**Application Note** 

# Cisco Unified CallManager Release 5.0-PBX Interoperability: Nortel CS1000M Release 4.0 to a Cisco 3845 Gateway Using E1-QSIG with MGCP

Revision 2, July 27, 2006

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#### Introduction

This is an application note for connectivity of Nortel CS1000M Release 4.0 PBX with Cisco Unified CallManager Release 5.0 using Cisco 3845 E1 QSIG as MGCP gateway.

The network topology diagram (Figure 1) shows the test setup for end-to-end interoperability with the Cisco Unified CallManager connected to the PBX via Cisco 3845 E1 QSIG link as MGCP gateway.

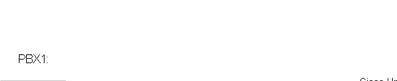
Connectivity is achieved by using the PRI QSIG E1 protocol type on the MGCP gateway and ISO QSIG switch type on the of Nortel CS1000M Release 4.0 PBX.

This Application Note uses the Cisco 3845 E1 voice gateway; however, other Cisco voice gateways are also an option to use since Cisco Unified CallManager QSIG implementation does not depend on the physical interface.

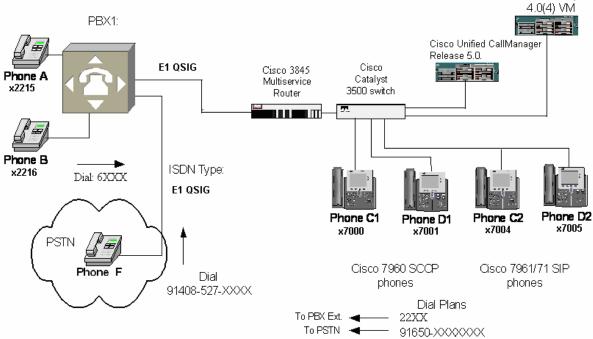
Cisco Unitv

#### **Network Topology**

Figure 1. Network Topology or Test Setup



Basic Call Setup End-to-End Configuration





#### Limitations

#### Call Forwarding (Diversion) by Reroute

The Nortel does not initiate a Call Diversion by Reroute to deflect a call that is meant for a local station programmed to forward all calls to another station within the network. Thus, although the call was completed, no Reroute was done during the call. The Nortel, however, will respond to a Call Reroute message sent by another node and respond by initiating a new SETUP message to an alternate route.

#### **Call Completion to Busy Subscriber**

As of the publication of this Application Note, call is not completed when callback is invoked from a Nortel station calling a busy Cisco Unified CallManager 5.0 station. This is a bug which has been addressed by Cisco and integrated in Release 005.001(000.9901.002) (See DDTS CSCse27145)

#### **Call Completion on No Reply**

As of the publication of this Application Note, call is not completed when callback is invoked from a Nortel station calling a Cisco Unified CallManager station which does not reply. This is a bug which has been addressed by Cisco and integrated in Release 005.001(000.9901.002) (See DDTS CSCse27145)

#### Path Replacement for Call Diversion by Forward

As of the publication of this Application Note, the Nortel CS1000M PBX Release 4.0 did not initiate Path Replacement Proposal for Call Diversion by Forward to optimize the path for a call that is meant for a Cisco Unified CallManager station programmed to forward all calls to another Nortel station within the network. Thus, although the call was completed, no Path Replacement Proposal was sent by Nortel during the call. The Nortel, however, will respond to a Path Replacement Proposal message sent by another node and respond by initiating a new SETUP message to an alternate route.

As a work around, in cases where the Path Replacement is not initiated by the PBX, Reroute for Call Diversion by Forward may be used on Cisco Unified CallManager 5.0 instead of Path Replacement for Call Diversion by Forward. This will enable the optimal use of path between the originating station and terminating station by using one call leg instead of two call legs.

Note: Path Replacement for Call Diversion by Forward did work in tests using Nortel Meridian 1 PBX Release 25.15, Nortel Meridian 1 PBX Release 25.40 and Cisco Unified CallManager 5.0. A call was placed from a station on Nortel Meridian 1 PBX Release 25.15 to station on Cisco Unified CallManager which forwarded to a station on Nortel Meridian 1 PBX Release 25.40. The Nortel Meridian 1 PBX Release 25.15 proposed Path Replacement and an optimized path was used for that call.

#### **System Components**

#### **Hardware Requirements**

Cisco Catalyst 3500

Cisco 3845 router with VWIC-2MFT-E1 on NM-HD-VE and VWIC-2MFT-E1-DI on NM-HDV

Cisco Unified CallManager Server

Nortel CS1000M PBX

#### **Software Requirements**

PBX Release 4.0

Cisco Unified CallManager 5.0

#### **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 COLR- Connected Line (Number) Identification Restriction **CONP-Connected Name Identification Presentation** CONR- Connected Name Identification Restriction Sending Alerting Name CT-Call Transfer (by join) CFU-Call Forwarding Unconditional (by join) CFB-Call Forwarding Busy (by join) CFNR-Call Forwarding No Reply (by join) CFU-Call Forwarding Unconditional (by Reroute) - see Limitations Section CFB-Call Forwarding Busy (by Reroute) - see Limitations Section CFNR-Call Forwarding No Reply (by Reroute) - see Limitations Section CCBS-Call Completion to Busy Subscriber - see Limitations Section CCNR-Call Completion No Reply - see Limitations Section 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) - see Limitations Section ANF-PR-Additional Network Feature Path Replacement (for Trombone connection) MWI- Message Waiting Indication (lamp ON, lamp OFF)

#### Configuration

#### **Configuration Sequence and Tasks**

#### **Configuring the Nortel Meridian 1 Option 11C PBX**

Configure in the following sequence:

- 1. Configure common equipment
- 2. Configure the D-Channel
- 3. Configure the Route Data Block.
- 4. Configure the Trunk Data Block
- 5. Configure the Coordinated Dialing Plan
- 6. Configure the Digital Station Phone



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

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#### DLOP NUM DCH FRM TMDI LCMT YALM T1TE TRSH

PRI 05 24 ESF NO B8S FDL - 00 06 23 ESF NO B8S FDL - 00 07 23 ESF NO B8S FDL - 00 36 24 ESF YES B8S FDL 0 00 PRI2 04 11 DTI2 02 12 13 21 Slot 2 to PSTN MISP

ADAN DCH 4 CTYP MSDL CARD 04 PORT 1 DES E1\_QSIG\_Net USR PRI DCHL 4 OTBF 32 PARM RS422 DTE DRAT 64KC CLOK EXT IFC ISGF PINX\_CUST 0 ISDN\_MCNT 300 CLID OPT0



CO\_TYPE STD SIDE NET CNEG 1 RLS ID \*\* QCHID YES RCAP COLP NDI CCBI CCNI PRI DV3I CTI QMWI PR\_TRIGS DIV 2 3 CNG 2 3 CTR2 2 3 PR\_RTN NO MBGA NO OVLR YES DIDD 0 OVLS YES OVLT 0 T310 120 T200 3 T203 10 N200 3 N201 260 Κ 7 \*\*\*\*\* Trunk Data Block Configuration \*\*\*\*\* REQ: prt TYPE: tnb TN 41 DATE PAGE DES DES E1-QSIG TN 004 01 TYPE TIE CDEN SD CUST 0 TRK PRI2 PDCA 1 PCML A NCOS 0 RTMB 104 1 **B-CHANNEL SIGNALING** TGAR 0 AST NO IAPG 0 CLS UNR DTN WTA LPR APN THFD P10 VNL TKID AACR NO DATE 30 JUN 2006



\*\*\*\*\*

Route Data Block Configuration \*\*\*\*\* REQ PRT TYPE: rdb CUST 0 **ROUT 104** TYPE RDB CUST 00 DMOD **ROUT 104** DES TO\_CS101 TKTP TIE NPID\_TBL\_NUM 0 ESN NO CNVT NO SAT NO RCLS EXT VTRK NO NODE DTRK YES BRIP NO DGTP PRI2 ISDN YES MODE PRA IFC ISGF SBN NO PNI 00001 NCNA NO NCRD NO CTYP UKWN INAC NO ISAR NO CPFXS YES DAPC NO INTC NO DSEL VOD PTYP DTT AUTO NO DNIS NO DCDR NO ICOG IAO SRCH LIN TRMB YES STEP ACOD 204 TCPP NO TARG 01 CLEN 1 **BILN NO** OABS INST ANTK SIGO STD ICIS YES TIMR ICF 512 OGF 512



EOD 13952 NRD 10112 DDL 70 ODT 4096 RGV 640 GRD 896 SFB 3 NBS 2048 NBL 4096 IENB 5 TFD 0 VSS 0
PAGE 002
VGD 6 DRNG NO CDR NO VRAT NO MUS NO FRL 0 0 FRL 1 0 FRL 2 0 FRL 3 0 FRL 4 0 FRL 5 0 FRL 6 0 FRL 7 0 OHQ NO OHQ T 00 CBQ NO AUTH NO TTBL 0 ATAN NO PLEV 2 ALRM NO ART 0 SGRP 0 AACR NO
REQ: prt TYPE: rdb CUST 0 ROUT 102
TYPE RDB CUST 00 DMOD ROUT 102 DES TKTP TIE NPID_TBL_NUM 0 ESN NO CNVT NO SAT NO RCLS EXT



VTRK NO NODE DTRK YES DGTP DTI2 ISDN NO DSEL VCE PTYP DTT AUTO NO DNIS NO ICOG IAO SRCH RRB TRMB YES STEP ACOD 502 TARG 01 CLEN 1 BILN NO OABS INST ANTK SIGO STD STYP SDAT TIMR ICF 512 OGF 512 EOD 13952 DSI 34944 NRD 10112 DDL 70 ODT 4096 RGV 640 GRD 896 SFB 3 IENB 5 TFD 0 VSS 0 VGD 6 SST 50 NEDC ETH FEDC ETH CPDC NO DLTN NO HOLD 02 02 40 SEIZ 02 02 SVFL 02 02 DRNG NO CDR NO VRAT NO MUS NO MANO NO EQAR NO FRL 00 PAGE 002

FRL 10 FRL 20 FRL 30



FRL 40 FRL 50 FRL 60 FRL 70 OHQ NO OHQT 00 CBQ NO AUTH NO TTBL 0 ATAN NO OHTD NO PLEV 2 ALRM NO ART 0 OPDL 0 SGRP 0 AACR NO \*\*\*\*\* Digital Phone Station Configuration \*\*\*\*\* REQ: prt TYPE: 2616 TN 001000 DATE PAGE DES DES CS101A TN 0010000 **TYPE 2616** CDEN 8D CUST 0 AOM 0 FDN 2214 TGAR 1 LDN NO NCOS 0 SGRP 0 RNPG 0 SCI 0 SSU XLST CLS CTD FBA WTA LPR MTD FNA HTA ADD HFD MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1 POD DSX VMD CMSD SLKD CCSD SWD LND CNDA CFTA SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD ICDD CDMD LLCN MCTD CLBD AUTU GPUD DPUD DNDA CFXA ARHD CLTD ASCD CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD AHD DDGA NAMA DRDD EXR0 USRD ULAD RTDD RBDD RBHD PGND OCBD FLXD FTTC DNDY DNO3 MCBN CDMR CPND\_LANG ENG

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EHT 2214



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LHK 0
PLEV 02
CSDN
AST
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0
DNDR 0
KEY 00 SCR 2213 0 MARP
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   NAME ZEUS13
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  01
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 04 AO6
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  13 MIK
  14 MCK
  15 TRN
DATE 6 JUN 2006
Coordinated Dialing Plan (CDP) configuration
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MEM AVAIL: (U/P): 2817123 USED U P: 208645 70807 TOT: 3096575
DISK RECS AVAIL: 1152
REQ prt
CUST 0
FEAT cdp
TYPE dsc
DSC 400
DSC 40
FLEN 0
DSP LSC
RLI 6
NPA
NXX
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#### **Cisco Unified CallManager Configuration**

