CISCO SYSTEMS

Cisco Unified CallManager 5.0 and Cisco Emergency Responder 1.3 - PBX Interoperability: Nortel Succession PBX with Cisco 3845 T1 QSIG as an MGCP Gateway

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Note: Cisco CallManager is now known as Cisco Unified CallManager in release 4.0 and later releases.

Introduction

The following is an Application Note for Interoperability of a Cisco Unified CallManager 5.0, Cisco Emergency Responder 1.3 and Cisco 3845 with CAMA interface and T1-QSIG trunk with a Nortel Succession PBX interconnected via VWIC-2MFT-T1.

Test emergency 911 call from a PBX digital station was routed to the T1 QSIG trunk, of the Cisco 3845 MGCP gateway, and was correctly associated to the appropriate Emergency Response Location. The call was connected through the Cisco 3845 CAMA trunk to the PSAP Emulator. The Emergency Response Location associated the ten digit DID call back number (ELIN) correctly and sent it to the PSAP, audio connection was also achieved. The PBX digital station was then disconnected.

A return call was originated from an incoming trunk (PSTN side) in the same Cisco Unified CallManager Partition. The number dialed was the DID digits of the 10 digit call back number sent to the PSAP on the previous 911 call (ELIN number). The call was routed through to the PBX digital station that had originated the E911 call. The call was disconnected and an alternate trunk was used to dial the same DID number and the call was routed through, again, to the PBX digital station that had originated the E911 call.

Test emergency 911calls were made from each PBX digital station and Cisco IP phone. All calls were confirmed to select its associated Emergency Response Location and the associated 10 digit DID call back number. In each case, the call was disconnected and the call back number was confirmed to reach the phone that had originated the E911 call.

Emergency 911calls made from a Nortel Succession PBX utilizing a T1 QSIG trunk configured as ISO, associates with the correct Emergency Response Location and routes to the associated PSAP with the correctly formatted 10 digit DID call back number.

The call back DID number routes the return call to the correct phone that had originated the E911 call from the PBX digital phone.

Figure 1 shows the test set-up for interoperability between the Cisco Unified CallManager and Cisco Emergency Responder connected to the PBX via a T1 QSIG trunk using Cisco3845 MGCP Gateway.

Network Topology

Figure 1.   Network Topology or Test Setup
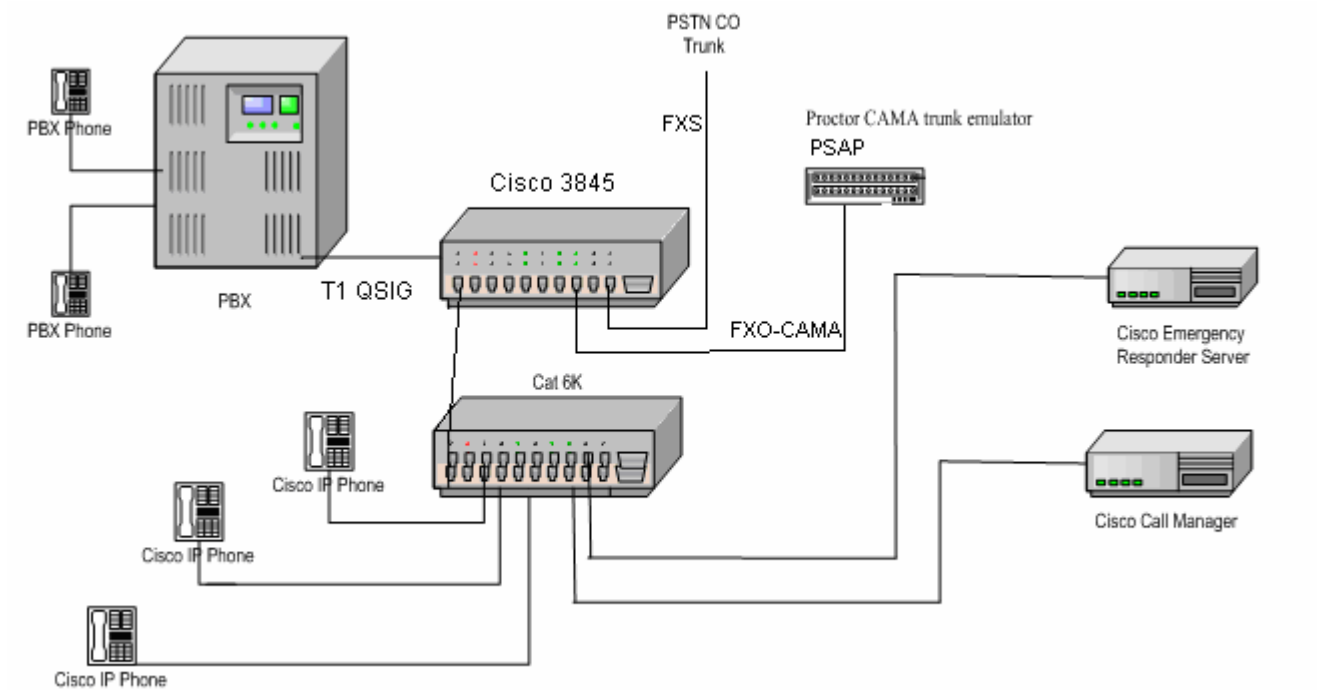
Limitations

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 3845 Gateway with NM-HD/VWIC-2MFT-T1 (QSIG trunk)and NM-HD-V2/VIC2-4FXO (CAMA trunk)

Cisco Catalyst 6x00 switch

Cisco Unified CallManager

Cisco Emergency Responder

Nortel Succession PBX

Software Requirements

Cisco IOS Software releases "c3845-ipvoice-mz.123-14.T4".

PBX Software: Version 2121 Release 4.0

Cisco Unified CallManager 5.0 (1.51-346)

Cisco Emergency Responder 1.3 (0.105)

Features

Calling Number

E911 ERL DID number passed to PSAP

Incoming DID calling to disconnected 911originating caller

Configuration

Cisco Unified CallManager Configuration

Partitions

Phone Partition

E911 Partition

Partition Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search Favorites Media

Address https://172.20.110.254:8443/ccmadmin/partitionEdit.do?key=85f12aea-2767-799f-5769-ebb3817b10f9

Navigation Cisco CallManager Administration Go

Cisco CallManager Administration For Cisco IP Telecommunication Solutions Logged in as:CCMAdministrator

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

Partition Configuration Related Links: Back To Find/List Go

Status
Status: Ready

Partition Name*	E911
Description	E911
Time Schedule	< None >
Time Zone	⦿ Originating Device
	○ Specific Time Zone Greenwich Standard Time

Save Delete Reset Add New

*- indicates required item.

