



Configuring the Smart+Connected MS Application

This chapter describes the configuration tasks that you need to perform after installing the Cisco Smart+Connected Meeting Spaces (Smart+Connected MS) application.

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Configuring Services in CUCM

The Cisco Unified Communications Manager (CUCM) administrator must configure the service URL in CUCM to make the service appear on the IP phone.

To configure the services in CUCM, perform the following steps:

-
- Step 1** In the browser, type the CUCM URL.
 - Step 2** Click **Cisco Unified Communications Manager**.
The Cisco Unified CM Administration home page appears.
 - Step 3** Enter the CUCM administrator's username and password, and click **Login**.
 - Step 4** Click **Device > Device Settings > Phone Services**.
 - Step 5** Click **Add New**.

To add a new service, perform the following steps:

- a. Enter the service name in the Service Name field. For example, S+CC service.
- b. Enter the service description in the Service Description field.
- c. Enter the service URL in the format given below:

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`http: //<host IP address>:<port>/solutions/ip-phone-comm.ip`

For example,

`http: //10.106.13.76:7001/solutions/ip-phone-comm.ip`

- d. From the Service Category drop-down list, choose XML Service.
- e. From the Service Type drop-down list, choose Standard IP Phone Service.
- f. Select the **Enable** check box.

Step 6 Click **Save**.

Step 7 Click **Device > Phone**.

The Find and List Phones page appears.

Step 8 From the “Find Phone where” drop-down list, choose **Device Name**.

Step 9 From the drop-down list that is adjacent to the “Find Phone where” drop-down list, choose **contains**.

Step 10 Enter the MAC address of the IP phone for which you want to subscribe the service.

Step 11 Click **Find**, and select the IP phone.

The Phone Configuration page appears.



Note Ensure that the Web Access drop-down list displays an enabled value.

Step 12 From the Related Links drop-down list, choose **Subscribe/Unsubscribe Services**, and click **Go**.

Step 13 Select the service name that you have provided in Step 5 a.

Step 14 Click **Next**.

Step 15 Click **Subscribe**.

Step 16 Click **Reset** in the Phone Configuration page.

A device reset dialog box appears.

Step 17 Click **Reset**.

The configured service name appears under Services in the IP Phone.

Assigning Roles (Groups) to the Application User

The Smart+Connected MS application requires an application user to be created in CUCM for pushing the audio broadcast and text messages to the Cisco IP phone.

The application user needs the following privileges minimally to allow the Smart+Connected MS application to work properly:

- Standard CTI Enabled—This user group, which is required for all CTI applications, allows an application to connect to Cisco CallManager to access CTI functionality.
- Standard CTI Allow Control of All Devices—This user group allows an application to control or monitor any CTI-controllable device in the system.

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- Standard CCM Admin Users—This grants log-in rights to Cisco Unified Communications Manager Administration. A user with only the Standard CCM Admin Users role can access Cisco Unified Communications Manager Administration but cannot make any changes.
- Standard CCMADMIN Read only— This allows an administrator to view the configuration information in Cisco Unified Communications Manager Administration page.
- Copy of Standard CCM Phone Administration which includes Service URL Page, User Web Page and Phone Services Subscribe.
- Copy of Standard Serviceability named as roles for Web Services which has only SOAP related services as read and write access.

To create and assign a role to an application user, perform the following steps:

-
- Step 1** In the browser, enter the URL to access the Call Manager application.
 - Step 2** Click **Cisco Unified Communications Manager**.
The Cisco Unified CM Administration home page appears.
 - Step 3** Enter the username and password and click **Login**.
 - Step 4** Click **User Management > Application User** to create application users and assign roles to the application users that provide them the above mentioned privileges.
-

Configuring Audio Notification to IP Phone

The CUCM administrator needs to configure the audio notification feature to allow the Emergency Notification (EN) messages to be pushed to the IP phone.

To configure audio notification to IP phone, perform the following steps:

-
- Step 1** Create an application user in Call Manager so that the solution can push the Emergency Notification (EN) content to IP Phone.

To create an application user in the Call Manager, perform the following steps:

- a. In a browser, type the CUCM URL.
- b. Click **Cisco Unified Communications Manager**.
The Cisco Unified CM Administration home page appears.
- c. Enter the CUCM administrator's username and password for the Call Manager, and click **Login**.
- d. Navigate to **User Management > Application User**.
- e. Click **Add New**.
The Application User Configuration page appears.
- f. Enter the user ID in User ID field.
- g. Enter the password in the Password field.
- h. Enter the confirmed password in the Confirm Password field.
- i. From the Presence Group drop-down list, choose Standard Presence group.
- j. In Device Information, move the desired devices from Available Devices to Controlled Devices.

