap receiving are not supported on the current NEC IPX 2400 North American Release 15 software.

## **Configuration**

### **Configuration Sequence and Tasks**

#### **Configuring the NEC IPX 2400 PBX**

Important Notice: It is important that the engineer/technician modifying the IPX 2400 configuration be well versed in the NEC MAT command line. The NEC MAT command line is very precise and should only be changed by a person who is certified by NEC and has the in-depth knowledge on how to troubleshoot the system in case erratic behavior results.

#### **Sequence**

Physical Layer Set-up:

SW Mode→SW1→SW2→SW4

Note: You must set the switches on the PA-24PRT appropriately for QSIG operation

Enable QSIG services:

ASYD→ASFC

To build the QSIG route:

ARTD→ARTI→ATRK→ARSC→ARRC→ADPC→ACSC→ACIC1→ACIC2→MBRT

To build the dial plan to access the QSIG route (Assumes dummy route has been built and ARRC is assigned properly):

ANPD→ASPA→AMND→AFRS→AOPR→ARNP

#### **Configuration Menus and Commands**

##### **Physical Layer Set-up:**

- **SW Mode**



Set to 10 (A in HEX)

- **SW1**

Set switch 3 to 'off' (Sets 23B+D mode)

- **SW2**

Set switch 4 'on' and switch 5 'on' (Sets ESF framing and B8ZS line code)

- **SW4**

Set switch 2 to 'off' (This switch determines the ISDN protocol side emulation for the route Off=Network/On=User)

Note: To set other physical layer parameters such as LBO, alarm monitoring and Loss Pad settings please refer to the NEC USER GUIDE for the PA-24PRT. These parameters are not covered in this document. The value of these parameters will depend upon the installation of each individual Telephony network.

#### **Enable QSIG services**

- **ASYD**

System 1, Index 186, bit 6 = 1 (ISDN service enabled)

System 1, Index 375, bit 0 = 1 (avoid Bch lockup)

- **ASFC**

SFI 94 set to '0' (ANI)



## Build QSIG Route

- ARTD

Note: You must build two ARTD forms, one for the b-channels and one for the d-channel

RT 4 (B-Channels)

CDN	Data	CDN	Data	CDN	Data
001	OSGS 0	043	BT 1	085	CSEU 0
002	ONSG 2	044	PRV 0	086	CSEL 0
003	ISGS 0	045	A/D 1	087	CMP 0
004	INSG 2	046	CW 0	088	TALK 0
005	TF 3	047	TPQ 0	089	FOT 0
006	TCL 4	048	BL 0	090	RST 0
007	L/T 1	049	TRKS 0	091	TOCI 0
008	RLP 2	050	DPLY 1	092	TOCD 0
009	TQ 0	051	ACD 0	093	ODGD 0
010	SMDR 0	052	2w/4w 0	094	RLS 0
011	TD 0	053	FAAT 0	095	GWD 0
012	DR 0	054	GW 0	096	H1 0
013	AC 0	055	TCMA 0	097	DT 0
014	TNT 0	056	SMDR3 0	098	CI 0
015	LSG 12	057	HDT 0	099	OID 0
016	SMDR2 0	058	CD 0	100	TKS 0
017	H/M 0	059	CCH 0	101	PAD2 0
018	MC 0	060	TC/EC 0	102	TRM 0
019	ANI 0	061	IRE 0	103	TRPX 0
020	D 0	062	SCR 0	104	LDR 0
021	MSB 0	063	LYER1 0	105	TSC 0
022	MSW 0	064	NET 0	106	SATS 0
023	TR 0	065	INT 10	107	RVPX 0
024	OC 0	066	DC 4	108	DQ 0
025	R/L 0	067	HKS 0	109	SLOV 0
026	RVSD 0	068	SCF 0	110	SDTO 0
027	TL 0	069	SMDR4 0	111	ADVPR 0
028	ANS 1	070	TCMN 0	112	IND 1
029	TELP 0	071	TCMC 0	113	UUI 0
030	PAD 4	072	MFSP 0	114	DCH 0
031	OGRL 1	073	KPST 0	115	CMRT 0
032	ICRL 1	074	KPPT 0	116	PREF 0
033	HD 0	075	STC 0	117	DFS 0
034	GUARD 1	076	MC2 0	118	BOB 0
035	WINK 0	077	MT 0	119	HO1CH 0
036	VAD 0	078	TONE 0	120	IFR 0
037	CLD 0	079	PPTM 0	121	CONV 0
038	FA 0	080	MPTM 0	122	ORRT 0
039	BC 0	081	LPTM 0	123	CNI 0
040	TCM 0	082	RSAX 0	124	AOC 0
041	TDMQ 0	083	CST 0	125	MGCOT 0
042	TRSC 0	084	CSEG 0		

Note 1: On the B-channel ARTD table, parameter IND must be set to '1' for Name display, to disable Name display feature on the trunk change the value of IND to '0'.

Note 2: On the B-channel ARTD table, parameter DC must be set to equal the maximum number of digits in the PBX's station numbers.



RT 5 (D-channel)

CDN		Data	CDN		Data	CDN		Data
001	OSGS	0	043	BT	0	085	CSEU	0
002	ONSG	0	044	PRV	0	086	CSEL	0
003	ISGS	0	045	A/D	0	087	CMP	0
004	INSG	0	046	CW	0	088	TALK	0
005	TF	0	047	TPQ	0	089	FOT	0
006	TCL	4	048	BL	0	090	RST	0
007	L/T	1	049	TRKS	0	091	TOCI	0
008	RLP	0	050	DPLY	0	092	TOCD	0
009	TQ	0	051	ACD	0	093	ODGD	0
010	SMDR	0	052	2w/4w	0	094	RLS	0
011	TD	0	053	FAAT	0	095	GWD	0
012	DR	0	054	GW	0	096	H1	0
013	AC	0	055	TCMA	0	097	DT	0
014	TNT	0	056	SMDR3	0	098	CI	0
015	LSG	13	057	HDT	0	099	OID	0
016	SMDR2	0	058	CD	0	100	TKS	0
017	H/M	0	059	CCH	0	101	PAD2	0
018	MC	0	060	TC/EC	0	102	TRM	0
019	ANI	0	061	IRE	0	103	TRPX	0
020	D	0	062	SCR	0	104	LDR	0
021	MSB	0	063	LYER1	0	105	TSC	0
022	MSW	0	064	NET	0	106	SATS	0
023	TR	0	065	INT	10	107	RVPX	0
024	OC	0	066	DC	0	108	DQ	0
025	R/L	0	067	HKS	0	109	SLOV	0
026	RVSD	0	068	SCF	0	110	SDTO	0
027	TL	0	069	SMDR4	0	111	ADVPR	0
028	ANS	1	070	TCMN	0	112	IND	0
029	TELP	0	071	TCMC	0	113	UUI	0
030	PAD	7	072	MFSP	0	114	DCH	0
031	OGRL	0	073	KPST	0	115	CMRT	0
032	ICRL	0	074	KPPT	0	116	PREF	0
033	HD	0	075	STC	0	117	DFS	0
034	GUARD	0	076	MC2	0	118	BOB	0
035	WINK	0	077	MT	0	119	HO1CH	0
036	VAD	0	078	TONE	0	120	IFR	0
037	CLD	0	079	PPTM	0	121	CONV	0
038	FA	0	080	MPTM	0	122	ORRT	0
039	BC	0	081	LPTM	0	123	CNI	0
040	TCM	0	082	RSAX	0	124	AOC	0
041	TDMQ	0	083	CST	0	125	MGCOT	0
042	TRSC	0	084	CSEG	0			





• ARTI

```

RT      4
RST      0      RSCT      0      IDRT      0      COT      0
HMT      0      ROCG      0      ECCISTD   0      SS7      0
TRCRST   0      RICG      0      MFCG2     0      NI2ID    0
TRSRST   0      STSENQ    0      OPCC      0      CLRF     0
T309LNK  0      MMNPASS   0      ICTCON    0      TRC      0
T309CON  0      DLTK      0      VRD       0      OID      0
LLCRST   0      CALN      0      INTD      1      PHG      0
VCM      0      NETINT    0      JECCIS    0      VIR      0
POOL     0      RETMSG    0      IPINT2    0      CSMDS    0
DTRT     0      ANI       0      IPTRK     0      FXD      0
TMPRT    0      SRV       0      CTCF      1      FXJS     0
CODEC    0      TON       0      RERT      1      FXPT     0
PASS     0      NPI       0      DCANS     0      FXPS     0
IRL      0      L/T       0      RND       0      CPI      0
MTC      0      ECCIS     0      CLBK      0      E911     0
TC        0      ECCISTM   0      UALAW    1      RA_RT    0
TS        0      ECCISOB   0      MCTFAC    0
CDCSPD   0      ECCISIB   0      RE        1
DVRST    0      SPMET     0      PR        1
  
```

Note: The following parameters determine the state of the following QSIG-SS features: CTCF-Call forward/Call transfer, RERT-CF Reroute, PR-Path Replacement. To set the feature enabled you must set it to '1', if you want the feature disabled change the setting to '0'.

