NEC IPX2400 Release 15 using T1 QSIG to Cisco Unified Communications Manager 6.0 and Cisco Emergency Responder 2.0

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July 11, 2007 Initial version

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Introduction

The following is an Application Note for E911 Interoperability of a Cisco Unified Communications Manager 6.0 and Cisco Emergency Responder 2.0 to a NEC IPX2400 PBX via a Cisco Media Module CMM T1-QSIG trunk. The CUCM system is connected to a simulated E911 PSAP (Public Safety Answering Point) via a Cisco 3845 w/ CAMA trunk registered using H323. The Network Topology diagram shows the test set-up for interoperability between the Cisco Unified Communications Manager and Cisco Emergency Responder connected to the PBX via a T1 QSIG trunk using Cisco WS-SVC-CMM-6T1 MGCP Gateway.

Network Topology

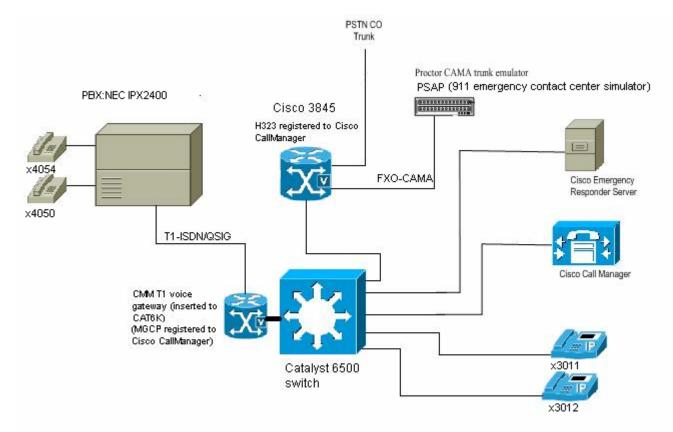


Figure 1. Network Topology or Test Setup

Limitations

Unique DID numbers must be used to associate with each Emergency Response Location to allow the return call if the 911 caller is disconnected.

Each available calling party that might dial 911 from the PBX side must have that calling party number configured in the Manually Configured Phones screen of the Cisco Emergency Responder.

System Components

Hardware Requirements

Cisco Hardware

Cisco 3825 Gateway with NM-HD-V2/VIC2-4FXO (CAMA trunk) Cisco Cat6K switch Cisco Unified Communications Manager server Cisco Emergency Responder server Cisco WS-SVC-CMM-6T1 Communications Media Module (inserted into cat6K) NEC IPX2400

Software Requirements

Cisco IOS Software release "c3825-ipvoice-mz.124-11.T" Cisco IOS Software release "wscmm-ipvoicek9-mz.124-11.T PBX Software: Version Release 15 Cisco Unified Communications Manager 6.0 Cisco Emergency Responder 2.0

Features

Features Supported

Calling Number

E911 ERL DID number passed to PSAP

Incoming DID calling to disconnected 911 originating caller



Configuration

Configuring Cisco Unified Communications Manager

Partitions

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Phones	Phones		
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Description PhonesCSS	
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CSS E911

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Name* E911CSS	
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CCM IP phones

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Status				
Association Information	Phone Type Product Type: Cisco 7960			
Modify Button Items	Device Protocol: SCCP			
1 Line [1] - 3011 in Phones				
2 <u>The [2] - Add a new DN</u>	Device Information Registration	Registered with Cisco Unified Communication	ns Manager	- CM-BARZA
3 Car Add a new SD	IP Address	172.20.110.253	no nanagoi	on back
4 Com Add a new SD	MAC Address*	000A416B8539		
5 Car Add a new SD	Description	Auto 3011		
6 Can Add a new SD	Device Pool*	Default	*	View Details
Unassigned Associated Items	Common Device Configuration	MigratedCommonDeviceConfig1	*	View Details
7 Can Add a new SD	Phone Button Template*	Standard 7960 SCCP	*	
8 🕵 Add a new SURL	Softkey Template	Standard User_CallBack	*	
9 G Add a new BLF SD	Common Phone Profile*	Standard Common Phone Profile	*	
BLF	Calling Search Space	PhonesCSS	*	
10 arms Add a new BLF Directed Call Park	AAR Calling Search Space	< None >	*	
11 Privacy	Media Resource Group List	< None >	*	
12 None	User Hold MOH Audio Source	< None >	*	
	Network Hold MOH Audio Source	- Hollo -	*	
	Location*	Hub_None	*	
	AAR Group	< None >	*	
	User Locale	< None >	*	
	Network Locale	< None >	*	
	Built In Bridge*	Default	~	
	Privacy*	Default	~	
	Device Mobility Mode*	Default		View Current Device Mobility Settings
	Owner User ID	< None >	*	
	Phone Load Name			~
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✓ Retry Video Call -	as Audio			
🗌 Ignore Presentati	on Indicators (internal calls only)			
Allow Control of D	Device from CTI			
☑ Logged Into Hunt	Group			
Remote Device				
Protocol Specific	Information			
Packet Capture Mode				
Packet Capture Dura	tion 0			
Presence Group*	Standard Presence group			
Device Security Profi	e* Cisco 7960 - Standard SCCP Non-Secure Profile 🔽			
SUBSCRIBE Calling S	cearch Space < None >			
Unattended Port				
Require DTMF Re	seption			
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Certificate Operation				
Authentication Mode ³	By Null String			
Authentication String				
Generate String				
Key Size (Bits)*	1024			
Operation Completes				
Certificate Operation Note: Security Profile	Status: None Contains Addition CAPF Settings.			
Expansion Module				
Module 1	< None >			
Module 1 Load Name Module 2				
Module 2 Module 2 Load Name	< None >			
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	Extension Information —				
	Enable Extension Mobility				
	Log Out Profile Use Current Device Settings 💙				
	Log out Time < None >				
	MLPP Information MLPP Domain <pre></pre>				
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- Directory Number Informat	tion				
Directory Number* 3011					
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Alerting Name Rafa Marc					
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Allow Control of Device from Associated Devices SEPDODA					
Associated Devices SEP000A	41688539	Edit Device Edit Line Appearance			
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Dissociate Devices					
Directory Number Settings					
Voice Mail Profile	< None >	 (Choose <none> to use system default)</none> 			
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Presence Group*	Standard Presence group	▼			
User Hold MOH Audio Source	< None >				
Network Hold MOH Audio Source Auto Answer*		<u> </u>			
	Auto Answer Off				
AAR Settings					
AAR	Voice Mail	AAR Destination Mask	AAR Group		
			< None >		
Retain this destination in th	e call forwarding history				
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Call Forward and Call Pickup Settin	-				
Calling Search Space Activation Policy	Voice Mail	Destin	ation		g Search Space
Forward All	or			Use System Default < None >	×
Secondary Calling Search Space for Fo	_			< None >	
Forward Busy Internal	or			< None >	×
Forward Busy External	or			< None >	~
Forward No Answer Internal	or			< None >	~
Forward No Answer External	or			< None >	~
Forward No Coverage Internal	or			< None >	~
Forward No Coverage External	or			< None >	~
Forward on CTI Failure	or			< None >	×
Forward Unregistered Internal	or			< None >	×
Forward Unregistered External	or 🗌			< None >	×
No Answer Ring Duration (seconds)					
Call Pickup Group < N	lone >	*			
MLPP Alternate Party Settings					
Target (Destination)					
MLPP Calling Search Space	< None >	~			
MLPP No Answer Ring Duration (seconds	/				
Line Settings for All Devices ——					
Hold Reversion Ring Duration (seconds)					
Hold Reversion Notification Interval (seconds) Setting the Hold Reversion Notification Interval to zero will disable the feature					
Line 1 on Device SEP000A416B853	9				
	a Marquez			s intended for displaying text such as a name	instead of a directory number for internal
	s. If you specify a number, the	person receiving a call may n	ot see the proper identity o	of the caller.	
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External Phone Number Mask							
Visual Message Waiting Indicator Policy*	Use System Policy	~]				
Ring Setting (Phone Idle)*	Use System Default	v					
Ring Setting (Phone Active)	Use System Default	~	Applies to this line when any line on the phone has a call in progress.				
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Default	~					
Call Pickup Group Audio Alert Setting(Phone Active)	Use System Default	~					
Monitoring Calling Search Space	< None >	~					
	ings on Device SEPOO	0441688539					
Note:The range to select the Max N							
Maximum Number of Calls*		4					
Busy Trigger*		2	(Less than or equal to Max. Calls)				
- Forwarded Call Information D	isolay on Device SEPOI	00441688539					
Caller Name							
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Redirected Number							
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Users Associated with Line —							
Associat	e End Users						
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CTI Route Points