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 Device Information									
Product	Cisco MGCP E	1 Port							
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Call Classification*	Use System [	Default		•	1				
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Number of digits to strip*	0	]		
Caller ID DN				
SMDI Base Port*	0			
PRI Protocol Type Specific Informat	tion			
🗖 Display IE Delivery				
🗖 Redirecting Number IE Delivery - Ou	utbound			
🔲 Redirecting Number IE Delivery - In	bound			
🔲 🔲 Send Extra Leading Character in Di				
E Setup non-ISDN Progress Indicator				
MCDN Channel Number Extension E	Bit Set to Zero**			
Send Calling Name In Facility IE				
Interface Identifier Present** Interface Identifier Value**				1
				l
Connected Line ID Presentation (QSIG	Default	<b>v</b>		l
UUIE Configuration				l
🔲 Passing Precedence Level Through	UUIE			l
Security Access Level* 2				l
-Product Specific Configuration		?		l
Line Coding *	DB3	·		
	RC4			
Clock *	(ternal			
Input Gain (-614 db) *				
Output Attenuation (-614 db) *			•	Ľ
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🚰 Gateway Configuration - Microsoft Int	ernet Explorer	_ 8 ×		
File Edit View Favorites Tools Help	p	1		
Setup non-ISDN Progress Indica				
MCDN Channel Number Extension Bit Set to Zero**				
Send Calling Name In Facility IE				
Interface Identifier Present** Interface Identifier Value**				
Connected Line ID Presentation (Q	SIG Inbound Call)* Default			
UUIE Configuration				
🗖 🗖 Passing Precedence Level Throu	igh UUIE			
Security Access Level* 2				
Product Specific Configuration—				
	?			
Line Coding *	HDB3			
Framing *	CRC4			
Clock *	External			
Input Gain (-614 db) *	0			
Output Attenuation (-614 db) *	0			
Echo Cancellation Enable *	Enable			
Echo Cancellation Coverage (ms) *	8			
- Save Delete Reset				
(i) *- indicates required item.				
0 **- applies to DMS-100 protoc	ol only.			
0 ***- applies to DMS-100 proto	col and DMS-250 protocol only.			
0 ****- may be required to force	e ringback from some PBXs.			
0 ****- Device reset is not requi	ired for changes to Packet Capture Mode and Packet Capture Duration.			
		-		
<b>▲</b>				
E Done	🕒 🔒 🕅 Local intranet			
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#### Phone Configuration 1

Cisco Ur	l Routing 👻 Media Resour	ager Adminis		Nav Telecommunication Solutions	rigation Cisco Unified Call	Manager Admir
stem 👻 Call d and List F	l Routing 👻 Media Resour					Manager Admir
stem 👻 Call d and List F	l Routing 👻 Media Resour					
stem 👻 Call d and List F	l Routing 👻 Media Resour			Telecommunication Solutions		ged in as:CCI
d and List F		rces 👻 Voice Mail 👻	Device - Application - U:		Logo	jeu in astoci
	Phones			ser Management 👻 Bulk Administration 👻 Help	. 🗸	
					Related Links:	CAPF Report
	<b></b>					
	•					
tatus )4 records f	found					
earch Opti	lana					
-	vhere Device Name	▼ begins witl	h 🔽	Find Search Within Results		
iu Priorie w				Select item or enter search text		
evice.name	e begins with any)					
earch Resu	ulte					
De	evice Name(Line)		evice Pool Device Proto		IP Address	Copy Cop
7960	EP00124362145B		efault SCCP	Registered with CM-SATURN	<u>172.20.235.101</u>	
7960	EP00124362B4C5 EP00170EEE3279		o <u>efault</u> SCCP Default SIP	Registered with CM-SATURN Registered with CM-SATURN	<u>172.20.235.100</u> 172.20.235.102	
7961	EP00170EEE3284		pefault SIP	Registered with CM-SATURN	172.20.235.102	
Add New		ar All Delete Sel			172.20.233.103	40 407
Add New		II All Delete Sel		Rows per Page 50 💌		



# Phone Configuration 2 (SCCP Phone)

🚰 Phone Configuration - Microsoft Internet Explorer				
File Edit View Favorites Tools Help				
Cisco Unified CallManager Adminis		elecommunication Solutions	Navigation Cisco Unifie Help 🗸	ed CallManager Admini:▲ Logged in as:CCM
Phone Configuration Related Links: Back To Find/List				
Status       Image: Status: Ready				
Modify Button Items	Product Type: Cisco 79 Device Protocol: SCCP	60		
2 mmsLine [2] - Add a new DN     3 @_Add a new SD     4 @_Add a new SD		Registered with Cisco Unified Call 172.20.235.100 00124362B4C5	Manager CM-SATURN	
5 @ <u>a Add a new SD</u> 6 @ <u>a Add a new SD</u>	Description Device Pool*	Auto 7000 Default		
Unassigned Associated Items 7 Contend Add a new SD 8 Contend Add a new SURL	Phone Button Template* Softkey Template Common Phone Profile*	Standard 7960 SCCP Standard User With Callback	•	
9 🧐 Add a new BLF SD 10 Privacy	Calling Search Space AAR Calling Search Space	Standard Common Phone Profile < None > < None >	<u> </u>	
11 None	Media Resource Group List User Hold Audio Source			
	Network Hold Audio Source Location*	< None > Hub_None		
	User Locale	< None >		• •
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# Phone Configuration 3 (SCCP Phone)

🚰 Phone Configuration - Microsoft Internet Explorer			<u>_ 8 ×</u>
File Edit View Favorites Tools Help			<u>(8</u>
Ne	etwork Hold Audio Source	< None >	<u> </u>
La	ocation*	Hub_None	
Us	ser Locale	< None >	
Ne	etwork Locale	< None >	
Bu	uilt In Bridge*	Default 🗾	
Pr	rivacy*	Default 🗾	
0	wner User ID	< None >	
Pł	hone Load Name		1
<b>v</b>	■ Retry Video Call as Audio		
	Ignore Presentation Indi	cators (internal calls only)	
9 N	Allow Control of Device fr	om CTI	
Pa Pa Pr SC SL C C C C	Protocol Specific Informat acket Capture Mode* acket Capture Duration resence Group* CCP Phone Security Profile UBSCRIBE Calling Search S Unattended Port Require DTMF Reception RFC2833 Disabled	None	•
	lodule 1 < None	•>	
	lodule 2 < None	>	
I III			
	External Data Locations Ir	formation (Leave blank to use default)	<b></b>
<u> </u>			
E Done			Cocal intranet
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# Phone Configuration 4 (SCCP Phone)

🚈 Phone Configuration - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		
	Module 2 Load Name	
	External Data Locations Information (Leave blank to use default)	]
		-
	Messages Services	-
	Authentication Server	
	Proxy Server	
	Idle	
	Idle Timer (seconds)	]
	Extension Information Enable Extension Mobility	
	Log Out Profile Not Selected	•
	Login in User ID < None > Log in Time < None > Log out Time < None >	
	Certification Authority Proxy Function (CAPF) Information Certificate Operation* No Pending Operation	
	Authentication String	
	Generate String	
		4:DD:HH)
	Certificate Operation Status: None	
	MLPP Information MLPP Domain <pre></pre> <pre></pre> <pre>MLPP Domain</pre>	
	MLPP Indication* Default	
4	MLPP Preemption* Default	▼ ▶
e Done		🔚 📴 Local intranet
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# Phone Configuration 5 (SCCP Phone)

🚈 Phone Configuration - Microsoft Internet Explorer			_ B ×
File Edit View Favorites Tools Help			
	Generate arring		<b></b>
	Operation Completes By 2006 :	6 ; 22 ; 12 (үүүү:мм:dd:нн	1)
	Certificate Operation Status: None		
	MLPP Information		
	MLPP Domain < None >	•	
	MLPP Indication* Default	•	
	MLPP Preemption* Default	V	
	Secure Shell Information		
	Secure Shell User		
	Secure Shell Password		
	Product Specific Configuration Layout	:	
		?	
	🗖 Disable Speakerphone		
	Disable Speakerphone and Headset		
	PC Port * Enabled		
	Settings Access* Enabled	<b>_</b>	
	Gratuitous ARP* Enabled	<b>•</b>	
	PC Voice VLAN Access* Enabled	<b>•</b>	
	Video Capabilities* Disabled	▼	
	Auto Line Select* Disabled	<b>•</b>	
	Web Access* Enabled		
– Save Delete Copy Reset Add New –			
•- indicates required item.			
1 **- Device reset is not required for changes to	acket Capture Mode and Packet Capture (	Duration.	
4			▼ 
Done			Local intranet
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# Phone Configuration 6 (SIP Phone)

🚰 Phone Configuration - Microsoft Internet Explorer				_ B ×
File Edit View Favorites Tools Help				
Cisco Unified CallManager Adminis System - Call Routing - Media Resources - Voice Mail -		elecommunication Solutions	Navigation Cisco Unifi Help 🗸	ed CallManager Admini A
Phone Configuration Related Links: Back To Find/List				
Status (i) Status: Ready				
Association Information	Phone Type Product Type: Cisco 79	61		
Modify Button Items 1 are Line [1] - 7004 (no partition)	Device Protocol: SIP			
2 • <u>ms Line [2] - Add a new DN</u>	Device Information			
3 G <u>a Add a new SD</u>	Registration	Registered with Cisco Unified Call	Manager CM-SATURN	
4 G <sub>m</sub> Add a new SD		<u>172.20.235.102</u> 00170EEE3279		
5 Can Add a new SD	Description	Auto 7004		
6 Gan Add a new SD	Device Pool*	Default		
	Phone Button Template*	Standard 7961 SIP		
7 🖓 Add a new SD	Softkey Template	Standard User With Callback		
8 🤹 Add a new SURL	Common Phone Profile*	Standard Common Phone Profile		
9 🚱 Add a new BLF SD	Calling Search Space	< None >		
10 Privacy 11 None	AAR Calling Search Space	< None >		
	Media Resource Group List			
	User Hold Audio Source	1-SampleAudioSource		
	Network Hold Audio Source			
	Location*	Hub_None		
	User Locale	< None >	•	_
•	81-4	, r		▼ ▶
E Done				E Local intranet
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# Phone Configuration 7 (SIP Phone)

🚰 Phone Configuration - Microsoft Internet Explorer				_ 8 ×
File Edit View Favorites Tools Help				
Network Hold Au	dio Source 1-Sam	npleAudioSource	1	<b>_</b>
Location*	Hub_N		ī	
User Locale	< Non	e>	Ī	
Network Locale	< Non	e>	Ī	
Built In Bridge*	Defaul	t	1	
Privacy*	Defaul	t 🖉	]	
Owner User ID	< Non	e> -	]	
Phone Load Nam	ie 🗌			
🗆 Ignore Prese	ntation Indicators	(internal calls only)		
Allow Control	of Device from CI	П		
Protocol Specif	ic Information —			
Packet Capture I		None	•	
Packet Capture I	Duration	0		
Presence Group'	ĸ	Standard Presence group	<b>•</b>	
SIP Dial Rules		None >	•	
MTP Preferred O	riginating Codec*	711ulaw	<b>T</b>	
SIP Phone Secur	ity Profile*	Standard SIP Profile for Auto Registration		
Rerouting Calling	) Search Space	< None >	•	
SUBSCRIBE Callir	ng Search Space	< None >		
SIP Profile*		Standard SIP Profile		
Digest User		< None >	-	
🗖 Media Termin	ation Point Requir	- red		
🗆 Unattended F	Port			
C Require DTMF	Reception			
External Data I	ocations Inform	ation (Leave blank to use default)		
Information				
Directory	,			-
			0.0	•
	1		🔒 🔠 Local intranet	
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# Phone Configuration 8 (SIP Phone)

🚰 Phone Configuration - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
		<b></b>
	External Data Locations Information (Leave blank to use default)	
	Directory	
	Messages	
	Services	
	Authentication Server	
	Proxy Server	
	Idle	
	Idle Timer (seconds)	
	Extension Information	
	Enable Extension Mobility	
	Log Out Profile Not Selected	
	Login in User ID < None > Log in Time < None > Log out Time < None >	
	Certification Authority Proxy Function (CAPF) Information	
	Certificate Operation* No Pending Operation	•
	Authentication String	
	Generate String	
	Operation Completes By 2006 : 6 : 22 : 12 (YYYY:MM:	DD:HH)
	Certificate Operation Status: None	
	MLPP Information MLPP Domain < None >	
	Secure Shell Information Secure Shell User	
	Secure Shell Password	
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# Phone Configuration 9 (SIP Phone)