Calling Search Space

Find and List Calling Search Spaces - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address https://172.20.110.254:8443/ccmadmin/cssFindList.do

Navigation Cisco CallManager Administration Go

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

Find and List Calling Search Spaces

Status
2 records found

Search Options
Find where Name begins with Find ☐ Search Within Results
(name begins with any)

Search Results

	CSS Name	Description	Copy
☐	E911CSS		
☐	PhonesCSS	PhonesCSS	

Add New Select All Clear All Delete Selected Rows per Page 50

CSS Phones

Calling Search Space Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address https://172.20.110.254:8443/ccmadmin/cssEdit.do?key=c6323d13-33f1-643e-ee5a-4bbde3d51fe4

Navigation Cisco CallManager Administration Go

Cisco CallManager Administration For Cisco IP Telecommunication Solutions Logged in as:CCMAdministrator

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

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

Status
(i) Status: Ready

Calling Search Space Information
Name* PhonesCSS
Description PhonesCSS

Route Partitions for this Calling Search Space
Available Partitions E911

Selected Partitions
(Ordered by highest priority) Phones

Save Delete Copy Add New

(i) *- indicates required item.

CSS E911

Calling Search Space Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address   https://172.20.110.254:8443/ccmadmin/cssEdit.do?key=5971417e-af33-5df0-cac6-a976303fe2cf

Navigation   Cisco CallManager Administration   Go

Cisco CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as:CCMAdministrator

System ▼   Call Routing ▼   Media Resources ▼   Voice Mail ▼   Device ▼   Application ▼   User Management ▼   Bulk Administration ▼   Help ▼   **Log Off**

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

Status
ⓘ Status: Ready

Calling Search Space Information
Name*   E911CSS
Description

Route Partitions for this Calling Search Space
Available Partitions

Selected Partitions
(Ordered by highest priority)   E911
Phones

Save   Delete   Copy   Add New

ⓘ *- indicates required item.

CCM IP Phones

Phone Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back | ✕ | Search   Favorites   Media

Address   https://172.20.110.254:8443/ccmadmin/phoneEdit.do?key=a0eaee5b-6d54-439b-8063-73426cfffe3c

Protocol Specific Information

Packet Capture Mode*	None
Packet Capture Duration	0
Presence Group*	Standard Presence group
SCCP Phone Security Profile*	Standard SCCP Profile for Auto Registration
SUBSCRIBE Calling Search Space	< None >

☐ Unattended Port
☐ Require DTMF Reception
☐ RFC2833 Disabled

Expansion Module Information

Module 1	< None >
Module 1 Load Name	
Module 2	< None >
Module 2 Load Name	

External Data Locations Information (Leave blank to use default)

Information	
Directory	
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 : 1 : 15 : 12   (YYYY:MM:DD:HH)

Certificate Operation Status: None

File   Edit   View   Favorites   Tools   Help

Back   •   Search   Favorites   Media

Address   https://172.20.110.254:8443/ccmadmin/phoneEdit.do?key=a0eaee5b-6d54-439b-8063-73426cfffe3c

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 : 1 : 15 : 12   (YYYY:MM:DD:HH)

Certificate Operation Status: None

MLPP Information

MLPP Domain   < None >

MLPP Indication*   Default

MLPP Preemption*   Default

Secure Shell Information

Secure Shell User

Secure Shell Password

Product Specific Configuration   ?

☐   Disable Speakerphone
☐   Disable Speakerphone and Headset

PC Port *   Enabled

Settings Access *   Enabled

Gratuitous ARP *   Enabled

PC Voice VLAN Access *   Enabled

Video Capabilities *   Disabled

Auto Line Select *   Disabled

Web Access *   Enabled

Save   Delete   Copy   Reset   Add New

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back | | | | Search | Favorites | Media | | | | | |

Address | 72.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=d94d7e38-9bb2-f352-166e-8e10a21d6727&mapkey=1fe91086-3248-e9be-e251-98522d421330&devicekey=

Cisco CallManager Administration   For Cisco IP Telecommunication Solutions

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

Directory Number Configuration

Status
Status: Ready

Note: Changes to Line or Directory Number settings require restart.

Directory Number Information

Directory Number*	4200
Route Partition	Phones
Description	
Alerting Name	Rafa Marquez
ASCII Alerting Name	Rafa Marquez

☑ Allow Control of Device from CTI

Associated Devices

SEP000A416B8539

Edit Device

Edit Line Appearance

∨ ∧

Dissociate Devices

Directory Number Settings

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

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	☐		N

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address   72.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=d94d7e38-9bb2-f352-166e-8e10a21d6727&mapkey=1fe91086-3248-e9be-e251-98522d421330&devicekey=a0eaee5b-6d54-439b-8063-73426cfffe3c8&index=1   Go

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	☐ or		< None >
Secondary Calling Search Space for Forward All			< None > [Find]
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 >

No Answer Ring Duration (seconds)

Call Pickup Group   < None >

MLPP Alternate Party Settings

Target (Destination)

MLPP Calling Search Space   < None >

MLPP No Answer Ring Duration (seconds)

Line 1 on Device SEP000A416B8539

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

ASCII Display (Internal Caller ID)   Rafa Marquez

Line Text Label   Rafa Marquez

ASCII Line Text Label   Rafa Marquez

External Phone Number Mask

Message Waiting Lamp Policy*   Use System Policy

Ring Setting (Phone Idle)*   Use System Default

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 SEP000A416B8539

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

Maximum Number of Calls*   4

Busy Trigger*   2   (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP000A416B8539

☑ Caller Name

Forwarded Call Information Display on Device SEP000A416B8539

☑ Caller Name

☑ Caller Number

☑ Redirected Number

☑ Dialed Number

CTI Route Points

Find and List CTI Route Points - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address https://172.20.110.254:8443/ccmadmin/ctiRoutePointFindList.do

Navigation Cisco CallManager Administration | Go

Cisco CallManager Administration For Cisco IP Telecommunication Solutions   Logged in as:CCMAdministrator