• ATRK

		Starting	Ending
		RT 4	RT 5
		TK 1	TK 23
RT	TK	LENS	TN
4	1	002130	1
4	2	002131	1
4	3	002132	1
4	4	002133	1
4	5	002134	1
4	6	002135	1
4	7	002136	1
4	8	002137	1
4	9	002140	1
4	10	002141	1
4	11	002142	1
4	12	002143	1
4	13	002144	1
4	14	002145	1
4	15	002146	1
4	16	002147	1
4	17	002150	1
4	18	002151	1
4	19	002152	1
4	20	002153	1
4	21	002154	1
4	22	002155	1
4	23	002156	1
5	1	002157	1
5	2	002120	1



• ARSC

Tenant 1		RSC Data Settings																	
Route 4		Route 4																	
Tenant	Day/Night	Route	RRI	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	DAY	4	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
			1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
			2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
			3	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0

• ARRC

\* Alternative Route Restriction List \*

Starting	Ending	going Route2	going Route4
Incoming Route	Outgoing Route	RI A-Restriction	RI D-Restriction
4	2	1	1
4	4	1	1
4	31	1	1
31	2	1	1
31	4	1	1

• ADPC

\* Determinate Point Code Data List \*

Starting	Ending
RT 4	RT 5
RT	PC
4	6
5	6

• ACSC

CSCG	GROUP:	0	1	2	3	4	5	6	7
140	CCH:	00212	00212	00212	00212	00212	00212	00212	00212
141	CCH:	00212	00212	00212	00212	00212	00212	00212	00212

Note: Because we are using circuit card PA-24PRT, you assign the same LENS number to each CSCG number. You must assign an even CSCG number for the b-channels and an odd CSCG number for the D-channel. If you are using circuit cards PA-2DCH + PA-24DTR the LENS assignment to the B-channels and D-channels differ, please contact NEC customer support for technical assistance.

• ACIC1

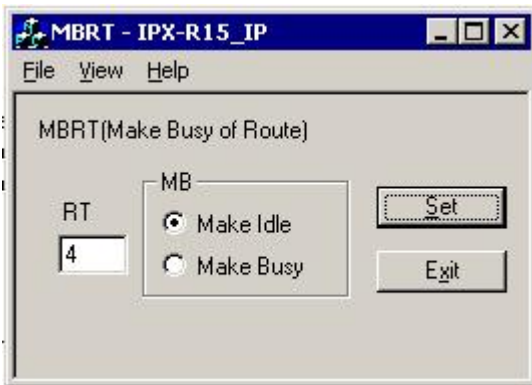
PC	CSCG	PC	CSCG	PC	CSCG
6	140	6	140	6	140



- ACIC2

CIC 1		CIC 24
Terminate	Point	CoteIdentificationCodeLENS
6	1	002130
6	2	002131
6	3	002132
6	4	002133
6	5	002134
6	6	002135
6	7	002136
6	8	002137
6	9	002140
6	10	002141
6	11	002142
6	12	002143
6	13	002144
6	14	002145
6	15	002146
6	16	002147
6	17	002150
6	18	002151
6	19	002152
6	20	002153
6	21	002154
6	22	002155
6	23	002156

- MBRT





**Build the dial plan to access the QSIG route** (Assumes dummy route has been built and ARRC is assigned properly)

- ANPD

* Numbering Plan Data List *	
Starting	Ending
Tenant 1	Tenant 1

Tenant	1stDC	Normal		Hooking		Busy	
		NND	BusyLamp Field	NND	BusyLamp Field	NND	BusyLamp Field
1	0	1	Out of Service	1	Out of Service	1	Out of Service
	1	5	In Service	5	In Service	5	In Service
	2	2	In Service	2	In Service	-	-
	3	4	Out of Service	4	Out of Service	4	Out of Service
	4	4	Out of Service	4	In Service	4	In Service
	5	4	Out of Service	4	Out of Service	4	Out of Service
	6	-	-	-	-	-	-
	7	-	-	-	-	-	-
	8	1	Out of Service	-	-	-	-
	9	-	-	-	-	-	-
	*	3	Out of Service	3	Out of Service	3	Out of Service
	#	-	-	-	-	-	-

- ASPA

* Special Access Code List *	
Starting	Ending
Tenant 1 Access Code 3 Connection Index Normal	Tenant 1 Access Code 3 Connection Index Busy

TN	ACC	CI	SRV	RT	2ndDT	AH	SUB
1	3	Normal	LCR	RT : 31	2ndDT : 1	AH : 0	SUB : 0
1	3	Hooking	LCR	RT : 31	2ndDT : 1	AH : 0	SUB : 0
1	3	Busy	LCR	RT : 31	2ndDT : 0	AH : 0	SUB : 0



- AMND

* Maximum Necessary Digits Data List *			
Starting		Ending	
Tenant	1	Tenant	1
DC	3	DC	3

Tenant      DC                      MND              TOLL              AN              RATE              A/D  
 1              3                                      4                      0                      0                      0                      1

- AFRS

* Flexible Route Selection List *			
Starting		Ending	
Tenant	1	Tenant	1
Route	31	Route	31
NPC	3	NPC	3

Tenant      Route      Number Pattern Code      OPR  
 1              31              3                                      3

- AOPR

* Outgoing Pattern Routing Data List *			
Starting		Ending	
TDPTN	0	TDPTN	0
OPR	3	OPR	3
RA Order	0	RA Order	0

TDPTN      OPR      RA Order      RA End      Route      SKIP      PNL      OVFT      PRSC  
 0              3              0              0              4              0              0              0              0



- ARNP

[IPX-R15\_IP::LRNF]

May 17, 2006

* Reverse Numbering Plan Data List *	
Starting	Ending
Route 4	Route 4

Route                      Access Code  
 4                                      3

**Dterm Data (Digital Stations)**

- ASDT

* Station Data List *	
Starting	Ending
TN 1 STN 4050	TN 1 STN 4054

TN	STN	LENS	TEC	RSC	SFC	ETN	KD	CG	CE	HC	HP	HU	PH	HL	ND	NS	D1	D2	IC	SS	WS	IT	LNL	LNN	
1	4050	000032	12	1	1	1									X										
1	4054	000031	12	1	1	1									X										

- ANND (Name display for Dterms)



**\* Name Display Data List \***

Starting	Ending
Tenant 1 Station <b>4050</b>	Tenant 1 Station <b>4054</b>

Tenant	Station	Name Display
1	<b>4050</b>	<b>Pluto</b>
1	<b>4054</b>	<b>Donald Duck</b>



- ASFC SFI 94 (used to restrict Calling Number)

```

* Service Feature Restriction Class List *
Starting                               Ending
Tenant 1                               Tenant 1
SFI 94                                 SFI 94

SFC Attribute Settings
Tenant Mode SFI 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1 Day 94 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1

```

Note: To restrict 'Calling Number' you assign SFC =15 (or any SFC set to '1'), under ASDT command for the Dterm station you want to restrict.

### Call Back

- ASYD

ASYD - System Data 1, Index 139. No Answer Timer for CALL BACK. Assign 00H. (RAM Data is 3FH = 30 seconds.)

System Data 1, Index 68, Bit 0. 0/1: SHF and Access Code/last digit of Telephone Number + Access Code.

System Data 2, Index 0, Bit 0. Is CALL BACK enabled on a per Tenant basis? 0/1: No/Yes.

System Data 2, Index 4, Bit 0. CALL BACK and OUTGOING TRUNK QUEUING [O-2] Access Codes are same or separate? 0/1: Separate/Same.

- ASFC

SFI 2 allows/restricts Callback feature.

* Service Feature Restriction Class List *																		
Starting										Ending								
Tenant 1 SFI 2										Tenant 1 SFI 2								
SFC Attribute Settings																		
Tenant	Mode	SFI	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Day	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note: On each Dterm station Assign a SFC that has SFI=2 set to '1', using a SFC with SFI=2 set to '0' restricts Callback.





- ADSL (Assigning Callback feature on Dterm soft key)

* Dterm Soft Key on LCD Data in LDM List *	
Starting	Ending
SKP 1 SN 2	SKP 1 SN 3

SKP	SN	SKN	FKY	DISP
1	2	0	5	CB
1	2	1	0	00
1	2	2	0	00
1	2	3	0	00
1	2	4	0	00
1	2	5	0	00
1	2	6	0	00
1	2	7	0	00
1	2	8	0	00
1	2	9	0	00
1	2	10	0	00
1	2	11	0	00
1	2	12	0	00
1	2	13	0	00
1	2	14	0	00
1	2	15	0	00
1	3	0	5	CB
1	3	1	0	00
1	3	2	0	00
1	3	3	0	00
1	3	4	0	00
1	3	5	0	00
1	3	6	0	00
1	3	7	0	00
1	3	8	0	00
1	3	9	0	00
1	3	10	0	00
1	3	11	0	00
1	3	12	0	00
1	3	13	0	00
1	3	14	0	00
1	3	15	0	00



ADKS (Assigns soft key pattern to Dterm station)

Starting		Ending	
Tenant 1	Station <b>4050</b>	Tenant 1	Station <b>4054</b>

Tenant	Station	Soft Key Pattern	Line Key Pattern	Page Scroll Key
1	<b>4050</b>	1	3	0
1	<b>4054</b>	1	1	0



## Configuring the Cisco Unified Communications Manager

### Cisco Unified Communications Manager Release version

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

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

# Cisco Unified CM Administration

System version: 6.0.1.1000-37

Copyright © 1999 - 2006 Cisco Systems, Inc.  
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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](mailto:export@cisco.com).



