Nortel Succession PBX with Cisco 3845 T1 QSIG as an MGCP Gateway to Cisco Unified Communications Manager 4.2 and Cisco Emergency Responder 1

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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 4.2, 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 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 a Nortel Succession 4.0 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”.
PXB Software: Version 2121 Release 4.0
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 911originating 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
Phone Partition

Partition Configuration

Partition: Phones
Status: Ready

Partition Name*
Phones
Description
Phones
Time Schedule
<None>

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

* indicates required item
Partition Configuration

Partition: E911
Status: Ready

Partition Name: E911
Description: E911
Time Schedule: <None>

Time Zone: (GMT) Monrovia, Casablanca

* indicates required item
### 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

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

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

- [Copy]
- [Update]
- [Delete]

**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
CSS E911

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

**Directory Numbers**

<table>
<thead>
<tr>
<th>Base Phone</th>
<th>Directory Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line 1 - 4100 In</td>
<td></td>
</tr>
</tbody>
</table>

**Phone:** SEP900BC303B28F4 (Auto 4100)  
**Registration:** Registered with Cisco CallManager CM-GUANATO8  
**IP Address:** 172.20.8.11  
**Status:** Ready

### Device Information

<p>| MAC Address* | 000C303828F4 |
| Description | Auto 4100 |
| Owner User ID | |
| Device Pool* | Default |
| Common Profile | &lt; None &gt; |
| Calling Search Space | phoneCSS |
| AAR Calling Search Space | &lt; None &gt; |
| Media Resource Group List | &lt; None &gt; |
| User Held Audio Source | &lt; None &gt; |</p>
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Hold Audio Source</td>
<td>&quot;None&quot;</td>
</tr>
<tr>
<td>Location</td>
<td>&quot;None&quot;</td>
</tr>
<tr>
<td>AAR Group</td>
<td>&quot;None&quot;</td>
</tr>
<tr>
<td>User Locale</td>
<td>&quot;None&quot;</td>
</tr>
<tr>
<td>Network Locale</td>
<td>&quot;None&quot;</td>
</tr>
<tr>
<td>Device Security Mode</td>
<td>&quot;Use System Default&quot;</td>
</tr>
<tr>
<td>Signal Packet Capture Mode</td>
<td>&quot;None&quot;</td>
</tr>
<tr>
<td>Packet Capture Duration</td>
<td>0</td>
</tr>
<tr>
<td>Built In Bridge</td>
<td>&quot;Default&quot;</td>
</tr>
<tr>
<td>Privacy</td>
<td>&quot;Default&quot;</td>
</tr>
<tr>
<td>Device Mobility Mode</td>
<td>&quot;Default&quot;</td>
</tr>
</tbody>
</table>

- Device security mode only takes effect if the enterprise parameter Cluster Security Mode is set to 1.

**Phone Button Template Information**

- Phone Button Template*: Standard 7940

**Softkey Template Information**

- Softkey Template: "None"

**Firmware Load Information**

- Leave blank to use default

**Cisco IP Phone - External Data Locations**

- Leave blank to use default
<table>
<thead>
<tr>
<th><strong>Authentication String</strong></th>
<th>Generate String</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Key Size (bits)</strong></td>
<td>1024</td>
</tr>
<tr>
<td><strong>Operation Completes By</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Certificate Operation Status</strong></td>
<td>None</td>
</tr>
</tbody>
</table>

**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
- **Gratuitus 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

Associated With

**SEP000C303026F4**

**7040** (Line 1)

**Directory Number: 4100 (Phones)**

**Status:** Ready

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

Update | Remove from Device | Reset Devices

<table>
<thead>
<tr>
<th>Directory Number*</th>
<th>4100</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Directory Number Settings</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Voice Mail Profile</th>
<th>&lt;None&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Choose &lt;None&gt; to use default)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Calling Search Space</th>
</tr>
</thead>
</table>

phoneCSS

<table>
<thead>
<tr>
<th>User Hold Audio Source</th>
</tr>
</thead>
</table>

<None>

<table>
<thead>
<tr>
<th>Network Hold Audio Source</th>
</tr>
</thead>
</table>

<None>

<table>
<thead>
<tr>
<th>Auto Answer</th>
</tr>
</thead>
</table>

Auto Answer Off

<table>
<thead>
<tr>
<th>AAR Settings</th>
</tr>
</thead>
</table>

Voice Mail | AAR Destination Mask | AAR Group |
|------------|----------------------|-----------|

