Avaya Definity G3 PBX with Cisco 3845 T1 QSIG as an MGCP Gateway to Cisco Unified CallManager 4.2 and Cisco Emergency Responder 1.3

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Table of Contents

Introduction ........................................................................................................................................... 2
Network Topology .................................................................................................................................. 3
Limitations ........................................................................................................................................... 3
System Components .............................................................................................................................. 3
   Hardware Requirements ...................................................................................................................... 3
   Software Requirements ...................................................................................................................... 3
Features ................................................................................................................................................ 4
Configuration ........................................................................................................................................ 5
   Cisco Unified CallManager Configuration ...................................................................................... 5
   Cisco Emergency Responder Configuration ..................................................................................... 52
   Avaya Definity Configuration .......................................................................................................... 73
Acronyms ............................................................................................................................................ 76

Note: Cisco Unified 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 4.2, Cisco Emergency Responder 1.3 and Cisco 3845 with CAMA interface and T1-QSIG trunk with an Avaya CM Definity 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 911 calls 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 911 calls made from an Avaya CM 2.0 PBX using 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 a 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
- Avaya Definity PBX

**Software Requirements**

CISCO IOS Software releases “c3845-ipvoice-mz.123-14.T4”.
PBX Software: G3si MV1.1
Cisco Unified CallManager 4.2 (0.839)
Cisco Emergency Responder 1.3 (0.105)

**Features**

Calling Number

E911 ERL DID number passed to PSAP

Incoming DID calling to disconnected 911 originating caller
Configuration

Cisco Unified CallManager Configuration

Partitions

Find and List Partitions

2 matching record(s) for Partition Name begins with ""

Find Partitions where Partition Name begins with
and show 20 items per page

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

Matching record(s) 1 to 2 of 2

<table>
<thead>
<tr>
<th>Partition Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E911</td>
<td>E911</td>
</tr>
<tr>
<td>Phones</td>
<td>Phones</td>
</tr>
</tbody>
</table>

Delete Selected  

First Previous Next Last  

Page 1 of 1
Partition Configuration

Partition: Phones
Status: Ready

Update | Delete | Restart Devices

Partition Name* | Phones
Description | Phones
Time Schedule | (None)

Time Zone
- Originating Device
- Specific Time Zone (GMT) Monrovia, Casablanca

* indicates required item
Calling Search Space

Find and List Calling Search Spaces

2 matching record(s) for CSS Name begins with ""

Find Calling Search Spaces where CSS Name begins with
and show 20 items per page

Matching record(s) 1 to 2 of 2

<table>
<thead>
<tr>
<th>CSS Name</th>
<th>Description</th>
<th>Copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>E911CSS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>phoneCSS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Delete Selected  

First Previous Next Last  

Page 1 of 1
CSS Phones

Calling Search Space Configuration

Calling Search Space: phoneCSS
Status: Ready

Calling Search Space Information
Calling Search Space Name: phoneCSS
Description:

Route Partitions for this Calling Search Space
Find Partitions containing
Available Partitions
E911

Selected Partitions (ordered by highest priority)
Phones

* indicates required item
Calling Search Space Configuration

Calling Search Space: E911CSS
Status: Ready

Calling Search Space Information
Calling Search Space Name*: E911CSS
Description

Route Partitions for this Calling Search Space
Find Partitions containing
Available Partitions

Selected Partitions*
(ordered by highest priority) E911 Phones

* indicates required item
### Phone Configuration

**Phone:** SEP000B383B28F4 (Auto 4100)

**Registration:** Registered with Cisco CallManager CM-GUANATOS

**IP Address:** 172.20.8.11

**Status:** Ready

<table>
<thead>
<tr>
<th>Directory Numbers</th>
<th>Phone Configuration (Model = Cisco 7940)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Phone</strong></td>
<td><strong>Device Information</strong></td>
</tr>
<tr>
<td>Line 1 - 4100</td>
<td>MAC Address:* 000C303B28F4</td>
</tr>
<tr>
<td></td>
<td>Description: Auto 4100</td>
</tr>
<tr>
<td></td>
<td>Owner User ID:</td>
</tr>
<tr>
<td></td>
<td>Device Pool:* Default</td>
</tr>
<tr>
<td></td>
<td>Common Profile:</td>
</tr>
<tr>
<td></td>
<td>Calling Search Space: phoneCSS</td>
</tr>
<tr>
<td></td>
<td>AAR Calling Search Space:</td>
</tr>
<tr>
<td></td>
<td>Media Resource Group List:</td>
</tr>
<tr>
<td></td>
<td>User Held Audio Source:</td>
</tr>
<tr>
<td>Setting</td>
<td>Value</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Network Hold Audio Source</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Location</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>AAR Group</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>User Locale</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Network Locale</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Device Security Mode</td>
<td>Use System Default</td>
</tr>
<tr>
<td>Signal Packet Capture Mode</td>
<td>None</td>
</tr>
<tr>
<td>Packet Capture Duration</td>
<td>0</td>
</tr>
<tr>
<td>Built In Bridge</td>
<td>Default</td>
</tr>
<tr>
<td>Privacy</td>
<td>Default</td>
</tr>
<tr>
<td>Device Mobility Mode</td>
<td>Default</td>
</tr>
<tr>
<td>Retry Video Call as Audio</td>
<td>Yes</td>
</tr>
<tr>
<td>Ignore Presentation Indicators (internal calls only)</td>
<td>No</td>
</tr>
<tr>
<td>Logged into Hunt Group</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Phone Button Template Information**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Button Template*</td>
<td>Standard 7940</td>
<td>(View button list)</td>
</tr>
</tbody>
</table>

**Softkey Template Information**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Softkey Template</td>
<td>&lt;None&gt;</td>
<td></td>
</tr>
</tbody>
</table>

**Firmware Load Information (leave blank to use default)**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone Load Name</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cisco IP Phone - External Data Locations (leave blank to use default)**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
</table>
Authentication String
Key Size (bits) 1024
Operation Completes By** (YYYY : MM : DD : HH )
Certificate Operation Status : None