## Gateway Configuration - 1

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout


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

### Find and List Gateway

**Status**  
**i** 1 records found

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

Find Gateways where Name ▾ begins with ▾ Hide ▾ endpoints      
Select item or enter search text ▾

<input type="checkbox"/>	Device Name ^	Description	Device Pool	Calling Search Space	Extension	Partition	Route Group	Priority	Port	Device Type	Status	IP Address
<input type="checkbox"/>	 <a href="#">Ri-3825</a>	Ri-3825								Cisco 3825	<a href="#">See Endpoints</a>	



## Gateway Configuration - 2

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Gateway Configuration** Related Links:

---

**Gateway Details**

Product	Cisco 3825
Gateway	Ri-3825
Protocol	MGCP
Domain Name*	<input type="text" value="Ri-3825"/>
Description	<input type="text" value="Ri-3825"/>
Cisco Unified Communications Manager Group*	<input type="text" value="Default"/>

---

**Configured Slots, VICs and Endpoints**

Module in Slot 0	< None >		
Module in Slot 1	NM-HDV		
Subunit 0	VVIC-2MFT-T1	1/0/ 0	<input type="button" value="T1PRI"/>
		1/0/ 1	<input type="button" value="T1PRI"/>
Module in Slot 2	< None >		

---

**Product Specific Configuration Layout**

Global ISDN Switch Type	<input type="text" value="primary-qsig"/>	<input type="button" value="?"/>
Switchback Timing*	<input type="text" value="Graceful"/>	
Switchback uptime-delay (min)	<input type="text" value="10"/>	
Switchback schedule (hh:mm)	<input type="text" value="12:00"/>	
Type Of DTMF Relay*	<input type="text" value="Current GW Config"/>	

---



### Gateway Configuration - 3

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

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

---

**Status**

Status: Ready

---

**Device Information**

Product	Cisco MGCP T1 Port
Gateway	Ri-3825
Device Protocol	Digital Access PRI
Registration	Registered with Cisco Unified Communications Manager cm-spurs
IP Address	172.20.192.21
End-Point Name *	S1/SU0/DS1-0@Ri-3825
Description	<input type="text" value="S1/SU0/DS1-0@Ri-3825"/>
Device Pool*	<input type="text" value="Default"/>
Common Device Configuration	<input type="text" value="&lt; None &gt;"/>
Call Classification*	<input type="text" value="Use System Default"/>
NetworkLocale	<input type="text" value="&lt; None &gt;"/>
Packet Capture Mode*	<input type="text" value="None"/>
Packet Capture Duration	<input type="text" value="0"/>
Media Resource Group List	<input type="text" value="&lt; None &gt;"/>
Location*	<input type="text" value="Hub_None"/>
AAR Group	<input type="text" value="&lt; None &gt;"/>
Load Information	<input type="text" value=""/>

Transmit UTF-8 for Calling Party Name

V150 (subset)



## Gateway Configuration - 4

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

Navigation: Cisco Unified CM Administration

CCAdministrator | About | Logout

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

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

---

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

MLPP Domain	< None >
MLPP Indication	Off
MLPP Preemption	Disabled

---

**Interface Information**

PRI Protocol Type*	PRI ISO QSIG T1
Protocol Side*	Network
Channel Selection Order*	Bottom Up
Channel IE Type*	Timeslot Number
PCM Type*	μ-law
Delay for first restart (1/8 sec ticks)*	32
Delay between restarts (1/8 sec ticks)*	4

Inhibit restarts at PRI initialization  
 Enable status poll  
 Unattended Port

---

**Call Routing Information - Inbound Calls**

Significant Digits*	All
Calling Search Space	PhonesCCS
AAR Calling Search Space	< None >
Prefix DN	



## Gateway Configuration - 5

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

Navigation Cisco Unified CM Administration

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

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

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

**Call Routing Information - Outbound Calls**

Calling Party Presentation*	<input type="text" value="Default"/>
Calling Party Selection*	<input type="text" value="Originator"/>
Called party IE number type unknown*	<input type="text" value="Cisco CallManager"/>
Calling party IE number type unknown*	<input type="text" value="Cisco CallManager"/>
Called Numbering Plan*	<input type="text" value="Cisco CallManager"/>
Calling Numbering Plan*	<input type="text" value="Cisco CallManager"/>
Number of digits to strip*	<input type="text" value="0"/>
Caller ID DN	<input type="text"/>
SMDI Base Port*	<input type="text" value="0"/>

**PRI Protocol Type Specific Information**

- Display IE Delivery
- Redirecting Number IE Delivery - Outbound
- Redirecting Number IE Delivery - Inbound
- Send Extra Leading Character in Display IE\*\*\*
- Setup non-ISDN Progress Indicator IE Enable\*\*\*\*
- MCDN Channel Number Extension Bit Set to Zero\*\*
- Send Calling Name In Facility IE
- Interface Identifier Present\*\*

Interface Identifier Value\*\*

Connected Line ID Presentation (QSIG Inbound Call)\*





## Gateway Configuration - 6

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

Navigation **Cisco Unified CM Administration**

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

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

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

---

**UUIE Configuration**

Passing Precedence Level Through UUIE

Security Access Level\*

---

**Product Specific Configuration Layout** ?

Line Coding*	<input type="text" value="B8ZS"/>
Framing*	<input type="text" value="ESF"/>
Clock*	<input type="text" value="External"/>
Input Gain (-6..14 db)*	<input type="text" value="0"/>
Output Attenuation (-6..14 db)*	<input type="text" value="0"/>
Echo Cancellation Enable*	<input type="text" value="Enable"/>
Echo Cancellation Coverage (ms)*	<input type="text" value="64"/>

---

**i** \*- indicates required item.

**i** \*\* - applies to DMS-100 protocol only.

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

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

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



## SCCP and SIP Phones Configuration - 1

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout













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

**Find and List Phones** Related Links: [Actively Logged In Device Report](#)

**Status**  
**i** 4 records found

**Phone (1 - 4 of 4)** Rows per Page 50 ▾

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

<input type="checkbox"/>	Device Name(Line) ^	Description	Device Pool	Device Protocol	Status	IP Address	Copy	Super Copy
<input type="checkbox"/>	 <a href="#">SEP0002B9A74E3A</a>	SCCP 3011	<a href="#">Default</a>	SCCP	Registered with cm-spurs	<a href="#">172.20.230.26</a>		
<input type="checkbox"/>	 <a href="#">SEP0002FD65A31B</a>	cssp 3009	<a href="#">Default</a>	SCCP	Registered with cm-spurs	<a href="#">172.20.230.34</a>		
<input type="checkbox"/>	 <a href="#">SEP000E839C1229</a>	SIP 3008	<a href="#">Default</a>	SIP	Registered with cm-spurs	<a href="#">172.20.230.27</a>		
<input type="checkbox"/>	 <a href="#">SEP001B5452DBA8</a>	SIP 3013	<a href="#">Default</a>	SIP	Registered with cm-spurs	<a href="#">172.20.230.29</a>		



## SCCP Phone Configuration - 2

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Phone Configuration** Related Links:

**Status**  
 Status: Ready

**Association Information**

1	<b>7718</b> <b>7719</b> <a href="#">Line [1] - 3011 in Phones</a>
2	<b>7718</b> <b>7719</b> <a href="#">Line [2] - Add a new DN</a>
3	<a href="#">Add a new SD</a>
4	<a href="#">Add a new SD</a>
5	<a href="#">Add a new SD</a>
6	<a href="#">Add a new SD</a>
----- Unassigned Associated Items -----	
7	<a href="#">Add a new SD</a>
8	<a href="#">Add a new SURF</a>
9	<a href="#">Add a new BLF SD</a>
10	<b>7718</b> <b>7719</b> <a href="#">Add a new BLF Directed Call Park</a>
11	Privacy
12	None

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

**Device Information**

Registration	Registered with Cisco Unified Communications Manager cm-spurs
IP Address	<a href="#">172.20.230.26</a>
MAC Address*	0002B9A74E3A
Description	SCCP 3011
Device Pool*	Default <input type="button" value="View Details"/>
Common Device Configuration	< None > <input type="button" value="View Details"/>
Phone Button Template*	Standard 7960 SCCP
Softkey Template	Enhanced Feature
Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	PhonesCCS
AAR Calling Search Space	< None >
Media Resource Group List	MRGL



### SCCP Phone Configuration - 3

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Phone Configuration** Related Links:

Media Resource Group List	MRGL	▾
User Hold MOH Audio Source	< None >	▾
Network Hold MOH Audio Source	< None >	▾
Location*	Hub_None	▾
AAR Group	< None >	▾
User Locale	< None >	▾
Network Locale	< None >	▾
Built In Bridge*	Default	▾
Privacy*	Default	▾
Device Mobility Mode*	Default	▾ <a href="#">View</a>
Owner User ID	< None >	▾
Phone Load Name	<input type="text"/>	

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\*



## SCCP Phone Configuration - 4

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Phone Configuration Related Links:

**Protocol Specific Information**

Packet Capture Mode\*

Packet Capture Duration

Presence Group\*

Device Security Profile\*

SUBSCRIBE Calling Search Space

Unattended Port

Require DTMF Reception

RFC2833 Disabled

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

Certificate Operation\*

Authentication Mode\*

Authentication String

Key Size (Bits)\*

Operation Completes By     (YYYY:MM:DD:HH)

Certificate Operation Status:

Note: Security Profile Contains Addition CAPF Settings.