<table>
<thead>
<tr>
<th>AAR</th>
</tr>
</thead>
</table>

Removable this destination from the call forwarding history

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### 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>&lt;None&gt;</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>&lt;None&gt;</td>
</tr>
<tr>
<td>Forward No Coverage External</td>
<td></td>
<td></td>
<td>&lt;None&gt;</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**: 
  - (seconds)

- **Call Pickup Group**: 
  - <None> ([View Details])

### MLPP Alternate Party Settings

- **Target (Destination)**: 
  - 

- **Calling Search Space**: 
  - <None> 

- **No Answer Ring Duration**: 
  - (seconds)

### Line Settings for all Devices

- **Alerting Name**: 
  - Cmer Bravo 

### Line Settings for this Device

- **Display (Internal Caller ID)**: 
  - Cmer Bravo
<table>
<thead>
<tr>
<th>Line Settings for this Device</th>
<th></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>

<table>
<thead>
<tr>
<th>Multiple Call / Call Waiting Settings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of Calls*</td>
<td>4 (1 - 200)</td>
</tr>
<tr>
<td>Busy Trigger*</td>
<td>2 (&lt;= Max. Calls)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forwarded Call Information Display</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Caller Name</td>
<td></td>
</tr>
<tr>
<td>Redirected Number</td>
<td></td>
</tr>
<tr>
<td>Dialed Number</td>
<td></td>
</tr>
</tbody>
</table>

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

** Ring Setting (Phone Active) applies to this line when any line on the phone has a call in progress.

**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 Points

### Find and List CTI Route Points

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

Find CTI Route Points where  Device Name  begins with  
and show 20 items per page

To list all items, click Find without entering any search text, or use "Device Name is not empty" as the search criteria.

Matching record(s) 1 to 2 of 2

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

<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 172.20.8.254</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSELIN913</td>
<td>PSELIN913</td>
<td>Default</td>
<td>MigratedCommonProfile</td>
<td>CM-GUANATOS 172.20.8.254</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Directory Number: 911 (Phones)**

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

<table>
<thead>
<tr>
<th>Update</th>
<th>Remove from Device</th>
<th>Reset Devices</th>
</tr>
</thead>
</table>

#### Directory Number

<table>
<thead>
<tr>
<th>Directory Number*</th>
<th>911</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition</td>
<td>Phones</td>
</tr>
</tbody>
</table>

#### Directory Number Settings

- **Voice Mail Profile:** (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>Voice Mail</th>
<th>AAR Destination Mask</th>
<th>AAR Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAR:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Remove this destination from the call forwarding history  
- Retain this destination in the call forwarding history
### Call Forward and Pickup Settings

<table>
<thead>
<tr>
<th>Voice Mail</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>(seconds)</td>
<td></td>
</tr>
<tr>
<td>Call Pickup Group</td>
<td>&lt;None&gt;</td>
<td>(View Details)</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
### Line Settings for all Devices
- **Alerting Name**

### Line Settings for this Device
- **Display (Internal Caller ID)**
- **Line Text Label** Not available on this device.
- **External Phone Number Mask**
- **Message Waiting Lamp Policy** Not available on this device.
- **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** 5000 (1 - 10000)
- **Busy Trigger** 4500 (<= Max. Calls)

### Forwarded Call Information Display
- **Caller Name**
- **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)
CTI Route Point Configuration

Device: RPELIN913 (RPELIN913)
Registration: Registered with Cisco CallManager CM-GUANATOS
IP Address: 172.20.6.254
Status: Ready

CTI Route Point Configuration

<table>
<thead>
<tr>
<th>Device Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Name*</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Device Pool*</td>
</tr>
<tr>
<td>Common Profile</td>
</tr>
<tr>
<td>Calling Search Space</td>
</tr>
<tr>
<td>Location</td>
</tr>
<tr>
<td>Media Resource Group</td>
</tr>
<tr>
<td>User Hold Audio Source</td>
</tr>
<tr>
<td>Network Hold Audio Source</td>
</tr>
</tbody>
</table>

* 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

**Associated With:** RPEL913 (Line 1)

<table>
<thead>
<tr>
<th>Directory Number Settings</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directory Number*</td>
<td>913XXXXXXX</td>
</tr>
<tr>
<td>Partition</td>
<td>E911</td>
</tr>
</tbody>
</table>

**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>
</table>

- **Remove this destination from the call forwarding history**
- **Retain this destination in the call forwarding history**
### Call Forward and Pickup Settings