Multilevel Precedence and Preemption (MLPP) Information
MLPP Domain (e.g., "0000FF")
MLPP Indication Default
MLPP Preemption Default

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

* indicates a required item.
** Indicates time on Publisher.
### Directory Number Configuration

**Directory Number:** +4100 (Phones)

- **Status:** Ready

**Note:** Any update to this Directory Number automatically resets the associated devices

<table>
<thead>
<tr>
<th>Associated With</th>
<th>SEP000CC000B20F4 (Line 1)</th>
</tr>
</thead>
</table>

**Directory Number**

- **Directory Number:** +4100

**Partition:** Phones

**Directory Number Settings**

- **Voice Mail Profile:** <Select>
- **(Choose <None> to use default)**
- **Calling Search Space:** phoneCSS
- **User Hold Audio Source:** <Select>
- **Network Hold Audio Source:** <Select>
- **Auto Answer:** Auto Answer Off

**AAR Settings**

<table>
<thead>
<tr>
<th>Voice Mail</th>
<th>AAR Destination Mask</th>
<th>AAR Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAR</td>
<td></td>
<td>&lt;Select&gt;</td>
</tr>
</tbody>
</table>

**Remove this destination from the call forwarding history**

**Dependency Records**

---

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Page 15 of 78
### Call Forward and Pickup Settings

<table>
<thead>
<tr>
<th>Option</th>
<th>Voice Mail</th>
<th>Coverage/Destination</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward All</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward Busy Internal</td>
<td></td>
<td>4200</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward Busy External</td>
<td></td>
<td>4200</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Answer Internal</td>
<td></td>
<td>4200</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Answer External</td>
<td></td>
<td>4200</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Coverage Internal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward No Coverage External</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forward Unregistered Internal</td>
<td></td>
<td>4200</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward Unregistered External</td>
<td></td>
<td>4200</td>
<td>&lt;None&gt;</td>
</tr>
</tbody>
</table>

- No Answer Ring Duration: [Input Field] (seconds)
- Call Pickup Group: [Input Field] (None)

### MLPP Alternate Party Settings

- Target (Destination): [Input Field]
- Calling Search Space: [Input Field] (None)
- No Answer Ring Duration: [Input Field] (seconds)

### Line Settings for all Devices

- Alerting Name: [Input Field] (Cmer Bravo)

### Line Settings for this Device

- Display (Internal Caller ID): [Input Field] (Cmer Bravo)
**Line Settings for this Device**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display (Internal Caller ID)</td>
<td>Omar Bravo</td>
</tr>
<tr>
<td>Line Text Label</td>
<td>Omar Bravo</td>
</tr>
<tr>
<td>External Phone Number Mask</td>
<td></td>
</tr>
<tr>
<td>Message Waiting Lamp Policy</td>
<td>Use System Policy</td>
</tr>
<tr>
<td>Ring Setting (Phone Idle)</td>
<td>Use System Default</td>
</tr>
<tr>
<td>Ring Setting (Phone Active)**</td>
<td>Use System Default</td>
</tr>
<tr>
<td>Call Pickup Group Audio Alert Setting (Phone Idle)</td>
<td>Use System Default</td>
</tr>
<tr>
<td>Call Pickup Group Audio Alert Setting (Phone Active)</td>
<td>Use System Default</td>
</tr>
</tbody>
</table>

**Multiple Call / Call Waiting Settings**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of Calls*</td>
<td>4</td>
</tr>
<tr>
<td>Busy Trigger*</td>
<td>2</td>
</tr>
</tbody>
</table>

**Forwarded Call Information Display**

- [ ] Caller Name
- [ ] Caller Number
- [ ] Redirected Number
- [x] Dialed Number

*Indicates required item; changes to Line or Directory Number settings require a restart.

**Note:**

- If you are using a language other than English for Display (Internal Caller ID) or Line Text Label text, make sure the correct character set (shown below) is selected. Text displays incorrectly if the wrong character set is selected. (English characters are included in all character sets.)

<table>
<thead>
<tr>
<th>Character Set</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western European</td>
<td>Latin 1</td>
</tr>
</tbody>
</table>
CTI Route Points

Find and List CTI Route Points

2 matching record(s) for Device Name begins with ""

Find CTI Route Points where

<table>
<thead>
<tr>
<th>Device Name</th>
<th>Description</th>
<th>Device Pool</th>
<th>Common Profile</th>
<th>Status</th>
<th>IP Address</th>
<th>Copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP911</td>
<td>RPS11</td>
<td>Default</td>
<td>MigratedCommonProfile</td>
<td>CM-GUANATOS</td>
<td>172.20.8.254</td>
<td></td>
</tr>
<tr>
<td>RP911</td>
<td>RPS11</td>
<td>Default</td>
<td>MigratedCommonProfile</td>
<td>CM-GUANATOS</td>
<td>172.20.8.254</td>
<td></td>
</tr>
</tbody>
</table>

Real-time Information Service returned information for 2 of 2 devices listed below.

Delete Selected  Reset Selected  First Previous Next Last  Page 1 of 1
## Directory Number Configuration

**Associated With**

**RP911 (Line 1)**

**Directory Number: 911 (Phones)**

**Status:** Ready  
**Note:** Any update to this Directory Number automatically resets the associated devices

- [Update](#)  
- [Remove from Device](#)  
- [Reset Devices](#)

### Directory Number

- **Directory Number**: 911
- **Partition**: Phones

### Directory Number Settings

- **Voice Mail Profile**: <None>  
  *(Choose <None> to use default)*
- **Calling Search Space**: E911CSS
- **User Hold Audio Source**: <None>
- **Network Hold Audio Source**: <None>
- **Auto Answer**: Not available on this device

### AAR Settings

<table>
<thead>
<tr>
<th>AAR</th>
<th>Voice Mail</th>
<th>AAR Destination Mask</th>
<th>AAR Group</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
</tbody>
</table>

**Options**

- Remove this destination from the call forwarding history
- Retain this destination in the call forwarding history

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Page 20 of 78
### Call Forward and Pickup Settings