🚰 Phone Configuration - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		11 A
	Certificate Operation Status: None	<pre>2 (YYYY:MM:DD:HH)</pre>
	MLPP Information	
	MLPP Domain < None >	•
	Secure Shell Information	
	Secure Shell User	
	Secure Shell Password	
	Product Specific Configuration Layout	
		?
	Disable Speakerphone	
	Disable Speakerphone and Headset PC Port * Enabled	
	Settings Access* Enabled	
	Gratuitous ARP* Enabled	
	PC Voice VLAN Access* Enabled	
	Video Capabilities* Disabled	
	Auto Line Select* Disabled	
	Web Access* Enabled	
	Span to PC Port* Disabled	
	Logging Display* PC Controlled	•
	Load Server	
- Save Delete Copy Reset Add New		
•- indicates required item.		
*- indicates required item.		
(i) **- Device reset is not required for changes to F	acket Capture Mode and Packet Capture Duration.	
<ul> <li>▲</li> <li>▲</li> </ul>		Local intranet
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# Directory Number Configuration 1 (SCCP Phone)

🚈 Directory Number Configuration - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
Cisco Unified CallManager Administration	
Directory Number Configuration	Related Links: Back To Find/List
Status Status: Ready Note: Changes to Line or Directory Number settings require rest	
Directory Number Information Directory Number* Route Partition Description Alerting Name ASCII Alerting Name  ✓ Allow Control of Device from CTI Associated Devices SEP00124362B4C5	7000 None >   SAT-0-ALT   SAT-0-ALT   Edit Device   Edit Line Appearance
Directory Number Settings Voice Mail Profile < None > Done Start O P P P P Conter - Hy PDirectory Conter Conter - Hy	Choose <none> to use system default)      Coursen ♥Avaya Site ♥Clarinet - M ♥NortelE1QSI</none>



# Directory Number Configuration 2 (SCCP Phone)

🚰 Directory Number Configurati	ion - Microsoft Int	ternet Explorer						_ 8 ×
File Edit View Favorites To	ools Help							
								<b></b>
Directory Number Setting	16							
Voice Mail Profile	< None >		•	(Choose <none></none>	> to use system default)			
Calling Search Space	< None >		•					
Presence Group*	Standard Prese	nce group	•					
AAR Group	< None >		•					
User Hold Audio Source	< None >		•					
Network Hold Audio Source	< None >		•					
Auto Answer*	Auto Answer Of	ff	•					
Call Forward and Call Pic	kup Cottings							
Call Forward and Call Pic	Voice Mail D	estination	Calling 9	earch Space				
Forward All	🗆 or 🗌		< None	>		•		
Secondary Calling Search S	pace for Forwar	rd All	< None	>		•	Find	
Forward Busy Internal	🗆 or 🗌		< None	>		•		
Forward Busy External	□ or □		< None	>		▼		
Forward No Answer Interna	al 🗆 or 🗌		< None	>		•		
Forward No Answer Extern	al 🗆 or 🗌		< None	>		<b>•</b>		
Forward No Coverage Inter	mal 🗆 or 🗌		< None	>		•		
Forward No Coverage Exte	rnal 🗆 or [		< None	>		•		
Forward on CTI Failure	or		< None	>		▼		
No Answer Ring Duration (s	econds)							
Call Pickup Group	< None	e >		•				
MLPP Alternate Party Set	ttings							
Target (Destination)	Ī							
MLPP Calling Search Space	-	< None >		•				
MLPP No Answer Ring Dura	tion (seconds)							-
								Þ
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# Directory Number Configuration 3 (SCCP Phone)

ASCII Line Text Label External Phone Number Mask Message Waiting Lamp Policy Ring Setting (Phone Idle)* Ring Setting (Phone Active) Use System Default Mating Settings on Device SEP00124362B4C5 Note:The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* 4	🖉 Directory Number C	Configuration - Microsoft Int	ernet Explorer				_ 8 ×
Target (Destination)       Image: Control of the space         MLPP Calling Search Space       < None >         MLPP No Answer Ring Duration (seconds)							10 A
MLPP Calling Search Space   MLPP Calling Search Space   MLPP No Answer Ring Duration (seconds)     Line 1 on Device SEP00124362B4C5   Display (Internal   SAT-0   directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.   ACII Display   (Internal Caller ID)   SAT-0   Une Text Label   ASCII Line Text   Label   Rescage Waiting   (Phone Idle)*   Ring Setting   (Phone Idle)*   Note: The range to select the Max Number of calls is: 1-200   Maximum Number of Calls*   Applies to this line when any line on the phone has a call in progress.      Multiple Call/Call Waiting Settings on Device SEP00124362B4C5    Note: The range to select the Max Number of calls is: 1-200   Maximum Number of Calls*   Busy Trigger*   3   Caller Name   Caller Name   Caller Name   Caller Name					-		
MLPP No Answer Ring Duration (seconds)  Line 1 on Device SEP0012436284C5 Display (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) AST-0 Line Text Label ASCII Lin	l Target (Destinatio	n)					
Line 1 on Device SEP0012436284CS         Display (Internal Caller ID)       SAT-0         Uinternal SAT-0       Display text for a line appearance is intended for displaying text such as a name inst 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)       SAT-0         Line Text Label       SAT-0         Label       SAT-0         Wassage Waiting Lamp Dolicy*       Ring         Ring Setting (Phone Idle)*       Ring         Withing Settings on Device SEP0012436284CS         Note:The range to select the Max Number of calls is: 1-200         Maximum Number of Calls*       4         Busy Trigger*       3         Caller Name       Caller Name         Caller Number       Caller Number         Caller Number       Caller Number	MLPP Calling Searc	ch Space	< None >	▼			
Display (Internal Caller ID) SAT-0 Display text for a line appearance is intended for displaying text such as a name inst Caller ID) directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller. SAT-0 (Internal Caller ID) SAT-0 (Internal Calle) (Internal Calle Value (Internal Calle) (Internal Calle Value (Internal Calle) (Internal Calle Value (Internal Calle Internal Calle Internal Caller ID) (Internal Caller ID) (Internation Display on Device SEP00124362B4C5 (Internal Caller Number Caller Number (Internal Caller N	MLPP No Answer R	Ring Duration (seconds)			7		
Display (Internal Caller ID) SAT-0 Display text for a line appearance is intended for displaying text such as a name inst Caller ID) directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller. SAT-0 (Internal Caller ID) SAT-0 (Internal Calle) (Internal Calle Value (Internal Calle) (Internal Calle Value (Internal Calle) (Internal Calle Value (Internal Calle Internal Calle Internal Caller ID) (Internal Caller ID) (Internation Display on Device SEP00124362B4C5 (Internal Caller Number Caller Number (Internal Caller N		L					
Calier (D) Display text for a line appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of the appearance is interacted for displaying text such as a name instruction of text such as a name ins		SEP00124362B4C5		_			
AscII Display (Internal caller ID) SAT-0 Line Text Label ASCIII Line Text Label External Phone Number Mask Message Waiting Lamp Policy* Ring Setting (Phone Idle)* Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note: The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* Busy Trigger* Caller Name Caller Name Call							
ASCII Line Text Label ASCII Line Text Label External Phone Number Mask Message Waiting Lamp Policy* Ring Setting (Phone Idle)* Ring Use System Default Applies to this line when any line on the phone has a call in progress.  Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note: The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* 4 Busy Trigger* 3 Caller Name Caller Name Caller Number Caller Number Dialed Number Dialed Number			ernal calls. If you specify a n	umber, the person rece	eiving a call may no	ot see the proper ide	entity of the caller.
ASCII Line Text Label ASCII Line Text Label External Phone Number Mask Message Waiting Lamp Policy* Ring Setting (Phone Idle)* Ring Use System Default Applies to this line when any line on the phone has a call in progress.  Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note: The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* 4 Busy Trigger* 3 Caller Name Caller Name Caller Number Caller Number Dialed Number Dialed Number	ASCII Display   (Internal Caller ID)	SAT-0					
Label External Phone External Phone Number Mask Message Waiting Lamp Policy Lamp Policy Lamp Policy Ring Setting (Phone Idle)* Ring Setting Use System Default Applies to this line when any line on the phone has a call in progress. (Phone Active) Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note:The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* Busy Trigger* 3 Caller Name Caller Name Caller Number Redirected Number Redirected Number Redirected Number	Line Text Label	, 					
Label External Phone External Phone Number Mask Message Waiting Lamp Policy Lamp Policy Lamp Policy Ring Setting (Phone Idle)* Ring Setting Use System Default Applies to this line when any line on the phone has a call in progress. (Phone Active) Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note:The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* Busy Trigger* 3 Caller Name Caller Name Caller Number Redirected Number Redirected Number Redirected Number	ASCII Line Text			-			
Number Mask Message Waiting Lamp Policy Ring Setting (Phone Idle)* Ring Setting (Phone Active) -Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note: The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* Busy Trigger* Caller Name Caller Name Caller Number Redirected Number Redirected Number	Label						
Message Waiting Lamp Policy* Ring Setting (Phone Idle)* Ring Setting (Phone Active) Use System Default Applies to this line when any line on the phone has a call in progress. -Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note:The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* Busy Trigger* -Forwarded Call Information Display on Device SEP00124362B4C5 Caller Name Caller Number Caller Number Caller Number Caller Number Caller Number							
Lamp Policy* Fing Ring Setting (Phone Idle)* Ring Use System Default Applies to this line when any line on the phone has a call in progress. Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note:The range to select the Max Number of calls is: 1-200 Maximum Number of Calls* Busy Trigger* Caller Name Caller Name Caller Number Redirected Number Dialed Number	Message Waiting	Use System Policy					
(Phone Idle)*     Ring Setting   Use System Default Use System Default Applies to this line when any line on the phone has a call in progress.      •Multiple Call/Call Waiting Settings on Device SEP00124362B4C5 Note: The range to select the Max Number of calls is: 1-200 Maximum Number of Calls*      •Multiple Call Information Display on Device SEP00124362B4C5      •Coller Name   •Coller Number   •Coller Number	Lamp Policy*						
Ring Setting   Use System Default   Applies to this line when any line on the phone has a call in progress.   -Multiple Call/Call Waiting Settings on Device SEP00124362B4C5   Note:The range to select the Max Number of calls is: 1-200   Maximum Number of Calls*   Busy Trigger*   Caller Name   Caller Number   Caller Number   Redirected Number   Dialed Number		Ring	▼				
Multiple Call/Call Waiting Settings on Device SEP00124362B4C5   Note: The range to select the Max Number of calls is: 1-200   Maximum Number of Calls*   Busy Trigger*   3   Forwarded Call Information Display on Device SEP00124362B4C5 © Caller Name © Caller Number © Caller Number © Dialed Number	Ring Setting	Use System Default	<b>•</b>	Annlies to this line wher	n any line on the r	phone has a call in n	roaress.
Note:The range to select the Max Number of calls is: 1-200 Maximum Number of Calls*  Busy Trigger*  Galler Name Caller Name Caller Number Caller Number Dialed Number Dialed Number	(Phone Active)			*F			
Maximum Number of Calls*       4         Busy Trigger*       3         Forwarded Call Information Display on Device SEP00124362B4C5         I Caller Name         I Caller Number         I Caller Number         I Redirected Number         I Dialed Number	⊢Multiple Call/Cal	ll Waiting Settings on De	evice SEP00124362B4C5-				
Busy Trigger*			of calls is: 1-200			_	
Caller Name     Caller Number     Redirected Number     Dialed Number	Maximum Number	of Calls*	4				
<ul> <li>✓ Caller Name</li> <li>✓ Caller Number</li> <li>✓ Redirected Number</li> <li>✓ Dialed Number</li> </ul>	Busy Trigger*		3			(Less than or equa	l to Max. Calls)
<ul> <li>✓ Caller Name</li> <li>✓ Caller Number</li> <li>✓ Redirected Number</li> <li>✓ Dialed Number</li> </ul>							· · · · · · · · · · · · · · · · · · ·
<ul> <li>✓ Caller Number</li> <li>✓ Redirected Number</li> <li>✓ Dialed Number</li> </ul>		Information Display on D	Device SEP00124362B4C5	j			
✓ Redirected Number ✓ Dialed Number							
Dialed Number	Caller Number						
	🗹 Redirected Num	nber					
Save Delete Copy Reset Add New	🗹 Dialed Number						
Save Delete Copy Reset Add New			1				
	- Save Delete C	Copy Reset Add New					
	(i)	1 I I I					• • •
	🙆 Done						🔒 🔠 Local intranet
		🖾 🔲 🦓 Router - Hy 🛙	Directory	🔄 Avava Site 🛛 🙈 Cla	arinet - M   🕅 Norte	E105I	, — , <b>—</b>



