

# Phones Registration with Sub/Pub Redundancy

« CDP / LLDP-MED (/workbook/view/ccie-collaboration/task/cdp-ldp-med-MzAyNQ%3D%3D) | SIP Phones Registration with HQ Sub/Pub Redundancy (/workbook/view/ccie-collaboration/task/sip-phones-registration-with-hq-sub-pub-redundancy-MzAyNw%3D%3D) »

Last updated: November 13, 2017

## Tasks

- Register HQ Phone 1 (SCCP) to HQ CUCM cluster and Site B Phone 1 (SCCP) to Site B CUCM, according to provided telephony number scheme in the above table at the beginning.
- Ensure the HQ phone is provisioned with TFTP redundancy such that the Publisher CUCM is the backup TFTP server.
- Extension-to-extension dialing of each site uses 4 digits only.
- Caller name display should be delivered on internal 4- digit calls- use trivial caller names such as "HQ Phone 1 (SCCP)" and "Site B Phone 1".
- Both phones should display globalized calling number on the upper right hand corner of the phone screen. Ensure these phones at HQ and SB have their date in the format of m-d-y and that their time shows up with an "am/pm".

## Configuration: [Click to collapse](#)

Before you begin shutdown the port GigabitEthernet 0/14 on HQ Switch

### HQ – Publisher

System > Cisco Unified CM > 11.100.64.12

The screenshot shows the Cisco Unified CM Configuration interface. At the top, there are buttons for Save, Reset, and Apply Config. Below that, the current configuration is identified as 'Cisco Unified Communications Manager: CM\_11.100.64.12 (used by 8 devices)'. The 'Server Information' section includes fields for CTI ID (2), Cisco Unified Communications Manager Server\* (11.100.64.12), Cisco Unified Communications Manager Name\* (CM\_11.100.64.12), Description (11.100.64.12), and Location Bandwidth Manager Group (< None >). The 'Auto-registration Information' section includes Starting Directory Number\* (2001), Ending Directory Number\* (2002), Partition (< None >), and External Phone Number Mask. At the bottom, there is a checkbox for 'Auto-registration Disabled on this Cisco Unified Communications Manager' which is currently unchecked.

# Verification

The HQ Phone 1 should come up as registered in the HQ CallManager Cluster.

CONTENTS

Find and List Phones Related Links: Actively Logged In Device Report Go

Buttons: Add New, Select All, Clear All, Delete Selected, Reset Selected, Apply Config to Selected

Status: 2 records found

Phone (1 - 2 of 2) Rows per Page: 50

Find Phone where Device Name begins with Find Clear Filter

Device Name (line)	Description	Device Pool	Device Protocol	Status	IP Address	Copy	Super Copy
SEP808BEF223A6B	HQ Phone 1	Default	SCCP	Registered with 11.100.64.12	11.102.64.45	Copy	Super Copy

## Device > Phone

Phone Configuration Related Links: Back To Find/List Go

Buttons: Save, Delete, Copy, Reset, Apply Config, Add New

Status: Ready

Association Information	Phone Type	Device Information
<ul style="list-style-type: none"><li>1 <a href="#">View Line [1] - 2001 (no partition)</a></li><li>2 <a href="#">View Line [1] - Add a new DN</a></li><li>3 <a href="#">Add a new SD</a></li><li>4 <a href="#">Add a new SD</a></li><li>5 <a href="#">Add a new SD</a></li><li>6 <a href="#">Add a new SD</a></li><li>7 <a href="#">Add a new SD</a></li></ul>	<b>Product Type:</b> Cisco 7962 <b>Device Protocol:</b> SCCP	<b>Registration:</b> Registered with Cisco Unified Communications Manager 11.100.64.12 <b>IP Address:</b> 11.102.64.45 <b>Active Load ID:</b> SCCP42.9-3-1SR1-1S <b>Download Status:</b> Unknown <input checked="" type="checkbox"/> Device is Active <input checked="" type="checkbox"/> Device is trusted <b>MAC Address*:</b> 88BEF223A6B <b>Description:</b> HQ Phone 1

## Association Information > Line [1]

Directory Number Configuration

Buttons: Save, Delete, Reset, Apply Config, Add New

Status: Ready

**Directory Number Information**

Directory Number\*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

[Edit Device](#) [Edit Line Appearance](#)

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**Line 1 on Device SEP808BEF223A6B**