<table>
<thead>
<tr>
<th>Feature</th>
<th>Voice Mail Coverage/Destination</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward All</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward Busy Internal</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward Busy External</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward No Answer Internal</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward No Answer External</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward No Coverage Internal</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward No Coverage External</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward Unregistered Internal</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward Unregistered External</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>Forward On Failure Ext/Int</td>
<td></td>
<td>(None)</td>
</tr>
<tr>
<td>No Answer Ring Duration</td>
<td>[Input] (seconds)</td>
<td>(None)</td>
</tr>
<tr>
<td>Call Pickup Group</td>
<td>(None)</td>
<td>(View Details)</td>
</tr>
</tbody>
</table>

### MLPP Alternate Party Settings

- **Target (Destination)**: [Input]
- **Calling Search Space**: (None)
- **No Answer Ring Duration**: [Input] (seconds)

### Line Settings for all Devices

- **Alerting Name**: [Input]

### Line Settings for this Device
### Line Settings for all Devices

- **Alerting Name**

### Line Settings for this Device

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display (Internal Caller ID)</td>
<td></td>
</tr>
<tr>
<td>Line Text Label</td>
<td>Not available on this device.</td>
</tr>
<tr>
<td>External Phone Number Mask</td>
<td></td>
</tr>
<tr>
<td>Message Waiting Lamp Policy</td>
<td>Not available on this device.</td>
</tr>
<tr>
<td>Ring Setting (Phone Idle)</td>
<td>Not available on this device.</td>
</tr>
<tr>
<td>Ring Setting (Phone Active)**</td>
<td>Not available on this device.</td>
</tr>
<tr>
<td>Call Pickup Group Audio Alert Setting(Phone Idle)</td>
<td>Not available on this device.</td>
</tr>
<tr>
<td>Call Pickup Group Audio Alert Setting(Phone Active)</td>
<td>Not available on this device.</td>
</tr>
</tbody>
</table>

### Multiple Call / Call Waiting Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of Calls*</td>
<td>5000 (1 - 10000)</td>
</tr>
<tr>
<td>Busy Trigger**</td>
<td>4500 (&lt;= Max. Calls)</td>
</tr>
</tbody>
</table>

### Forwarded Call Information Display

- [ ] Caller Name
- [ ] Caller Number
- [ ] Redirected Number
- [x] Dialed Number

* Indicates required item; changes to Line or Directory Number settings require restart.

**Note:**
If you are using a language other than English for Display (Internal Caller ID) or Line Text Label text, make sure the correct character set (shown below) is selected. Text displays incorrectly if the wrong character set is selected. (English characters are included in all character sets.)

**Character Set**
- Western European (Latin 1)
CTI Route Point 913

Device: RPELIN913 (RPELIN913)
Registration: Registered with Cisco CallManager CM-GUANATOS
IP Address: 172.20.0.254
Status: Ready

CTI Route Point Configuration
Device Information

- Device Name: RPELIN913
- Description: RPELIN913
- Device Pool: Default
- Common Profile: MigratedCommonProfile1
- Calling Search Space: E911CSS
- Location: (None)
- Media Resource Group List: (None)
- User Hold Audio Source: (None)
- Network Hold Audio Source: (None)

* indicates a required item.
Directory Number Configuration

Directory Number: 913XXXXXXXXXX (E911)
Status: Ready
Note: Any update to this Directory Number automatically resets the associated devices

| Update | Remove from Device | Reset Devices |

Directory Number
- Directory Number: 913XXXXXXXXXX
- Partition: E911

Directory Number Settings
- Voice Mail Profile: <None>
- Calling Search Space: E911CSS
- User Hold Audio Source: <None>
- Network Hold Audio Source: <None>
- Auto Answer: Not available on this device

AAR Settings
- Voice Mail: AAR Destination Mask: AAR Group: <None>
- Remove this destination from the call forwarding history
- Retain this destination in the call forwarding history
Note: A Backup CER server was not used during testing therefore CTI route point for 912 was not created.
CTI Port

Cisco CallManager 4.2 Administration - Phone Configuration - Microsoft Internet Explorer

Phone Configuration

Phone: CERSec1 (CERSec1)
Registration: Registered with Cisco CallManager CM-GUANATOS
IP Address: 172.20.0.50
Status: Ready

Copy Update Delete Reset Phone

Phone Configuration (Model = CTI Port)

Device Information

Device Name* CERSec1
Description CERSec1
Owner User ID (Select User ID)
Device Pool* Default (View Details)
Common Profile (None) (View Details)
Calling Search Space phoneCSS
AAR Calling Search Space (None)
Media Resource Group List (None)
User Hold Audio Source (None)
Network Hold Audio Source (None)
Location (None)
<table>
<thead>
<tr>
<th>Description</th>
<th>CERSec1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner User ID</td>
<td>(Select User ID)</td>
</tr>
<tr>
<td>Device Pool*</td>
<td>Default</td>
</tr>
<tr>
<td>Common Profile</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>Calling Search Space</td>
<td>phoneCSS</td>
</tr>
<tr>
<td>AAR Calling Search Space</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>Media Resource Group List</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>User Hold Audio Source</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>Network Hold Audio Source</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>Location</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>AAR Group</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>Device Mobility Mode</td>
<td>Default</td>
</tr>
</tbody>
</table>

- **Multilevel Precedence and Preemption (MLPP) Information**
  - MLPP Domain: (e.g., '0000FF')
  - MLPP Indication: Not available on this device
  - MLPP Preemption: Not available on this device

* indicates a required item.
<table>
<thead>
<tr>
<th>Call Forward and Pickup Settings</th>
<th>Coverage/ Destination</th>
<th>Calling Search Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward All</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward Busy Internal</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward Busy External</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Answer Internal</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Answer External</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Coverage Internal</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Coverage External</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward Unregistered Internal</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward Unregistered External</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward On Failure Ext/Int</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>No Answer Ring Duration</td>
<td></td>
<td>(seconds)</td>
</tr>
<tr>
<td>Call Pickup Group</td>
<td></td>
<td>&lt;None&gt;</td>
</tr>
</tbody>
</table>

**MLPP Alternate Party Settings**

| Target (Destination)            |                       |
| Calling Search Space            | <None>                |
| No Answer Ring Duration         | (seconds)             |

**Line Settings for all Devices**

| Alerting Name                   |                       |

**Line Settings for this Device**


Alerting Name

**Line Settings for this Device**
- Display (Internal Caller ID)
- Line Text Label
- External Phone Number Mask
- Message Waiting Lamp Policy: Use System Policy
- Ring Setting (Phone Idle): Not available on this device.
- Ring Setting (Phone Active): Not available on this device.
- Call Pickup Group Audio Alert Setting (Phone Idle): Not available on this device.
- Call Pickup Group Audio Alert Setting (Phone Active): Not available on this device.