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- k. Move the desired Available Profiles to CTI Controlled Device Profiles.
- l. Under Permissions Information, click **Add to User Group**.
- m. Select **Standard CTI Enabled** user group, and click **Add Selected**.
- n. Click **Save**.

The roles and permission for the new user appear.

Step 2 For pushing audio to IP phone as part of EN, you have to make a change in the server on which the Smart+Connected MS & DS application is deployed. Change the `/etc/hosts` file by moving the assigned IP address of the machine before the local loopback address.

For example,

```
10.78.10.143          SCC-BGL04-DV-123
127.0.0.1           SCC-BGL04-DV-123 localhost.localdomain localhost
::1                 localhost6.localdomain6 localhost6
```



Note The IP phones, application server, and CUCM must be on a multicast network. To verify if the application server is multi-cast run `/sbin/ifconfig` in the application server. The **MULTICAST** keyword appears in the output.

Configuring Locations

A location is a physical space that helps you define a spacial structure in a city, organization, complex, industry, and so on. For example, the various locations for an organization can be country, city, building, campus, wing, floor, room, and so on.

- [Adding Locations, page 3-4](#)
- [Editing Locations, page 3-6](#)
- [Deleting Locations, page 3-6](#)

Adding Locations

You can add multiple locations to the SDP application and create a location hierarchy for a city, an enterprise and so on. You can create location hierarchies beginning with the default root location that is defined during installation of the SDP application. You can also modify the name of the default root location, if required.

To add a new location to the location hierarchy, perform the following steps:

Step 1 Log in to the SDP application.



Step 2 Click the **Locations** tab.

The Locations page appears. The left pane displays the location hierarchy, and the right pane displays the main content area.

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Step 3 Select a location for which you want to add the child location in one of the following ways:


a. Searching for a location:

1. Click  in the shortcut tools.
2. In the Search field, enter a location keyword, and click .


The Search Results page appears with the location details. You can select the location for which you want to add the child location.

b. Expanding location hierarchy:

1. Click  before a parent location.


If the  is not displayed before a parent location, the location does not have any child location.

2. Click a location for which you want to add the child location.

Alternatively, click  (**Expand Immediate Child Nodes of Selection** tool), and click a location for which you want to add the child location.

The following details are displayed for the selected location in the Location Details area:

- **Location Type**— Type of location under which the selected location has been categorized.
- **Location Name**—Name of the selected location.
- **Parent Location**—Parent of the selected location.
- Any custom property that has been setup for the location type.

Step 4 In the main content area, click .

The Add Location page appears. The Parent Location field displays the selected parent location for which you want to add the child location.

Step 5 Enter the following details:

- **Location Type**—From the Location Type drop-down list, choose the type of the location under which the selected location has to be categorized.
- **Location Name**— Enter the name of the location. The location name can be alpha-numeric, and you can use a maximum of 500 characters.

For certain location types, additional properties should be added.

Table 3-1 Location Type and Properties

Location Type	Property	Value Description	Sample Data
Country, State, City	Timezone	Timezone of the location.	Location1
Building, Floor	multicastipaddress	The IP address used to send the multicast message.	224.0.1.43
	multicastport	The port used to send the multicast message.	31250
Conference Room	confRoomId	The alias of the conference room ID in exchange.	Room1
	Private Subject	If you enable this property, the subject displays 'Booked By <organizer name>' on the IP phone and signage instead of displaying the actual subject.	Yes
	Private Attendees	If you enable this property, the attendee list is not displayed on the signage.	Yes

Step 6 Click **Save** to save the location details.

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The newly added location is displayed in the location hierarchy.

Editing Locations

After adding a location to the location hierarchy, you can modify the location name and location properties.


To modify the existing location details, perform the following steps:

Step 1 On the Locations page, select a location for which you want to modify the location details in one of the following ways:

The following details are displayed for the selected location in the Location Details area:

- **Location Type**—Type of location under which the selected location has been categorized.
- **Location Name**—Name of the selected location.
- **Parent Location**—Parent of the selected location.

For more information on how to select a location, perform [Step 1](#) through [Step 3](#) in [Adding Locations](#), page 3-4.

Step 2 In the right pane, click .

The Edit Location page appears. The Parent Location field displays the selected parent location. The Location Type drop-down list displays the type of the selected location.

Step 3 Modify the following fields as necessary:

- **Location Name**—Name of the selected location. The location name can be alpha-numeric, and you can use a maximum of 500 characters.
- **Edit Location Properties**—Property definitions that you defined for the location type during installation of the SDP application.

Step 4 Click **Save** to save the location details.

The modified details are updated and displayed in the location hierarchy.

Deleting Locations

To delete a location, perform the following steps:


Step 1 On the Locations page, select a location that you want to delete.