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CTI Route Point Configuration	ı		Related Links: 🛛 Back To Find/List 🛛 🔽 🗔
🔚 Save 🗶 Delete 🗋 Copy	7 🎦 Reset 🕂 Add New		
- Status			
(i) Status: Ready			
— Device Information ———			
Registration	Registered with Cisco Unified Communications Manage	er CM-BARZA	
IP Address Device Name*	172.20.110.254 RP911	7	
Description	RP911]	
Device Pool*		View Details	
Common Device Configuration	MigratedCommonDeviceConfig1		
Calling Search Space	E911CSS		
Location*	Hub_None		
User Locale	< None >		
Media Resource Group List	< None >		
Network Hold MOH Audio Source	< None >		
User Hold MOH Audio Source	< None >		
Association Information —			
The Line [1] - 911 in Phones			
Eine [2] - Add a new DN			
- Save Delete Copy R	eset Add New		
(i) *- indicates required item.			
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Directory Number Configuration	Related Links: Configure Device (RP911) 🔽 Go				
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- Status	^ ^				
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🖵 Directory Number Information —					
Directory Number* 911					
Route Partition Phones					
Description					
Alerting Name					
ASCII Alerting Name					
Associated Devices RP911 Edit Device					
Edit Line Appearance					
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Dissociate Devices					
Ning them Norther Colling					
Directory Number Settings Voice Mail Profile < None > Voice Mail Profile < None >					
Calling Search Space					
Presence Group* Standard Presence group					
User Hold MOH Audio Source < None >					
Network Hold MOH Audio Source < None >					
- AAR Settings					
Voice Mail AAR Destination Mask	AAR Group				
AAR Or	< None >				
Retain this destination in the call forwarding history					
🖵 Call Forward and Call Pickup Settings —					
Voice Mail Destination	Calling Search Space				
Calling Search Space Activation Policy	Ilra Surtam Dafault 🖉 🗠 📉				
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Directory Number Configuration				Related Links:	Configure Device (RP911) 🔽	Go
🔚 Save 🗶 Delete 🌳 Reset 🕂	Add New					
	Voice Mail	C	estination	Calling Search	Space	^
Calling Search Space Activation Policy				Use System Default	~	
Forward All	🔲 or			< None >	~	
Secondary Calling Search Space for For	ward All			< None >	*	
Forward Busy Internal	🔲 or	912		E911CSS	~	
Forward Busy External	🔲 or	912		E911CSS	~	
Forward No Answer Internal	🔲 or	912		E911CSS	*	
Forward No Answer External	🗌 or	912		E911CSS	~	
Forward No Coverage Internal	or 🗌			< None >	~	
Forward No Coverage External	🔲 or			< None >	*	
Forward on CTI Failure	🗌 or	912		E911CSS	~	
Forward Unregistered Internal	or 🗌	912		E911CSS	~	
Forward Unregistered External	🔲 or	912		E911CSS	*	
No Answer Ring Duration (seconds)						
Call Pickup Group 🛛 🔍 🗸	one >	~				Ξ
- MLPP Alternate Party Settings						
Target (Destination)]			
MLPP Calling Search Space	< None >	*				
MLPP No Answer Ring Duration (seconds)						
Line Settings for All Devices						-
Hold Reversion Ring Duration (seconds)			Setting the Hold Reversion Ring Du	ration to zero will disable the feature		
Hold Reversion Notification Interval (seco	onds)		Setting the Hold Reversion Notificat	ion Interval to zero will disable the feature		
Line 1 on Device RP911						
Display (Internal		Display text	for a line appearance is intended for displ	aying text such as a name instead of a direct	tory number for internal calls. If	
	number, the persor	n receiving a call may not see the p	roper identity of the caller.			
ASCII Display (Internal Caller ID)						~
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External Phone Number Mask			
— Multiple Call/Call Waiting Settings on Device RP911 Note:The range to select the Max Number of calls is: 1-100			
Maximum Number of Calls*	5000		
Busy Trigger*	4500	(Less than or equal to Max. Calls)	
— Forwarded Call Information Display on Device RP91			
🗹 Caller Name			
Caller Number			
Redirected Number			
🗹 Dialed Number			
- Users Associated with Line			
Associate End Users			
- Save Delete Reset Add New			
(i) *- indicates required item.			
(i) **- Changes to Line or Directory Number settings rec	juire restart.		
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CTI Route Point 913