**Multiple Call / Call Waiting Settings**
- Maximum Number of Calls*: 4 (1 - 200)
- Busy Trigger**: 2 (<= Max. Calls)

**Forwarded Call Information Display**
- Caller Name
- Caller Number
- Redirected Number
- Dialed Number

* Indicates required item; changes to Line or Directory Number settings require restart.

**Note:**
If you are using a language other than English for Display (Internal Caller ID) or Line Text Label text, make sure the correct character set (shown below) is selected. Text displays incorrectly if the wrong character set is selected. (English characters are included in all character sets.)

Character Set: Western European (Latin 1)
Route Patterns for ELINs

Find and List Route Patterns

6 matching record(s) for Pattern begins with ""

Find Route Patterns where Pattern begins with and show 20 items per page

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

Matching record(s) 1 to 6 of 6

<table>
<thead>
<tr>
<th>Route Pattern</th>
<th>Partition</th>
<th>Description</th>
<th>Route Filter</th>
<th>Gateway/Route List</th>
<th>Copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>10911.</td>
<td>E911</td>
<td></td>
<td></td>
<td>AALv/S3/SU0/0@ton...</td>
<td></td>
</tr>
<tr>
<td>11911.</td>
<td>E911</td>
<td></td>
<td></td>
<td>AALv/S3/SU0/0@ton...</td>
<td></td>
</tr>
<tr>
<td>11XX</td>
<td></td>
<td></td>
<td></td>
<td>S1/DS1-0@tony_3640</td>
<td></td>
</tr>
<tr>
<td>13911.</td>
<td>E911</td>
<td></td>
<td></td>
<td>AALv/S3/SU0/0@ton...</td>
<td></td>
</tr>
<tr>
<td>40XX</td>
<td></td>
<td></td>
<td></td>
<td>S0/SU0/DS1-0@tony...</td>
<td></td>
</tr>
<tr>
<td>4500</td>
<td></td>
<td></td>
<td></td>
<td>S1/DS1-0@tony_3640</td>
<td></td>
</tr>
</tbody>
</table>

Delete Selected

First Previous Next Last

Page 1 of 1
## Route Pattern Configuration

**Route Pattern: 10911.**

**Status:** Ready  
**Note:** Any update to this Route Pattern automatically resets the associated gateway or Route List.

- **Copy**  
- **Update**  
- **Delete**

### Pattern Definition

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route Pattern*</td>
<td>10911</td>
</tr>
<tr>
<td>Partition*</td>
<td>E911</td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>Numbering Plan*</td>
<td>North American Numbering Plan</td>
</tr>
<tr>
<td>Route Filter</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>MLPP Precedence</td>
<td>Default</td>
</tr>
<tr>
<td>Gateway or Route List*</td>
<td>AALN/S3/SU0/0@tony3845</td>
</tr>
<tr>
<td>Route Option</td>
<td></td>
</tr>
<tr>
<td>Call Classification*</td>
<td>OffNet</td>
</tr>
<tr>
<td>Provide Outside Dial Tone</td>
<td></td>
</tr>
<tr>
<td>Allow Overlap Sending</td>
<td></td>
</tr>
<tr>
<td>Allow Device Override</td>
<td></td>
</tr>
<tr>
<td>Urgent Priority</td>
<td></td>
</tr>
<tr>
<td>Require Forced Authorization Code</td>
<td></td>
</tr>
</tbody>
</table>

**Add a New Route Pattern**  
**Back to Find/List Route Patterns**
<table>
<thead>
<tr>
<th>Authorization Level</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Require Client Matter Code</td>
<td></td>
</tr>
<tr>
<td><strong>Calling Party Transformations</strong></td>
<td></td>
</tr>
<tr>
<td>Use Calling Party's External Phone Number Mask</td>
<td></td>
</tr>
<tr>
<td>Calling Party Transform Mask</td>
<td>4089934200</td>
</tr>
<tr>
<td>Prefix Digits (Outgoing Calls)</td>
<td></td>
</tr>
<tr>
<td>Calling Line ID Presentation</td>
<td>Default</td>
</tr>
<tr>
<td>Calling Name Presentation</td>
<td>Default</td>
</tr>
<tr>
<td><strong>Connected Party Transformations</strong></td>
<td></td>
</tr>
<tr>
<td>Connected Line ID Presentation</td>
<td>Default</td>
</tr>
<tr>
<td>Connected Name Presentation</td>
<td>Default</td>
</tr>
<tr>
<td><strong>Called Party Transformations</strong></td>
<td></td>
</tr>
<tr>
<td>Discard Digits</td>
<td>PreDot</td>
</tr>
<tr>
<td>Called Party Transform Mask</td>
<td>4089934200</td>
</tr>
<tr>
<td>Prefix Digits (Outgoing Calls)</td>
<td></td>
</tr>
<tr>
<td><strong>ISDN Network-Specific Facilities Information Element</strong></td>
<td></td>
</tr>
<tr>
<td>Carrier Identification Code</td>
<td></td>
</tr>
<tr>
<td>Network Service Protocol</td>
<td>- Not Selected -</td>
</tr>
<tr>
<td>Network Service</td>
<td>- Not Selected -</td>
</tr>
<tr>
<td>Service Parameter Name</td>
<td>&lt; Not Exists &gt;</td>
</tr>
<tr>
<td>Service Parameter Value</td>
<td></td>
</tr>
</tbody>
</table>