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

Find and List CTI Route Points

Status
ⓘ 2 records found

Search Options
Find CTI Route Point where Device Name ▾ begins with ▾ [   ] **Find** ☐ Search Within Results

Select item or enter search text ▾

(device.name begins with any)

Search Results

	Device Name	Description	Device Pool	Calling Search Space	Status	IP Address	Copy
☐	RP911	RP911	Default	E911CSS	Registered with CM-BARZA	172.20.110.254	🗋
☐	RPELIN913	RPELIN913	Default	E911CSS	Registered with CM-BARZA	172.20.110.254	🗋

Add New | Select All | Clear All | Delete Selected | Reset Selected   Rows per page 50 ▾

CTI Route Point 911

CTI Route Point Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back   •   🗴   🔁   🏠   🔍 Search   ⭐ Favorites   🌐 Media   ✉   ✏   🖨   📋   📁   🕮

Address   https://172.20.110.254:8443/ccmadmin/ctiRoutePointEdit.do?key=7c251286-8dd7-d6eb-3273-3b9866451bfe

Navigation   Cisco CallManager Administration   Go

Cisco CallManager Administration   For Cisco IP Telecommunication Solutions

Logged in as:CCMAdministrator

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

CTI Route Point Configuration

Related Links: Back To Find/List   Go

Status
ⓘ Status: Ready

Device Information

Registration	Registered with Cisco CallManager CM-BARZA
IP Address	172.20.110.254
Device Name *	RP911
Description	RP911
Device Pool *	Default (View Details)
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

Line [1] - 911 in Phones

Line [2] - Add a new DN

Save   Delete   Copy   Reset   Add New

ⓘ *- indicates required item.

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back · → · ✖ ⟳ ⌂ | 🔍 Search ⭐ Favorites 🌐 Media 🎬 | 📧 · 🖨 📄 📒 📖

Address 🔗 172.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=1c21adc8-4a7f-c542-1edc-48dae579453a&mapkey=079adbfb-093d-f2c8-582e-48360dc5096c&devicekey=7c251286-8dd7

Nav

Cisco CallManager Administration   For Cisco IP Telecommunication Solutions

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

Directory Number Configuration

💾 ✖ 📄 📑 ➕

Status
ⓘ Status: Ready

Note: Changes to Line or Directory Number settings require restart.

Directory Number Information

Directory Number*	911
Route Partition	Phones ▾
Description	
Alerting Name	
ASCII Alerting Name	

Associated Devices

RP911

[**Edit Device**]
[**Edit Line Appearance**]

˅ ˄

Dissociate Devices

Directory Number Settings

Voice Mail Profile	< None > ▾	(Choose <None> to use system default)
Calling Search Space	E911CSS ▾	
Presence Group*	Standard Presence group ▾	
AAR Group	< None > ▾	
User Hold Audio Source	< None > ▾	
Network Hold Audio Source	< None > ▾	

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	☐ or		< None > ▾
Secondary Calling Search Space for Forward All			< None > ▾ [Find]

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back | ✕   ⟳   🏠 | 🔍 Search   ⭐ Favorites   ▶ Media | ✉   🖨   📋   📒   📇

Address 172.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=1c21adc8-4a7f-c542-1edc-48dae579453a&mapkey=079adbfb-093d-f2c8-582e-48360dc5096c&devicekey=7c251286-8dd7-d6eb-3273-3b9866451bfe&index=1   ✓   → Go

		Voice Mail Destination	Calling Search Space
Forward All	☐ or		< None > ▼
Secondary Calling Search Space for Forward All			< None > ▼ [Find]
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 ▼
No Answer Ring Duration (seconds)			
Call Pickup Group	< None > ▼		

┌─ **MLPP Alternate Party Settings** ──────────
Target (Destination) [_____]
MLPP Calling Search Space   < None > ▼
MLPP No Answer Ring Duration (seconds) [_____]

┌─ **Line 1 on Device RP911** ──────────
Display (Internal Caller ID)   [_____]   Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)   [_____]
External Phone Number Mask   [_____]

┌─ **Multiple Call/Call Waiting Settings on Device RP911** ──────────
Note:The range to select the Max Number of calls is: 1-10000
Maximum Number of Calls*   [5000]
Busy Trigger*   [4500]   (Less than or equal to Max. Calls)

┌─ **Forwarded Call Information Display on Device RP911** ──────────
☑ Caller Name
☐ Caller Number
☐ Redirected Number
☑ Dialed Number

┌──────────
[Save] [Delete] [Copy] [Reset] [Add New]

ⓘ *- indicates required item.

CTI Route Point 913

CTI Route Point Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search Favorites Media

Address https://172.20.110.254:8443/ccmadmin/ctiRoutePointEdit.do?key=1b95290e-3877-49e0-2105-fee98e3579dc

Navigation Cisco CallManager Administration Go

Cisco CallManager Administration For Cisco IP Telecommunication Solutions   Logged in as:CCMAdministrator

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

CTI Route Point Configuration   Related Links: Back To Find/List Go

Status
ⓘ Status: Ready

Device Information

Registration	Registered with Cisco CallManager CM-BARZA
IP Address	172.20.110.254
Device Name *	RPELIN913
Description	RPELIN913
Device Pool *	Default (View Details)
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

Line [1] - 913XXXXXXXXX in E911

Line [2] - Add a new DN

Save Delete Copy Reset Add New

ⓘ *- indicates required item.

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address 72.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=637289df-f3bc-5656-2c62-a2d2dfeb4e0d&mapkey=d2aa8772-1860-ea8b-9c50-4a07b3bb3081&devicekey=1b95290e

Cisco CallManager Administration For Cisco IP Telecommunication Solutions

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

Directory Number Configuration

Status
ⓘ Status: Ready

Note: Changes to Line or Directory Number settings require restart.