CTI Route Point Configuratio	n - Microsoft Internet Explorer		_
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🔚 Save 🗶 Delete 🗋 Copy	🖓 哈 Reset 🕂 Add New		
- Status			
i Status: Ready			
— Device Information ———			
Registration	Registered with Cisco Unified Communications Manag	er CM-BARZA	
IP Address Device Name*	172.20.110.254 RPELIN913		
Description	RPELIN913		
Device Pool*			
Common Device Configuration		View Details	
Calling Search Space	MigratedCommonDeviceConfig1		
Location*	Hub_None		
User Locale	< None >		
Media Resource Group List	< None >		
Network Hold MOH Audio Source			
User Hold MOH Audio Source	< None >		
Association Information —			
Time [1] - 913XXXXXXXXXXX	in E911		
Eine [2] - Add a new DN			
- Save Delete Copy R	eset Add New		
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	- Status					
Directory Number* \$33XXXXXXXXXX Route Partition ESII Description						
Route Partition Boute Partition Description Alerting Name Associated Devices BFELIN913 Edit Device Edit Line Appearance Dissociate Devices Dissociate Devices Dissociate Devices Dissociate Devices Use Mail Profile Colling Search Space Yoke Mail AAR Settings Voice Mail AAR Destination Mask AAR Our Calling Search Space Voice Mail Calling Search Space	- Directory Number Information					
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Voice Mail Profile < None > Calling Search Space E911CSS Presence Group* Standard Presence group User Hold MOH Audio Source < None > Vetwork Hold MOH Audio Source < None > Voice Mail AAR Destination Mask AAR or Calling Search Space Voice Mail Calling Search Space Voice Mail Calling Search Space	- Directory Number Settings					
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User Hold MOH Audio Source < None > Network Hold MOH Audio Source < None > AAR Settings AAR Settings Voice Mail AAR Destination Mask AAR Croup AAR or Retain this destination in the call forwarding history Call Forward and Call Pickup Settings Voice Mail Destination Calling Search Space Uice System Default						
Network Hold MOH Audio Source AAR Settings Voice Mail AAR Destination Mask AAR Settings Voice Mail AAR Destination Mask AAR Group AAR or Retain this destination in the call forwarding history Call Forward and Call Pickup Settings Voice Mail Destination Calling Search Space Voice Mail Destination Calling Search Space Ultre System Default	Presence Group* Standard Presence group					
AAR Settings AAR Settings AAR Destination Mask AAR Croup AAR or < None > ✓ Retain this destination in the call forwarding history ✓	User Hold MOH Audio Source < None >					
Voice Mail AAR Destination Mask AAR Group AAR □ or < None > ✓ Retain this destination in the call forwarding history ✓	Network Hold MOH Audio Source < None >					
Voice Mail AAR Destination Mask AAR Group AAR □ or < None > ✓ Retain this destination in the call forwarding history ✓	- AAR Settings					
✓ Retain this destination in the call forwarding history Call Forward and Call Pickup Settings ✓ Calling Search Space ✓ Ocice Mail Destination Calling Search Space Activation Policy		AAR Group				
Calling Search Space Calling Search Space	AAR or	< None >				
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Voice Mail Destination Calling Search Space Calling Search Space Activation Policy Use System Default If	└─ Call Forward and Call Pickup Settings ────					
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Calling Search Space Activation P	olicy			Use System Default	~	-
Forward All	🗌 or			< None >	~	
Secondary Calling Search Space f	for Forward All			< None >	~	
Forward Busy Internal	🔲 or			< None >	~	
Forward Busy External	🗌 or			< None >	~	
Forward No Answer Internal	🔲 or			< None >	~	
Forward No Answer External	🗌 or			< None >	~	
Forward No Coverage Internal	🗌 or			< None >	~	
Forward No Coverage External	🔲 or			< None >	~	
Forward on CTI Failure	🔲 or			< None >	~	
Forward Unregistered Internal	🗖 or			< None >	~	
Forward Unregistered External	🔲 or			< None >	~	
No Answer Ring Duration (seconds)						
Call Pickup Group	< None >	♥				
- MLPP Alternate Party Settings Target (Destination)						
MLPP Calling Search Space	< None >	~				
MLPP No Answer Ring Duration (see	conds)					
- Line Settings for All Devices - Hold Reversion Ring Duration (seco	onds)		Setting the Hold Reversion Ring Du	ration to zero will disable the feature		
Hold Reversion Notification Interval	(seconds)			tion Interval to zero will disable the fe	ature	
Line 1 on Device RPELIN913 -						
Display (Internal Caller ID)	cify a number, the person	Display text for a receiving a call may not see the prope		laying text such as a name instead of	a directory number for int	ernal calls. If
ASCII Display	, i namber, are person					
(Internal Caller ID)						~
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Multiple Call/Call Waiting Settings on Device RPELIN9 Note:The range to select the Max Number of calls is: 1-10000 Maximum Number of Calls* Busy Trigger*] (Less than or equal to Max. Calls)	
	N913		
Caller Name			
Caller Number			
Redirected Number			
🗹 Dialed Number			
Users Associated with Line Associate End Users			
— Save Delete Reset Add New			
(i) *- indicates required item.			
() **- Changes to Line or Directory Number settings requi	re restart.		
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Note: A Backup CER server was not used during testing therefore CTI route point for 912 was not created.



CTI Port

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Status				
(i) Status: Ready				
Association Information 1 Information	Phone Type Product Type: CTI Port			
2 The [2] - Add a new DN	Device Protocol: SCCP			
3 The Intercom [1] - Add a new Intercom	- Device Information			
3 Intercont II - Add a new Intercont	Registration	Registered with Cisco Unified Communic	ations Manager CM-BARZA	
	IP Address Device Name*	172.20.8.50		
	Description	CERSec1		
	Device Pool*			
	Common Device Configuration	Default MigratedCommonDeviceConfig1	View Details View Details	
	Common Phone Profile*	Standard Common Phone Profile	view Decails	
	Calling Search Space	PhonesCSS	*	
	AAR Calling Search Space	< None >	*	
	Media Resource Group List	< None >	~	
	User Hold MOH Audio Source	< None >	*	
	Network Hold MOH Audio Source	< None >	*	
	Location *	Hub_None	*	
	AAR Group	< None >	~	
	User Locale Network Locale	< None >	~	
	Privacy*	< None > Default	× *	
	Device Mobility Mode*	Default		nt Device Mobility Settings
	Owner User ID	< None >	v view curren	it boytes hidding settings
	Ignore Presentation Indicator			
	Logged Into Hunt Group			
	Remote Device			
				· · · · · · · · · · · · · · · · · · ·
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	– Protocol Specific Inform	ation —		
	Presence Group*	Standard Presence group	v	
	Device Security Profile*	Cisco CTI Port - Standard SCCF	' Non-Secure Profil 🔽	
	SUBSCRIBE Calling Search S	Space < None >	~	
	Unattended Port			
	MLPP Information MLPP Domain < None >			
	<pre>None ></pre>		/	
— Save Delete Copy Reset Add	I New			
(i) *- indicates required item.				
(i) **- Device reset is not required for cha	nges to Packet Capture Mode and	Packet Capture Duration.		
(i) ***Note: Security Profile Contains Addi	ition CAPF Settings.			
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Directory Number Configuration	Related Links: Configure Device (CERSec1) 💌 Go			
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- Status				
Status: Ready				
- Directory Number Information				
Directory Number* 4250				
Route Partition Phones	E			
Description				
Alerting Name				
ASCII Alerting Name				
Associated Devices CERSec1				
Edit Device				
Edit Line Appearance				
**				
Dissociate Devices				
Directory Number Settings Voice Mail Profile < None > Voice Mail Profile < None >				
Voice Mail Profile < None > Calling Search Space PhonesCSS				
Presence Group* Standard Presence group				
User Hold MOH Audio Source < None >				
Network Hold MOH Audio Source < None >				
AAR Settings	AAR Group			
AAR	< None >			
Retain this destination in the call forwarding history				
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Calling Search Space Activation Policy	Ure System Default			
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Chrone Call Definition Control Status Defice + Application + User Management + But Administrator + Help + Directory Number Configuration Related Links: Configura Device (CERSect) Configuration Calling Search Space Advection Policy User System OnFault V None > V Calling Search Space Advection Policy Use System OnFault V None > V Control Space Advection Policy User System OnFault V None > None > V None > V None > V None > None > V None > None > <th>ahah. Cisco Unified CM</th> <th>1 Administration</th> <th></th> <th></th> <th>Naviga</th> <th>tion Cisco Unified CM Adm</th> <th>ninistration 💌 Go</th>	ahah. Cisco Unified CM	1 Administration			Naviga	tion Cisco Unified CM Adm	ninistration 💌 Go
Directory Number Configuration Related Links: Configure Device (CERSect) ♥ ● Image: Seven Space Activation Policy Use System Default ♥ Calling Search Space Activation Policy Image: Seven Space Activation Policy ♥ ♥ Forward All en ● ♥ ● ♥ ● ♥ ● ♥ ● ♥ ● ♥ ● ♥ ● ♥ ● ● ♥ ●<	CISCO For Cisco Unified Comm	nunications Solutions				CCMAdministrator	About Logout
Sov Peter Pare Adversion Policy Sov Peter Pare Adversion	System 👻 Call Routing 👻 Media Resource	es 👻 Voice Mail 👻 Device 👻 Applic	cation 👻 User Managemer	nt 👻 Bulk Administration 👻 Help 👻			
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Line Text Label]			
ASCII Line Text Label]			
External Phone Number Mask]			
Visual Message Waiting Indicator Policy*	Use System Policy	~				
Monitoring Calling Search Space	< None >	v				
— Multiple Call/Call Waiting	Fattings on Douise CEDEs	c1				
Note:The range to select the N						
Maximum Number of Calls*		4		7		
Busy Trigger*		2		(Less than or equal to Max. Calls)		
Forwarded Call Information	on Display on Device CER	Sec 1				
🗹 Caller Name						
🗌 Caller Number						
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- Save Delete Reset Add New						
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Route Patterns for ELINs