* indicates required item.
Route Pattern 11911

**Route Pattern Configuration**

**Route Pattern:** 11911.

**Status:** Ready

**Notes:** Any update to this Route Pattern automatically resets the associated gateway or Route List.

<table>
<thead>
<tr>
<th>Pattern Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Route Pattern</strong></td>
</tr>
<tr>
<td><strong>Partition</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Numbering Plan</strong></td>
</tr>
<tr>
<td><strong>Route Filter</strong></td>
</tr>
<tr>
<td><strong>MLPP Precedence</strong></td>
</tr>
<tr>
<td><strong>Gateway or Route List</strong></td>
</tr>
<tr>
<td><strong>Route Option</strong></td>
</tr>
<tr>
<td>Allow Device Override</td>
</tr>
<tr>
<td>Provide Outside Dial Tone</td>
</tr>
<tr>
<td>Allow Overlap Sending</td>
</tr>
<tr>
<td>Urgent Priority</td>
</tr>
<tr>
<td>Require Forced Authorization Code</td>
</tr>
</tbody>
</table>
## Cisco CallManager 4.2 Administration - Route Pattern Configuration - Microsoft Internet Explorer

### Authorization Level
- [ ] Require Client Matter Code

### Calling Party Transformations
- Use Calling Party's External Phone Number Mask
- Calling Party Transform Mask: 4089934201
- Prefix Digits (Outgoing Calls)
- Calling Line ID Presentation: Default
- Calling Name Presentation: Default

### Connected Party Transformations
- Connected Line ID Presentation: Default
- Connected Name Presentation: Default

### Called Party Transformations
- Discard Digits: PreDot
- Called Party Transform Mask
- Prefix Digits (Outgoing Calls): 4089934201

### ISDN Network-Specific Facilities Information Element
- Carrier Identification Code
- Network Service Protocol: Not Selected
- Network Service: Not Selected
- Service Parameter Name: Not exist
- Service Parameter Value

* indicates required item.
## Route Pattern 13911

### Route Pattern Configuration

**Route Pattern:** 13911.

**Status:** Ready

**Note:** Any update to this Route Pattern automatically resets the associated gateway or Route List.

<table>
<thead>
<tr>
<th>Pattern Definition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route Pattern*</td>
<td>13911</td>
</tr>
<tr>
<td>Partition</td>
<td>E911</td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>Numbering Plan*</td>
<td>North American Numbering Plan</td>
</tr>
<tr>
<td>Route Filter</td>
<td>&lt;None&gt;</td>
</tr>
<tr>
<td>MLPP Precedence</td>
<td>Default</td>
</tr>
<tr>
<td>Gateway or Route List*</td>
<td>AALN/53/SU1/0@tony3845 (Edit)</td>
</tr>
<tr>
<td>Route Option</td>
<td>- Route this pattern</td>
</tr>
<tr>
<td></td>
<td>- Block this pattern Not Selected</td>
</tr>
<tr>
<td>Call Classification*</td>
<td>OffNet</td>
</tr>
<tr>
<td>Provide Outside Dial Tone</td>
<td>Allow Overlap Sending</td>
</tr>
<tr>
<td>Require Forced Authorization Code</td>
<td>Allow Device Override</td>
</tr>
<tr>
<td></td>
<td>Urgent Priority</td>
</tr>
</tbody>
</table>
### Calling Party Transformations

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use Calling Party's External Phone Number Mask</td>
<td>On</td>
</tr>
<tr>
<td>Calling Party Transform Mask</td>
<td>4089994203</td>
</tr>
<tr>
<td>Prefix Digits (Outgoing Calls)</td>
<td></td>
</tr>
<tr>
<td>Calling Line ID Presentation</td>
<td>Default</td>
</tr>
<tr>
<td>Calling Name Presentation</td>
<td>Default</td>
</tr>
</tbody>
</table>

### Connected Party Transformations

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connected Line ID Presentation</td>
<td>Default</td>
</tr>
<tr>
<td>Connected Name Presentation</td>
<td>Default</td>
</tr>
</tbody>
</table>

### Called Party Transformations

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discard Digits</td>
<td>PreDot</td>
</tr>
<tr>
<td>Called Party Transform Mask</td>
<td>4089994203</td>
</tr>
<tr>
<td>Prefix Digits (Outgoing Calls)</td>
<td></td>
</tr>
</tbody>
</table>

### ISDN Network-Specific Facilities Information Element

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrier Identification Code</td>
<td></td>
</tr>
<tr>
<td>Network Service Protocol</td>
<td>Not Selected</td>
</tr>
</tbody>
</table>

**Network Service**

<table>
<thead>
<tr>
<th>Service Parameter Name</th>
<th>Service Parameter Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Selected</td>
<td>Not Exists</td>
</tr>
</tbody>
</table>
Translation Pattern for ELINs

Translation Pattern Configuration

Translation Pattern: 408999XXX
Status: Ready

Copy | Update | Delete

Pattern Definition

Translation Pattern: 408999XXX
Partition: E911
Description:
Numbering Plan*: North American Numbering Plan
Route Filter: < None >
Calling Search Space: E911CSS
MLPP Precedence: Default
Route Option: Route this pattern, Block this pattern: Not Selected

Provide Outside Dial Tone
Block this pattern

Urgent Priority

Calling Party Transformations

Use Calling Party’s External Phone Number Mask
PSAP Gateway Configuration (CAMA TRUNK)

Gateway Configuration

Product: Cisco 3845
Gateway: AALN/53/SU0/0@tony3845
Registration: Registered with Cisco CallManager CM-GUANATOS
IP Address: 172.20.8.26

Status: Ready

Gateway Information

- Description: AALN/53/SU0/0@tony3845
- Device Pool*: Default
- Common Profile: < None >
- Call Classification*: Use System Default
- Calling Search Space: E911CSS
- AAR Calling Search Space: < None >
- Media Resource Group List: < None >
- Location: < None >
- AAR Group: < None >
### Network Locale