Directory Number Information

Directory Number*	913XXXXXXXXX
Route Partition	E911
Description	
Alerting Name	
ASCII Alerting Name	

Associated Devices

RPELIN913

Edit Device
Edit Line Appearance

∨ ∧

Dissociate Devices

Directory Number Settings

Voice Mail Profile	< None >	(Choose <None> to use system default)
Calling Search Space	E911CSS	
Presence Group*	Standard Presence group	
AAR Group	< None >	
User Hold Audio Source	< None >	
Network Hold Audio Source	< None >	

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search Favorites Media

Address: 72.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=637289df-f3bc-5656-2c62-a2d2dfeb4e0d&mapkey=d2aa8772-1860-ea8b-9c50-4a07b3bb3081&devicekey=1b95290e-3877-49e0-2105-fee98e3579dc&index=1

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	☐ or		< None >
Secondary Calling Search Space for Forward All			< None > [Find]
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 >
No Answer Ring Duration (seconds)			
Call Pickup Group	< None >		

MLPP Alternate Party Settings

Target (Destination)

MLPP Calling Search Space   < None >

MLPP No Answer Ring Duration (seconds)

Line 1 on Device RPELIN913

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

ASCII Display (Internal Caller ID)

External Phone Number Mask

Multiple Call/Call Waiting Settings on Device RPELIN913

Note: The range to select the Max Number of calls is: 1-10000

Maximum Number of Calls*   5000

Busy Trigger*   4500   (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device RPELIN913

☑ Caller Name
☐ Caller Number
☐ Redirected Number
☑ Dialed Number

[Save] [Delete] [Copy] [Reset] [Add New]

ⓘ *- indicates required item.

Note: A Backup CER server was not used during testing therefore CTI route point for 912 was not created.

CTI Port

Directory Number Configuration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address   72.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=72969690-950e-c244-d662-49e15397ba15&mapkey=a1450a7e-7829-94f7-945a-0114c93a96fd&devicekey=a9bc72f0-9

Cisco CallManager Administration   For Cisco IP Telecommunication Solutions

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

Directory Number Configuration

Status
ⓘ Status: Ready

Note: Changes to Line or Directory Number settings require restart.

Directory Number Information

Directory Number*	4250
Route Partition	Phones
Description	
Alerting Name	
ASCII Alerting Name	

Associated Devices

CERSec1   **Edit Device**

                 Edit Line Appearance

Dissociate Devices

Directory Number Settings

Voice Mail Profile	< None > (Choose <None> to use system default)
Calling Search Space	PhonesCSS
Presence Group*	Standard Presence group
AAR Group	< None >
User Hold Audio Source	< None >
Network Hold Audio Source	< None >

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	☐ or		< None >
Secondary Calling Search Space for Forward All			< None > **Find**

Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search Favorites Media |

Address 72.20.110.254:8443/ccmadmin/directoryNumberEdit.do?key=72969690-950e-c244-d662-49e15397ba15&mapkey=a1450a7e-7829-94f7-945a-0114c93a96fd&devicekey=a9bc72f0-90ea-7ed2-cd27-7458661431288&index=1

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	☐ or		< None >
Secondary Calling Search Space for Forward All			< None > [Find]
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 >

No Answer Ring Duration (seconds) [   ]

Call Pickup Group [< None >]

MLPP Alternate Party Settings

Target (Destination) [   ]

MLPP Calling Search Space [< None >]

MLPP No Answer Ring Duration (seconds) [   ]

Line 1 on Device CERSec1

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

ASCII Display (Internal Caller ID) [   ]

External Phone Number Mask [   ]

Multiple Call/Call Waiting Settings on Device CERSec1

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

Maximum Number of Calls* [4]

Busy Trigger* [2] (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device CERSec1

☑ Caller Name
☐ Caller Number
☐ Redirected Number
☑ Dialed Number

[Save] [Delete] [Copy] [Reset] [Add New]

ⓘ *- indicates required item.

Route Patterns for ELINs

Find and List Route Patterns - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back | Search | Favorites | Media

Address https://172.20.110.254:8443/ccmadmin/routePattern2FindList.do?lookup=false&multiple=true&recCnt=0&colCnt=5

Navigation Cisco CallManager Administration Go

Cisco CallManager Administration   For Cisco IP Telecommunication Solutions   Logged in as: CCMAdministrator

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

Find and List Route Patterns

Status
ⓘ 4 records found

Search Options

Find Route Patterns where Pattern ▾ begins with ▾ [   ] **Find** ☐ Search Within Results
(numplan.dnorpattern begins with any)

Search Results

	Pattern	Description	Partition	Route Filter	Associated Device	Copy
☐	10911.		E911		AALN/S3/SU0/0@tony3845	📋
☐	11911.		E911		AALN/S3/SU0/0@tony3845	📋
☐	13911.		E911		AALN/S3/SU0/0@tony3845	📋
☐	40XX				S0/SU0/DS1-0@tony3845	📋

[Add New] [Select All] [Clear All] [Delete Selected]   Rows per Page 50 ▾

Route Pattern 10911

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search Favorites Media

Address https://172.20.110.254:8443/ccmadmin/routePattern2Edit.do?key=71b24584-682f-70e1-8b4a-e464fe41679f

Navigation Cisco CallManager Administration Go

Cisco CallManager Administration For Cisco IP Telecommunication Solutions Logged in as: CCMAdministrator

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

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

Status
ⓘ Status: Ready

Pattern Definition

Route Pattern*	10911.
Route Partition	E911 ▾
Description	
Numbering Plan*	NANP ▾
Route Filter	< None > ▾
MLPP Precedence*	Default ▾
Gateway/Route List *	AALN/S3/SU0/0@tony3845 ▾ (Edit)
Route Option	⦿ Route this pattern
	○ Block this pattern No Error ▾
Call Classification*	OffNet ▾

☐ Allow Device Override ☑ Provide Outside Dial Tone ☐ Allow Overlap Sending ☐ Urgent Priority
☐ Require Forced Authorization Code
Authorization Level* [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* Allowed ▾
Calling Name Presentation* Default ▾

Connected Party Transformations
Connected Line ID Presentation* Default ▾
Connected Name Presentation* Default ▾

Called Party Transformations
Discard Digits PreDot ▾

Called Party Transformations

Discard Digits PreDot

Called Party Transform Mask

Prefix Digits (Outgoing Calls) 4089994200

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

ⓘ *- indicates required item.

Route Pattern 11911

Called Party Transformations

Discard Digits	PreDot ▾
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	4089994201

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]

ⓘ *- indicates required item.