<table>
<thead>
<tr>
<th>Voice Mail</th>
<th>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>
</tbody>
</table>

- No Answer Ring Duration: [X] (seconds)
- Call Pickup Group: [X] (None) (View Details)

### MLPP Alternate Party Settings

<table>
<thead>
<tr>
<th>Target (Destination)</th>
<th>Calling Search Space</th>
<th>No Answer Ring Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(None)</td>
<td>(seconds)</td>
</tr>
</tbody>
</table>

### Line Settings for all Devices

<table>
<thead>
<tr>
<th>Alerting Name</th>
</tr>
</thead>
</table>

### Line Settings for this Device

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

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

#### Device Configuration (Model = CTI Port)

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Device Name</strong></td>
<td>CERSec1</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>CERSec1</td>
</tr>
<tr>
<td><strong>Owner User ID</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Device Pool</strong></td>
<td>Default</td>
</tr>
<tr>
<td><strong>Common Profile</strong></td>
<td>None</td>
</tr>
<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>Media Resource Group List</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>User Hold Audio Source</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Network Hold Audio Source</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>None</td>
</tr>
</tbody>
</table>
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>
AAR Group: <None>
Device Mobility Mode: Default (View Current Settings)

- Ignore Presentation Indicators (internal calls only)
- Log into Hunt Group

Multilevel Precedence and Preemption (MLPP) Information
MLPP Domain: <None> (e.g., '0000FF')
MLPP Indication: Not available on this device
MLPP Preemption: Not available on this device

* indicates a required item.
# Call Forward and Pickup Settings

<table>
<thead>
<tr>
<th>Voice Mail</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>
</tbody>
</table>

**Call Pickup Group**

- <None> (View Details)

---

# MLPP Alternate Party Settings

<table>
<thead>
<tr>
<th>Target (Destination)</th>
<th>Calling Search Space</th>
<th>No Answer Ring Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;None&gt;</td>
<td>(seconds)</td>
</tr>
</tbody>
</table>

---

# Line Settings for all Devices

- Alerting Name

---

# Line Settings for this Device
### 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)**
- **Ring Setting (Phone Active)**
- **Call Pickup Group Audio Alert Setting (Phone Idle)**
- **Call Pickup Group Audio Alert Setting (Phone Active)**

### 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)
### 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>AAL/S3/SU0/0@ton...</td>
<td></td>
</tr>
<tr>
<td>11911.</td>
<td>E911</td>
<td></td>
<td></td>
<td>AAL/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>10911.</td>
<td>E911</td>
<td></td>
<td></td>
<td>AAL/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.

### 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/S5/SU/0@tony3845</td>
</tr>
<tr>
<td>Route Option</td>
<td>Route this pattern</td>
</tr>
<tr>
<td>Call Classification*</td>
<td>OffNet</td>
</tr>
</tbody>
</table>

- Provide Outside Dial Tone
- Require Forced Authorization Code
- Allow Device Override
- Urgent Priority
- Allow Overlap Sending
### Calling Party Transformations
- **Use Calling Party’s External Phone Number Mask**
- **Calling Party Transform Mask**: 4089934200
- **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**: 4089934200
- **Prefix Digits (Outgoing Calls)**

### 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 11911

Route Pattern: 11911.
Status: Ready
Note: Any update to this Route Pattern automatically resets the associated gateway or Route List.

Pattern Definition

<table>
<thead>
<tr>
<th>Route Pattern*</th>
<th>11911</th>
</tr>
</thead>
<tbody>
<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/S5/SUI/0@tony3845</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>Allow Device Override</td>
<td>Urgent Priority</td>
</tr>
<tr>
<td>Require Forced Authorization Code</td>
<td></td>
</tr>
</tbody>
</table>
### Calling Party Transformations

- **Use Calling Party's External Phone Number Mask**
- **Calling Party Transform Mask**: 4083994201
- **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)**: 4083994201

### ISDN Network-Specific Facilities Information Element

- **Carrier Identification Code**
- **Network Service Protocol**: Not Selected
- **Network Service**: Not Selected
- **Service Parameter Name**: Not Exists
- **Service Parameter Value**:

*Indicates required item.*
Route Pattern 13911

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>
</tr>
</thead>
<tbody>
<tr>
<td>Route Pattern*</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Numbering Plan*</td>
</tr>
<tr>
<td>Route Filter</td>
</tr>
<tr>
<td>MLPP Precedence</td>
</tr>
<tr>
<td>Gateway or Route List*</td>
</tr>
<tr>
<td>Route Option</td>
</tr>
<tr>
<td>Call Classification*</td>
</tr>
<tr>
<td>ProvideOutside Dial Tone</td>
</tr>
<tr>
<td>Require Forced Authorization Code</td>
</tr>
</tbody>
</table>
### Calling Party Transformations

- **Require Client Matter Code**: 

- **Use Calling Party’s External Phone Number Mask**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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

- **Carrier Identification Code**: 

- **Network Service Protocol**: Not Selected

<table>
<thead>
<tr>
<th>Network Service</th>
<th>Service Parameter Name</th>
<th>Service Parameter Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Selected</td>
<td>Not Exists</td>
<td></td>
</tr>
</tbody>
</table>

* indicates required item.
Translation Pattern Configuration

Translation Pattern: 408999XXXX
Status: Ready

Add a New Translation Pattern
Back to Find/List Translation Patterns

Pattern Definition

<table>
<thead>
<tr>
<th>Translation Pattern</th>
<th>408999XXXX</th>
</tr>
</thead>
<tbody>
<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>Calling Search Space</td>
<td>E911CSS</td>
</tr>
<tr>
<td>MLPP Precedence</td>
<td>Default</td>
</tr>
<tr>
<td>Route Option</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Route this pattern</td>
</tr>
<tr>
<td></td>
<td>Block this pattern — Not Selected —</td>
</tr>
</tbody>
</table>

Provide Outside Dial Tone

Call Party Transformations

Use Calling Party's External Phone Number Mask

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**Cisco CallManager 4.2 Administration - Translation Pattern Configuration - Microsoft Internet Explorer**

- **Numbering Plan**: North American Numbering Plan
- **Route Filter**: None
- **Calling Search Space**: E911CSS
- **MLFP Precedence**: Default
- **Route Option**: Route this pattern
- **Provide Outside Dial Tone**: Not Selected
- **Urgent Priority**: Not Selected

### 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**: None
- **Called Party Transform Mask**: 
- **Prefix Digits (Outgoing Calls)**: 913

*indicates required item.*
PSAP Gateway Configuration (CAMA Trunk)

Gateway Configuration

Product: Cisco 3845
Gateway: AALN/S3/SU0/0@tony3845
Registration: Registered with Cisco CallManager CM-GUANATOS
IP Address: 172.20.8.26

Status: Ready

Gateway Information

<table>
<thead>
<tr>
<th>Description</th>
<th>AALN/S3/SU0/0@tony3845</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Pool*</td>
<td>Default</td>
</tr>
<tr>
<td>Common Profile</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>Call Classification*</td>
<td>Use System Default</td>
</tr>
<tr>
<td>Calling Search Space</td>
<td>E911CSS</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>Location</td>
<td>&lt; None &gt;</td>
</tr>
<tr>
<td>AAR Group</td>
<td>&lt; None &gt;</td>
</tr>
</tbody>
</table>
### Network Locale

- **MLPP Domain**: Not available on this device
- **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)**: 600
- **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
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...
PIM*: 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
### User Configuration

<table>
<thead>
<tr>
<th>Application Profiles of Emergency</th>
<th>User Locale</th>
<th>Country Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Association</td>
<td>English, United States</td>
<td></td>
</tr>
<tr>
<td>Cisco IPMA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extension Mobility</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SoftPhone</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enable CTI Application Use</td>
<td>☑</td>
</tr>
<tr>
<td></td>
<td>Enable CTI Super Provider</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Call Park Retrieval Allowed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enable Calling Party Number Modification</td>
<td>☑</td>
</tr>
<tr>
<td></td>
<td>Associated PC</td>
<td>Not Defined</td>
</tr>
<tr>
<td></td>
<td>Primary Extension</td>
<td>4050</td>
</tr>
<tr>
<td></td>
<td>Controlled Devices</td>
<td>CERS01, RP911, RP915913</td>
</tr>
<tr>
<td></td>
<td>Enable Authentication Proxy Rights</td>
<td>False</td>
</tr>
<tr>
<td></td>
<td>Controlled Device Profiles</td>
<td>none</td>
</tr>
</tbody>
</table>

* indicates required item.