**Expansion Module Information**

Module 1

Module 1 Load Name



### SCCP Phone Configuration - 5

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Phone Configuration** Related Links:

**Expansion Module Information**

Module 1	< None >
Module 1 Load Name	<input type="text"/>
Module 2	< None >
Module 2 Load Name	<input type="text"/>

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

Information	<input type="text"/>
Directory	<input type="text"/>
Messages	<input type="text"/>
Services	<input type="text"/>
Authentication Server	<input type="text"/>
Proxy Server	<input type="text"/>
Idle	<input type="text"/>
Idle Timer (seconds)	<input type="text"/>

**Extension Information**

Enable Extension Mobility

Log Out Profile: -- Use Current Device Settings --

Log in Time: < None >

Log out Time: < None >

**MLPP Information**

### SCCP Phone Configuration - 6



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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Phone Configuration Related Links: Back To Find/List

**MLPP Information**

MLPP Domain	< None >
MLPP Indication*	Default
MLPP Preemption*	Default

**Do Not Disturb**

<input checked="" type="checkbox"/> Do Not Disturb	
DND Option*	Ringer Off
DND Incoming Call Alert	< None >

**Product Specific Configuration Layout** ?

<input checked="" type="checkbox"/> Disable Speakerphone	
<input checked="" type="checkbox"/> Disable Speakerphone and Headset	
PC Port *	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Enabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Disabled
Auto Line Select*	Disabled
Web Access*	Enabled



## SCCP Phone Configuration - 7

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Directory Number Configuration** Related Links:

---

**Status**

Status: Ready

---

**Directory Number Information**

Directory Number\*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

▼ ▲

Dissociate Devices

---

**Directory Number Settings**

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

Calling Search Space

Presence Group\*

User Hold MOH Audio Source





## SCCP Phone Configuration - 8

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Directory Number Configuration** Related Links:

**Directory Number Settings**

Voice Mail Profile	Default	(Choose <None> to use system default)
Calling Search Space	PhonesCCS	
Presence Group*	Standard Presence group	
User Hold MOH Audio Source	< None >	
Network Hold MOH Audio Source	< None >	
Auto Answer*	Auto Answer Off	

**AAR Settings**

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or		< None >

Retain this destination in the call forwarding history

**Call Forward and Call Pickup Settings**

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			Use System Default
Forward All	<input type="checkbox"/> or		PhonesCCS
Secondary Calling Search Space for Forward All			< None >
Forward Busy Internal	<input type="checkbox"/> or		PhonesCCS
Forward Busy External	<input type="checkbox"/> or		PhonesCCS

## SCCP Phone Configuration - 9



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

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

**Directory Number Configuration** Related Links: Configure Device (SEP0002B9A74E3A) Go

Save Delete Reset Add New

Forward Busy External	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward No Answer Internal	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward No Answer External	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward No Coverage Internal	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward No Coverage External	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward on CTI Failure	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward Unregistered Internal	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS
Forward Unregistered External	<input type="checkbox"/> or	<input type="text"/>	PhonesCCS

No Answer Ring Duration (seconds)

Call Pickup Group

---

**MLPP Alternate Party Settings**

Target (Destination)

MLPP Calling Search Space

SCCP Phone Configuration – 10



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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Directory Number Configuration Related Links:

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

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

**Line 1 on Device SEP0002B9A74E3A**

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

ASCII Display (Internal Caller ID)

Line Text Label

ASCII Line Text Label

External Phone Number Mask

Visual Message Waiting Indicator Policy\*

Ring Setting (Phone Idle)\*

## SCCP Phone Configuration - 11



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

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

**Directory Number Configuration** Related Links: Configure Device (SEP0002B9A74E3A) Go

Save Delete Reset Add New

Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.
Call Pickup Group	Use System Default	
Audio Alert Setting (Phone Idle)	Use System Default	
Call Pickup Group	Use System Default	
Audio Alert Setting (Phone Active)	Use System Default	
Monitoring Calling Search Space	PhonesCCS	

**Multiple Call/Call Waiting Settings on Device SEP0002B9A74E3A**

Note: The range to select the Max Number of calls is: 1-200

Maximum Number of Calls\*

Busy Trigger\*  (Less than or equal to Max. Calls)

**Forwarded Call Information Display on Device SEP0002B9A74E3A**

- Caller Name
- Caller Number
- Redirected Number
- Dialed Number

**Users Associated with Line**

Associate End Users



## SCCP Phone Configuration - 12

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Directory Number Configuration** Related Links:  Configure Device (SEP0002B9A74E3A)

(Phone Active)  
Monitoring Calling Search Space

---

**Multiple Call/Call Waiting Settings on Device SEP0002B9A74E3A**

Note: The range to select the Max Number of calls is:  
1-200

Maximum Number of Calls*	<input type="text" value="4"/>
Busy Trigger*	<input type="text" value="2"/> (Less than or equal to Max. Calls)

---

**Forwarded Call Information Display on Device SEP0002B9A74E3A**

- Caller Name
- Caller Number
- Redirected Number
- Dialed Number

---

**Users Associated with Line**

---

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



## SIP Phone Configuration - 1

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Phone Configuration** Related Links:

**Status**  
 Status: Ready

**Association Information**

1	<a href="#">Line [1] - 3008 in Phones</a>
2	<a href="#">Line [2] - Add a new DN</a>
3	<a href="#">Add a new SD</a>
4	<a href="#">Add a new SD</a>
5	<a href="#">Add a new SD</a>
6	<a href="#">Add a new SD</a>
7	<a href="#">Add a new SD</a>
8	<a href="#">Add a new SD</a>
----- Unassigned Associated Items -----	
9	<a href="#">Add a new SD</a>
10	<a href="#">Add a new SURL</a>
11	<a href="#">Add a new BLF SD</a>
12	<a href="#">Add a new BLF Directed Call Park</a>
13	<a href="#">Intercom [1] - Add a new Intercom</a>
14	Do Not Disturb

**Phone Type**  
**Product Type:** Cisco 7970  
**Device Protocol:** SIP

**Device Information**

Registration	Registered with Cisco Unified Communications Manager cm-spurs
IP Address	<input type="text" value="172.20.230.27"/>
MAC Address*	<input type="text" value="000E839C1229"/>
Description	<input type="text" value="SIP 3008"/>
Device Pool*	Default <input type="button" value="View Details"/>
Common Device Configuration	< None > <input type="button" value="View Details"/>
Phone Button Template*	Standard 7970 SIP
Softkey Template	Enhanced Feature
Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	PhonesCCS
AAR Calling Search Space	< None >
Media Resource Group List	MRGL



## SIP Phone Configuration - 2

The screenshot shows the Cisco Unified CM Administration interface for SIP Phone Configuration. The page title is "Cisco Unified CM Administration" with the tagline "For Cisco Unified Communications Solutions". The user is logged in as "CCMAdministrator". The navigation menu includes System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The current page is "Phone Configuration" with a "Related Links" dropdown set to "Back To Find/List".

At the top of the configuration area, there are action buttons: Save, Delete, Copy, Reset, and Add New. Below these is a list of phone numbers and their status:

14	Do Not Disturb
15	Privacy
16	None

The main configuration area is divided into two sections:

- Group List:** A list of configuration options with dropdown menus:
  - User Hold MOH Audio Source: < None >
  - Network Hold MOH Audio Source: < None >
  - Location\*: Hub\_None
  - AAR Group: < None >
  - User Locale: < None >
  - Network Locale: < None >
  - Built In Bridge\*: Default
  - Privacy\*: Default
  - Device Mobility Mode\*: Default (with a [View](#) link for Current Device Mobility Settings)
  - Owner User ID: < None >
  - Phone Personalization\*: Default
  - Phone Load Name: (empty text field)
- Checkboxes:**
  - Ignore Presentation Indicators (internal calls only)
  - Allow Control of Device from CTI
  - Logged Into Hunt Group
  - Remote Device
- Protocol Specific Information:**
  - Packet Capture Mode\*: None
  - Packet Capture Duration: 0



### SIP Phone Configuration - 3

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Phone Configuration** Related Links:

Presence Group*	Standard Presence group
SIP Dial Rules	< None >
MTP Preferred Originating Codec*	711ulaw
Device Security Profile*	Cisco 7970 - Standard SIP Non-Secure Profile
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile
Digest User	< None >
<input checked="" type="checkbox"/> Media Termination Point Required	
<input checked="" type="checkbox"/> Unattended Port	
<input checked="" type="checkbox"/> Require DTMF Reception	

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

Certificate Operation*	No Pending Operation
Authentication Mode*	By Null String
Authentication String	<input type="text"/>
<input type="button" value="Generate String"/>	
Key Size (Bits)*	1024
Operation Completes By	2007 8 25 12 (YYYY:MM:DD:HH)
Certificate Operation Status:	None

Note: Security Profile Contains Addition CAPF Settings.





## SIP Phone Configuration - 4

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Phone Configuration Related Links: Back To Find/List

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

Information

Directory

Messages

Services

Authentication Server

Proxy Server

Idle

Idle Timer (seconds)

**Extension Information**

Enable Extension Mobility

Log Out Profile -- Use Current Device Settings --

Log in Time < None >

Log out Time < None >

**MLPP Information**

MLPP Domain < None >

**Do Not Disturb**

Do Not Disturb

DND Option\* Ringer Off

DND Incoming Call Alert < None >



## SIP Phone Configuration – 5

The screenshot shows the Cisco Unified CM Administration interface for SIP Phone Configuration. The page includes a navigation bar with the Cisco logo and 'Cisco Unified CM Administration For Cisco Unified Communications Solutions'. The user is logged in as 'CCMAdministrator'. The main menu includes System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The current page is 'Phone Configuration' with a 'Related Links' dropdown set to 'Back To Find/List'. A toolbar contains icons for Save, Delete, Copy, Reset, and Add New. The configuration area is divided into two sections: 'Secure Shell Information' and 'Product Specific Configuration Layout'. The 'Secure Shell Information' section has input fields for 'Secure Shell User' and 'Secure Shell Password'. The 'Product Specific Configuration Layout' section contains various settings, including checkboxes for 'Disable Speakerphone' and 'Disable Speakerphone and Headset', and dropdown menus for 'PC Port', 'Settings Access', 'Gratuitous ARP', 'PC Voice VLAN Access', 'Video Capabilities', 'Auto Line Select', 'Web Access', 'Days Display Not Active', 'Display On Time', 'Display On Duration', 'Display Idle Timeout', 'Span to PC Port', and 'Logging Display'.