Route Pattern 13911

Route Pattern Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search | Favorites | Media

Address https://172.20.110.254:8443/ccmadmin/routePattern2Edit.do?key=abb889a2-0c3e-e017-acd0-f1f75f8a508f

Navigation Cisco CallManager Administration ▼ Go

Cisco CallManager Administration For Cisco IP Telecommunication Solutions Logged in as:CCMAdministrator

System ▼ Call Routing ▼ Media Resources ▼ Voice Mail ▼ Device ▼ Application ▼ User Management ▼ Bulk Administration ▼ Help ▼ **Log Off**

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

─ **Status** ─
ⓘ Status: Ready

─ **Pattern Definition** ─
Route Pattern*   13911.
Route Partition   E911   ▼
Description   [   ]
Numbering Plan*   NANP   ▼
Route Filter   < None >   ▼
MLPP Precedence*   Default   ▼
Gateway/Route List *   AALN/S3/SU0/0@tony3845 ▼ (Edit)
Route Option   ⦿ Route this pattern
                             ○ Block this pattern No Error ▼
Call Classification*   OffNet   ▼
☐ Allow Device Override ☑ Provide Outside Dial Tone ☐ Allow Overlap Sending ☐ Urgent Priority
☐ Require Forced Authorization Code
Authorization Level*   [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* 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 Transformations

Discard Digits	PreDot ▾
Called Party Transform Mask	
Prefix Digits (Outgoing Calls)	4089994203

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]

ⓘ *- indicates required item.

Translation Pattern for ELINs

PSAP Gateway Configuration (CAMA Trunk)

Cisco Unified CallManager User

End User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back ▾ ⊗ ⊗ ☒ ☒ ☒ 🔍 Search ⭐ Favorites 🎬 Media ⊗ ☒ ▾ 🖨 ☒ ☒ 🔍

Address https://172.20.110.254:8443/ccmadmin/userEdit.do?key=0ccce073-10d1-8474-3289-d265d4be287b

Navigation Cisco CallManager Administration ▾ Go

Cisco CallManager Administration For Cisco IP Telecommunication Solutions Logged in as: CCMAdministrator

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

End User Configuration

Related Links: Back to Find List Users ▾ Go

💾 ❌ ➕

Status
ⓘ Status: Ready

User Information
LDAP Sync Status	Active
User ID*	certest
Password*	●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●
Confirm Password*	●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●
PIN*	Required Field ●●●●●●●●●●●●●●●●●●●●●●●●●●
Confirm PIN*	●●●●●●●●●●●●●●●●●●●●●●●●●●
Last name*	CER
Middle name	
First name	
Telephone Number	
Mail ID	
Manager User ID	
Department	
User Locale	< None >
Associated PC	
Digest Credentials	
Confirm Digest Credentials	

Device Associations
Controlled Devices
CERSec1
RP911
RPELIN913   **Device Association**

Extension Mobility
Available Profiles

Extension Mobility

Available Profiles

[ ] [Find]

˅ ˄

Controlled Profiles

[ ]

Default Profile [< None > ▾]

Presence Group* [Standard Presence group ▾]

SUBSCRIBE Calling Search Space [< None > ▾]

☑ Allow Control of Device from CTI

Directory Number Associations

Primary Extension [< None > ▾]

CAPF Information

Associated CAPF Profiles

[ ] [Edit Profile]

Permissions Information

Groups

[Standard CTI Allow Calling Number Modification
Standard CTI Enabled]

Roles

[Standard CTI Allow Calling Number Modification
Standard CTI Enabled]

[Save] [Delete] [Add New]

ⓘ - indicates required item.

T1-QSIG Gateway

Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back | Search | Favorites | Media

Address https://172.20.110.254:8443/ccmadmin/gatewayEdit.do?key=1c900ebf-86dd-5f13-0423-f1d341c57906

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

☑ Inhibit restarts at PRI initialization
☐ Enable status poll
☐ Unattended Port

Call Routing Information - Inbound Calls

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

Call Routing Information - Outbound Calls

Calling Party Presentation*	Default
Calling Party Selection*	Originator
Called party IE number type unknown*	Unknown
Calling party IE number type unknown*	Unknown
Called Numbering Plan*	Unknown
Calling Numbering Plan*	Unknown
Number of digits to strip*	0
Caller ID DN	
SMDI Base Port*	0

PRI Protocol Type Specific Information

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

Interface Identifier Value** 0

Connected Line ID Presentation (QSIG Inbound Call)* Default

UUIE Configuration

UUIE Configuration

☐ Passing Precedence Level Through UUIE

Security Access Level* [2]

Product Specific Configuration

Line Coding *	B8ZS
Framing *	ESF
Clock *	External
Input Gain (-6..14 db) *	0
Output Attenuation (-6..14 db) *	0
Echo Cancellation Enable *	Enable
Echo Cancellation Coverage (ms) *	8

[Save] [Delete] [Reset]

ⓘ *- indicates required item.

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

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

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

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

Route Pattern to QSIG Trunk

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

SNMP service must be active

Cisco Emergency Responder Configuration

Cisco Unified CallManager Details

Cisco Emergency Responder Administration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address 🔵 http://localhost/cersysadmin/servlet/CERAdminServlet

Cisco ER Groups   ERL   Phone Tracking   ERL Membership   Reports   Tools   Help   Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

◀ Schedule   LAN Switch Details ▶

Cisco CallManager Details

Cisco CallManagers
🖥 172.20.110.254

Status: Please enter any change for the current Cisco CallManager

Modify Cisco CallManager

| New | Update | Delete | Cancel Changes |

Cisco CallManager *   **172.20.110.254**

                                                  CallManager 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

* indicates required item

Cisco Emergency Responder Server Group

Cisco Emergency Responder Administration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address 🔗 http://localhost/cersysadmin/servlet/CERAdminServlet

Cisco ER Groups   ERL   Phone Tracking   ERL Membership   Reports   Tools   Help   Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Telephony Settings ▶

Cisco ER Group Settings

Specify the values for the configuration attributes and then press Update settings

Status : Ready

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 (mandatory if SMTP Server configured)	
System Administrator Mail ID	
Calling Party Modification	enable ▾
SysLog	disable ▾
Syslog Server (mandatory if SysLog enabled) (eg:logserver.cisco.com)	
Notes	

* indicates required item

Update Settings   Cancel Changes

Telephony Settings

Cisco Emergency Responder Administration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

← Back ▾ → ▾ ⊗ ▣ ⌂ | ⊙ Search   ▧ Favorites   ◈ Media   ⊛ | ▷▾ ▤

Address ▣ http://localhost/cersysadmin/servlet/CERAdminServlet?formname=telephony

Cisco ER Groups   ERL   Phone Tracking   ERL Membership   Reports   Tools   Help   Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

◀ Cisco ER Group Settings   Server Settings ▶

Telephony settings

Specify the values for the configuration attributes and then press Update settings.