View page in **English, United States**

Page displayed at Wed Jan 18 16:24:17 PST 2006

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<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Significant Digits*</td>
<td>All</td>
</tr>
<tr>
<td>Calling Search Space</td>
<td>phoneCSS</td>
</tr>
<tr>
<td>AAR Calling Search Space</td>
<td>None</td>
</tr>
<tr>
<td>Prefix DN</td>
<td></td>
</tr>
<tr>
<td><strong>Outbound Calls</strong></td>
<td></td>
</tr>
<tr>
<td>Calling Line ID Presentation*</td>
<td>Default</td>
</tr>
<tr>
<td>Calling Party Selection*</td>
<td>Originator</td>
</tr>
<tr>
<td>Called party IE number type unknown*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td>Called party IE number type unknown*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td>Called Numbering Plan*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td>Calling Numbering Plan*</td>
<td>Cisco CallManager</td>
</tr>
<tr>
<td>Number of digits to strip*</td>
<td>0</td>
</tr>
<tr>
<td>Caller ID DN</td>
<td></td>
</tr>
<tr>
<td>SMDI Base Port*</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 DisplayIE***
- Setup non-ISDN Progress Indicator IE Enable****
Setup non-ISDN Progress Indicator IE Enable****
MCDN Channel Number Extension Bit Set to Zero**
Send Calling Name In Facility IE
Interface Identifier Present**

Interface Identifier Value**
Connected Line ID Presentation (QSIG Inbound Call)*

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
Note: For detailed information regarding QSIG interoperability between CCM and Nortel Succession PBX go to:
SNMP service must be active and set to READ-ONLY
Cisco Emergency Responder Configuration

Cisco Unified CallManager Details

Cisco CallManager Details

<table>
<thead>
<tr>
<th>Cisco CallManagers</th>
<th>Status: Please enter any change for the current Cisco CallManager</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.20.110.254</td>
<td>* Indicates required item</td>
</tr>
</tbody>
</table>

**Modify Cisco CallManager**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco CallManager</td>
<td>172.20.110.254</td>
</tr>
<tr>
<td>CallManager List</td>
<td>172.20.110.254</td>
</tr>
<tr>
<td>CTI Manager</td>
<td>certest</td>
</tr>
<tr>
<td>CTI Manager User Name</td>
<td></td>
</tr>
<tr>
<td>CTI Manager Password</td>
<td></td>
</tr>
<tr>
<td>BackUp CTI Manager 1</td>
<td></td>
</tr>
<tr>
<td>BackUp CTI Manager 2</td>
<td></td>
</tr>
<tr>
<td>Telephony Port Begin Address</td>
<td>4250</td>
</tr>
<tr>
<td>Number of Telephony Ports</td>
<td>2</td>
</tr>
</tbody>
</table>

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Page 52 of 81
Cisco ER Group Settings

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

Status: Ready

Cisco ER Group Name *

Peer TCP Port *

Heartbeat Count *

Heartbeat Interval (in sec) *

Active Cell Time out (in min) *

SMTP Mail Server

SOURCE Mail ID (mandatory if SMTP Server configured)

System Administrator Mail ID

Calling Party Modification

SysLog *

SysLog Server (mandatory if SysLog enabled) (eg: syslogserver.cisco.com)

Notes

* indicates required item

Update Settings  Cancel Changes
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 * 913XXXXXXXX
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
Server Settings for CERServerGroup

Servers
- Publisher (primary)

Status: Ready

Modify Server Settings

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: [Select]  
contains [Select]  
and show [Select] items per page  
To list all items, click Find without entering any search text.

**Configure Default ERL**  
**Add New ERL**  

Status: Deleted successfully.

**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>

First | Previous | Next | Last

**Configure Default ERL**  
**Add New ERL**
ERL Information for Test1

* indicates required item

ERL Name * Test1

Notes

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

ELIN Settings

Route/Translation pattern 10911
ELIN 4089994200

Onsite Alert Settings

Available Onsite Alert IDs: <input>
Onsite Alert IDs for the ERL: <input>

ERL Address

ALI Details

Update Copy Cancel Changes Close
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

Add

Update

Remove

ELIN
4039994201

Onsite Alert Settings

Available Onsite Alert IDs

Onsite Alert IDs for the ERL

ERL Address

ALL Details

Update
Copy
Cancel Changes
Close
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 13911–4039954203

ELIN
Update
Remove

Onsite Alert Settings

Available Onsite Alert IDs
Onsite Alert IDs for the ERL

ERL Address

ALL Details

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   164.20-30.30-60.*   *.4.*