# Directory Number Configuration 4 (SIP Phone)

🚰 Directory Number Configuration - Microsoft Internet Explorer	<u>_ 8 ×</u>
File Edit View Favorites Tools Help	1 B
Navigation	Cisco Unified CallManager Admini:
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions	Logged in as:CCM
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻	
Directory Number Configuration Related Links:	Back To Find/List
Status Status: Ready	
Note: Changes to Line or Directory Number settings require restart.	
Directory Number Information	
Directory Number* 7004	
Route Partition	
Description 7004 SIP	
Alerting Name SAT-4-ALT	
ASCII Alerting Name SAT-4-ALT	
Allow Control of Device from CTI	
Associated Devices	
SEP00170EEE3279 Edit Device	
Edit Line Appearance	
Dissociate Devices	
Directory Number Settings           Voice Mail Profile         < None >           Voice Mail Profile         < None >	
(choose < None> to use system default)	
Done	E Cocal intranet
📺 Start 🛛 🛐 📴 🗒 🖉 🦉 Router - Hy 🖗 Directory 🕞 C:\Documen 🕵 Avaya Site 🌘 Clarinet - M 👼 NortelE1QSI	Sector and direct



## **Directory Number Configuration 5 (SIP Phone)**

🚰 Directory Number Configurat	tion - Microsoft Internet Explorer		<u>_ 8 ×</u>
File Edit View Favorites To	iools Help		<b>11</b>
🗢 Back 🔹 🤿 🗸 🙆 🚮	🕲 Search 👔 Favorites 🛞 Media 🎯 🖏 🍜 🗃 🗐		
			<b></b>
Directory Number Setting			
Calling Search Space	<pre><none></none></pre>		
Presence Group*	Standard Presence group		
AAR Group			
User Hold Audio Source	< None >		
Network Hold Audio Source	None >		
Auto Answer*	Auto Answer Off		
Call Forward and Call Pic			
Forward All	Voice Mail Destination         Calling Search Space                or                   Anne >	•	
Secondary Calling Search S		Find	
Forward Busy Internal	□ or	╡	
Forward Busy External	or <a> <a> <a> <a> <a> <a> <a> <a> <a> <a></a></a></a></a></a></a></a></a></a></a>		
Forward No Answer Interna	al 🗆 or 🔤 <a href="https://www.selfacture.com">None &gt;</a>	<ul> <li>▼</li> </ul>	
Forward No Answer Extern	hal 🗆 or State St	•	
Forward No Coverage Inter	-	-	
Forward No Coverage Exte		-	
Forward on CTI Failure		•	
No Answer Ring Duration (s	seconds)	—	
Call Pickup Group	< None >		
MLPP Alternate Party Set Target (Destination)	ettings		
Done		🔒 選 Local intran	<del>نت</del> t
	🍓 Ro 🛛 🖗 Cla 🖗 Nor 🖓 unti 🥥 nor 🖗 Dir 🔯 Ci\ 🖗 Qsi 👼 Nor	<u>∢</u> :∎ <u>V2</u> ♥	2:04 PM



## **Directory Number Configuration 6 (SIP Phone)**

Directory Number (	Configuration - Microsoft Ir	nternet Explorer			
File Edit View Fa	avorites Tools Help				11 (I)
				_	
Target (Destinatio	in)				
MLPP Calling Sear	ch Space	< None >	▼		
MLPP No Answer F	Ring Duration (seconds)				
		,			
	e SEP00170EEE3279-				
Display (Internal Caller ID)	SAT-4				r displaying text such as a name inst
ASCII Display		ternal calls. If you spe	cify a number, the person rece	eiving a call may not see the	e proper identity of the caller.
(Internal Caller ID	) SAT-4				
Line Text Label	SAT-4				
ASCII Line Text	SAT-4				
Label External Phone	[				
Number Mask					
Message Waiting Lamp Policy*	Use System Policy		•		
Ring Setting	Ring		•		
(Phone Idle)*					
Ring Setting (Phone Active)	Use System Default		Applies to this line whe	n any line on the phone ha	s a call in progress.
	II Waiting Settings on I o select the Max Number		3279		
Maximum Number		4			
Busy Trigger*		4			
bas, mggor		<u>[1</u>		(Less th	nan or equal to Max. Calls)
Forwarded Call	Information Display on	Device SEP00170EE	E3279		
🗹 Caller Name	. ,				
Caller Number					
Redirected Nur	nber				
🛛 🗹 Dialed Number					
- Save Delete (	Copy Reset Add New	·			
(i).					
Done					Local intranet
🛃 Start 🛛 🗹 💽 🎗	🖾 🗾 🎆 🦉 Router - Hy		Documen 🙀 Avaya Site 🛛 🟟 Cla	arinet - M 🛛 👼 NortelE1QSI	
Selacar 🗋 🖂 🛜 🖇		Purectory			🔨 🖉 🔽 🕜 🛛 10:09 AM



#### **Route Pattern Configuration 1**

🎒 Find ar	nd List Ro	ute Patter	'ns - Micr	osoft Inte	ernet Explorer										_ 8 ×
File Edi	t View	Favorites	Tools	Help											-
												Navigat	ion Cisco	Unified CallManage	er Admini:
Cisc	o Uni	fied C	əllMə	ngaar	Administ	ratio	<b>n</b>	- 10 -	<b></b>			-	,	Logged in	
											olutions				as.ccivi
		-		ources 🔻	Voice Mail 🔻	Device 🔻	Application	- Use	er Management 🤸	<ul> <li>Bulk Adr</li> </ul>	ninistration 👻	Help 👻			
		ute Patto	erns												
	<b>X</b>														
Statu															
🛈 7 re	cords fo	und													
Searc	h Optio	ns ———													
Find Ro	ute Patt	erns whe	ere Patt	ern 💽	begins with	•			Find	Search W	/ithin Resu	lts			
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Searc	h Result	ts													
_	Patterr	ı			Description		Partition		Route Filter		Associate		45 141 F		
	22XX										<u>51/501/L</u>	) <u>S1-0@38</u>	45 West		
	2444 25XX										e1/e111/m	)S1-0@38	45 Wort		
	52XX											)S1-0@38			
	5444										<u>32/300/L</u>	/01-0(@00	10 11030		
	8.2										S1/SU1/E	)S1-0@38	45 West		
												)S1-0@38			
	dd New	Select		lear All	Delete Sele	ected		- D	e 50 💌						
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<b>Start</b>	] 🔟 🖸	3 🖪 💆	]_ <b>%</b> Ro	uter - Hy	Find and Li	<u> </u>	Documen	<b>%</b> Avay	a Site 🖣 C	larinet - M	NortelE	1Q5I		📢 💷 🔽 💟	10:13 AM



## Route Pattern Configuration 2 (ENBLOC Mode)

Route Pattern Configuration - Microsoft Internet Explorer
ile Edit View Favorites Tools Help
Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions Logged in as: CCM
pute Pattern Configuration Related Links: Back To Fin
Status
Pattern Definition
Route Partition <pre></pre>
Description
Numbering Plan Not Selected
Route Filter
ALPP Precedence* Default
Gateway/Route List * S1/SU1/DS1-0@3845_West 💌 (Edit) Find
Route Option   Route this pattern
O Block this pattern No Error
Call Classification* OffNet
🗆 Allow Device Override 🗆 Provide Outside Dial Tone 🔲 Allow Overlap Sending 🗖 Urgent Priority
Require Forced Authorization Code
Authorization Level*
🗆 Require Client Matter Code
Calling Party Transformations
Use Calling Party's External Phone Number Mask
Calling Party Transform Mask
Profix Dinite (Autoping Calle)
Done
🚯 Start 🛛 🖄 📴 🖳 🚆 🖉 🇞 Router - Hy 🖗 Route Patt 🔄 C:\Documen 🕵 Avaya Site 🖗 Clarinet - M 🗐 NortelE1QSI 🤄 🖞 10:10 AM



## Route Pattern Configuration 3 (ENBLOC Mode)

🚰 Route Pattern Configuration - Microsoft Internet Explorer	- 8 ×
File Edit View Favorites Tools Help	-
Allow Device Overnue Conside Dial Tone C Allow Overlap Sending C Orgent Priority      Require Forced Authorization Code      Authorization Level*     O     Require Client Matter Code	
Calling Party Transformations Use Calling Party Transform 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	
Called Party Transform Mask       Prefix Digits (Outgoing Calls)	
ISDN Network-Specific Facilities Information Element         Network Service Protocol         Not Selected         Carrier Identification Code	
Network Service     Service Parameter Name     Service Parameter Value       Not Selected       Not Exist >	
Save       Delete       Copy       Add New         Image: the state indicates required item.       Image: the state item.       Image: the state item.	_
۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	
🔮 Done	
😹 Start 🛛 🖄 📴 🖳 🗍 🍓 Router - Hy 🖗 Route Patt 🔄 C:\Documen 🕵 Avaya Site 🖗 Clarinet - M 🖄 NortelE 1 QSI	10 AM



## Route Pattern Configuration 4 (ENBLOC Mode)

🚰 Route Pattern Configuration - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	and the second se
	Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions	Logged in as:CCM
System ▼ Call Routing ▼ Media Resources ▼ Voice Mail ▼ Device ▼ Application ▼ User Management ▼ Bulk Administration ▼	
Route Pattern Configuration	Related Links: Back To Fin
i Status: Ready	
└── └─ Pattern Definition ────────────────────────────────────	
Route Pattern* 52XX	
Route Partition < None >	
Description	
Numbering Plan Not Selected	
Route Filter	
MLPP Precedence* Default	
Gateway/Route List * S2/SU0/DS1-0@3845_West V (Edit) Find	
Route Option  © Route this pattern	
O Block this pattern No Error	
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)	
	E Local intranet
ど Done   <b>劉Start</b>     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , , , , , , , , , , , , , , , , , , ,
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## Route Pattern Configuration 5 (ENBLOC Mode)

🗿 Route Pattern Configuration - Microsoft Internet Explorer	<u>_ 8 ×</u>
File Edit View Favorites Tools Help	1
Allow Device Overnue - Provide Data Fone - Allow Overlap Sending - Orgent Phonty      Require Forced Authorization Code      Authorization Level*	-
Calling Party Transformations Use Calling Party's External Phone Number Mask Calling Party Transform Mask Prefix Digits (Outgoing Calls) Calling Line ID Presentation* Default Calling Name Presentation* Default Connected Party Transformations Connected Line ID Presentation* Default Connected Line ID Presentation* Connected News Presentation* Default Connected News Presentation* C	_
Connected Name Presentation* Default	
ISDN Network-Specific Facilities Information Element         Network Service Protocol       Not Selected         Carrier Identification Code	
Not Selected     Save Delete Copy Add New	
<ul> <li>*- indicates required item.</li> <li>Done</li> </ul>	• •
🏽 🟦 Start 🛛 🖄 🔯 🖳 🚆 🖉 🇞 Router - Hy 🖗 Route Patt 😋 C:\Documen 🕵 Avaya Site 🌘 Clarinet - M 👼 NortelE1QSI	10:34 AM



## Route Pattern Configuration 6 (OVERLAP Mode)

🚰 Route Pattern Configuration - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
	Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions	Logged in as:CCM
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration	✓ Help ▼
Route Pattern Configuration	Related Links: Back To Fin
Status Status: Ready	
- Pattern Definition	
Route Pattern* \$.2	
Route Partition < None >	
Description	
Numbering Plan Not Selected	
Route Filter	
MLPP Precedence*	
Gateway/Route List * S1/SU1/DS1-0@3845 West ▼ (Edit) Find	
Route Option  © Route this pattern	
O Block this pattern No Error	
Call Classification* OffNet	
🗌 Allow Device Override 🗌 Provide Outside Dial Tone 🗹 Allow Overlap Sending 🔲 Urgent Priority	
Require Forced Authorization Code	
Authorization Level*	
Require Client Matter Code	
Calling Party Transformations	
🗌 Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	
Prefiv Dinits (Outoning Calls)	×
Cone	🕒 🔠 Local intranet
🏽 Start 🛛 🖄 📴 📕 🗍 🍓 Router - Hy 🖗 Route Patt 🔄 C:\Documen 🗐 Avaya Site 🖗 Clarinet - M 🖗 Nortel	E1Q5I