Status :Ready

UDP Port Begin *	32000
Inter Cisco ER Group Route Pattern	
PSAP Callback Route Point Pattern *	913XXXXXXXXXX
ELIN Digit Strip Pattern *	913
Route Point for Primary Cisco ER Server *	911
Route Point for Standby Cisco ER Server	912

* indicates required item

[Update Settings]   [Cancel Changes]

◀ Cisco ER Group Settings   Server Settings ▶

Server Settings

ERLs List

Cisco Emergency Responder Administration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

⇐ Back ▾ → ▾ ⊗ ⬄ ⌂ | ⬃Search ⬚Favorites ⬚Media ⬚ | ⬄▾ ⬒

Address ⬚ http://localhost/cersysadmin/servlet/CERAdminServlet?formname=zoneconfigframe

Cisco ER Groups   ERL   Phone Tracking   ERL Membership   Reports   Tools   Help   Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

◄ Onsite Alert Settings   SNMP Settings ►

Find and List ERLs

⬚ Export ERL data
⬚ Import ERL data

Find Details of ERLs Where [ERL Name ▾] [contains ▾] [   ] [Find]

and show [20 ▾] items per page

To list all items, click Find without entering any search text.

Configure Default ERL
Add New ERL

Status : Deleted successfully.

Click on record to view/edit.

Matching Records 1 to 4 of 4

ERL Name	Route/Translation Pattern--ELIN	Onsite Alert Ids.	Street Name	Community Name	State	Copy	Delete	Audit Trail
Default	100911--4000		Tasman	cisco	ca	⬚	✖	view..
Test1	10911--4089994....		Tasman	Big Sky	TX	⬚	🗑	view..
Test2	11911--4089994....		Tasman	Big Sky	TX	⬚	🗑	view..
Test3	13911--4089994....		Tasman	Big Sky	TX	⬚	🗑	view..

First | Previous | Next | Last   Page [1]   of 1

Configure Default ERL
Add New ERL

ERL 1

Cisco Emergency Responder Administration - Microsoft Internet Explorer

ERL Information for Test1

* indicates required item

? Help for this screen

ERL Name * **Test1**

Notes [   ]

☐ Test ERL (Select if this ERL is used for Synthetic Testing)

ELIN Settings

Route/Translation pattern
[10911]
ELIN
[4089994200]

[Add]
[Update]
[Remove]

| 10911—4089994200 |

Onsite Alert Settings

Available Onsite Alert IDs

▶
◀

Onsite Alert IDs for the ERL

ERL Address

ALI Details

[Update] [Copy] [Cancel Changes] [Close]

Local intranet

ERL 2

ERL Information for Test2

* indicates required item

? Help for this screen

ERL Name * **Test2**

Notes [   ]

☐ Test ERL (Select if this ERL is used for Synthetic Testing)

ELIN Settings

Route/Translation pattern
[11911]
ELIN
[4089994201]

[Add]
[Update]
[Remove]

| 11911—4089994201 |

Onsite Alert Settings

Available Onsite Alert IDs

▶
◀

Onsite Alert IDs for the ERL

ERL Address

ALI Details

[Update] [Copy] [Cancel Changes] [Close]

ERL 3

ERL Information for Test3

* indicates required item

? Help for this screen

ERL Name * **Test3**

Notes [   ]

☐ Test ERL (Select if this ERL is used for Synthetic Testing)

ELIN Settings

Route/Translation pattern
[   ]   [Add]   13911—4089994203
ELIN   [Update]
[   ]   [Remove]

Onsite Alert Settings

Available Onsite Alert IDs   Onsite Alert IDs for the ERL

[   ]   ▶   [   ]
                         ◀

ERL Address

ALI Details

[Update] [Copy] [Cancel Changes] [Close]

Done   Local intranet

SNMP Connection

Cisco Emergency Responder Administration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

← Back → ⊗ ▣ ⌂ | ⦻Search ▦Favorites ⦿Media ⦾ | ▧▾ ⏎

Address 🔗 http://localhost/cersysadmin/servlet/CERAdminServlet

Cisco ER Groups   ERL   Phone Tracking   ERL Membership   Reports   Tools   Help   Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

◀ Configure ERLs   Schedule ▶

SNMP Settings

- Entries can be added in any order
- IP Address can consist of a wild card '*' or range of values like 20-30 or an exact number.
- Entry that is the closest match will be used for a given switch or Cisco CallManager.
- If no match is found, **public** will be used as the default Read Community string.
- Some valid IP examples:64.20.4.9   64.20-30.30-60.*   *.*.*.*

Status: Please enter any change for the current SNMP Setting

Modify SNMP Setting

IP Address/Host Name *	Timeout(in sec) *	Retries *	Read Community *
172.20.8.20	10	2	public

[New]   [Update]   [Cancel Changes]

* indicates required item

Click on a record to view or modify

IP Address/Host Name	Timeout(in sec)	Retries	Read Community	Delete
172.20.8.20	**10**	**2**	**public**	🗑

◀ Configure ERLs   Schedule ▶

LAN Switch Identifying

Switch Port Details

Cisco Emergency Responder Administration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address http://localhost/cersysadmin/servlet/CERAdminServlet?formname=portconfig&actionname=viewzoneconfig

| Cisco ER Groups | ERL | Phone Tracking | ERL Membership | Reports | Tools | Help | Logout |

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

◀ LAN Switch Details   Configure IP Subnets ▶

Switch Port Details

Find   Configure   Export   Import

View Switch Port Information

Find ports where   ⦿ All   ○ Any of the conditions are satisfied

| ERL Name ▼ | | contains ▼ | | |

Find   More

	172.20.8.20	3/23	View			
	172.20.8.20	3/24	View			
	172.20.8.20	3/25	View			
	172.20.8.20	3/26	View			
	172.20.8.20	3/27	View			
	172.20.8.20	3/28	View			
Test3	172.20.8.20	3/29	View	4201	172.20.110.252	Cisco 7960
Test3	172.20.8.20	3/30	View	4200	172.20.110.253	Cisco 7960
	172.20.8.20	3/31	View			

Defining Manual Phones (PBX Stations)

Cisco Emergency Responder Administration - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

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Address 🔗 http://localhost/cersysadmin/servlet/CERAdminServlet

Cisco ER Groups   ERL   Phone Tracking   ERL Membership   Reports   Tools   Help   Logout

Cisco Emergency Responder Administration
For Cisco IP Telephony Solutions

CISCO SYSTEMS

Add/Modify Phones

Back to Phone Search

Status: Please enter any change for the current Manual Phone

Modify Phones

[New]   [Update]   [Cancel Changes]

Line Number *   **4060**
Phone Type   [   ]
Version   [   ]
IP Address   [   ]
MAC Address   [   ]
ERL Name *   [Test1   ]
                      [Test1   ▼]

* indicates required item

Cisco 3845 Cisco IOS Gateway Configuration

Router3845# **show running-config**
Building configuration...