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

<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>

Configure ERLs
### LAN Switch Details

**LAN Switches**

<table>
<thead>
<tr>
<th>Export</th>
<th>Import</th>
</tr>
</thead>
</table>

#### Modify LAN Switch

<table>
<thead>
<tr>
<th>Switch Host Name / IP Address *</th>
<th>172.20.8.20</th>
</tr>
</thead>
</table>

**Notes**

- Enable CAM based Phone Tracking

* indicates required item
Switch Port Details

Find Switch Port Information
Find ports where

<table>
<thead>
<tr>
<th>ERL Name</th>
<th>Contains</th>
<th>View</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.20.8.20</td>
<td>3/23</td>
<td>View</td>
</tr>
<tr>
<td>172.20.6.20</td>
<td>3/24</td>
<td>View</td>
</tr>
<tr>
<td>172.20.8.20</td>
<td>3/25</td>
<td>View</td>
</tr>
<tr>
<td>172.20.8.20</td>
<td>3/26</td>
<td>View</td>
</tr>
<tr>
<td>172.20.8.20</td>
<td>3/27</td>
<td>View</td>
</tr>
<tr>
<td>172.20.8.20</td>
<td>3/28</td>
<td>View</td>
</tr>
</tbody>
</table>

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
Test3 | 172.20.8.20 | 3/31 | View |
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

Status: Ready
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>

First  Previous  Next  Last  Page 1 of 1
Add/Modify Phones

Status: Please enter any change for the current Manual Phone

Modify Phones

- Line Number *
- Phone Type
- Version
- IP Address
- MAC Address
- ERL Name *

* 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
!
!
!
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)
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
Supervisory Disconnect Timing is set to 350 ms
Router3845#

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 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
 072 096 100
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
FARM 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
Configure Route Data Block

REQ: prt

TYPE: rdb

CUST 0

ROUT 104

TYPE RDB
CUST 00
DMOD
ROUT 104
DES TOJUPITER
TKTP TIE
NP1D_TBL_NUM 0
ESN NO
CNVT NO
SAT NO
RCLS EXT
VTRK NO
NODE
DTRK YES
BRIP NO
DGTP PRL2
ISDN YES
MODE PRA
IFC ISGF
SBN NO
PNI 00001
NCNA NO
NCRD NO
CTYP UKWN
INAC NO
ISAR NO
CPPX6 YES
DACP NO
INTC NO
DSEL VOD
PTYP DTT
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 204
TCPA 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
 SPF 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
 TTB 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
POCA 1
PCML A
NCOS 0
RTMB 104 1
B-CHANNEL SIGNALING
TGAR 1
AST NO
TAPG 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
DDS19
ODAS 20
DI 21
CHG 23
CAB 24
BAUT 25
CASM 26
CASR 27
BQUE 28
NTRF 29
NCOS 32
<table>
<thead>
<tr>
<th>Code</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPRK</td>
<td>33</td>
</tr>
<tr>
<td>SSC</td>
<td>34</td>
</tr>
<tr>
<td>IMS</td>
<td>35</td>
</tr>
<tr>
<td>UST</td>
<td>35</td>
</tr>
<tr>
<td>UMG</td>
<td>35</td>
</tr>
<tr>
<td>ROA</td>
<td>36</td>
</tr>
<tr>
<td>NSIG</td>
<td>37</td>
</tr>
<tr>
<td>MCBQ</td>
<td>38</td>
</tr>
<tr>
<td>NSC</td>
<td>39</td>
</tr>
<tr>
<td>BACD</td>
<td>40</td>
</tr>
<tr>
<td>ACDB</td>
<td>41</td>
</tr>
<tr>
<td>ACDC</td>
<td>42</td>
</tr>
<tr>
<td>LM AN</td>
<td>43</td>
</tr>
<tr>
<td>MUS</td>
<td>44</td>
</tr>
<tr>
<td>ACDA</td>
<td>45</td>
</tr>
<tr>
<td>MWC</td>
<td>46</td>
</tr>
<tr>
<td>AAB</td>
<td>47</td>
</tr>
<tr>
<td>GHP</td>
<td>48</td>
</tr>
<tr>
<td>NFCR</td>
<td>49</td>
</tr>
<tr>
<td>LNK</td>
<td>51</td>
</tr>
<tr>
<td>FCA</td>
<td>52</td>
</tr>
<tr>
<td>SR</td>
<td>53</td>
</tr>
<tr>
<td>AA</td>
<td>54</td>
</tr>
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Acronyms

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Important Information

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