Secure Shell Information	
Secure Shell User	<input type="text"/>
Secure Shell Password	<input type="password"/>

Product Specific Configuration Layout	
<input type="checkbox"/> Disable Speakerphone	
<input type="checkbox"/> Disable Speakerphone and Headset	
PC Port *	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Disabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Disabled
Auto Line Select*	Disabled
Web Access*	Enabled
Days Display Not Active	Sunday
Display On Time	07:30
Display On Duration	10:30
Display Idle Timeout	01:00
Span to PC Port*	Disabled
Logging Display*	PC Controlled



## SIP Phone Configuration - 6

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

Phone Configuration Related Links:

Load Server	<input type="text"/>
Recording Tone*	Disabled ▾
Recording Tone Local Volume*	100 <input type="text"/>
Recording Tone Remote Volume*	50 <input type="text"/>
Recording Tone Duration	<input type="text"/>
Display On When Incoming Call*	Disabled ▾
RTCP*	Disabled ▾
"more" Soft Key Timer	5 <input type="text"/>
Auto Call Select*	Enabled ▾
Log Server	<input type="text"/>
Advertise G.722 Codec*	Use System Default ▾
Wideband Headset UI Control*	Enabled ▾
Wideband Handset UI Control*	Enabled ▾
Wideband Headset*	Enabled ▾
Wideband Handset*	Use Phone Default ▾
Peer Firmware Sharing*	Disabled ▾
Cisco Discovery Protocol (CDP): Switch Port*	Enabled ▾
Cisco Discovery Protocol (CDP): PC Port*	Enabled ▾



## SIP Phone Configuration - 7

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

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**Directory Number Configuration** Related Links:

---

**Status**

Status: Ready

---

**Directory Number Information**

Directory Number\*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

▼ ▲

Dissociate Devices

---

**Directory Number Settings**

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

Calling Search Space

Presence Group\*

User Hold MOH Audio Source



SIP Phone Configuration - 8

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

Navigation Cisco Unified CM Administration

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**Directory Number Configuration** Related Links:

User Hold MOH Audio Source

Network Hold MOH Audio Source

Auto Answer\*

---

**AAR Settings**

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input type="text" value="&lt; None &gt;"/>
<input checked="" type="checkbox"/> Retain this destination in the call forwarding history			

---

**Call Forward and Call Pickup Settings**

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			<input type="text" value="Use System Default"/>
Forward All	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input type="text" value="PhonesCCS"/>
Secondary Calling Search Space for Forward All			<input type="text" value="&lt; None &gt;"/>
Forward Busy Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input type="text" value="PhonesCCS"/>
Forward Busy External	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input type="text" value="PhonesCCS"/>
Forward No Answer Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text" value="4054"/>	<input type="text" value="PhonesCCS"/>



## SIP Phone Configuration - 9

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**Directory Number Configuration** Related Links:

Forward No Answer External	<input type="checkbox"/> or <input type="checkbox"/>	4054	PhonesCCS
Forward No Coverage Internal	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	PhonesCCS
Forward No Coverage External	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	PhonesCCS
Forward on CTI Failure	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	PhonesCCS
Forward Unregistered Internal	<input type="checkbox"/> or <input type="checkbox"/>	4054	PhonesCCS
Forward Unregistered External	<input type="checkbox"/> or <input type="checkbox"/>	4054	PhonesCCS

No Answer Ring Duration (seconds)

Call Pickup Group

---

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



## SIP Phone Configuration – 10

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

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Directory Number Configuration Related Links:

---

**Line Settings for All Devices**

Hold Reversion Ring Duration (seconds)	<input type="text"/>	Setting the Hold Reversion Ring Duration to zero will disable the feature
Hold Reversion Notification Interval (seconds)	<input type="text"/>	Setting the Hold Reversion Notification Interval to zero will disable the feature

---

**Line 1 on Device SEP000E839C1229**

Display (Internal Caller ID)	<input type="text" value="SIP 3008"/>	Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)	<input type="text" value="SIP 3008"/>	
Line Text Label	<input type="text" value="SIP 3008"/>	
ASCII Line Text Label	<input type="text" value="SIP 3008"/>	
External Phone Number Mask	<input type="text"/>	
Visual Message Waiting Indicator Policy*	<input type="text" value="Use System Policy"/>	
Audible Message Waiting Indicator Policy*	<input type="text" value="Off"/>	
Ring Setting (Phone Idle)*	<input type="text" value="Use System Default"/>	
Ring Setting (Phone Active)	<input type="text" value="Use System Default"/>	Applies to this line when any line on the phone has a call in progress.
Call Pickup Group	<input type="text" value="Use System Default"/>	
Audio Alert Setting	<input type="text"/>	



## SIP Phone Configuration – 11

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**Directory Number Configuration** Related Links:  Configure Device (SEP000E839C1229)

Call Pickup Group	Use System Default <input type="button" value="v"/>
Audio Alert Setting (Phone Active)	
Recording Option*	Call Recording Disabled <input type="button" value="v"/>
Recording Profile	< None > <input type="button" value="v"/>
Monitoring Calling Search Space	PhonesCCS <input type="button" value="v"/>

---

**Multiple Call/Call Waiting Settings on Device SEP000E839C1229**

Note: The range to select the Max Number of calls is:  
1-50

Maximum Number of Calls\*

Busy Trigger\*  (Less than or equal to Max. Calls)

---

**Forwarded Call Information Display on Device SEP000E839C1229**

Caller Name

Caller Number

Redirected Number

Dialed Number

---

**Users Associated with Line**

---

## Service Parameters Configuration – Path Replacement and Callback





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For Cisco Unified Communications Solutions

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

---

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

<a href="#">Path Replacement Enabled</a> *	True	<input type="button" value="v"/>	False
<a href="#">Path Replacement on Tromboned Calls</a> *	True	<input type="button" value="v"/>	True
<a href="#">Start Path Replacement Minimum Delay Time</a> *	0	<input type="button" value="v"/>	0
<a href="#">Start Path Replacement Maximum Delay Time</a> *	0	<input type="button" value="v"/>	0
<a href="#">Path Replacement T1 Timer</a> *	30	<input type="button" value="v"/>	30
<a href="#">Path Replacement T2 Timer</a> *	15	<input type="button" value="v"/>	15
<a href="#">Path Replacement PINX ID</a>			
<a href="#">Path Replacement Calling Search Space</a>	PhonesCCS	<input type="button" value="v"/>	

---

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

<a href="#">Call Back Enabled Flag</a> *	True	<input type="button" value="v"/>	True
<a href="#">Call Back Notification Audio File Name</a> *	CallBack.raw	<input type="button" value="v"/>	CallBack.raw
<a href="#">Connection Proposal Type</a> *	Connection Retention	<input type="button" value="v"/>	Connection Retention
<a href="#">Connection Response Type</a> *	Default to Connection Retention	<input type="button" value="v"/>	Default to Connection Retention
<a href="#">Call Back Request Protection T1 Timer</a> *	10	<input type="button" value="v"/>	10
<a href="#">Call Back Recall T3 Timer</a> *	20	<input type="button" value="v"/>	20
<a href="#">Call Back Calling Search Space</a>	PhonesCCS	<input type="button" value="v"/>	
<a href="#">No Path Reservation</a> *	True	<input type="button" value="v"/>	True
<a href="#">Set Private Numbering Plan for Call Back</a> *	False	<input type="button" value="v"/>	False

### Service Parameters Configuration - Forward



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

**Clusterwide Parameters (Feature - Forward)**

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

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

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

<a href="#">Hold Reversion Duration</a> *	<input type="text" value="0"/>	0
<a href="#">Hold Reversion Notification Interval</a> *	<input type="text" value="30"/>	30
<a href="#">CFA Destination Override</a> *	<input type="text" value="False"/>	False

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

<a href="#">Auto Call Pickup Enabled</a> *	<input type="text" value="False"/>	False
<a href="#">Call Pickup Locating Timer</a> *	<input type="text" value="1"/>	1
<a href="#">Call Pickup No Answer Timer</a> *	<input type="text" value="12"/>	12



## Service Parameters Configuration - iDivert

The screenshot shows the Cisco Unified CM Administration interface for configuring Service Parameters. The page title is "Service Parameter Configuration" and it is for the "iDivert" feature. The interface includes a navigation bar with "Cisco Unified CM Administration" and "Go" buttons, and a user menu for "CCMAdministrator". The main content area is divided into two sections: "Service Parameter Configuration" and "Clusterwide Parameters (Feature - Immediate Divert)".

**Service Parameter Configuration**

Parameter Name	Current Value	Default Value
Conference *	85	85
Smart Mobile Phone Interdigit Timer *	500	500
Non-Smart Mobile Phone Interdigit Timer *	2000	2000
Send Call to Mobile Menu Timer *	60	60
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 Divert)**

Use Legacy Immediate Divert *	True	True
Allow QSIG during iDivert *	True	False
Immediate Divert User Response Timer *	5	5

Buttons: Save, Set to Default, Advanced

Legend:  
\* - indicates required item.  
\*\*Set-to-Default button only applies to the modifiable parameters.