Current configuration : 3087 bytes
!
Version 12.3
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Router3845

```
!
boot-start-marker
boot system flash:c3845-ipvoice-mz.123-14.T4.bin
boot-end-marker
!
enable password cisco
!
no aaa new-model
!
resource policy
!
no network-clock-participate slot 3
no network-clock-participate slot 4
network-clock-participate wic 0
voice-card 0
 no dspfarm
!
voice-card 3
 no dspfarm
!
voice-card 4
 dspfarm
!
ip subnet-zero
ip cef
!
!
no ip dhcp use vrf connected
!
!
ip host CM-GUANATOS 172.20.8.254
ip host CM-BARZA 172.20.110.254
no ftp-server write-enable
isdn switch-type primary-4ess
!
!
!
!
!
!
!
!
!
!
!
!
!
!
controller T1 0/0/0
 framing esf
```

```
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
controller T1 0/0/1
 framing esf
 linecode b8zs
!
controller E1 4/0/0
 shutdown
 pri-group timeslots 1-31 service mgcp
!
controller E1 4/0/1
!
!
!
interface GigabitEthernet0/0
 ip address 172.20.8.26 255.255.255.0
 duplex half
 speed 100
 media-type rj45
 negotiation auto
!
interface GigabitEthernet0/1
 ip address 172.20.110.104 255.255.255.0
 shutdown
 duplex auto
 speed auto
 media-type rj45
 negotiation auto
!
interface Serial0/0/0:23
 no ip address
 isdn switch-type primary-qsig
 isdn protocol-emulate network
 isdn incoming-voice voice
 isdn T310 120000
 isdn bind-l3 ccm-manager
 no cdp enable
!
interface Serial4/0/0:15
 no ip address
 shutdown
 isdn switch-type primary-qsig
 isdn incoming-voice voice
 isdn bind-l3 ccm-manager
 no cdp enable
!
ip default-gateway 172.20.8.1
ip classless
ip route 0.0.0.0 0.0.0.0 172.20.8.1
```

```
!
ip http server
!
!
!
!
control-plane
!
!
!
voice-port 0/0/0:23
!
voice-port 3/0/0
 signal cama KP-NPD-NXX-XXXX-ST
 dial-type mf
 timing hookflash-out 500
!
voice-port 3/0/1
 dial-type mf
 timing hookflash-out 500
!
voice-port 3/0/2
 dial-type mf
 timing hookflash-out 500
!
voice-port 3/0/3
 dial-type mf
 timing hookflash-out 500
!
voice-port 3/1/0
!
voice-port 3/1/1
!
voice-port 4/0/0:15
!
ccm-manager mgcp
ccm-manager music-on-hold
ccm-manager config server CM-GUANATOS
ccm-manager config
!
mgcp
mgcp call-agent CM-GUANATOS 2427 service-type mgcp version 0.1
mgcp dtmf-relay voip codec all mode out-of-band
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
no mgcp package-capability res-package
mgcp package-capability sst-package
no mgcp package-capability fxr-package
mgcp package-capability pre-package
```

```
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 inhibit
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
!
!
dial-peer voice 999300 pots
 service mgcpapp
 port 3/0/0
!
dial-peer voice 999301 pots
 service mgcpapp
 port 3/0/1
!
dial-peer voice 999310 pots
 service mgcpapp
 port 3/1/0
!
dial-peer voice 999311 pots
 service mgcpapp
 port 3/1/1
!
dial-peer voice 999302 pots
 service mgcpapp
 port 3/0/2
!
dial-peer voice 999303 pots
 service mgcpapp
 port 3/0/3
!
!
line con 0
 password cisco
 stopbits 1
line aux 0
 stopbits 1
line vty 0 4
 password cisco
 login
!
scheduler allocate 20000 1000
!
End


Router3845#sh ver
Cisco IOS Software, 3800 Software (C3845-IPVOICE-M), Version 12.3(14)T4, RELEASE
 SOFTWARE (fc2)
```

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

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

Router3845 uptime is 1 week, 2 days, 5 hours, 15 minutes

System returned to ROM by power-on

System image file is "flash:c3845-ipvoice-mz.123-14.T4.bin"

Cisco 3845 (revision 1.0) with 485376K/38912K bytes of memory.

Processor board ID FTX0933A1JA

2 Gigabit Ethernet interfaces

55 Serial interfaces

2 Channelized E1/PRI ports

2 Channelized T1/PRI ports

4 Voice FXO interfaces

2 Voice FXS interfaces

DRAM configuration is 64 bits wide with parity enabled.

479K bytes of NVRAM.