- **Network Locale**: <None>

### Multilevel Precedence and Preemption (MLPP) Information

- **MLPP Domain**: (e.g., '0000FF')
- **MLPP Indication**: Not available on this device
- **MLPP Preemption**: Not available on this device

### Port Information

- **Port Direction**: Bothways
- **Attendant DN**: 3000

### Product Specific Configuration

- **Hookflash Timer (50-1550ms)**: 500
- **Inter-digit Duration Timer (50-500 ms)**: 100
- **Input Gain (-6..14 db)**: 0
- **Output Attenuation (0..14 db)**: 3
- **Echo Cancellation Enable**: Enable
- **Echo Cancellation Coverage (ms)**: Default

* indicates required item
Cisco Unified CallManager User

User Configuration

Application Profiles of Emergency
- Device Association
- Cisco IPMA
- Extension Mobility
- Softphone

User: Emergency 911Response

Status: Ready

Update

First Name: Emergency

Last Name*: 911Response

User ID: cer

User Password*: Change...

PIN*: Change...

Telephone Number:

Manager User ID:

Department:

User Locale: English United States

Enable CTI Application Use: 

Enable CTI Super Provider: 

Call Park Retrieval Allowed: 

Add a New User
Back to User List
T1-QSIG Gateway

Cisco CallManager Administration - Gateway Configuration - Microsoft Internet Explorer

Gateway Configuration

Product: Cisco 3845
Gateway: S0/SU0/D81-0@tony3845
Device Protocol: Digital Access PRI
Registration: Registered with Cisco CallManager CM-GUANATOS
IP Address: 172.20.8.26

Status: Ready
Update  Delete  Reset Gateway

Device Information

End-Point Name*  S0/SU0/D81-0@tony3845
Description  S0/SU0/D81-0@tony3845
Device Pool*  Default
Common Profile  (None)
Call Classification*  Use System Default
Network Locale  (None)
Media Resource Group List  (None)
Location  (None)
AAR Group: (None)
Load Information:
V150 (subset):

Multilevel Precendence and Preemption (MLPP) Information
MLPP Domain (e.g., '0000FF'):
MLPP Indication: Off
MLPP Preemption: Disabled

Interface Information
PRI Protocol Type*: PRI DSIG T1
Protocol Side*: Network
Channel Selection Order*: Top Down
Channel IE Type*: Timeslot Number
PCM Type*: u-law
Delay for first restart (1/8 sec ticks): 32
Delay between restarts (1/8 sec ticks): 4

Call Routing Information
Inbound Calls
Significant Digits*: All
Calling Search Space: Default CSP

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Page 46 of 78
<table>
<thead>
<tr>
<th><strong>Significant Digits</strong>*</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Calling Search Space</strong></td>
<td>phoneCSS</td>
</tr>
<tr>
<td><strong>AAR Calling Search Space</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Prefix DN</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Outbound Calls

<table>
<thead>
<tr>
<th><strong>Calling Line ID Presentation</strong>*</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Calling Party Selection</strong>*</td>
<td>Originator</td>
</tr>
<tr>
<td><strong>Called party IE number type unknown</strong>*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td><strong>Calling party IE number type unknown</strong>*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td><strong>Called Numbering Plan</strong>*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td><strong>Calling Numbering Plan</strong>*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td><strong>Number of digits to strip</strong>*</td>
<td>0</td>
</tr>
<tr>
<td><strong>Caller ID DN</strong></td>
<td></td>
</tr>
<tr>
<td><strong>SMDI Base Port</strong>*</td>
<td>0</td>
</tr>
</tbody>
</table>

### 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-IE/ISDN Progress Indicator IE Enable
**Setup non-ISDN Progress Indicator IE Enable**

**MCIDN 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)

**UIUIE Configuration**

**Passing Precedence Level Through UIUIE**

Security Access Level

**Product Specific Configuration**

Line Coding

Framing

Clock

Input Gain (-6..14 db)

Output Attenuation (-6..14 db)

Echo Cancellation Enable

Echo Cancellation Coverage (ms)

* indicates required item

** applicable to DMS-100 protocol only

*** applicable to DMS-100 protocol and DMS-250 protocol only
Route Pattern Configuration

Route Pattern: 40XX
Status: Ready
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List

Pattern Definition
- Route Pattern*: 40XX
- Partition: <None>
- Description:
- Numbering Plan*: North American Numbering Plan
- Route Filter: <None>
- MLPP Precedence: Default
- Gateway or Route List*: SG/SU/DS1-0@tony3845 (Edit)
- Route Option
  - Route this pattern
  - Block this pattern — Not Selected —
- Call Classification*
  - OnNet
- Provide Outside Dial Tone
- Allow Overlap Sending
- Urgent Priority
- Allow Device Override
Note: For detailed information regarding QSIG interoperability between CCM and Avaya PBX go to:
SNMP service must be active and set to READ-ONLY
Cisco Emergency Responder Configuration

Cisco Unified CallManager Details

Modify Cisco CallManager

- Cisco CallManager *
- CTI Manager *
- CTI Manager User Name *
- CTI Manager Password *
- BackUp CTI Manager 1
- BackUp CTI Manager 2
- Telephony Port Begin Address
- Number of Telephony Ports

Status: Please enter any change for the current Cisco CallManager

* indicates required item
Cisco ER Group Settings

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

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Ready</td>
</tr>
<tr>
<td>Cisco ER Group Name</td>
<td>CERServerGroup</td>
</tr>
<tr>
<td>Peer TCP Port</td>
<td>17001</td>
</tr>
<tr>
<td>Heart beat Count</td>
<td>3</td>
</tr>
<tr>
<td>Heart beat Interval (in sec)</td>
<td>30</td>
</tr>
<tr>
<td>Active Cell Time out (in min)</td>
<td>180</td>
</tr>
<tr>
<td>SMTP Mail Server</td>
<td></td>
</tr>
<tr>
<td>Source Mail ID (mandatory if SMTP Server configured)</td>
<td></td>
</tr>
<tr>
<td>System Administrator Mail ID</td>
<td></td>
</tr>
<tr>
<td>Calling Party Modification</td>
<td>enable</td>
</tr>
<tr>
<td>SysLog</td>
<td>enable</td>
</tr>
<tr>
<td>SysLog Server (mandatory if SysLog enabled)</td>
<td></td>
</tr>
<tr>
<td>Notes</td>
<td></td>
</tr>
</tbody>
</table>