**Note:** Parameter "Use Legacy Immediate Divert" is set to false to enable the IP phone feature that allows to choose where to divert the call



## Partition Configuration - 1

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### Find and List Partitions

Add New

**Status**  
 2 records found

**Partition (1 - 2 of 2)** Rows per Page 50

Find Partition where Name  begins with

<input type="checkbox"/>	Partition Name <input type="button" value="^"/>	Description
<input type="checkbox"/>	<a href="#">Incomming trunk</a>	Incomming trunk
<input type="checkbox"/>	<a href="#">Phones</a>	Phones



### Partition Configuration - 2

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**Partition Configuration** Related Links: Back To Find/List

**Status**

Status: Ready

**Partition Information**

Name\*

Description

Time Schedule

Time Zone  Originating Device  
 Specific Time Zone

\*- indicates required item.

### Partition Configuration - 3



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**Partition Configuration** Related Links: Back To Find/List

**Status**

Status: Ready

**Partition Information**

Name\*

Description

Time Schedule

Time Zone  Originating Device  Specific Time Zone

\*- indicates required item.



## Calling Search Space Configuration - 1

**Cisco Unified CM Administration**  
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### Find and List Calling Search Spaces

Add New

**Status**  
 2 records found

**Calling Search Space (1 - 2 of 2)** Rows per Page 50

Find Calling Search Space where CSS Name  begins with

<input type="checkbox"/>	CSS Name <input type="button" value="^"/>	Description	Copy
<input type="checkbox"/>	<a href="#">Incoming TrunkCCS</a>	Incoming TrunkCCS	
<input type="checkbox"/>	<a href="#">PhonesCCS</a>	PhonesCCS	



## Calling Search Space Configuration - 2

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**Calling Search Space Configuration** Related Links:

---

**Status**

Status: Ready

---

**Calling Search Space Information**

Name\*

Description

---

**Route Partitions for this Calling Search Space**

Available Partitions\*\*

▼ ▲

Selected Partitions   
 ▼ ▲

---

\*- indicates required item.

\*\*Selected Partitions are ordered by highest priority





### Calling Search Space Configuration - 3

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For Cisco Unified Communications Solutions

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

**Status**

Status: Ready

**Calling Search Space Information**

Name\* Incoming TrunkCCS

Description Incoming TrunkCCS

**Route Partitions for this Calling Search Space**

Available Partitions\*\* Phones

Selected Partitions Incomming trunk

\*- indicates required item.

\*\*Selected Partitions are ordered by highest priority



## Call Pickup Group Configuration - 1

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For Cisco Unified Communications Solutions

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### Find and List Call Pickup Groups

Add New

**Status**

1 records found

**Call Pickup Group (1 - 1 of 1)** Rows per Page 50 ▾

Find Call Pickup Group where Call Pickup Group Name ▾ begins with ▾

<input type="checkbox"/>	Call Pickup Group Name ^	Call Pickup Group Number	Partition	Description	Copy
<input type="checkbox"/>	<a href="#">PR 3020</a>	3020	<a href="#">Phones</a>	Call Pickup name	



## Call Pickup Group Configuration - 2

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

Save ~~X~~ Delete Copy + Add New

**Status**  
Status: Ready

**Call Pickup Group Information**  
Call Pickup Group Name\* PR 3020  
Call Pickup Group Number\* 3020  
Description Call Pickup name  
Partition Phones

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

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

**Associated Call Pickup Group Information**  
**Find Pickup Numbers by Numbers/Partition**  
Partition < None >  
Call Pickup Group Numbers Contain **Find**  
Available Call Pickup Groups (No Matches Found)



### Call Pickup Group Configuration - 3

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

**Find Pickup Numbers by Numbers/Partition**

Partition

Call Pickup Group Numbers Contain

Available Call Pickup Groups

(No Matches Found)

**Current Associated Call Pickup Groups**

Selected Call Pickup Groups

3020/Phones

Removed Call Pickup Groups

**i** \*- indicates required item.

**i** \*\*Removed Call Pickup Groups will be deleted on Save



## Route Pattern Configuration (Enbloc) - 1

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

---

**Status**

Status: Ready

---

**Pattern Definition**

Route Pattern\*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence\*

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

Route Option

Route this pattern

Block this pattern

Call Classification\*

Allow Device Override  Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority

Require Forced Authorization Code

Authorization Level\*

Require Client Matter Code

---

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask



## Route Pattern Configuration (Enbloc) - 2

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**Route Pattern Configuration** Related Links:

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\* Allowed ▾

Calling Name Presentation\* Allowed ▾

**Connected Party Transformations**

Connected Line ID Presentation\* Default ▾

Connected Name Presentation\* Default ▾

**Called Party Transformations**

Discard Digits < None > ▾

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol PRI NI2 ▾

Carrier Identification Code < Not Configurable >

Network Service	Service Parameter Name	Service Parameter Value
Foreign Exchange Selection ▾	Foreign Exchange <input type="text"/>	<input type="text"/>



## Route Pattern Configuration (Overlap) - 1

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

---

**Status**

Status: Ready

---

**Pattern Definition**

Route Pattern\*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence\*

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

Route Option

Route this pattern

Block this pattern

Call Classification\*

Allow Device Override  Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority

Require Forced Authorization Code

Authorization Level\*

Require Client Matter Code

---

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask



## Route Pattern Configuration (Overlap) - 2

**Cisco Unified CM Administration**  
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### Route Pattern Configuration

Related Links:

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*

---

**Connected Party Transformations**

Connected Line ID Presentation\*

Connected Name Presentation\*

---

**Called Party Transformations**

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

---

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
<input type="text" value="Foreign Exchange Selection"/>	<input type="text" value="Foreign Exchange"/>	<input type="text"/>





## Connected Name and Number Restriction (CONR, COLR) - 1

### Translation Pattern Configuration

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**Translation Pattern Configuration** Related Links:

---

**Status**

Status: Ready

---

**Pattern Definition**

Translation Pattern

Partition

Description

Numbering Plan

Route Filter

MLPP Precedence\*

Calling Search Space

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone

Urgent Priority

---

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*



## Connected Name and Number Restriction (CONR, COLR) - 2

### Translation Pattern Configuration

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**Translation Pattern Configuration** Related Links:

Block this pattern

Provide Outside Dial Tone  
 Urgent Priority

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*

**Connected Party Transformations**

Connected Line ID Presentation\*

Connected Name Presentation\*

**Called Party Transformations**

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

\*- indicates required item.



## Calling Name and Number Restriction (CNIR and CLIR) - 1

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### Route Pattern Configuration

Related Links:

**Status**

Status: Ready

**Pattern Definition**

Route Pattern\*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence\*

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

Route Option

Route this pattern

Block this pattern

Call Classification\*

Allow Device Override  Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority

Require Forced Authorization Code

Authorization Level\*

Require Client Matter Code

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask



## Calling Name and Number Restriction (CNIR and CLIR) - 2

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**Route Pattern Configuration** Related Links:

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*

Calling Name Presentation\*

**Connected Party Transformations**

Connected Line ID Presentation\*

Connected Name Presentation\*

**Called Party Transformations**

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

**ISDN Network-Specific Facilities Information Element**

Network Service Protocol

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
Foreign Exchange Selection <input type="text"/>	Foreign Exchange <input type="text"/>	<input type="text"/>



## Voice Mail Port Configuration for Unity VM - 1

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For Cisco Unified Communications Solutions

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**Find and List Voice Mail Ports**

**Status**

4 records found

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

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

Select item or enter search text ▾

<input type="checkbox"/>	Device Name ^	Description	Device Pool	Device Security Mode	Calling Search Space	Ext.	Partition	Status	IP Address	Copy
<input type="checkbox"/>	<a href="#">CiscoUM1-VI1</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3900</a>	<a href="#">Phones</a>	Registered with cm-spurs	172.20.239.252	
<input type="checkbox"/>	<a href="#">CiscoUM1-VI2</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3901</a>	<a href="#">Phones</a>	Registered with cm-spurs	172.20.239.252	
<input type="checkbox"/>	<a href="#">CiscoUM1-VI3</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3902</a>	<a href="#">Phones</a>	Registered with cm-spurs	172.20.239.252	
<input type="checkbox"/>	<a href="#">CiscoUM1-VI4</a>	Ri's cool VM	<a href="#">Default</a>	Non Secure Voice Mail Port	<a href="#">PhonesCCS</a>	<a href="#">3903</a>	<a href="#">Phones</a>	Registered with cm-spurs	172.20.239.252	



## Voice Mail Port Configuration for Unity VM - 2

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

### Voice Mail Port Configuration

Related Links: Back To Find/List

---

#### Device Information

Registration	Registered with Cisco Unified Communications Manager cm-spurs
IP Address	172.20.239.252
Port Name*	<input type="text" value="CiscoUM1-VI1"/>
Description	<input type="text" value="Ri's cool VM"/>
Device Pool*	<input type="text" value="Default"/>
Common Device Configuration	<input type="text" value="&lt; None &gt;"/>
Calling Search Space	<input type="text" value="PhonesCCS"/>
AAR Calling Search Space	<input type="text" value="&lt; None &gt;"/>
Location*	<input type="text" value="Hub_None"/>
Device Security Mode*	<input type="text" value="Non Secure Voice Mail Port"/>

---

#### Directory Number Information

Directory Number*	<input type="text" value="3900"/>
Partition	<input type="text" value="Phones"/>
Calling Search Space	<input type="text" value="PhonesCCS"/>
AAR Group	<input type="text" value="&lt; None &gt;"/>
Internal Caller ID Display	<input type="text" value="VoiceMail"/>
Internal Caller ID Display (ASCII format)	<input type="text" value="VoiceMail"/>
External Number Mask	<input type="text" value=""/>



## Message Waiting (MWI) Configuration - 1

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

### Find and List Message Waiting Numbers

Add New

**Status**  
**i** 2 records found

**Message Waiting Numbers (1 - 2 of 2)** Rows per Page 50 ▾

Message Waiting Numbers where Directory Number ▾ begins with ▾ and where Message Waiting Indicator is Both ▾

<input type="checkbox"/>	Directory Number ^	Description	Partition	Calling Search Space	Copy
<input type="checkbox"/>	<a href="#">3100</a>	Message waiting	<a href="#">Phones</a>	<a href="#">PhonesCCS</a>	<input type="button" value="Copy"/>
<input type="checkbox"/>	<a href="#">3101</a>		<a href="#">Phones</a>	<a href="#">PhonesCCS</a>	<input type="button" value="Copy"/>



## Message Waiting (MWI) Configuration - 2

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

Navigation

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

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

**Message Waiting Configuration** Related Links:

---

**Status**

Status: Ready

---

**Message Waiting Information**

Message Waiting Number*	<input type="text" value="3100"/>
Partition	<input type="text" value="Phones"/>
Description	<input type="text" value="Message waiting"/>
Message Waiting Indicator*	<input type="radio"/> On <input checked="" type="radio"/> Off
Calling Search Space	<input type="text" value="PhonesCCS"/>

---

\*- indicates required item.