Display (Caller ID)	HQ Phone 1	Display text for a line appearance is intended for displaying text such as a name instead of a directory number for calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Caller ID)	HQ Phone 1	
Line Text Label		
ASCII Line Text Label		
External Phone Number Mask	+14086622XXX	

## System > Phone NTP Reference

## Phone NTP Reference Configuration

 Save

### Status

 Status: Ready

### Phone NTP Reference Information

IP Address\*


Description

Mode\*

System > Date/Time Group > CMLocal

## Date/Time Group Configuration

 Save  Delete  Copy  Reset  Apply Config  Add New

 Status: Ready

### Date/Time Group Information

Date/Time Group: CMLocal (used by 10 devices)

Group Name\*

Time Zone\*  Entries with † are compatible with [legacy phone loads](#)

Separator\*  (applies to Date Format only)

Date Format\*

Time Format\*

### Phone NTP References for this Date/Time Group

Selected Phone NTP References\*\*


## Site B – Publisher

System > Cisco Unified CM > 11.100.65.11

## Cisco Unified CM Configuration

 Save  Reset  Apply Config

### Status

 Update successful

### Cisco Unified Communications Manager Information

Cisco Unified Communications Manager: CM\_clus2-ucm-pub (used by 4 devices)

### Server Information

CTI ID 1

Cisco Unified Communications Manager Server\*

Cisco Unified Communications Manager Name\*

Description

Location Bandwidth Manager Group

### Auto-registration Information

Starting Directory Number\*

Ending Directory Number\*

Auto-registration Disabled on this Cisco Unified Communications Manager

**— Cisco Unified Communications Manager TCP Port Settings for this Server —**

Ethernet Phone Port\*

MGCP Listen Port\*

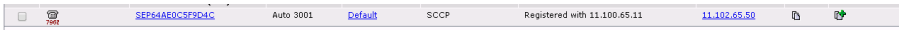
MGCP Keep-alive Port\*

SIP Phone Port\*

SIP Phone Secure Port\*

## Verification

### Phone Registration



### Device > Phone

Phone Configuration    Related Links: [Back To Find/List](#)    Go

Status: Ready

Association Information	Phone Type
<ul style="list-style-type: none"> <li>1 Line [1] - 3001 (no partition)</li> <li>2 Line [2] - Add a new DN</li> <li>3 Add a new SD</li> <li>4 Add a new SD</li> <li>5 Add a new SD</li> <li>6 Add a new SD</li> <li>7 Add a new SD</li> </ul>	<p><b>Product Type:</b> Cisco 7962 <b>Device Protocol:</b> SCCP</p> <p><b>Device Information</b></p> <p>Registration: Registered with Cisco Unified Communications Manager 11.100.65.11            IP Address: 11.102.65.50            Active Load ID: SCCP42.9-3-1SR1-1S            Download Status: Unknown            Device is Active: <input checked="" type="checkbox"/>            Device is trusted: <input checked="" type="checkbox"/>            MAC Address*: 64AEDC5F9C4C            Description: Site B Phone1</p>

### Association Information > Line [1]

Directory Number Configuration    Related Links: [Configure Device \(SEP64AEDC5F9D4C\)](#)    Go

Status: Ready

**Directory Number Information**

Directory Number\*: 3001  
 Route Partition: < None >  
 Description: Site B Phone 1  
 Alerting Name: Site B Phone 1  
 ASCII Alerting Name: Site B Phone 1  
 Allow Control of Device from CTI  
 Associated Devices: SEP64AEDC5F9D4C   


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**Line 1 on Device SEP64AEDC5F9D4C**

Display (Caller ID): Site B Phone 1  
a call may not see the proper identity of the caller.  
 ASCII Display (Caller ID): Site B Phone 1  
 Line Text Label:   
 ASCII Line Text Label:   
 External Phone Number Mask: +3372608XXXX


### System > Phone NTP Reference

### Phone NTP Reference Configuration

 Save

---

**Status**

 Status: Ready

---

**Phone NTP Reference Information**

IP Address\*







Description

Mode\*

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System > Date/Time Group > CMLocal

### Date/Time Group Configuration

 Save  Delete  Copy  Reset  Apply Config  Add New

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**Status**

 Status: Ready

---

**Date/Time Group Information**

Date/Time Group: CMLocal (used by 5 devices)

Group Name\*

Time Zone\*  Entries with ‡ are compatible with [legacy phone loads](#)

Separator\*  (applies to Date Format only)

Date Format\*

Time Format\*

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**Phone NTP References for this Date/Time Group**

Selected Phone NTP References\*\*

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