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	Pattern *	Description	Partition	Route Filter	Associated Device	Сору
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	<u>2XXX</u>		Phones			ľ.
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	<u>7XXX</u>		-1			6
	<u>9.2</u>		<u>Phones</u>		S0/DS1-0@SDA00027E399AEA	6
Add Nev	V Select All Clear All	Delete Selected				

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Route Pattern 10911

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Route Pattern Configuration	Related Links: Back To Find/List 💙 Go
🔚 Save 🗶 Delete 🗋 Copy 🕂 Add New	
Status	
Update successful	
- Pattern Definition	
Route Pattern* 10.911	
Route Partition E911	
Description	
Numbering Plan Not Selected	
Route Filter < None >	
MLPP Precedence* Default	
Gateway/Route List* 172.20.8.26	
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	
Prefix Digits (Outgoing Calls)	
Calling Line ID Presentation*	
Calling Name Presentation* Default	
Connected Party Transformations Connected Line ID Presentation* Default	
Connected Name Presentation* Default	
Done	🞽 🚭 Local intranet
- Called Party Transformations	
Discard Digits PreDot	
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	
— ISDN Network-Specific Facilities Information Element —	
Network Service Protocol PRI NI2	
Carrier Identification Code < Not Configurable >	
Network Service Service Parameter Name Service Parameter Value	
Foreign Exchange Selection 🕑 Foreign Exchange	
- Save Delete Copy Add New	
(i) *- indicates required item.	
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Route Pattern 11911

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Status	JI.	
	• •	
Pattern Definition		
	11.911	
Route Partition	E911	
Description		
Numbering Plan	Not Selected	
Route Filter	< None >	
MLPP Precedence*	Default	
Gateway/Route List*		
Route Option	Route this pattern	
	O Block this pattern No Error	
Call Classification*	OffNet 💌	
Allow Device Over	ride 🗹 Provide Outside Dial Tone 🔲 Allow Overlap Sending 🔲 Urgent Priority	
Require Forced Au		
Authorization Level*	0	
🔲 Require Client Mat	tter Code	
	·	
Calling Party Tran	stormations s External Phone Number Mask	
Calling Party Transfor		
Prefix Digits (Outgoin		
Calling Line ID Preser		
Calling Name Present		
	ation* Default 🗸	
Connected Party T	ransformations	
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Connected Name Pres	sentation* Default	
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— Called Party Tran	isformations	
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Prefix Digits (Outgoir	ng Calls)	
— ISDN Network-Sp Network Service Pro	ecific Facilities Information Element	
Carrier Identification		
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Route Pattern 13911

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System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻
Route Pattern Configuration Related Links: Back To Find/List 🗸 Go
🔚 Save 🗶 Delete 🗋 Copy 🕂 Add New
Status
Update successful
- Pattern Definition
Route Pattern* 13.911
Route Partition E911
Description
Numbering Plan Not Selected
Route Filter < None >
MLPP Precedence* Default
Gateway/Route List* 172.20.8.26
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
Prefix Digits (Outgoing Calls)
Calling Line ID Presentation* Allowed
Calling Name Presentation* Default
Connected Party Transformations
Connected Name Presentation* Default
🖉 Done
Called Party Transformations Discard Digits PreDot
Called Party Transform Mask
Prefix Digits (Outgoing Calls)
— ISDN Network-Specific Facilities Information Element —
Network Service Protocol PRI NI2
Carrier Identification Code < Not Configurable >
Network Service Service Parameter Name Service Parameter Value
Foreign Exchange Selection V Foreign Exchange
- Save Delete Copy Add New
(i) *- indicates required item.
<u> </u>
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Translation Pattern for ELINs

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Translation Pattern Configuration	Related Links: 🖪 Back To Find/List 💌 Go
🔚 Save 🗶 Delete 🗋 Copy 🕂 Add New	
🖵 Status —	
i Status: Ready	
└─ Pattern Definition ────	
Translation Pattern 408527XXXX	
Partition E911	
Description	
Numbering Plan < None >	
Route Filter < None >	
MLPP Precedence* Default	
Calling Search Space E911CSS	
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*	
Connected Party Transformations Connected Line ID Presentation* Default	
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PSAP Gateway configuration (CAMA TRUNK)

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Gateway Configuration		Related Links: Back To Find/List	Go
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Status Status: Ready			
- Device Information			
Product	H.323 Gateway		
Device Protocol Registration	H.225 Unknown		
IP Address	172,20,8,26		
Device Name*	172.20.8.26		
Description	172.20.8.26		
Device Pool*	Default	v	
Common Device Configuration	< None >	v	
Call Classification*	Use System Default	V	
Media Resource Group List	< None >	×	
Packet Capture Mode*	None	×	
Packet Capture Duration	0		
Location*	Hub_None	v	
AAR Group	< None >	V	
Tunneled Protocol*	None	v	
Signaling Port*	1720		
Media Termination Point Required			
Retry Video Call As Audio			
☑ Wait for Far End H.245 Terminal Capability Set			
Path Replacement Support			
Transmit UTF-8 for Calling Party Name			
SRTP Allowed - When this flag is checked, IPSec ne	eds to be configured in the network to provide end to en	d security. Failure to do so will expose keys and other information.	
Multilevel Precedence and Preemption (MLPP) 1	nformation		
MLPP Domain < None >	✓		
MLPP Indication Not available on this device			
MLPP Preemption Not available on this device			
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— Call Routing Informatio	on - Inbound	Calls —			
Significant Digits*	All		*		
Calling Search Space	E911CSS		*		
AAR Calling Search Space	< None >		*		
Prefix DN					
🔲 Redirecting Number IE	Delivery - Inb	ound			
🔲 Enable Inbound FastSta	art				
Call Routing Information Calling Party Selection*	on - Outbour				
		Originator			
Calling Party Presentation*	ĸ	Default		✓	
Called party IE number typ	pe unknown*	Cisco CallManager		✓	
Calling party IE number ty	pe unknown*	Cisco CallManager		✓	
Called Numbering Plan*		Cisco CallManager		✓	
Calling Numbering Plan*		Cisco CallManager		✓	
Caller ID DN					
🔲 Display IE Delivery					
Redirecting Number IE	Delivery - Ou	bound			
Enable Outbound FastS	tart				
Codec For Outbound FastS		G711 u-law 64K		×	
— Save Delete Copy	y Reset	Add New			
(i) *- indicates required	item.				
(i) **- Device reset is n	ot required fo	r changes to Packet Capture Mode and	Packet Cap	pture Duration .	
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Cisco Unified Communications Manager User