125184K bytes of ATA System CompactFlash (Read/Write)

Configuration register is 0x2102

Router3845#

Router3845# **show voice port 3/0/0**

Foreign Exchange Office 3/0/0 Slot is 3, Sub-unit is 0, 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 not set

 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 8
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-NPD-NXX-XXXX-ST

NPD to NPA mapping is :

NPD	NPA
0	0
1	0
2	0
3	0

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 100 ms
InterDigit Duration Timing is set to 100 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
Router3845#

 Cisco Catalyst 6x00 Configuration

Console> (enable) **showsnmp**
SNMP: Enabled
RMON: Disabled
Extended RMON Netflow Enabled : None.
Memory usage limit for new RMON entries: 85 percent
EngineId: 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) **show 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

Nortel CS1000M with Succession 4.0 Software Release PBX Configuration

Common Equipment

```
REQ  prt
TYPE cequ

CEQU
  MPED 8D
  SUPL 000  004  008  012
       016  032  036  040
       044  048  064  068
       072 V096 V100
  TDS  000
  CONF 029  030  031  062
       094  095

  DLOP  NUM DCH FRM TMDI LCMT YALM T1TE TRSH
   PRI  02   24  ESF NO   B8S  FDL   -   00
        06   23  ESF NO   B8S  FDL   -   00
  PRI2 04 05 07
  DTI2
  MISP
```

Configure D-Channel

```
REQ  prt
TYPE adan dch 4

ADAN     DCH 4
  CTYP MSDL
  CARD 04
  PORT 1
  DES  toJupiter
  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 USR
  CNEG 2
  RLS  ID  4
  QCHID YES
  RCAP COLP NDI CCBI CCNI PRI DV3I CTI  QMWI
  PR_TRIGS  DIV 2 3
       CON 0 1
       CTR1 2 3
  MBGA NO
  OVLR NO
```

```
 OVLS NO
 T310 120
 T200 3
 T203 10
 N200 3
 N201 260
 K    7
```

Configure Route Data Block

```
REQ: prt

TYPE: rdb

CUST 0

ROUT 104


TYPE RDB
CUST 00
DMOD
ROUT 104
DES   TOJUPITER
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
OHQT 00
CBQ  NO
AUTH NO
TTBL 0
ATAN NO
PLEV 2
ALRM NO
ART  0
SGRP 0
AACR NO
```

Configure Trunk

```
REQ: prt

TYPE: tnb

TN   4 1

DATE

PAGE

DES


DES  TOJUPITER
TN   004 01
```

```
TYPE TIE
CDEN SD
CUST 0
TRK  PRI2
PDCA 1
PCML A
NCOS 0
RTMB 104 1
B-CHANNEL SIGNALING
TGAR 1
AST  NO
IAPG 0
CLS  UNR DTN WTA LPR APN THFD
     P10 VNL
```

Software Release

```
>LD 22

PT2000
MARP NOT ACTIVATED

ld 22
PT2000

REQ  iss

CALL SERVER/MAIN CAB
VERSION 2121
RELEASE 4
ISSUE 00 T  +
IDLE_SET_DISPLAY NORTEL
REQ  ****
>
```

Software Package Installed (Succession 4.0)

```
OPTF              1
CUST              2
CDR               4
CTY               5
RAN               7
TAD               8
DNDI              9
EES               10
INTR              11
ANI               12
ANIR              13
BRTE              14
DNDG              16
MSB               17
SS25              18
DDSP              19
ODAS              20
DI                21
CHG               23
CAB               24
BAUT              25
CASM              26
CASR              27
BQUE              28
NTRF              29
NCOS              32
```

```
CPRK               33
SSC                34
IMS                35
UST                35
UMG                35
ROA                36
NSIG               37
MCBQ               38
NSC                39
BACD               40
ACDB               41
ACDC               42
LMAN               43
MUS                44
ACDA               45
MWC                46
AAB                47
GRP                48
NFCR               49
LNK                51
FCA                52
SR                 53
AA                 54
HIST               55
AOP                56
BARS               57
NARS               58
CDP                59
PQUE               60
FCBQ               61
OHQ                62
NAUT               63
SNR                64
NXFR               67
HOT                70
DHLD               71
LSEL               72
SS5                73
DRNG               74
PBXI               75
DLDN               76
CSL                77
OOD                79
SCI                80
CCOS               81
CDRQ               83
TENS               86
FTDS               87
DSET               88
TSET               89
LNR                90
DLT2               91
PXLT               92
SUPV               93
CPND               95
DNIS               98
BGD                99
RMS                100
MR                 101
AWU                102
PMSI               103
LLC                105
MCT                107
ICDR               108
APL                109
TVS                110
TOF                111
```

```
IDC                 113
DCP                 115
PAGT                116
CBC                 117
CCDR                118
EMUS                119
PLDN                120
SCMP                121
FTC                 125
BKI                 127
DTI2                129
TBAR                132
ENS                 133
FFC                 139
DCON                140
MPO                 141
ISDN                145
PRA                 146
ISL                 147
NTWK                148
IEC                 149
DNXP                150
CDRE                151
FXS                 152
IAP3P               153
PRI2                154
THF                 157
FGD                 158
NAS                 159
FNP                 160
ISDN_INTL_SUP       161
SAR                 162
MINT                163
LAPW                164
GPRI                167
ARIE                170
CPGS                172
ECCS                173
AAA                 174
NMS                 175
EOVF                178
HVS                 179
DKS                 180
SACP                181
VNS                 183
OVLP                184
EDRG                185
POVR                186
SECL                191
ORC-RVQ             192
AINS                200
IPRA                202
XPE                 203
XCT0                204
XCT1                205
MLWU                206
HSE                 208
MLM                 209
MAID                210
VAWU                212
EAR                 214
ECT                 215
BRI                 216
IVR                 218
MWI                 219
MSDL                222
FC68                223
```

```
SSAU              229
BRIT              233
FCDR              234
BRIL              235
MCMO              240
MULTI_USER        242
ALRM_FILTER       243
SYS_MSG_LKUP      245
VMBA              246
CALL_ID           247
DPNA              250
SCDR              251
ARFW              253
PHTN              254
ADMINSET          256
ATX               258
CDRX              259
QSIG              263
NI-2              291
IPEX              295
MAT               296
CPP               301
QSIGGF            305
CPRKNET           306
PAGENET           307
CPCI              310
TATO              312
OPEN_ALARM        315
QSIG-SS           316
NGEN              324
RANBRD            327
MUSBRD            328
ESA               329
ESA_SUPP          330
ESA_CLMP          331
CNUMB             332
CNAME             333
NI-2_CBC          334
MEET              348
MC32              350
DBA               351
FDID              362
NMCE              364
STS_MSG           380
CDIR              381
VIRTUAL_OFFICE    382
ATAN              384
NI2NAME           385
M3900_PROD_ENH    386
VIR_OFF_ENH       387
OAS               394
ICON              397
PCA               398
H323_VTRK         399
LOCX              400
PVQM              401
SIP               406

REQ
```

Acronyms

Acronym	Definitions
CAMA	Analog "Centralized Automatic Message Accounting" E911 Trunk

Acronym	Definitions
PSAP	Public Service Answering Point

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