### Message Waiting (MWI) Configuration - 3

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

Navigation **Cisco Unified CM Administration**

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

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

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

---

**Status**

Status: Ready

---

**Message Waiting Information**

Message Waiting Number\*

Partition  ▾

Description

Message Waiting Indicator\*  On  Off

Calling Search Space  ▾

---

\*- indicates required item.



### Voice Mail Profile Configuration for Unity VM - 1

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

#### Find and List Voice Mail Profiles

**Status**  
**i** 2 records found

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

Find Voice Mail Profile where Voice Mail Profile Name begins with

	Name ^	Description	Pilot	Calling Search Space	Copy
<input checked="" type="checkbox"/>	<a href="#">Default</a>	Default voice messaging profile	<a href="#">3999</a>	PhonesCCS	<input type="button" value="Copy"/>
<input type="checkbox"/>	<a href="#">NoVoiceMail</a>	No Voice Mail			<input type="button" value="Copy"/>



## Voice Mail Profile Configuration for Unity VM - 2

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

Navigation [Cisco Unified CM Administration](#)

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

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

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

---

**Status**

Status: Ready

---

**Voice Mail Profile Information**

Voice Mail Profile: Default (used by 4 devices)

Voice Mail Profile Name\*

Description:

Voice Mail Pilot\*\*

Voice Mail Box Mask:

Make this the default Voice Mail Profile for the System

---

---

\*- indicates required item.

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



## Voice Mail Pilot Configuration for Unity VM - 1

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

### Find and List Voice Mail Pilots

Add New

**Status**  
**i** 2 records found

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

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

		Pilot Number ^	Description	Calling Search Space
<input type="checkbox"/>			<a href="#">No Voice Mail</a>	
<input type="checkbox"/>		3999	Default	PhonesCCS



## Voice Mail Pilot Configuration for Unity VM - 2

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

Navigation

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

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

**Voice Mail Pilot Configuration** Related Links:

---

**Status**

Status: Ready

---

**Voice Mail Pilot Information**

Voice Mail Pilot Number

Calling Search Space  ▾

Description

Make this the default Voice Mail Pilot for the system

\*- indicates required item.



## Hunt Group for VM pilot Configuration for Unity VM - 1

Line groups

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

### Find and List Line Groups

Add New

**Status**

1 records found

**Line Groups (1 - 1 of 1)** Rows per Page 50 ▾

Find Line Groups where Line Group Name begins with

<input type="checkbox"/>	Line Group Name ^
<input type="checkbox"/>	<a href="#">CiscoUM1</a>



## Hunt Group for VM pilot Configuration for Unity VM - 2

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

Navigation **Cisco Unified CM Administration** Go

**CCMAdministrator** | About | Logout

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

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

Save ~~X~~ Delete + Add New

---

**Line Group Information**

Line Group Name\*

RNA Reversion Timeout\*

Distribution Algorithm\*

---

**Hunt Options**

No Answer\*

Busy\*\*

Not Available\*\*

---

**Line Group Member Information**

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

Partition

Directory Number Contains  **Find**

Available DN/Route Partition

**Add to Line Group**

---

**Current Line Group Members**

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

Selected DN/Route Partition



### Hunt Group for VM pilot Configuration for Unity VM - 3

The screenshot displays the Cisco Unified CM Administration interface for configuring a Hunt Group. The page title is "Line Group Configuration" and it includes a navigation menu with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCMAdministrator".

At the top of the configuration area, there are buttons for "Save", "Delete", and "Add New". Below this is a section titled "Current Line Group Members" with a sub-section "Reverse Order of Selected DN/Route Partitions". This section contains two text boxes: "Selected DN/Route Partition" and "Removed DN/Route Partition". The "Selected DN/Route Partition" box contains the following entries:

- 3900/Phones
- 3901/Phones
- 3902/Phones
- 3903/Phones

Arrows indicate that the order of these partitions can be reversed. Below the "Selected DN/Route Partition" box is the "Removed DN/Route Partition" box, which is currently empty.

The "Directory Numbers" section lists the following numbers:

- 778 3900 in Phones
- 779 3901 in Phones
- 778 3902 in Phones
- 779 3903 in Phones

At the bottom of the configuration area, there are buttons for "Save", "Delete", and "Add New". Below these buttons are two informational icons:

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





## Hunt Group for VM pilot Configuration for Unity VM - 4

### Hunt List

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

#### Find and List Hunt Lists

**Status**

1 records found

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

Find Hunt List where Name ▾ begins with ▾

<input type="checkbox"/>	Name ^	Description	Enabled	Status
<input type="checkbox"/>	<a href="#">Ri VM hunt list</a>	Ri VM hunt list	true	Registered with cm-spurs



## Hunt Group for VM pilot Configuration for Unity VM - 5

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

Navigation **Cisco Unified CM Administration** Go

**CCMAdministrator** | About | Logout

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

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

Save ~~Delete~~ Copy Reset + Add New

---

**Hunt List Information**

Name\*

Description

Cisco Unified Communications Manager Group\*

Enable this Hunt List (change effective on Save; no reset required)

For Voice Mail Usage

---

**Hunt List Member Information**

**Add Line Group**

Selected Groups\*\*  ▼

Removed Groups\*\*\*

---

**Hunt List Details**

[CiscoUM1](#)

Save Delete Copy Reset Add New



## Hunt Group for VM pilot Configuration for Unity VM - 6

Hunt Pilot – Must match Voice mail Pilot

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

### Find and List Hunt Pilots

Add New

**Status**

1 records found

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

Find Hunt Pilots where Pattern ▾ begins with ▾

<input type="checkbox"/>	Pattern ^	Description	Partition	Route Filter	Hunt List	Copy
<input type="checkbox"/>	<a href="#">3999</a>	Ri hunt pilot	<a href="#">Phones</a>		<a href="#">Ri VM hunt list</a>	<input type="button" value="Copy"/>



## Hunt Group for VM pilot Configuration for Unity VM - 7

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

**Hunt Pilot Configuration** Related Links:

---

**Status**

Status: Ready

---

**Pattern Definition**

Hunt Pilot\*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence\*

Hunt List\*  [\(Edit\)](#)

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone  Urgent Priority

---

**Hunt Forward Settings**

	Use Personal Preferences	Destination	Calling Se
Forward Hunt No Answer	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Hunt Busy	<input type="checkbox"/> or	<input type="text"/>	< None >



### Hunt Group for VM pilot Configuration for Unity VM - 8

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

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

**Hunt Forward Settings**

	Use Personal Preferences	Destination	Calling Se
Forward Hunt No Answer	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Hunt Busy	<input type="checkbox"/> or	<input type="text"/>	< None >
Maximum Hunt Timer	<input type="text"/>		

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask:

Prefix Digits (Outgoing Calls):

Calling Line ID Presentation\*:

Calling Name Presentation\*:

**Connected Party Transformations**

Connected Line ID Presentation\*:

Connected Name Presentation\*:

**Called Party Transformations**

Discard Digits:

Called Party Transform Mask:



### Hunt Group for VM pilot Configuration for Unity VM - 8

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

Navigation Cisco Unified CM Administration Go

CCMAdministrator | About | Logout

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

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

Save Delete Copy Add New

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\* Default

Calling Name Presentation\* Default

**Connected Party Transformations**

Connected Line ID Presentation\* Default

Connected Name Presentation\* Default

**Called Party Transformations**

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

**AAR Group Settings**

AAR Group < None >

External Number Mask

Save Delete Copy Add New

**i** \*- indicates required item.

### Callback and iDivert Soft key Template - 1

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

Navigation Cisco Unified CM Administration Go

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

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

**Find and List Softkey Templates**

+ Add New
 ☐ Select All
 ☐ Clear All
 ✖ Delete Selected

**Status**

i 7 records found

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

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

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

Add New
Select All
Clear All
Delete Selected



## Callback Soft key Template - 2

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

Navigation

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

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

**Softkey Template Configuration** Related Links:

---

**Status**

Status: Ready

---

**Softkey Template Information**

Name\*

Description

Applications\*

Default Softkey Template

---

\*- indicates required item.