* indicates required item

Update Settings  Cancel Changes
Telephony settings

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

Status: Ready

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDP Port Begin *</td>
<td>32000</td>
</tr>
<tr>
<td>Inter Cisco ER Group Route Pattern</td>
<td></td>
</tr>
<tr>
<td>PSAP Callback Route Point Pattern *</td>
<td>913</td>
</tr>
<tr>
<td>E11N Digit Strip Pattern *</td>
<td>913</td>
</tr>
<tr>
<td>Route Point for Primary Cisco ER Server *</td>
<td>911</td>
</tr>
<tr>
<td>Route Point for Standby Cisco ER Server *</td>
<td>912</td>
</tr>
</tbody>
</table>

* indicates required item

[Update Settings] [Cancel Changes]
Server Settings

Server Settings for CERServerGroup

Servers

Publisher (primary)

Modify Server Settings

Status: Ready

Server Name: Publisher
Host Name: CER-P

Debug Package List

- CER_DATABASE
- CER_SYSADMIN
- CER_REMOTEUPDATE
- CER_TELEPHONY
- CER_PHONETRACKINGENGINE
- CER_AGGREGATOR
- CER_ONSITEALERT
- CER_GROUP
- CER_CALLENGINE
- CER_CLUSTER

Trace Package List

- CER_DATABASE
- CER_SYSADMIN
- CER_REMOTEUPDATE
- CER_TELEPHONY
- CER_PHONETRACKINGENGINE
- CER_AGGREGATOR
- CER_ONSITEALERT
- CER_GROUP
- CER_CALLENGINE
- CER_CLUSTER

* indicates required item
### Find and List ERLs

Find Details of ERLs Where

- ERL Name: 
- Contains: 

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

<table>
<thead>
<tr>
<th>ERL Name</th>
<th>Route/Translation Pattern</th>
<th>ELIN</th>
<th>Onsite Alert Ids.</th>
<th>Street Name</th>
<th>Community Name</th>
<th>State</th>
<th>Copy</th>
<th>Delete</th>
<th>Audit Trail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>100911--4C00</td>
<td></td>
<td></td>
<td>Tasman</td>
<td>cisco</td>
<td>ca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test1</td>
<td>10911--4059994...</td>
<td></td>
<td></td>
<td>Tasman</td>
<td>Big Sky</td>
<td>TX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test2</td>
<td>11911--4059994...</td>
<td></td>
<td></td>
<td>Tasman</td>
<td>Big Sky</td>
<td>TX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test3</td>
<td>13911--4059994...</td>
<td></td>
<td></td>
<td>Tasman</td>
<td>Big Sky</td>
<td>TX</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ERL Information for Test2

* indicates required item

ERL Name * Test2
Notes

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

ELIN Settings

Route/Translation pattern 11911
ELIN 408994201

Onsite Alert Settings

Available Onsite Alert IDs

Onsite Alert IDs for the ERL

ERL Address

ALL Details

Update  Copy  Cancel Changes  Close

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Page 58 of 78
## ERL Information for Test3

* indicates required item

### ERL Name
Test3

### Notes

- [ ] Test ERL (Select if this ERL is used for Synthetic Testing)

### ELIN Settings

**Route/Translation pattern**

- [ ] Add
- [ ] Update
- [ ] Remove

- 13911-4039964203

### Onsite Alert Settings

**Available Onsite Alert IDs**

**Onsite Alert IDs for the ERL**

- [ ] Add
- [ ] Update
- [ ] Remove

### ERL Address

- [ ] Update
- [ ] Copy
- [ ] Cancel Changes
- [ ] Close
SNMP Connection

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: 164.20.4.5  64.20-20.30-60. *  *. *

Status: Please enter any change for the current SNMP Setting

Modify SNMP Setting

<table>
<thead>
<tr>
<th>IP Address/Host Name</th>
<th>Timeout(in sec)</th>
<th>Retries</th>
<th>Read Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.20.8.20</td>
<td>10</td>
<td>2</td>
<td>public</td>
</tr>
</tbody>
</table>

* indicates required item

Click on a record to view or modify

Configure ERLs

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LAN Switch Identifying

LAN Switch Details

LAN Switches
- Export
- Import
- 172.20.8.20

Modify LAN Switch
- Status: Please enter any change for the current LAN Switch
- Switch Host Name / IP Address: 172.20.8.20
- Notes
- Enable CAM based Phone Tracking

* indicates required item
### Switch Port Details

#### Cisco Emergency Responder Administration

**Switch Port Details**

Find | Configure | Export | Import

**View Switch Port Information**

Find ports where
- All
- Any of the conditions are satisfied

<table>
<thead>
<tr>
<th>ERL Name</th>
<th>Port</th>
<th>Status</th>
<th>View</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.20.0.20</td>
<td>3/23</td>
<td></td>
<td>View</td>
</tr>
<tr>
<td>172.20.0.20</td>
<td>3/24</td>
<td></td>
<td>View</td>
</tr>
<tr>
<td>172.20.0.20</td>
<td>3/25</td>
<td></td>
<td>View</td>
</tr>
<tr>
<td>172.20.0.20</td>
<td>3/26</td>
<td></td>
<td>View</td>
</tr>
<tr>
<td>172.20.0.20</td>
<td>3/27</td>
<td></td>
<td>View</td>
</tr>
<tr>
<td>172.20.0.20</td>
<td>3/28</td>
<td></td>
<td>View</td>
</tr>
<tr>
<td>Test3</td>
<td>172.20.8.20</td>
<td>3/29</td>
<td>View</td>
</tr>
<tr>
<td>Test3</td>
<td>172.20.8.20</td>
<td>3/30</td>
<td>View</td>
</tr>
<tr>
<td>172.20.8.20</td>
<td>3/31</td>
<td>View</td>
<td></td>
</tr>
</tbody>
</table>
Defining Manual Phones (PBX Stations)

Find and List Manually Configured Phones

Find phones where extension contains and show 20 items per page.