End User Configuration	- Microsoft Internet Explorer				
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System - Call Routing - M	Media Resources ▼ Voice Mail ▼ Device ▼ Application ▼	User Management 👻 Bulk Administration 👻 Help 👻			
End User Configuration			Related Links: 🛛 Back to Find List Users 🔽 Go		
🔚 Save 🗙 Delete 🕂	Add New				
			~		
Status					
-					
User Information	certest				
Password		Edit Credential			
Confirm Password					
PIN	•••••	Edit Credential			
Confirm PIN	•••••				
Last name*	CER				
Middle name					
First name					
Telephone Number					
Mail ID					
Manager User ID					
Department User Locale					
Associated PC	< None >				
Digest Credentials					
Confirm Digest Credentials	5				
Device Associations Controlled Devices CERSe					
RP911 RPELI		Device Association			
	4910				
Extension Mobility	(r				
Available Profiles					
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End User Configuration - Micro	osoft Internet Explorer			_ 6 X
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Cisco Unified	CM Administration			Navigation Cisco Unified CM Administration 🔽 🙆
	sources 👻 Voice Mail 👻 Device 👻 Applica	tion 👻 User Manag	ement 👻 Bulk Administration 👻 Help 👻	CCMAdministrator About Logout
End User Configuration				Related Links: Back to Find List Users 💌 Go
🔚 Save 🗙 Delete 斗 Add N	ew	_		
Extension Mobility				^
Available Profiles				
Controlled Profiles	**			
Condicida Promos			*	
			~	
Default Profile Presence Group*	Not Selected Standard Presence group	*		
SUBSCRIBE Calling Search Space		*		
Allow Control of Device from C	TI			
Directory Number Association				
Primary Extension < None >	v			
Mobility Information				
Enable Mobility				
Maximum Wait Time for Desk Pick	up* 10000			
Remote Destination Limit* Remote Destination Profiles	4			
		د	/iew Details	
Access Lists				
			/iew Details	
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Associated CAPF Profiles				
🕘 Done				🞽 🔒 📢 Local intranet
- CARE Information				
Associated CAPF Profiles				
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Permissions Information —				
Groups Standard CTI Allow Call Standard CTI Enabled	ing Number Modification	Add to L	Jser Group	
	View Deta		ve from User Group	
Roles Standard CTI Allow Call		202		
Standard CTI Enabled				
	View Deta	ails		
— Save Delete Add New]			
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T1-QSIG Gateway

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Address 🙆 https://172.20.110.254	:8443/ccmadmin/gatewayEdit.do?key=8c8d2	f3-34f2-ad6a-956e-de05a3c92784	💌 🔁 Go 🛛 Links 🍟
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	d Communications Solutions		CCMAdministrator About Logout
System 👻 Call Routing 👻 Media	Resources 👻 Voice Mail 👻 Device 👻	Application User Management Bulk Administration	
Gateway Configuration			Related Links: 🛛 Back to MGCP Configuration 💌 😡
🔚 Save 🗶 Delete 🛯 Re	eset		
			~
Status			
(1) Status: Ready			
Device Information Product	Cisco MGCP T1 Port		
Gateway	tonycmm		
Device Protocol	Digital Access PRI		
Registration	Registered with Cisco Unified Commu	nications Manager CM-BARZA	
	172.20.8.253		
End-Point Name * Description	S1/DS1-0@tonycmm		
	S1/DS1-0@tonycmm		
Device Pool*	Default	*	
	MigratedCommonDeviceConfig1	▼	
Call Classification*	Use System Default	▼	
NetworkLocale	< None >	×	
Media Resource Group List	< None >	~	
Location*	Hub_None	~	
AAR Group	< None >	▼	
Load Information			
Transmit UTF-8 for Calling F	Party Name		
Multilevel Precedence and	Preemption (MLPP) Information		
MLPP Domain < None >		v	
MLPP Indication Not available			
MLPP Preemption Not available	on this device		
Interface Information —			
PRI Protocol Type*	PRI ISO QSIG T1	~	
Protocol Side*	Network	×	
Channel Selection Order*	Bottom Up	×	
Channel IE Type*	Timeslot Number	×	
PCM Type*			
	ticks)*	×	
Delay for first restart (1/8 sec	ticks)* 32		M
Done			🔒 🔍 Local intranet



🗿 Gateway Configuration - Microsoft I	iternet Explorer	
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Gateway Configuration		Related Links: Back to MGCP Configuration 💌 Go
🔚 Save 🗙 Delete		
Delay between restarts (1/8 sec ticks)*	4	<u>~</u>
Inhibit restarts at PRI initialization		
Enable status poll		
Unattended Port		
Call Routing Information - Inbound Significant Digits*	Calls	
Calling Search Space PhonesCSS	×	
AAR Calling Search Space < None >	×	
Prefix DN		
Call Routing Information - Outbour	d Calls —	
Calling Party Presentation*	Default	
Calling Party Selection*	Originator 🗸	
Called party IE number type unknown*	Cisco CallManager	
Calling party IE number type unknown*	Cisco CallManager	
Called Numbering Plan*	Cisco CallManager	
Calling Numbering Plan*	Cisco CallManager	
Number of digits to strip*	0	
Caller ID DN		
SMDI Base Port*	0	
— PRI Protocol Type Specific Informa	tion	
Display IE Delivery		
Redirecting Number IE Delivery - Ou	bound	
Redirecting Number IE Delivery - Int		
Send Extra Leading Character in Disp		
Setup non-ISDN Progress Indicator I		
MCDN Channel Number Extension Bit		
Send Calling Name In Facility IE		
Interface Identifier Present**		×
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a Gateway Configuration - Microsoft Internet Explorer	
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System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻	
Gateway Configuration	Related Links: Back to MGCP Configuration 💌 Go
🔚 Save 🗶 Delete Peset	
Send Extra Leading Character in Display IE***	<u>^</u>
Setup non-ISDN Progress Indicator IE Enable****	
CDN Channel Number Extension Bit Set to Zero**	
Send Calling Name In Facility IE	
Interface Identifier Present**	
Interface Identifier Value**	
Connected Line ID Presentation (QSIG Inbound Call)* Default	
UUIE Configuration	
Passing Precedence Level Through UUIE	
Security Access Level* 2	
Product Specific Configuration Layout	
Clock * External ✓ Input Gain (-614 db) * 0	
Output Attenuation (-614 db)*	
Echo Cancellation Enable * Enable	
Echo Cancel Coverage (ms)* 64	
- Save) Delete Reset	
(i) *- indicates required item.	
(i) **- applies to DMS-100 protocol only.	
i ***- applies to DMS-100 protocol and DMS-250 protocol only.	
(i) ****- may be required to force ringback from some PBXs.	
i *****- Device reset is not required for changes to Packet Capture Mode and Packet Capture Duration.	
a Done	ڬ 🔒



Route Pattern to QSIG Trunk

Pattern Configuration - Microsoft Internet Explorer	
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System ▼ Call Routing ▼ Media Resources ▼ Voice Mail ▼ Device ▼ Application ▼ User Management ▼ Bulk Administration ▼ H	▼ qia
Route Pattern Configuration	Related Links: Back To Find/List 💌 Go
🔚 Save 🗶 Delete 📔 Copy 🕂 Add New	
	^
Status	
(1) Status: Ready	
← Pattern Definition	
Route Pattern* 40XX	
Route Partition < None >	
Description	
Numbering Plan Not Selected	
Route Filter < None >	
MLPP Precedence* Default	
Gateway/Route List* S1/DS1-0@tonycmm (Edit) Route Option Route this nattern	
Route Option O Route this pattern O Block this pattern No Error	
Call Classification* OffNet	
Allow Device Override V Provide Outside Dial Tone Allow Overlap Sending Urgent Priority	
Require Forced Authorization Code	
Authorization Level*	
Require Client Matter Code	
Calling Party Transformations	
Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	
Prefix Digits (Outgoing Calls)	
Calling Line ID Presentation* Default	
Calling Name Presentation* Default	
Connected Party Transformations —	
Connected Line ID Presentation* Default	
Connected Name Presentation* Default	
Done 🕘 Done	🔒 😒 Local intranet