### Callback Soft key Template - 3

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

Navigation Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

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

---

**Status**

Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Ris special softkey template

Select a call state to configure

Unselected Softkeys		Selected Softkeys (ordered by position)**
Call Back (CallBack)		**NewCall (NewCall)
Conference List (ConfList)		Meet Me (MeetMe)
Direct Transfer (DirTrfr)		Mobility (Mobility)
Forward All (CfwdAll)		Pick Up (PickUp)
Group Pick Up (GPickUp)		Quality Report Tool (QRT)
HLog (HLog)		
Immediate Divert (iDivert)	➤	⏴
Join (Join)	⏴	⏵
Other Pickup (oPickup)		
Redial (Redial)		
Remove Last Conference Party (RmLstC)		
Select (Select)		
Toggle Do Not Disturb (DND)		
Undefined (Undefined)		
Video Mode Command (VidMode)		

\*- indicates required item.

\*\*- indicates mandatory fields



## Callback Soft key Template - 4

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

Navigation **Cisco Unified CM Administration**

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

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

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

---

**Status**

Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Ris special softkey template

Select a call state to configure

Unselected Softkeys	Selected Softkeys (ordered by position)**
HLog (HLog) Mobility (Mobility) Quality Report Tool (QRT) Toggle Do Not Disturb (DND) Undefined (Undefined)	Hold (Hold) Immediate Divert (iDivert) End Call (EndCall) Transfer (Trnsfer) Park (Park) Conference (Confrn) Conference List (ConfList) Select (Select) Join (Join) Direct Transfer (DirTrfr) Toggle Malicious Call Trace (MCID) Remove Last Conference Party (RmLstC) Video Mode Command (VidMode)

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



### Callback Soft key Template - 5

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

Navigation **Cisco Unified CM Administration**

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

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

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

---

**Status**

Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Enhanced Feature

Select a call state to configure

Unselected Softkeys	Selected Softkeys (ordered by position)**
Toggle Do Not Disturb (DND) Undefined (Undefined)	**Resume (Resume) NewCall (NewCall) Direct Transfer (DirTrfr) Select (Select) Join (Join) Immediate Divert (iDivert)

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



### Callback Soft key Template - 6

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

Navigation **Cisco Unified CM Administration**

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

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

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

---

**Status**

Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Ris special softkey template

Select a call state to configure

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

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



## Callback Soft key Template - 7

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

Navigation

CCMAdministrator | About | Logout

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

**Softkey Template Configuration** Related Links:

---

**Status**

Status: Ready

---

**Softkey Layout Configuration**

Softkey Template: Enhanced Feature

Select a call state to configure

Unselected Softkeys	Selected Softkeys (ordered by position)**
Call Back (CallBack) Quality Report Tool (QRT) Toggle Do Not Disturb (DND) Undefined (Undefined)	Undefined (Undefined) End Call (EndCall) **Transfer (Trnsfer)

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



### Callback Soft key Template - 8

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

Navigation **Cisco Unified CM Administration** Go

**CCMAdministrator** | About | Logout

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

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

Save Reset

**Status**  
Status: Ready

**Softkey Layout Configuration**  
Softkey Template: Ris special softkey template  
Select a call state to configure Ring Out ▾

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

Save Reset

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



## PSTN Route Pattern Configuration – 1

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

Navigation: Cisco Unified CM Administration

CCMAdministrator | About | Logout

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

### Route Pattern Configuration

Related Links:

---

#### Pattern Definition

Route Pattern\*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence\*

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

Route Option

Route this pattern

Block this pattern

Call Classification\*

Allow Device Override  Provide Outside Dial Tone  Allow Overlap Sending  Urgent Priority

Require Forced Authorization Code

Authorization Level\*

Require Client Matter Code

---

#### Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation\*



## PSTN Route Pattern Configuration – 2

The screenshot shows the Cisco Unified CM Administration web interface for configuring a PSTN route pattern. The page title is "Route Pattern Configuration" and it includes a navigation menu with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The user is logged in as "CCAdministrator".

At the top right, there is a "Navigation" dropdown set to "Cisco Unified CM Administration" and a "Go" button. Below the navigation menu, there is a "Related Links" section with a dropdown set to "Back To Find/List" and a "Go" button.

The main configuration area contains several sections:

- Prefix Digits (Outgoing Calls)**: A text input field.
- Calling Line ID Presentation\***: A dropdown menu set to "Default".
- Calling Name Presentation\***: A dropdown menu set to "Default".
- Connected Party Transformations**:
  - Connected Line ID Presentation\***: A dropdown menu set to "Default".
  - Connected Name Presentation\***: A dropdown menu set to "Default".
- Called Party Transformations**:
  - Discard Digits**: A dropdown menu set to "< None >".
  - Called Party Transform Mask**: A text input field.
  - Prefix Digits (Outgoing Calls)**: A text input field.
- ISDN Network-Specific Facilities Information Element**:
  - Network Service Protocol**: A dropdown menu set to "-- Not Selected --".
  - Carrier Identification Code**: A text input field.
  - Network Service**: A dropdown menu set to "-- Not Selected --".
  - Service Parameter Name**: A dropdown menu set to "< Not Exist >".
  - Service Parameter Value**: A text input field.

At the bottom of the configuration area, there are buttons for "Save", "Delete", "Copy", and "Add New". Below these buttons, there is an information icon and a note: "\* - indicates required item."

## Configuring the Cisco Voice Gateway-3825

Ri-3825#sh ver

Cisco IOS Software, 3800 Software (C3825-IPVOICEK9-M), Version 12.4(15)T1, RELEA

SE SOFTWARE (fc2)

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

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Compiled Wed 18-Jul-07 11:23 by prod\_rel\_team





ROM: System Bootstrap, Version 12.3(11r)T2, RELEASE SOFTWARE (fc1)

Ri-3825 uptime is 2 weeks, 6 days, 4 hours, 58 minutes

System returned to ROM by reload at 17:08:17 UTC Tue Jul 24 2007

System image file is "flash:c3825-ipvoicek9-mz.124-15.T1.bin"

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 authorities 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/stqrg.html>

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

Cisco 3825 (revision 1.0) with 224256K/37888K bytes of memory.

Processor board ID FTX0946A1BT

2 Gigabit Ethernet interfaces

48 Serial interfaces

2 Channelized T1/PRI ports

2 Voice FXS interfaces

DRAM configuration is 64 bits wide with parity enabled.



479K bytes of NVRAM.

62720K bytes of ATA System CompactFlash (Read/Write)

Configuration register is 0x2102

```
Ri-3825#sh run
Building configuration...
```

Current configuration : 2341 bytes

```
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Ri-3825
!
boot-start-marker
boot-end-marker
!
enable password cisco
!
no aaa new-model
network-clock-participate slot 1
no network-clock-participate slot 2
network-clock-select 1 T1 1/0/0
voice-card 0
no dspfarm
!
voice-card 1
dspfarm
!
voice-card 2
no dspfarm
!
ip cef
!
!
!
!
ip host CM-SPURS 172.20.192.254
multilink bundle-name authenticated
!
isdn switch-type primary-qsig
!
!
!
!
!
!
!
!
!
!
```



```
!  
!  
!  
!  
!  
!  
archive  
log config  
hidekeys  
!  
!  
controller T1 1/0/0  
framing esf  
linecode b8zs  
pri-group timeslots 1-24 service mgcp  
!  
controller T1 1/0/1  
framing esf  
linecode b8zs  
cablelength short 399  
pri-group timeslots 1-24 service mgcp  
!  
!  
!  
!  
interface GigabitEthernet0/0  
ip address 172.20.192.21 255.255.255.0  
duplex auto  
speed auto  
media-type rj45  
!  
interface GigabitEthernet0/1  
no ip address  
shutdown  
duplex auto  
speed auto  
media-type rj45  
!  
interface Serial1/0/0:23  
no ip address  
encapsulation hdlc  
isdn switch-type primary-qsig  
isdn timer T310 120000  
isdn protocol-emulate network  
isdn incoming-voice voice  
isdn bind-l3 ccm-manager  
no cdp enable  
!  
interface Serial1/0/1:23  
no ip address  
encapsulation hdlc  
isdn switch-type primary-qsig  
isdn incoming-voice voice  
isdn bind-l3 ccm-manager  
no cdp enable  
!  
ip route 0.0.0.0 0.0.0.0 172.20.192.1
```



```
!  
!  
ip http server  
no ip http secure-server  
!  
!  
!  
control-plane  
!  
!  
!  
voice-port 1/0/0:23  
!  
voice-port 1/0/1:23  
!  
voice-port 2/0/0  
!  
voice-port 2/0/1  
!  
ccm-manager mgcp  
ccm-manager music-on-hold  
ccm-manager config server CM-SPURS  
ccm-manager config  
!  
mgcp  
mgcp call-agent cm-spurs 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  
mgcp package-capability sst-package  
mgcp package-capability pre-package  
no mgcp package-capability res-package  
no mgcp package-capability fxr-package  
no mgcp timer receive-rtcp  
mgcp sdp simple  
mgcp fax t38 inhibit  
mgcp rtp payload-type g726r16 static  
!  
mgcp profile default  
!  
!  
!  
!  
!  
line con 0  
password cisco  
login  
stopbits 1  
line aux 0  
stopbits 1  
line vty 0 4  
password cisco  
login  
!  
scheduler allocate 20000 1000  
!  
end
```



#### Acronyms

<b>Acronym</b>	<b>Definitions</b>
ANF-PR	Additional Network Feature Path Replacement
CUCM	Cisco Unified Communication Manager
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CNIP	Calling Name Identification Presentation
CNIR	Calling Name Identification Restriction
COLP	Connected Line (Number) Identification Presentation
COLR	Connected Line (Number) Identification Restriction
CONP	Connected Name Identification Presentation
CONR	Connected Name Identification Restriction
CT	Call Transfer
MWI	Message Waiting Indicator
PSTN	Public Switched Telephone Network



## Important Information

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