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

List Manually Configured Phones

Matching record(s) 1 to 2 of 2

<table>
<thead>
<tr>
<th>Line Number</th>
<th>ERL Name</th>
<th>IP Address</th>
<th>MAC Address</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>4059</td>
<td>Test2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4060</td>
<td>Test1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Add/Modify Phones

Status: Please enter any change for the current Manual Phone

Modify Phones

| Line Number * | 4060 |
| Phone Type    |      |
| Version       |      |
| IP Address    |      |
| MAC Address   |      |
| ERL Name *    | 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-i3 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-i3 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)
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 :

<table>
<thead>
<tr>
<th>NPD</th>
<th>NPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

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
Cisco Catalyst 6x00 Configuration

Console> (enable) show snmp
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 10 9 172.20.8.20/255.255.255.0 172.20.8.255
Avaya Definity Configuration

DS1 Circuit Pack

<table>
<thead>
<tr>
<th>display ds1 1a12</th>
<th>DS1 CIRCUIT PACK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Location: 01A12</td>
</tr>
<tr>
<td></td>
<td>Bit Rate: 1.544</td>
</tr>
<tr>
<td></td>
<td>Line Compensation: 1</td>
</tr>
<tr>
<td></td>
<td>Signaling Mode: isdn-pri</td>
</tr>
<tr>
<td></td>
<td>Connect: pbx</td>
</tr>
<tr>
<td></td>
<td>TN-C7 Long Timers? n</td>
</tr>
<tr>
<td></td>
<td>Interworking Message: PROGress</td>
</tr>
<tr>
<td></td>
<td>Interface Companding: mulau</td>
</tr>
<tr>
<td></td>
<td>Idle Code: 1111111</td>
</tr>
<tr>
<td></td>
<td>Name: T1 to CCM</td>
</tr>
<tr>
<td></td>
<td>Line Coding: b8zs</td>
</tr>
<tr>
<td></td>
<td>Framing Mode: esf</td>
</tr>
<tr>
<td></td>
<td>Interface: peer-master</td>
</tr>
<tr>
<td></td>
<td>Peer Protocol: Q-SIG</td>
</tr>
<tr>
<td></td>
<td>Side: a</td>
</tr>
<tr>
<td></td>
<td>CRC? n</td>
</tr>
<tr>
<td></td>
<td>DCP/Analog Bearer Capability: 3.1kHz</td>
</tr>
<tr>
<td></td>
<td>Slip Detection? y</td>
</tr>
<tr>
<td></td>
<td>Near-end CSU Type: other</td>
</tr>
<tr>
<td>Display Signaling-Group 12</td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>SIGNALING GROUP</strong></td>
<td></td>
</tr>
<tr>
<td>Group Number: 12</td>
<td></td>
</tr>
<tr>
<td>Group Type: isdn-pri</td>
<td></td>
</tr>
<tr>
<td>Associated Signaling? y</td>
<td></td>
</tr>
<tr>
<td>Primary D-Channel: 81A1224</td>
<td></td>
</tr>
<tr>
<td>Max number of MCA TSC: 5</td>
<td></td>
</tr>
<tr>
<td>Max number of CA TSC: 5</td>
<td></td>
</tr>
<tr>
<td>Trunk Group for MCA TSC: 12</td>
<td></td>
</tr>
<tr>
<td>Trunk Group for Channel Selection: 12</td>
<td></td>
</tr>
<tr>
<td>X-Mobility/Wireless Type: NONE</td>
<td></td>
</tr>
<tr>
<td>Supplementary Service Protocol: b</td>
<td></td>
</tr>
</tbody>
</table>
## Trunk Group

### display trunk-group 12

<table>
<thead>
<tr>
<th>TRUNK GROUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group Number: 12</td>
</tr>
<tr>
<td>Group Name: QSIG to CH-Neptune</td>
</tr>
<tr>
<td>Direction: two-way</td>
</tr>
<tr>
<td>Dial Access? y</td>
</tr>
<tr>
<td>Queue Length: 0</td>
</tr>
<tr>
<td>Service Type: tie</td>
</tr>
<tr>
<td>TestCall BCC: 4</td>
</tr>
</tbody>
</table>

### TRUNK PARAMETERS

<table>
<thead>
<tr>
<th>Codeset to Send Display: 0</th>
<th>Codeset to Send National IEs: 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Message Size to Send: 260</td>
<td>Charge Advice: none</td>
</tr>
<tr>
<td>Supplementary Service Protocol: b</td>
<td>Digit Handling (in/out): embloc/embloc</td>
</tr>
<tr>
<td>Trunk Hunt: ascend</td>
<td></td>
</tr>
<tr>
<td>QSIG Value-Added? y</td>
<td></td>
</tr>
<tr>
<td>Digital Loss Group: 13</td>
<td></td>
</tr>
<tr>
<td>Calling Number - Delete:</td>
<td>Insert:</td>
</tr>
<tr>
<td>Bit Rate: 1200</td>
<td>Synchronization: async</td>
</tr>
<tr>
<td>Disconnect Supervision - In? y</td>
<td>Out? y</td>
</tr>
<tr>
<td>Answer Supervision Timeout: 0</td>
<td></td>
</tr>
</tbody>
</table>

### INCOMING CALL HANDLING TREATMENT

<table>
<thead>
<tr>
<th>Service/ Feature</th>
<th>Called Len</th>
<th>Called Number</th>
<th>Del Insert</th>
<th>Per Call</th>
<th>Night GPN/BN</th>
<th>Serv</th>
</tr>
</thead>
</table>

---

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### Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMA</td>
<td>Analog “Centralized Automatic Message Accounting” E911 Trunk</td>
</tr>
<tr>
<td>PSAP</td>
<td>Public Service Answering Point</td>
</tr>
</tbody>
</table>
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