Note: For detailed information regarding QSIG interoperability between CCM and NEC PBX go to: http://www.cisco.com/warp/public/779/largeent/avvid/inter_operability/flash/portal.html

SNMP service must be active

Perform	ance and Monitoring Services	
	Service Name	Activation Status
V	Cisco Serviceability Reporter	Activated
	Cisco CallManager SNMP Service	Activated



Configuring Cisco Emergency Responder

Cisco Unified Communications Manager Details

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System	Reports 🕶 Tools 🕶 Help	•	Logged in as. CERAdminist		Loquat
Cisco Unified Communications Manager Clusters					
					^
Status Please enter any change for the current Cisco Unified Communications Manager					
Modify Cisco Unified Communications Manager Cluster Gisco Unified Communications Manager *	172.20.110.254	Cisco Unified Communications Managers List			
CTI Manager *	172.20.110.254				
CTI Manager User Name *	certest]			
CTI Manager Password *	•••••				
BackUp CTI Manager 1]			
BackUp CTI Manager 2					
Telephony Port Begin Address	4250]			
Number of Telephony Ports	2]			
- Secure Connection Parameters					
Enable Secure Connection **					
TFTP Server IP Address **	null]			=
TFTP Server Port **	69]			
Backup TFTP Server IP Address	null]			
CAPF Server IP Address **]			
CAPF Server Port **	3804]			
Instance ID for Publisher**]			
Secure Authentication String for Publisher **]			
	Update Cancel	Changes			
Cisco Unified Communications Manager Clusters					
Add New					
Cisco Unified Co	mmunications Manager		Edit	Delete	
172.20.110.254			1	1	
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Cisco Emergency Responder Server group

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CISCO For Cisco Unified Communications Solutions	
System V ERL V Phone Tracking V ERL Membership V User Management	Logged in as: CERAdministrator <u>About</u> <u>Loqout</u>
Cisco ER Group Settings	
Ready	
Specify server group attributes Cisco ER Group Name *	CERServerGroup
Peer TCP Port *	17001
Heart beat Count *	3
Heart beat Interval (in sec) *	30
Active Call Time out (in min) *	180
SMTP Mail Server	
Source Mail ID	
System Administrator Mail ID	
SysLog	disable
Syslog Server	
Notes	
	Update Settings Cancel Changes
(i) * indicates required item ** required if SMTP Mail Server is configured	
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Telephony Settings

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Cisco Emergency Responder Administ	ration	Navigation Cisco ER Administr	ation	🔽 Go
CISCO For Cisco Unified Communications Solutions	L	ogged in as: CERAdministrator	About	<u>Loqout</u>
System ▼ ERL ▼ Phone Tracking ▼ ERL Membership ▼ User Managemen	t ✔ Reports ✔ Tools ✔ Help ✔			
Telephony settings				
Ready				
- Specify telephony attributes				
Route Point for Primary Cisco ER Server *	911			
Route Point for Standby Cisco ER Server	912			
PSAP Callback Route Point Pattern *	913XXXXXXXXX			
ELIN Digit Strip Pattern *	913			
UDP Port Begin *	32000			
Inter Cisco ER Group Route Pattern				
IP Type of service (00-FF) *	0x b8			
Onsite Alert Prompt Repeat Count *	2			
Use IP Address from call signaling	✓ Enable (Effective only for Cisco Unified Communications Manager 6.0 and above)			
	Update Settings Cancel Changes			
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Server Settings

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System + ERL + Phone Tracking + ERL Membership + User Management + Reports + Tools + Help +	as, cerauministrator	
Server Settings for CERServerGroup		
🗂 Status —		
Ready		
← Select Server		
Publisher (primary)		
Modify Server Settings Server Name * Publisher		
Host Name CER		
Debug Package List Select All Clear All		
Debug Package List Select All Clear All V CER_DATABASE V CER_SYSADMIN		
✓ CER_CALLENGINE		
]
Trace Package List Select All Clear All]
CER_DATABASE CER_SYSADMIN		
CER_PHONETRACKINGENGINE CER_AGGREGATOR		
Update Settings Cancel Changes		
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ERLs List

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System 👻 ERL	✓ Phone Tracking ✓ ERL Membership ✓ User Man	agement 🕶 Reports 🕶 To	ools 👻 Help 👻						
Find ERL Data								<u>Expo</u>	r <u>t Import</u>
— Status ———									
Ready									
– ERL Search Pa									
Find ERL where		Fin	and show 20	🖌 items per page					
ERL (1 - 4 d	of 4)								
Configure	Default ERL Add New ERL								
ERL Name	Route/Translation PatternELIN	Onsite Alert Ids.	Street Name	Community Name	State	Edit	Сору	Delete	Audit Trail
Default	1009114000		<u>tasman</u>	cisco	ca	1	c,	8	view
Test 1	<u>109114085274</u>		<u>tasman</u>	<u>big sky</u>	ca	1	_ C	8	view
test 2	<u>119114085274</u>		<u>tasman</u>	<u>cisco</u>	<u>ca</u>	1	Ŀ₽	1	view
test 3	<u>139114085274</u>		<u>tasmsan</u>	<u>cisco</u>	<u>ca</u>	1	Ľ₽	1	view
Configure	Default ERL Add New ERL							I I 🖸 🖸	of 1 🕨 🕨
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ERL ²

Cisco Emergency Responder Administration - Microsoft Internet Explorer	
Cisco Emergency Responder Administration For Cisco Unified Communications Solutions	
ERL Information for Test 1	2
ERL Settings ERL Name * Description Test ERL (Used for Synthetic Testing)	
ELIN Settings Route/Translation pattern 10911 Add Update 4085274200	
Onsite Alert Settings Available Onsite Alert IDs Add Remove	
ALI Details Edit ALI	
Update Copy Cancel Changes Close	
🙆 Done 🕒 🔒 🧐 Local intranet	

ERL 2

🕘 Cisco Eme	ergency Responder Administration - Microsoft Internet Explorer
cisco	Cisco Emergency Responder Administration For Cisco Unified Communications Solutions
ERL Inform	ation for test 2
F ERL Settin ERL Name * Description Test ERL (Us	ed for Synthetic Testing)
ELIN Setti Route/Trans 11911 ELIN 4085274201	lation pattern Add Update Remove
	Add Remove
— ERL Addre ALI Details	Edit ALI
0	Copy Cancel Changes Close
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ERL 3

Cisco Emergency Responder Administration For Cisco Unified Communications Solutions ERL Information for test 3
ERL Information for test 3
ERL Settings ERL Name * test 3 Description
ELIN Settings Route/Translation pattern 13911 Add Update 4085274203
Onsite Alert Settings Available Onsite Alert IDs Add Remove
ERL Address ALI Details Edit ALI
- Update Copy Cancel Changes Close i * indicates required item Done



SNMP connection

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Navigation Cisco Emergency Responder Administration	🔽 Go				
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System • ERL • Phone Tracking • ERL Membership • User Management • Reports • Tools • Help •					
SNMP Settings					
Status Please enter any change for the current SNMP Setting					
Modify SNMP Community Setting IP Address/Host Name * 172.20.8.20					
Timeout (in seconds) * 10					
Maximum Retry Attempts * 2					
Read Community public					
Update Cancel Changes					
SNMP Settings					
Add New					
IP Address/Host Name Timeout (in seconds) Maximum Retry Attempts Read Community	Delete				
<u>172.20.8.20</u> <u>10</u> <u>2</u> <u>public</u>	Û				
Add New					
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LAN Switch identifying