# Route Pattern Configuration 7 (OVERLAP Mode)

🖉 Route Pattern Configuration - Microsoft Internet Explorer	_ 8 ×
File Edit View Favorites Tools Help	1
Laliow Device Overnue El Provide Odiside Dial Tone Maliow Overlap Sending El Orgent Phonicy	
Authorization Level*	
Require Client Matter Code	
Calling Party Transformations	
🗆 Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	
Prefix Digits (Outgoing Calls)	
Calling Line ID Presentation* Default	
Calling Name Presentation* Default	
Connected Party Transformations	
Connected Line ID Presentation* Default	
Connected Name Presentation* Default	
Called Party Transformations	
Discard Digits PreDot	
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	
ISDN Network-Specific Facilities Information Element	
Carrier Identification Code	
Network Service Parameter Name Service Parameter Value	
Not Selected	
- Save Delete Copy Add New	_
(i) *_ indicates required item	
U *- indicates required item.	
	▼ ►
🙆 Done	
	:35 AM

#### **Connected Name and Number Restriction 1**

Translation Pattern for Incoming Calls

🚰 Translation Pattern Configuration - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
	Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions	Logged in as:CCM
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻	Help 👻
Translation Pattern Configuration	Related Links: Back To Fin
Status Status: Ready	
Pattern Definition	
Translation Pattern 709X	
Partition < None >	
Description	
Numbering Plan < None >	
Route Filter < None >	
MLPP Precedence* Default	
Calling Search Space < None >	
Route Option 💿 Route this pattern	
O Block this pattern No Error	
🗹 Provide Outside Dial Tone 🖾 Urgent Priority	
Calling Party Transformations	
Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	
Prefix Digits (Outgoing Calls)	
Calling Line ID Presentation* Default	
Calling Name Presentation* Default	
Connected Party Transformations	<b>_</b> _
Done	Local intranet
🏽 🛐 Start 🛛 🔯 🔯 🖳 🚆 🗍 👰 Router - Hy 🖗 Translatio 💁 C:\Documen 🕵 Avaya Site 🖗 Clarinet - M 👰 NortelE	1Q5I 🥂 🖉 🔽 🕅 10:37 AM



### **Connected Name and Number Restriction 2**

#### Translation Pattern for Incoming Calls

Translation Pattern Co	onfiguration - Microsoft Internet Explorer		_8 ×
File Edit View Favorit	tes Tools Help		18
1 GICKICHI	I < Mous >		
Description			
Numbering Plan	< None >		
Route Filter	< None >		
MLPP Precedence*	Default		
Calling Search Space	< None >		
Route Option	Route this pattern		
	C Block this pattern No Error		
Provide Outside D	Dial Tone 🕅 Urgent Priority		
Calling Party Transf	formations		
Use Caling Party	's External Phone Number Mask		
Calling Party Transfor	rm Mask		
Prefix Digits (Outgoin	ng Calls)		
Calling Line ID Preser	ntation* Default		
Calling Name Present	tation* Default		
Connected Party Tr	ransformations	- (	
Connected Line ID Pr	resentation* Restricted	Connected Name and	d
Connected Name Pre-	sentation* Restricted	Number Restriction	
Called Party Transf	formations		- =
Discard Digits	< None >		
Called Party Transform	m Mask 700X		
Prefix Digits (Outgoin	og Calls)		
- Save Delete Copy	y Add New		
(i) *- indicates requi	ired item.		
			-
4			•
<ul> <li>Done</li> </ul>		🕒 🔠 Local intra	net
🏨 Start 🛛 😭 🛄 🔄	🧾 🛛 🇞 Router - Hy 🕼 Translatio 🖄 C: Documen 💱 Avaya Site 🖗 Clarinet - M 🕅 NortelE	tQSI 📳 Document3 🛛 🍕 📆 🟹 👸	10:37 AM



#### Calling Name and Number Restriction 1

🗿 Route Pattern Configuration - Microsoft Internet Explorer	BX
File Edit View Favorites Tools Help	1
Navigation Cisco Unified CallManager Adr	nini
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions Logged in as: C	СМ
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻	
Route Pattern Configuration Related Links: Back To	Fin
Status i Status: Ready	_
Pattern Definition Route Pattern* 22XX	-
Route Partition < None >	
Description	
Numbering Plan Not Selected	
Route Filter	
MLPP Precedence* Default	
Gateway/Route List * S1/SU1/DS1-0@3845_West - (Edit) Find	
Route Option   Route this pattern	
O Block this pattern No Error	
Call Classification* OffNet	
🗆 Allow Device Override 🗖 Provide Outside Dial Tone 🗖 Allow Overlap Sending 🗖 Urgent Priority	
Require Forced Authorization Code	
Authorization Level* 0	
Require Client Matter Code	
Calling Party Transformations	
Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	-
Profiv Dinite (Outnoing Calle)	▶
🙆 Done	
😹 Start 🛛 🗹 🔯 🖳 🗒 🛛 🥙 Router - Hy 🖗 Route Patt 🔄 C:\Documen 🖗 Avaya Site 🖗 Clarinet - M 👼 NortelE1QSI 👼 Document3 🛛 🍕 🕮 🔽 💟 10:4	0 AM



#### Calling Name and Number Restriction 2

🚰 Route Pattern Configuration - Microsoft Internet Explorer	<u>_ 8 ×</u>
File Edit View Favorites Tools Help	10 A
Laliow Device Overnue La Provide Odiside Dial Tone La Aliow Overlap Sending La Orgeni, Phonicy	
Require Forced Authorization Code	
Authorization Level* 0	
🗆 Require Client Matter Code	
Calling Party Transformations	
🗆 Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	
Prefix Digits (Outgoing Calls)	
Calling Line ID Presentation* Restricted	
Calling Name Presentation* Restricted	
Connected Party Transformations	
Connected Line ID Presentation* Default	
Connected Name Presentation* Default	
Called Party Transformations	
Discard Digits <a href="https://www.example.com">None &gt;</a>	
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	
└── └─ ISDN Network-Specific Facilities Information Element	
Network Service Protocol Not Selected	
Carrier Identification Code	
Network Service Service Parameter Name Service Parameter Value	
Not Selected  Vot Exist >	
- Save Delete Copy Add New -	
indicates required item.	
	-
🔮 Done 🔒 🖉 Local intranet	
🚓 Start 🛛 🖄 🖳 🚆 🗍 🇞 Router - Hy 🖗 Route Patt 🔄 C:\Documen 🕵 Avaya Site 🏟 Clarinet - M 👼 NortelE 1 QSI 👰 Document 3 🍕 👰 🔽 💟	10:40 AM



## Call Forward on Busy and No Reply 1

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File Edit	View	Favorite	es Tool	s Help								<b>1</b>
										Navigation Cisco Un	ified CallManage	er Admini: 📤
Cisco	) Uni	fied	CallN	1anagei	r Admini	stratior	l For Cisco	IP Telecommunic	ation Solutions		Logged in	as:CCM
System 👻	Call R	outing 👻	Media	Resources 👻	Voice Mail 🔻	Device 👻	Application 👻	User Management 👻	Bulk Administration 👻	Help 👻		
Directory	v Numl	oer Con	figurat	ion						Related Links: Back To	Find/List	
	PP											
Status Giratu	s: Rea	dy										
Note: Ch	anges	to Line	or Dire	ctory Numb	er settings	require rest	tart.					
Directo			nforma	tion ——								
Directory	-						7000					
Route Pa	artitior	1					< None >		•	•		
Descript	ion											
Alerting	Name						SAT-0-ALT					
ASCII A	erting	Name					SAT-0-ALT					
Allow	Contr	ol of De	evice fro	m CTI								
			Associa	ated Device	es		1					
SEP001	243628	B4C5					Edit Devi					
							Edit Li	ne Appearance				
				~ ~								
				• •• iate Device	s							
							1					
Directo			ettings					_				
Voice Ma	ail Prof	le	•	< None >				🚽 (Choose <none< td=""><td>e&gt; to use system d</td><td>efault)</td><td></td><td><b>~</b> </td></none<>	e> to use system d	efault)		<b>~</b>
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<b>Start</b>	🗹 🕻	3 🗷 🖁	🧕 🛛 🭳	Router - Hy	. 🦉 Directo	ry 🔄 🖯	\Documen	Avaya Site 🏼 🏟 Cla	rinet - M 🛛 💇 NortelE	1Q5I	📢 : 💷 🔽 💟	10:42 AM



## Call Forward on Busy and No Reply 2

🚰 Directory Number Configurat	ion - Microsoft I	Internet Explorer						_ 8 ×
File Edit View Favorites T	ools Help							<b>1</b>
								<b>_</b>
Directory Number Settin								
Voice Mail Profile	<pre>vs </pre>		Choo	se <nones td="" to<=""><td>use system default)</td><td></td><td></td><td></td></nones>	use system default)			
Calling Search Space	<pre></pre>		(chicd.		aso system acroaic,			
Presence Group*	Standard Pres	sence group						
AAR Group	<pre></pre>		•					
User Hold Audio Source	< None >		•					
Network Hold Audio Source	e < None >		•					
Auto Answer*	Auto Answer	Off	•					
Call Forward and Call Pie		Destination	Calling Search	Space				
Forward All	🗆 or		< None >			•		
Secondary Calling Search S	Space for Forw	ard All	< None >			•	Find	
Forward Busy Internal	🗖 or	2216	< None >			•		
Forward Busy External	🗆 or	2216	< None >			•		
Forward No Answer Intern	al 🗆 or	2216	< None >			•		
Forward No Answer Extern	ial 🗆 or	2216	< None >			•		
Forward No Coverage Inte	rnal 🗖 or		< None >	-		•		
Forward No Coverage Exte	ernal 🗖 or		< None >			•		
Forward on CTI Failure	🗆 or		< None >			•		
No Answer Ring Duration (:	seconds)							
Call Pickup Group	< No	ne >		]				
	ttings							
MLPP Calling Search Space		<pre></pre>		-				
MLPP No Answer Ring Dura	ition (seconds)	1						-
•								
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## Call Forward on Busy and No Reply 3