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System • ERL • Phone Tracking • ERL Membership • User Management • Reports • Tools • Help •			
LAN Switch Details		<u>Export</u>	<u>Import</u>
C Status			
Please enter any change for the current LAN Switch			
CAN Switch Details Switch Host Name / IP Address * 172.20.8.20			
Description			
Enable CAM based Phone Tracking			
Update Cancel Changes Locate Switch-Ports			
LAN Switches			
Add LAN Switch			
Switch Host Name / IP Address	Edit		Delete
172.20.8.20	ľ		Û
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_	Port Details						<u>Export Import</u>
	For Details	172.20.8.20	3/20	View			
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		172.20.8.20	3/22	View			
		172.20.8.20	3/22	View			
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		172.20.8.20	3/25	View			
		172.20.8.20	3/25	View			
		172.20.8.20	3/27	View			
		172.20.8.20	3/28	View			
		172.20.8.20	3/29	View			
		172.20.8.20	3/30	View			
		172.20.8.20	3/31	View			
		172.20.8.20	3/32	View			
		172.20.8.20	3/33	View			
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		172.20.8.20	3/36	View			
		172.20.8.20	3/37	View			
		172.20.8.20	3/38	View			
		172.20.8.20	3/39	View			
		172.20.8.20	3/40	View			
		172.20.8.20	3/41	View	3014	172.20.110.250	Cisco 7971
		172.20.8.20	3/42	View	3013	172.20.110.251	Cisco 7971
	test 3	172.20.8.20	3/43	View	3012	172.20.110.252	Cisco 7940
		172.20.8.20	3/44	View			
		172.20.8.20	3/45	View			
	test 3	172.20.8.20	3/46	View	3011	172.20.110.253	Cisco 7960
		172.20.8.20	3/47	View			
		172.20.8.20	3/48	View			
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Defining Manual Phones (PBX Stations)

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Find and List Manually Configured Phones		<u>Export</u>	<u>Import</u>
Status			
Ready			
Manual Phone Search Parameters			
Find manual phones where Line Number contains 🗸 🛛 Find and show 20 🗸 items per page			
Manually Configured Phones (1 - 2 of 2)			
Add new Manual phone			
Line Number ERL Name IP Address MAC Address	Location	Edit	Delete
4050 test 2		1	1
4054 Test 1		P	8
Add new Manual phone			of 1 🕨 🔰
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Modify Manual Phone	
Status Please enter any change for the current Manual Phone	
Modify Manual Phone	
MAC Address	
IP Address	
Phone Type	
Version	
Location	
ERL Name * Test 1	iearch ERL
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Modify Manual Phone	
- Status	
Please enter any change for the current Manual Phone	
r Modify Manual Phone	
Line Number * 4050	
MAC Address	_
IP Address Phone Type	
Version	
Location	
ERL Name * test 2 Search ERL	
Update Cancel Changes Add new Manual phone	
Indicates required item	
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Configuring the Cisco CMM IOS Gateway MGCP for QSIG connectivity

tonycmm#sh run

Building configuration...

Current configuration : 2077 bytes

!

version 12.4



no service pad

service timestamps debug datetime msec service timestamps log datetime msec no service password-encryption ! hostname tonycmm ! boot-start-marker boot system bootflash:wscmm-ipvoicek9-mz.124-11.T.bin boot-end-marker ! logging buffered 10000000 no logging console enable password cisco ! no aaa new-model mmi polling-interval 60 no mmi auto-configure no mmi pvc mmi snmp-timeout 180 ! ! no ip domain lookup ip host CM-BARZA 172.20.110.254 multilink bundle-name authenticated ! isdn switch-type primary-qsig ! ١ ! ١ ١ 1 1 ! !

```
!
!
!
1
1
!
controller T1 1/0
pri-group timeslots 1-24 service mgcp
!
controller T1 1/1
!
controller T1 1/2
!
controller T1 1/3
!
controller T1 1/4
!
controller T1 1/5
!
!
!
!
interface GigabitEthernet1/0
ip address 172.20.8.253 255.255.255.0
no ip proxy-arp
no negotiation auto
no keepalive
!
interface Serial1/0:23
no ip address
encapsulation hdlc
no logging event link-status
isdn switch-type primary-qsig
isdn protocol-emulate network
isdn incoming-voice voice
isdn bind-13 ccm-manager
```

```
no cdp enable
!
ip default-gateway 172.20.8.1
ip route 0.0.0.0 0.0.0.0 172.20.8.1
!
no ip http server
no ip http secure-server
!
!
control-plane
!
!
voice-port 1/0:23
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server CM-BARZA
ccm-manager config
!
mgcp
mgcp call-agent CM-BARZA 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
mgcp package-capability pre-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
```

!

! ! ! ! line con 0 password cisco transport output all line vty 04 exec-timeout 0 0 password cisco login transport input all transport output all ! ! end

tonycmm#

Cisco 3825 IOS Gateway H323 configuration for CAMA trunk connectivity

CAMA_GW#sh run Building configuration...

Current configuration : 1241 bytes

!

version 12.4

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname CAMA_GW

!

boot-start-marker

boot-end-marker

!



enable password cisco
1
no aaa new-model
ip cef
1
1
1
1
multilink bundle-name authenticated
1
voice-card 0
no dspfarm
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
!
1
1
1

```
!
interface GigabitEthernet0/0
ip address 172.20.8.26 255.255.255.0
duplex auto
speed auto
media-type rj45
no keepalive
!
interface GigabitEthernet0/1
no ip address
shutdown
duplex auto
speed auto
media-type rj45
no keepalive
!
ip route 0.0.0.0 0.0.0.0 172.20.8.1
!
!
ip http server
no ip http secure-server
!
!
!
!
control-plane
!
!
!
voice-port 0/2/0
signal cama KP-0-NPA-NXX-XXXX-ST
dial-type mf
timing hookflash-out 500
description CAMA
!
voice-port 0/2/1
```

```
!
voice-port 0/3/0
!
voice-port 0/3/1
!
!
!
!
!
dial-peer voice 911 pots
destination-pattern 911
no digit-strip
port 0/2/0
forward-digits all
!
dial-peer voice 999 voip
description Call-in PSTN simulation
destination-pattern .T
session target ipv4:172.20.110.254
!
!
!
line con 0
password cisco
login
stopbits 1
line aux 0
stopbits 1
line vty 04
password cisco
login
!
scheduler allocate 20000 1000
!
end
```



CAMA_GW#



CAMA voice-port config

CAMA_GW#sh voice port 0/2/0

Foreign Exchange Office 0/2/0 Slot is 0, Sub-unit is 2, Port is 0 Type of VoicePort is FXO Operation State is DORMANT Administrative State is UP The Last Interface Down Failure Cause is Administrative Shutdown Description is CAMA Noise Regeneration is enabled Non Linear Processing is enabled Non Linear Mute is disabled Non Linear Threshold is -21 dB Music On Hold Threshold is Set to -38 dBm In Gain is Set to 0 dB Out Attenuation is Set to 3 dB Echo Cancellation is enabled Echo Cancellation NLP mute is disabled Echo Cancellation NLP threshold is -21 dB Echo Cancel Coverage is set to 64 ms Echo Cancel worst case ERL is set to 6 dB Playout-delay Mode is set to adaptive Playout-delay Nominal is set to 60 ms Playout-delay Maximum is set to 250 ms Playout-delay Minimum mode is set to default, value 40 ms Playout-delay Fax is set to 300 ms Connection Mode is normal Connection Number is not set Initial Time Out is set to 10 s



Interdigit Time Out is set to 10 s Call Disconnect Time Out is set to 60 s Ringing Time Out is set to 180 s Wait Release Time Out is set to 30 s Companding Type is u-law

Region Tone is set for US

Analog Info Follows:

Currently processing none

Maintenance Mode Set to None (not in mtc mode)

Number of signaling protocol errors are 0

Impedance is set to 600r Ohm

Station name None, Station number None

Translation profile (Incoming):

Translation profile (Outgoing):

Voice card specific Info Follows:

Signal Type is cama

Cama Type is KP-0-NPA-NXX-XXXX-ST

Battery-Reversal is enabled

Number Of Rings is set to 1

- Supervisory Disconnect is signal
- Answer Supervision is inactive

Hook Status is On Hook

Ring Detect Status is inactive

Ring Ground Status is inactive

Tip Ground Status is inactive

Dial Out Type is mf

Digit Duration Timing is set to 75 ms



InterDigit Duration Timing is set to 65 ms Pulse Rate Timing is set to 10 pulses/second InterDigit Pulse Duration Timing is set to 750 ms Percent Break of Pulse is 60 percent GuardOut timer is 2000 ms Minimum ring duration timer is 125 ms Hookflash-in Timing is set to 600 ms Hookflash-out Timing is set to 500 ms Supervisory Disconnnct Timing is set to 350 ms OPX Ring Wait Timing is set to 6000 ms CAMA_GW#

CAT6k configuration Console> (enable) sh snmp SNMP: Enabled RMON: Disabled Extended RMON Netflow Enabled : None. Memory usage limit for new RMON entries: 85 percent Engineld: 00:00:00:09:00:01:97:31:c8:00:00:00 Chassis Alias: Traps Enabled: None Port Traps Enabled: None

Community-Access Community-String

read-only public read-write private read-write-all secret

Additional- Access-Community-String Access-Type Number View

Trap-Rec-Address Trap-Rec-Community Trap-Rec-Port Trap-Rec-Owner Trap-Rec-Index

Console> (enable) sh cdp CDP : enabled



Message Interval : 60 Hold Time : 180 Version : V2 Device Id Format : Other Console> (enable)

set interface sc0 109 172.20.8.20/255.255.255.0 172.20.8.255



Configuring the NEC IPX2400 PBX

The NEC requires a substantial amount of programming and circuit card switch settings to properly install T1 PRI. It is beyond the scope of this document to provide the entire configuration, therefore the NEC information below is directed to NEC techs

The switch settings and software references in this document assume a familiarity with the NEC 2400. It is highly recommended to have a NEC ISDN certified technician setup the NEC portion.

Configure in the following sequence:

Install Circuit Card

Configure all software

Circuit Card Configuration (PA-24PRTB)

Switch	Position	Description	Settings
MB		Make Busy	Down
	0	Internal Loop Back	Off
LB	1	External Loop Back	Off
LB	2	Payload Loop Back	Off
	3	Dch Control Block MBR	Off
SENSE		Protocol	А
(Rotary)		0 = CCIS (NEC proprietary)	
		1 = NI2	
		3 = INS1500	
		5 = AT&T (#4 & #5 ESS)	
		7 = Nortel DMS100/DMS250	
		A = Q.SIG	
	1	ON = Impedance 100 ohms	ON
		OFF = Impedance 110 ohms	
SW0	2	XMT XFMR Ground	OFF
	3	RCV XFMR Ground	OFF
	4	Fixed On	ON
	1	Digital PAD ROM Count	OFF
		Off $= 2$ ROM chips on board	
		On = 3 ROM chips on board	
SW1	2	Fixed On	ON
	3	ON = 24B	OFF
		OFF = 23B + D	
	4	D-Channel Packet Service	OFF
SW2	1	Equalizer	ON
	2	Equalizer	ON
	3	Equalizer	ON
	4	12/24 Multiframe	ON
	5	AMI/B8ZS	ON
	6	4K Data Link Control	ON
	7	4K Data Link Control	OFF
	8	Fixed ON	ON
SW3	1	RMT Alarm	OFF
	2	RMT Alarm	OFF
	3	Fixed Off	OFF
	4	All "1" Supervision	OFF
	5	Fixed On	ON
	6	Fixed On	ON
	7	Fixed On	ON

	8	Fixed On	ON
SW4	1	Fixed Off (Protocol Selection)	OFF
	2	ON = User	ON
		OFF = Network	
	3	Dch Signal Logic	OFF
	4	Dch Speed Selection	ON
	5	Dch Speed Selection	ON
	6	Fixed On	ON
	7	Fixed On	ON
	8	Fixed On	ON
SW5	1	PAD	ON
	2	PAD	ON
	3	PAD	ON
	4	PAD	ON
	5	PAD	ON
	6	PAD	ON
	7	PAD	ON
	8	Idle Code	OFF

Route (ARTD) Configuration

[IPX-R15_IP::LRTD]

January 27,2006

* Route Class Data List * Ending Starting rt 2 rt 3

RT 2

CDN		Data	CDN		Data	CDN		Data
001	OSGS	0	043	BT	1	085	CSEU	0
002	ONSG	2	044	PRV	0	086	CSEL	0
003	ISGS	0	045	A/D	1	087	CMP	0
004	INSG	2	046	CW	0	088	TALK	0
005	TF	3	047	TPQ	0	089	FOT	0
006	TCL	4	048	BL	0	090	RST	0
007	L/T	1	049	TRKS	0	091	TOCI	0
800	RLP	2	050	DPLY	1	092	TOCD	0
009	ТQ	0	051	ACD	0	093	ODGD	0
010	SMDR	0	052	2W/4W	0	094	RLS	0
011	TD	0	053	FAAT	0	095	GWD	0
012	DR	0	054	GW	0	096	Н1	0
013	AC	1	055	TCMA	0	097	DT	0
014	TNT	0	056	SMDR3	0	098	CI	0
015	LSG	12	057	HDT	0	099	OID	0
016	SMDR2	0	058	CD	0	100	TKS	0
017	H/M	0	059	CCH	0	101	PAD2	0
018	MC	0	060	TC/EC	0	102	TRM	0
019	ANI	0	061	IRE	0	103	TRPX	0
020	D	0	062	SCR	0	104	LDR	0
021	MSB	0	063	LYER1	0	105	TSC	0
022	MSW	0	064	NET	0	106	SATS	0
023	TR	0	065	INT	10	107	RVPX	0
024	OC	0	066	DC	4	108	DQ	0
025	R/L	0	067	HKS	0	109	SLOV	0
026	RVSD	0	068	SCF	0	110	SDTO	0
027	TL	0	069	SMDR4	0	111	ADVPRA	0
028	ANS	1	070	TCMN	0	112	IND	1
029	TELP	0	071	TCMC	0	113	UUI	0
030	PAD	4	072	MFSP	0	114	DCH	0
031	OGRL	1	073	KPST	0	115	CMRT	0
032	ICRL	1	074	KPPT	0	116	PREF	0

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

NEC Software Release:

DISS 03/31/05 10:08:19:965000 IPX-R15_IP <Lookup:401A> Success:00:0000



Get: Main Memory

Туре	Version	Issue	Date
Main Memory	15	02.00	2003/10/09
Boot ROM	н	02.00	2002/11/20
IP	-	- I	-
ACDP	-	-	-
MAT	15	02.00	2003/09/05
TCP/IP	5	01.00	2003/09/04
PHDP	2	02.00	2003/08/08

Acronyms

Acronym	Definitions
САМА	Analog "Centralized Automatic Message Accounting" E911 Trunk
PSAP	Public Service Answering Point



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