Directory Number C	onfiguration - Microsoft I	nternet Explorer					_ 5	Ι×
File Edit View Fav	vorites Tools Help							
MLPP Alternate F							1	
Target (Destination								
MLPP Calling Searc	ch Space	< None >		▼				
MLPP No Answer R	ing Duration (seconds)				-			
L								-
Line 1 on Device	SEP00124362B4C5-			1				-
Caller ID)	SAT-0					intended for displaying te		;t)
ASCII Display		iternal calls. If you	specify a nu	Imber, the person rece 1	eiving a call may	y not see the proper ident	ity of the caller.	
(Internal Caller ID)	SAT-0							
Line Text Label								
ASCII Line Text								
Label External Phone				1				
Number Mask								
Message Waiting Lamp Policy*	Use System Policy		•					
Ring Setting	Ring		•					
(Phone Idle)*								
Ring Setting (Phone Active)	Use System Default		<b>–</b> A	pplies to this line whe	n any line on th	ne phone has a call in prog	iress.	
								-
	I Waiting Settings on I select the Max Number		362B4C5-					
Maximum Number			4					
Busy Trigger*								
busy mgger		I	3			(Less than or equal to	) Max. Calls)	
— Forwarded Call I	nformation Display on	Device SEP0012	43628405					
Caller Name	inormation Dispity on							
Caller Number								
Redirected Num	ıber							
Dialed Number								
								-
— Save Delete C	opy Reset Add New	/						-
<u>_</u>	1.1.1							_
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					Nav	igation Cisco Unified Call	Manager Admini 📤
Cisco	Unified C	allManager	Administratio	<b>n</b> For Cisco IP Telecomn	nunication Solutions	Loga	ged in as:CCM
System 👻	Call Routing 👻	Media Resources 👻	Voice Mail 👻 Device 👻	Application 👻 User Manageme	ent 👻 Bulk Administration 👻 Help	•	
Service Pa	arameter Conf	figuration				Related Links: Parar	meters for All S
🔒 🤣	e,						
Status -	:: Ready						
Select S	erver and Sei						
Server		RN (Active) Manager (Active)		•			
	1	- · · · ·	server except parame	ters that are in the Cluster	wide group(s).		
Cisco Ca	allManager (A	ctive) Parameter	rs on server CM-SAT	URN (Active)			
Paramet	er Name		Pa	rameter Value		Suggested Value	
	all Throttling –						
	ellow Entry Lat		20			20	
Code Ye	ellow Exit Later	ncy Calculation *	40			40	
Code Ye	ellow Duration	*	9999	99	·	<b>-</b> 99999	
Max Eve	ents Allowed *		2000			2000	
<u>System</u>	Throttle Samp	e Size *	10			10	
System	n						
	abled Flag_*		Fals	e		▼ False	
CDR Loc	a Calls with Zei	ro Duration Flag *	Fals	e		▼ False	
Digit Ana	alysis Complex	ity_*	Star	IdardAnalysis		<ul> <li>StandardAnalysis</li> </ul>	
Databas	se Debounce T	imer *	0		-		<b>•</b>
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IN CHADIBUTTING	False	
R Log Calls with Zero Duration Flag *	False	False
it Analysis Complexity *	StandardAnalysis	<ul> <li>StandardAnalysis</li> </ul>
tabase Debounce Timer_*	0	0
ximum Phone Fallback Queue Depth *	10	10
ximum Number of Registered Devices_*	5000	5000
ere are hidden parameters in this group. Click on A	dvanced button to see hidden parameters.	
DL Trace		
<u>L Trace Data Flags</u> *	0x00000111	0×00000111
L Trace Flush Immediately *	True	▼ True
<u>L Trace Data Size</u> *	0	0
L Trace Flag *	True	True
L TraceType Flags_*	0x8000EB15	0×8000EB15
L XML Trace Flag.*	False	▼ False
ere are hidden parameters in this group. Click on A	dvanced button to see hidden parameters.	
usterwide Parameters (Device - General)		
Il Diagnostics Enabled *	Disabled	<ul> <li>Disabled</li> </ul>
New Call Accept Timer_*	4	4
<u>Generate Digits Interval</u> *	250	250
<u>Dial Digits Interval</u> *	250	250
ain Media on Disconnect with PI for Active Call.*	False	▼ False
tion and Backup Server KeepAlive Interval.*	60	60
tion KeepAlive Interval.*	30	30
tus Enquiry Poll Flag *	False	False
p # Sign from Called Party Number.*	True	True
	Time	
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ation KeepAlive Interval *		30
	30	
atus Enquiry Poll Flaq *	False	False
rip # Sign from Called Party Number *	True	True
<u>01 Timer</u> *	180000	180000
02 Timer *	15000	15000
<u>03 Timer</u> *	4000	4000
<u>04 Timer</u> *	30000	30000
05 Timer_*	30000	30000
06 Timer_*	30000	30000
<u>08 Timer</u> *	4000	4000
<u>09 Timer</u> *	90000	90000
10 Timer *	60000	60000
<u>13 Timer</u> *	4000	4000
<u>16 Timer</u> *	120000	120000
<u>17 Timer</u> *	100000	100000
<u>21 Timer</u> *	30000	30000
<u>22 Timer_*</u>	4000	4000
ne on Hold Timer_*	10	10
known Caller ID Flag.*	True	True
Il Classification.*	OffNet	✓ OffNet
ere are hidden parameters in this group. Click	on Advanced button to see hidden parameters.	
lusterwide Parameters (Device - Phone)—		
<u>ways Use Prime Line</u> *	False	▼ False
vays Use Prime Line for Voice Message *	Falco	False



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Clusterwide Parameters (Device - Phone)	•	
Iways Use Prime Line *	False	False
Iways Use Prime Line for Voice Message *	False	False
uiltin Bridge Enable_*	Off	Off
uto Answer Timer.*	1	1
xtension Display on Cisco IP Phone Model 7910 *	False	False
lternate Idle Phone Auto Answer Behavior *	False	False
old Type *	False	False
ne State Update Enabled *	True	True
ff-hook to First Digit Timer_*	15000	15000
verride Auto Answer If Speaker Is Disabled *	True	True
ut-of-Bandwidth Text_*	Not Enough Bandwidth	Not Enough Bandwidth
orced Authorization Code Prompt Text *	Enter Authorization Code	Enter Authorization Code
lient Matter Code Prompt Text *	Enter Client Matter Code	Enter Client Matter Code
AR Network Congestion Rerouting Text.*	Network Congestion. Rerouting.	Network Congestion. Rerouting.
ing Setting of Busy Station Policy *	Only Apply Ring Setting of Busy Station When Incoming Call Arri	┘ Only Apply Ring Setting of Busy S
ansfer On-hook Enabled.*		Incoming Call Arrives
ing Setting of Busy Station *	False	1
ing Setting of Idle Station *	Ring T	
ivacy Setting *	True	1 -
IP Station KeepAlive Interval *	120	120
IP Station Realm *		comsipline
peed Dial Await Further Digits *	False	
isplay CTI Route Point Name or DN *		False
	raise	



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SIP Station Realm *	ccmsipline	ccmsipline
Speed Dial Await Further Digits *	False	▼ False
Display CTI Route Point Name or DN.*	False	▼ False
There are hidden parameters in this group. Click on Ac	lvanced button to see hidden parameters.	
Clusterwide Parameters (Device - PRI and MGCP G	ateway)	
Calling Party Number Screening Indicator.*	CallManager sets the screening indicator value - Default setting	CallManager sets the screening indi- - Default setting
Clear Calls Flag When Datalink Is Down *	True	▼ True
Device Status Poll Interval.*	3000	3000
Disable Alerting Progress Indicator *	False	▼ False
Discard Non Inband Progress in Overlap Sending *	False	▼ False
Disable Resume from Shared-line MGCP FXS Port *	True	▼ True
DTMF Silence Tone Flag *	False	▼ False
Enable Display IE in Codeset 6 *	False	▼ False
Enable Sending PRI NI2 Service Message *	False	▼ False
Flash Hook Duration_*	500	500
Gateway Poll Timer.*	10	10
Location In PRI Progress Indicator IE (User Side Only)	Vise the Network Side PRI progress indicator IE	▼ Use the Network Side PRI progress
Matching Calling Party with Attendant Flag *	False	▼ False
MGCP Database Query Delay Timer *	1000	1000
MGCP FXS On-Hook Pending Timer *	3	3
MGCP Response Timer *	30	30
MGCP Timer *	3	3
Numbering Plan Info_*	1	1
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$\square$	MGCP Response Timer_*	30	30
	MGCP Timer.*	3	3
	Numbering Plan Info_*	1	1
	Overlap Receiving Flag for PRL*	True 💌	True
	Port Release Timer *	0	0
	SMDI Call Delay Timer *	0	0
	<u>Stable in State 4 Flag *</u>	False	False
	Suppress Out-of-Channels Alarms *	True 💌	True
	<u>I-Frame Timer</u> *	2000	2000
	<u>User-to-User IE Status</u> *	False	False
	Convert European Progress Message to Alerting *	False	False
	Enable DMS PRI Notify Message from User to Network.*	True	True
	There are hidden parameters in this group. Click on Adv	anced button to see hidden parameters.	
Ir	- Clusterwide Parameters (Device - H323)	r	
	Accept Unknown TCP Connection_*	False 💌	False
	BRQ Enabled *	False 💌	False
	<u>Call Present Disconnect Flag</u> *	False 💌	False
	H225 Block Setup Destination.*	False 💌	False
	H225 DB Retry Timer.*	0	0
	H225 Device Connect Timer *	0	0
	H225 DTMF Duration.*	100	100
	H225 TspReg Retry *	2	2
	H225 Intercluster Call Throttle Timer *	30 💌	30
	H225 T301 Timer *	180000	180000
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H225 TspReq Retry *	2	2
1225 Intercluster Call Throttle Timer *	30	▼ 30
<u> 1225 T301 Timer *</u>	180000	180000
1225 T302 Timer_*	15000	15000
1225 T303 Timer_*	4000	4000
1225 T304 Timer_*	30000	30000
1225 T305 Timer_*	30000	30000
1225 T310 Timer_*	60000	60000
1225 TCP Timer *	5	5
1245 TCS Timeout.*	10	10
1323 Calling Party Number Screening Indicator.*	Calling number screened and passed	Calling number screened and pase
one on Connect.*	False	▼ False
AS ARO Timer.*	3	3
AS BRO Timer.*	3	3
AS DRQ Timer.*	3	3
AS RRQ Timer_*	3	3
as URQ Timer_*	3	3
etry Count for ARQ_*	2	2
letry Count for BRQ_*	2	2
Retry Count for DRO_*	2	2
Retry Count for RRQ.*	2	2
Retry Count for URO *	1	1
Send Product ID and Version ID *	False	▼ False
iend Progress Timer_*	3000	3000
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Service Parameter Configuration - Microsoft Internet Explore	ar de la constante de la const	_8
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Retry Count for URO *	1	1
Send Product ID and Version ID *	False 💌	False
Send Progress Timer_*	3000	3000
Send H225 User Info Message *	User Info for Call Progress Tone	User Info for Call Progress Tone
Status Enquiry Poll Timer_*	10000	10000
Device Name of GK-controlled Trunk That Will Use Port 1720 *	None	None
Host Name/IP Address of GK That Will Use RAS UDP Port 1719 *	None	None
Fail Call If MTP Allocation Fails *	False	False
There are hidden parameters in this group. Click on Ad	vanced button to see hidden parameters.	
Clusterwide Parameters (Device - SIP)		
Retry Count for SIP Bye *	10	10
Retry Count for SIP Cancel.*	10	10
Retry Count for SIP Invite *	6	6
Retry Count for SIP PRACK *	6	6
Retry Count for SIP Rel1XX *	10	10
Retry Count for SIP Response *	6	6
SIP Connect Timer *	500	500
SIP Disconnect Timer_*	500	500
SIP Expires Timer *	180000	180000
SIP PRACK Timer_*	500	500
SIP Rel1XX Timer *	500	500
SIP Trying Timer_*	500	500
SIP Rel1XX Enabled *	False	False
1000 M 0514 . *	· · · · · · · · · · · · · · · · · · ·	
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IP Trying Timer *		500
	500	
P Rel1XX Enabled.*	False	▼ False
P Min-SE Value_*	1800	1800
PS URI Handling_*	Reject	Reject
P statistics Periodic update Timer *	2	2
P Session Expires Timer *	1800	1800
P Trunk TspReg Retry *	2	2
lusterwide Parameters (Feature - General)—		
III Park Display Timer_*	10	10
all Park Reversion Timer_*	60	60
aximum Call Duration Timer.*	720	720
aximum Hold Duration Timer_*	360	360
rty Entrance Tone_*	True	True
ppress MOH to Conference Bridge_*	True	True
essage Waiting Lamp Policy_*	Primary Line - Light and Prompt	Primary Line - Light and Prompt
essage Waiting Indicator Inbound Calling Search ace	<pre>None &gt;</pre>	•
Iltiple Tenant MWI Modes_*	False	▼ False
VI Non Message Center Signaling Call Duration	* 0	0
essage Waiting Indicator APDU Digit Translation	CSS < None >	<b>_</b>
ock OffNet To OffNet Transfer_*	False	▼ False
op Ad Hoc Conference *	Never	Vever
lusterwide Parameters (Feature - Forward)— rward Maximum Hop Count *		12
	12	12
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rap Ad Hos Conference.*	Never	Vever
Clusterwide Parameters (Feature - Forward	)	
prward Maximum Hop Count *	12	12
orward No Answer Timer.*	12	12
ax Forward Hops to DN *	12	12
atain Forward Information	False	
rward By Reroute Enabled.*	False	False Set TRUE to enable
ansform Forward by Reroute Destination *	True	True Forward by Reroute
ways Forward Switch Voice Mail Calls *	True	True
orward By Reroute T1 Timer.*	10	10
dude Original Called Info for Q.SIG Call Divers	sions.* Only after the first diversion	Only after the first diversion
here are hidden parameters in this group. Clic	k on Advanced button to see hidden parameters.	_
Clusterwide Parameters (Feature - Call Pick	up)	
uto Call Pickup Enabled *	False	▼ False
all Pickup Locating Timer.*	1	1
all Pickup No Answer Timer.*	12	12
lusterwide Parameters (Feature - Refer)		
alidate Refer-to URL *	Validate Except for Anonymous Users	<ul> <li>Validate Except for Anonymous Us</li> </ul>
lusterwide Parameters (Feature - Replaces	5)	
ock OffNet To OffNet Replaces.*	False	
lusterwide Parameters (Feature - Redirect	ion [3xx])	
adirection Ring No Answer Reversion Timer.*	24	24
aximum Redirection Count	70	70
	d Daves daaraa and Daves and the V	



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edirection Ring No Answer Reversion Timer *	24	24
laximum Redirection Count.*	70	70
Clusterwide Parameters (Feature - Multilevel P	recordence and Preemption)	
ocations-based MLPP Enable.*	False	- False
xecutive Override Call Preemptable.*	False	False
Clusterwide Parameters (Feature - Path Replac	ement)	
ath Replacement Enabled.*	False	False
ath Replacement on Tromboned Calls.*	True	True enable Path
tart Path Replacement Minimum Delay Time.*	D	Replacement
tart Path Replacement Maximum Delay Time.*	D	0
ath Replacement T1 Timer *	30	30
ath Replacement T2 Timer.*	15	15
ath Replacement PINX ID	6009	
ath Replacement Calling Search Space	< None >	<u> </u>
Clusterwide Parameters (Feature - Call Back)-		Call Back
all Back Enabled Flag.*	True	True Parameters
all Back Notification Audio File Name.*	CallBack.raw	CallBack.raw
onnection Proposal Type *	Connection Retention	Connection Retention
onnection Response Type *	Default to Connection Retention	<ul> <li>Default to Connection Retention</li> </ul>
all Back Request Protection T1 Timer.*	10	10
all Back Recall T3 Timer.*	10	20
all Back Calling Search Space	< None >	•
o Path Reservation.*	True	True
et Private Numbering Plan for Call Back *	False	▼ False
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all Back Calling Search Space	< None >	•	
lo Path Reservation_*	True	▼ True	
et Private Numbering Plan for Call Back *	False	▼ False	
Clusterwide Parameters (Route Plan)			
top Routing on Out of Bandwidth Flag *	False	▼ False	
top Routing on Unallocated Number Flag *	True	True	
top Routing on User Busy Flag *	True	True	
Clusterwide Parameters (Hunt List)			
top Hunting on Out of Bandwidth Had."	False	▼ False	
Clusterwide Parameters (Service) efault Network Hold MOH Audio Source ID *	L	1	
	1		
efault User Hold MOH Audio Source ID_*	1	1	
uplex Streaming Enabled *	False	▼ False	
laximum Ad Hoc Conference_*	4	4	
laximum MeetMe Conference Unicast *	4	4	
edia Exchange Interface Capability Timer *	8	8	
edia Exchange Timer_*	12	12	
edia Exchange Stop Streaming Timer *	8	8	
edia Resource Allocation Timer_*	12	12	
ntercluster Capabilities Mismatch Timer *	1000	1000	
ilence Suppression *	False	▼ False	
ilence Suppression for Gateways *	False	▼ False	
trip G.729 Annex B (Silence Suppression) from apabilities_*	False	▼ False	
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mence suppression	False	<b>_</b>	Faise
Silence Suppression for Gateways *	False	•	False
Strip G.729 Annex B (Silence Suppression) from Capabilities_*	False	•	False
Clusterwide Parameters (System - General)			
Always Use Dial Tone Setting *	Default	•	Default
Max Simultaneous Cisco CallManager Initializations *	0		0
Restart Cisco CallManager on Initialization Exception	_* True	•	True
Call Control Initialization Timer *	90		90
Calling Search Space Initialization Timer.*	900		900
ligit Analysis Initialization Timer.*	900		900
atabase Initialization Timer *	900		900
evice Initialization Timer *	360		360
ligit Analysis Timer.*	6		6
virectory Initialization Timer *	90		90
ledia Initialization Timer_*	90		90
oute Plan Initialization Timer *	600		600
upplementary Services Initialization Timer *	900		900
tatistics Enabled *	True	•	True
ime Of Day Initialization Timer *	900		900
here are hidden parameters in this group. Click on A	Advanced button to see hidden parameters.		
Clusterwide Parameters (System - QOS)			
riority Class.*	Normal Priority	•	Normal Priority
SCP for Audio Calls *	EF DSCP (101110)	•	EF DSCP (101110)
SCP for Video Calls *	AF41 DSCP (100010)	•	AF41 DSCP (100010)
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Priority Class *	Normal Priority	Normal Priority
DSCP for Audio Calls_*	EF DSCP (101110)	EF DSCP (101110)
OSCP for Video Calls *	AF41 DSCP (100010)	AF41 DSCP (100010)
SCP for Audio Calls when RSVP Fails.*	default DSCP (000000)	
SCP for Video Calls when RSVP Fails *	default DSCP (000000)	default DSCP (000000)
SCP for ICCP Protocol Links.*	CS3(precedence 3) DSCP (011000)	CS3(precedence 3) DSCP (01100)
Clusterwide Parameters (System - SDL)		
<u>DL Listening Port Number *</u>	8002	8002
DL Max Router Latency *	20	20
uppress Debug Info for Router Death *	0	0
Clusterwide Parameters (System - Location ar	nd Region)	
nforce Millisecond Packet Size *	True	True
ocations Initialization Timer *	90	90
ocations Trace Details Enabled *	False	False
referred G711 Millisecond Packet Size *	20	20
referred G723 Millisecond Packet Size *	30	30
referred G729 Millisecond Packet Size *	20	20
referred GSM EFR Bytes Packet Size *	31	▼ 31
egions Initialization Timer_*	120	120
ntraregion Audio Codec Default_*	G711	▼ G711
nterregion Audio Codec Default.*	G729	G729
ntraregion Video Call Bandwidth Default *	384	384
nterregion Video Call Bandwidth Default.*	384	384
Clusterwide Parameters (System - CCM Autom	nated Alternate Routing)	
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а агедіон маео сан ванаміасн регадіс	384	304
terregion Video Call Bandwidth Default.*	384	384
lusterwide Parameters (System - CCM Automated		
utomated Alternate Routing Enable *	False	▼ False
AR Groups Initialization Timer_*	90	90
lusterwide Parameters (System - RSVP)		
efault inter-location RSVP Policy_*	No Reservation	✓ No Reservation
SVP Retry Timer_*	60	60
andatory RSVP Mid-call Retry Counter *	1	1
andatory RSVP mid call error handle option *	Call becomes best effort	<ul> <li>Call becomes best effort</li> </ul>
VP Video Tspec Burst Size Factor *	5	5
PP EXECUTIVE OVERRIDE To RSVP Priority Mapping.*	65535	65535
PP FLASH_OVERRIDE To RSVP Priority Mapping_*	65534	65534
PP FLASH To RSVP Priority Mapping.*	65533	65533
PP IMMEDIATE To RSVP Priority Mapping.*	65532	65532
PP PL PRIORITY To RSVP Priority Mapping *	65531	65531
PP PL_ROUTINE To RSVP Priority Mapping *	65530	65530
VP Audio Application ID_*	AudioStream	AudioStream
VP Video Application ID *	- VideoStream	VideoStream
S Policy Initialization Timer_*	120	120
VP Session Manager Initialization Timer.*	120	120
VP Response Timer *	2	2
LS Packet Capture Configurations		
icket Capture Enable *	False	- False
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F	ile Edit View Favorites Tools Help		
Π	KSVP Audio Application 10	AudioStream	Audiostream
	RSVP Video Application ID *	VideoStream	VideoStream
	QoS Policy Initialization Timer *	120	120
	RSVP Session Manager Initialization Timer *	120	120
	RSVP Response Timer *	2	2
	TLS Packet Capture Configurations		
	Packet Capture Enable *	False 💌	False
	Packet Capture Max File Size (MB) *	2	2
	- Clusterwide Parameters(System - Presence)		
	Presence Subscription Throttling Threshold *	90000	90000
	Presence Subscription Resume Threshold *	80	80
	Default Inter-Presence Group Subscription *	Disallow Subscription	Disallow Subscription
	– Clusterwide Parameters (System - Dual Mode Mobil	ity)	
	Integrated Dual-Mode Feature Enable *	False 💌	False
	H1 (Graceful) Handoff Number		
	H1 Handoff Number Partition	< None >	
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## Call Pickup Group Configuration 1

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## Call Pickup Group Configuration 2

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## Call Pickup Group Configuration 3

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## CallBack Softkey Template 1

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Standard IPMA Manager	Standard template for IPMA manager interface
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### **PSTN Route Pattern Configuration (Screen 1)**

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Gateway/Route List * S1/SU1/DS1-0@3845_West V (Edit) Find		
Route Option  © Route this pattern		
O Block this pattern No Error		
Call Classification*		
Allow Device Override 🗆 Provide Outside Dial Tone 🗆 Allow Overlap Sending 🗖 Urgent Priority		
Require Forced Authorization Code     Authorization Level*		
P		
Require Client Matter Code		
Calling Party Transformations		
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# **PSTN Configuration (Screen 2)**

🚰 Route Pattern Configuration - Microsoft Internet Explorer		_ 8 ×
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P		
Require Client Matter Code		
Calling Party Transformations		
🗆 Use Calling Party's External Phone Number Mask		
Calling Party Transform Mask		
Prefix Digits (Outgoing Calls)		
Calling Line ID Presentation*		
Calling Name Presentation*		
Connected Party Transformations		
Connected Line ID Presentation* Default		
Connected Name Presentation* Default		
Called Party Transformations		— T
Discard Digits < None >		
Called Party Transform Mask		
Prefix Digits (Outgoing Calls)		
ISDN Network-Specific Facilities Information Element Network Service Protocol Not Selected		
Carrier Identification Code		
Network Service         Service Parameter Name         Service Parameter Value           Not Selected		
Not Selected     Not Exist >		
- Save Delete Copy Add New		
🛈 *- indicates required item.		
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# Voice Mail Profile Configuration 1

🗿 Find and List Voice Mail Profiles - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	1
⇔Back • → • Ø Ø Δ ØQSearch ⊛Favorites @Media Ø ₽3 • D ⊡	
Address 🗃 https://172.20.235.254/ccmadmin/vmProfileFindList.do	▼ 🖓 Go Links ≫
	Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions	Logged in as:CCM
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration	✓ Help ✓
Find and List Voice Mail Profiles	
1 2 records found	
Search Options	
Find Voice Mail Profile where Voice Mail Profile Name begins with 🔽 🛛 🖬 🗖 Search V	Vithin Results
(voicemessagingprofile.name begins with any)	
Name Description Pilot           Default         Default voice messaging profile         6090	Calling Search Space
Default         Default voice messaging profile         6090           No Voice Mail         No Voice Mail         No Voice Mail	
Add New Select All Clear All Delete Selected Rows per Page 50 💌	
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# Voice Mail Profile Configuration 2

🗿 Voice Mail Profile Configuration - Microsoft Internet Explorer
File Edit View Favorites Tools Help
↔ Back • → • ③ Ø 🖄 Q Search 🔝 Favorites ④ Media 🛞 🖏 • 🎒 🔄
Address 🙆 https://172.20.235.254/ccmadmin/vmProfileEdit.do?key=16c584ea-6a81-4138-9ea1-af452de8f75a
Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutions Logged in as: CCM
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻
Voice Mail Profile Configuration Related Links: Back To Find/Li
Status Status: Ready
Voice Mail Profile Information
Voice Mail Profile Name* Default
Description Default voice messaging profile
Voice Mail Pilot** 6090/< None >
Voice Mail Box Mask
Make this the default Voice Mail Profile for the System
- Save Delete Copy Reset Add New
(i) *- indicates required item.
🙆 Done
Page 1 Sec 1 1/1 At 1" Ln 1 Col 34 REC TRK EXT OVR 😡
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# Voice Mail Pilot Configuration

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		Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco	IP Telecommunication Solutions	Logged in as:CCM
System ▼ Call Routing ▼ Media Resources ▼ Voice Mail ▼ Device ▼ Application ▼	User Management 👻 Bulk Administration 👻	Help 🔻
Voice Mail Pilot Configuration		Related Links: Back To Find/Li
Status		
🗊 Status: Ready		
Voice Mail Pilot Information		
Voice Mail Pilot Number 6090		
Calling Search Space < None >		
Description Default		
Make this the default Voice Mail Pilot for the system		
- Save Delete Add New		
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Done		Local intranet
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### **Voice Mail Port Configuration 1**

Find and List Voice Mail Ports - Microsoft Internet Explorer		- D ×
 File Edit View Favorites Tools Help		
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Cisco Unified CallManager Administration For Cisco IP Telecommunication Solutio	ins	Logged in as:CCM
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administra	ation 👻 Help 👻	
Find and List Voice Mail Ports		
⊂ Status		
(i) 4 records found		
Search Options		
	Search Within Results	
	m or enter search text 🔻	
(device.name begins with any)		
Search Results		
Device Name Description Device Pool SCCP Security Profile	Status	IP Address
<u>Standard SCCP Profile for Auto Registration</u> <u>Standard SCCP Profile for Auto Registration</u> <u>Standard SCCP Profile for Auto Registration</u>	Registered with CM-SATURN	172.20.239.2
<u>SaturnUM1-VI2</u> Cisco Unity VM <u>Default</u> <u>Standard SCCP Profile for Auto Registration</u> SaturnUM1-VI3 Cisco Unity VM Default Standard SCCP Profile for Auto Registration	Registered with CM-SATURN Registered with CM-SATURN	172.20.239.2 172.20.239.2
<u>SaturnUM1-VI3</u> Cisco Unity VM <u>Default</u> <u>Standard SCCP Profile for Auto Registration</u> <u>SaturnUM1-VI4</u> Cisco Unity VM <u>Default</u> <u>Standard SCCP Profile for Auto Registration</u>	Registered with CM-SATURN	172.20.239.2
		172120120912
Add New Select All Clear All Delete Selected Reset Selected Rows per Page 50		
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e Done		Local intranet
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### **Voice Mail Port Configuration 2**

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Cisco Unified CallM	anager Administration For Cisco IP Telecommunication Solutions	Logged in as:CCM
	-	
	tesources ▼ Voice Mail ▼ Device ▼ Application ▼ User Management ▼ Bulk Administration ▼	
Voice Mail Port Configuration		Related Links: Back To Find/Li
◨Ӿ҇҇҇Ѽ҇҇Ҽ҅ӈ҈Ӻ		
Status		
(i) Status: Ready		
Device Information		
Registration	Registered with Cisco Unified CallManager CM-SATURN	
IP Address Port Name*	172.20.239.252 SaturnUM1-VI1	
Description		
Device Pool*	Cisco Unity VM	
Calling Search Space	Default	
AAR Calling Search Space	< None >	
Location*	< None >	
	Hub_None  Standard SCCP Profile for Auto Registration	
	Standard SCCP Profile for Auto Registration	
Directory Number Informat		
Directory Number*	6091	
Partition	< None >	
Calling Search Space	< None >	
AAR Group	< None >	
Internal Caller ID Display	VoiceMail	
Internal Caller ID Display (AS	CII format) VoiceMail	
External Number Mask		
E Done		🔄 🚰 🔯 Local intranet
Page 4 Sec 1 4/4	At 5.5" Ln 2 Col 31 REC TRK EXT OVR	
🚮 Start 🛛 🗹 💽 💻 🗍 🖉	Voice Mail Port Config 🖉 Untitled - Notepad 🛛 🖉 CS101_Nortel Configurati 🗐 Docum	ent1 - Microsoft W



### Voice Mail Port Configuration 3

Voice Mail Port Configuration -	Microsoft Internet Explorer		<u>- 🗆 ×</u>
File Edit View Favorites Too	s Help		-
Status Status: Ready			
Device Information     Registration	Registered with Cisco Unified CallManager CM-SATURN		
IP Address Port Name*	172.20.239.252 SatumUM1-VI1		
Description	Cisco Unity VM		
Device Pool*	Default		
Calling Search Space	< None >		
AAR Calling Search Space	< None >		
Location*	Hub_None		
SCCP Phone Security Profile	Standard SCCP Profile for Auto Registration		
<b>Directory Number Informa</b> Directory Number*			
	6091		
Partition	< None >		
Calling Search Space	< None >		
AAR Group	< None >		
Internal Caller ID Display	VoiceMail		
Internal Caller ID Display (AS	CII format) VoiceMail		
External Number Mask			
— Save Delete Copy Res	Add New		
i *- indicates required iter	n.		<b>•</b>
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# **MWI Configuration 1**

🚈 Find and List Message Waiting Numbers - Microsoft Internet Explorer	
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	Navigation Cisco Unified CallManager Admini
Cisco Unified CallManager Administration For Cisco IP Telecom	nunication Solutions Logged in as:CCM
System ▼ Call Routing ▼ Media Resources ▼ Voice Mail ▼ Device ▼ Application ▼ User Manager	
Find and List Message Waiting Numbers	
-+=== <del>×</del>	
Status	
2 records found	
Search Options	
Find Message Waiting Numbers where Directory Number 💌 begins with 💌	Find Search Within Results
and where Message Waiting Indicator is Both  (numplan.dnorpattern begins with any)	
Search Results Directory Number Description P	artition Calling Search Space
🗖 🛸 <u>6098</u> MWI On	
□ S <u>6099</u> MWI Off	-
Add New Select All Clear All Delete Selected Rows per Page 50	<u> </u>
	-
4	
Cone Contraction Contraction	🔒 🗮 Local intranet 🏼 🏸
Page 6 Sec 1 6/6 At 1" Ln 1 Col 2 REC TRK EXT OVR	
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# **MWI Configuration 2**

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Cisco	Uni	fied	Cal	lMar	nager	Admin	istration	l For Cisco	IP Telecommunio	ation So	lutions		Logged i	n as:CCM
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Message	Waitir	ıg Conf	igura	ntion									Related Links: 📕	lack To Fir
	<u></u>	I												
(i) Statu	s: Rea	dy												
Messag														
Message		ng Num	nber*	<b>5</b> 098										
Partition				< No	one >				<b>•</b>					
Descripti				MW										
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Calling S	earch	Space		< No	one >				•					
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# **MWI Configuration 3**

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Cisco	Uni	fied (	CallM	anager	Admini	istration	For Cisco	IP Telecommunic	ation Solutio	ons			Logged in	as:CCM
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Status														
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Messag				on — — — — — — — — — — — — — — — — — — —										
Message		ng Numi	<sup>per*</sup> 6	099										
Partition				< None >				•						
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Calling S	earch	Space	ŀ	< None >				•						
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**弘** 

#### **Cisco 3845 Configuration**

```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname 3845_West
١
boot-start-marker
boot system flash:c3845-ipvoice-mz.124-5.13.T2
boot-end-marker
logging buffered 51200 warnings
enable secret 5 $1$MFhi$AqqpDsFeO4Sb/IkzkrcmO/
1
no aaa new-model
!
resource policy
!
no network-clock-participate slot 1
no network-clock-participate slot 4
voice-card 0
no dspfarm
!
voice-card 1
no dspfarm
!
voice-card 4
dspfarm
!
ip cef
ip tcp synwait-time 13
!
1
!
1
no ip domain lookup
ip host CM-SATURN 172.20.235.254
ip name-server 172.20.235.254
isdn switch-type primary-4ess
!
!
no voice call carrier capacity active
1
!
voice class codec 1
codec preference 3 g711alaw
!
!
!
!
!
!
!
!
!
```



```
!
!
controller E1 1/1/0
pri-group timeslots 1-31 service mgcp
!
controller E1 1/1/1
!
controller E1 4/0/0
pri-group timeslots 1-31 service mgcp
!
controller E1 4/0/1
1
!
!
1
interface GigabitEthernet0/0
description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
ip address 10.10.10.1 255.255.255.248
shutdown
duplex auto
speed auto
media-type rj45
negotiation auto
!
interface GigabitEthernet0/1
ip address 172.20.33.120 255.255.255.0
duplex auto
speed auto
media-type rj45
negotiation auto
1
interface Serial1/1/0:15
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-qsig
isdn incoming-voice voice
isdn bind-13 ccm-manager
no cdp enable
I
interface Serial4/0/0:15
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-qsig
isdn protocol-emulate network
isdn incoming-voice voice
isdn T310 120000
isdn bind-13 ccm-manager
no cdp enable
!
ip route 0.0.0.0 0.0.0.0 GigabitEthernet0/1
ip route 0.0.0.0 0.0.0.0 172.20.33.1
1
ip http server
ip http authentication local
!
!
!
```



! control-plane ! ! ! voice-port 0/1/0 ١ voice-port 0/1/1 ١ voice-port 1/1/0:15 ! voice-port 4/0/0:15 ! ccm-manager mgcp ccm-manager music-on-hold ccm-manager config server 172.20.235.254 ccm-manager config ! mgcp mgcp call-agent CM-SATURN 2427 service-type mgcp version 0.1 mgcp dtmf-relay voip codec all mode out-of-band mgcp rtp unreachable timeout 1000 action notify mgcp modem passthrough voip mode nse mgcp package-capability rtp-package no mgcp package-capability res-package mgcp package-capability sst-package no mgcp package-capability fxr-package mgcp package-capability pre-package no mgcp timer receive-rtcp mgcp sdp simple mgcp fax t38 inhibit mgcp rtp payload-type g726r16 static ١ mgcp profile default ! ! dial-peer cor custom 1 ! 1 dial-peer voice 1 pots service mgcpapp dial-peer voice 2 pots service mgcp 1 dial-peer voice 3 pots service mgcp 1

banner login ^C

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

feature requires the one time use, initial credentials, of username "cisco" with password "cisco".

Please change these publicly known initial credentials through SDM or IOS CLI. Here's the Cisco IOS command:



no username cisco

NOTE: Please add a new username to be able to launch SDM for router management.

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

 $^{C}$ ! line con 0 stopbits 1 line aux 0 stopbits 1 line vty 0 4 privilege level 15 login transport input telnet line vty 5 15 privilege level 15 login local transport input telnet ! scheduler allocate 20000 1000 ! end



### PSTN Gateway (Cisco 3745) Configuration

```
3745E1#sh run
Building configuration...
Current configuration : 1778 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
1
hostname 3745E1
!
boot-start-marker
boot system flash:c3745-ipvoice-mz.124-3.bin
boot system slot0:C3745-ipvoice-mz.shamu_p2_18
boot-end-marker
logging buffered 1000000 debugging
!
no aaa new-model
1
resource policy
1
no network-clock-participate slot 2
no network-clock-participate slot 3
no network-clock-participate slot 4
voice-card 2
no dspfarm
!
voice-card 3
dspfarm
!
voice-card 4
dspfarm
!
ip subnet-zero
ip cef
ip tcp synwait-time 13
!
1
isdn switch-type primary-dms100
1
!
no voice call carrier capacity active
١
!
!
!
!
!
!
!
!
!
!
```



```
!
controller T1 4/0
framing esf
linecode b8zs
pri-group timeslots 1-24
!
!
١
interface FastEthernet0/0
ip address 172.20.33.52 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet0/1
no ip address
shutdown
duplex auto
speed auto
۱
interface Serial4/0:23
no ip address
no logging event link-status
isdn switch-type primary-dms100
isdn protocol-emulate network
isdn incoming-voice voice
isdn channel-id invert extend-bit
no cdp enable
!
ip classless
ip route 0.0.0.0 0.0.0.0 172.20.31.1
ip route 0.0.0.0 0.0.0.0 FastEthernet0/0
ip route 0.0.0.0 0.0.0.0 172.20.33.1
ip http server
1
!
!
!
control-plane
!
!
!
voice-port 2/0/0
station-id name PSTN_PHONE
!
voice-port 2/0/1
!
voice-port 4/0:23
!
!
no mgcp package-capability res-package
no mgcp package-capability fxr-package
no mgcp timer receive-rtcp
!
!
!
dial-peer voice 1 pots
destination-pattern 16503646325
port 2/0/0
```



! dial-peer voice 2 pots destination-pattern 91408527.... direct-inward-dial port 4/0:23 prefix 91408527 ! ! line con 0 line aux 0 line vty 0 4 exec-timeout 0 0 password CISCO login ! ! end

3745E1#



## Acronyms

Acronym	Definitions
ANF-PR	Additional Network Feature Path Replacement
ССМ	Cisco CallManager
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
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
СТ	Call Transfer
MWI	Message Waiting Indicator
PSTN	Public Switched Telephone Network



#### **Important Information**

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