The following details are displayed for the selected location in the Location Details area:

- **Location Type**—Type of location under which the selected location has been categorized.
- **Location Name**—Name of the selected location.
- **Parent Location**—Parent of the selected location.

For more information on how to select a location, perform [Step 1](#) through [Step 3](#) in [Adding Locations](#), page 3-4.

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Step 2 In the right pane, click .

After a location is deleted, all the child locations, defined property definitions, and the role and device associations for the location are automatically removed from the SDP application.

Configuring Devices

You need to configure devices to avail the building system services for the location, such as, light settings, blinds, dimmer, and audio video controller through the Smart+Connected MS application. You need to use the SDP interface to access the Devices module.

The devices type definitions, such as, lights, blinds, dimmer, and audio video controller are available as part of SDP seed data that is added when SQL scripts are executed.

- [Adding Devices, page 3-7](#)
- [Deleting Devices, page 3-15](#)
- [Setting up Crestron Controller for the Projector, page 3-16](#)

Adding Devices

The following devices are supported by the Smart+Connected MS application:

- IP Phones
- Blinds
- Light
- Audio Video Controller
- Dimmer
- Light Occupancy Sensor
- ThermoFuser
- VRV
- VAV
- Energy Meter
- Gas Meter
- Water Meter
- Digital Media Player (DMP)
- Cisco Interactive Experience Client (IEC)

You can add any of these devices to the selected location in the location hierarchy if they are available at the location.

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Table 3-2 **Device Properties and Values**

Device	Model	Device Property	Value Description	Sample Data
IP Phone	CP-7975G	MAC Address	MAC Address of the IP phone.	0019305D73EF
	CP-9971	MAC Address	MAC Address of the IP phone.	0019406D74EF
	Non-Touch CP-9951	MAC Address	MAC Address of the IP phone.	0019507D75EF
Blinds	Generic	Open Value	Value to be set on open path to open the blinds.	1
		Close Value	Value to be set on close path to close the blinds.	0
		Stop Value	Value to be set on stop path to stop the blinds.	2
		Open Path	Node path in the BMS gateway for opening the blinds.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_01/Conference_Room/Blinds/BO/Blind_Open_Close/
		Stop Path	Node path in the BMS gateway for stopping the blinds when the blinds are opening or closing.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_01/Conference_Room/Blinds/BO/Blind_Stop/
		Close Path	Node path in the BMS gateway for closing the blinds.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_01/Conference_Room/Blinds/BO/Blind_Open_Close/
	Blinds Scene	Blinds URL	Node path in the BMS gateway for setting the blinds scenes. The scene may correspond to opening or closing the blinds.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_01/Conference_Room/Blinds/BO/Blind_Scene/
	Blinds Value	Value to be set on blinds URL to open or close the blinds.	0	
Lights	Generic	On Value	Value to be set on On/Off URL to switch on the lights.	true
		Off Value	Value to be set on On/Off URL to switch off the lights.	false
		On/Off URL	Node path in the BMS gateway for switching On/Off the lights.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_HA/HallMark/BGL10/Floor_01/Conference_Room/Light_Switch/BO/Lights_ON_OFF/

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Table 3-2 **Device Properties and Values (Continued)**

Device	Model	Device Property	Value Description	Sample Data
Audio Video Controller	Generic	Projector Screen Open Join	Join value to be sent to the Crestron Controller to bring down the projector screen.	35
		Projector Screen Stop Join	Join value to be sent to the Crestron Controller to stop the projector screen while bringing down or moving up.	36
		Projector Screen Close Join	Join value to be sent to the Crestron Controller to move up the projector screen.	37
		Projector On Join	Join value to be sent to the Crestron Controller to switch on the projector.	25
		Projector Off Join	Join value to be sent to the Crestron Controller to switch off the projector.	26
		Signal Type	Crestron Controller signal type. Currently only digital is supported.	digital
		Slot	Crestron Controller slot.	1
		IP Address	IP address of the Crestron Controller.	72.163.202.35
		Port	Port of the Crestron Controller. Default port is 41794.	41794
		IP ID	IP ID of the Crestron Controller.	3
Dimmer	Generic	Min Value	Minimum luminosity value.	0
		Max Value	Maximum luminosity value.	100
		Dim URL	Node path in the BMS gateway for setting the dimmer luminosity.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_HA/HallMark/BGL10/Floor_01/Conference_Room/Light_Dimmer/AO/Light_Dimmer_Control/
	Wattstopper Light Dimmer	Dim URL	Node path in the BMS gateway for setting the light scene.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_HA/HallMark/BGL10/Floor_01/Conference_Room/WattstopperLight_Dimmer/AO/Light_Dimmer_Control/
		Dimmer Values	Scene value to be set on the BMS gateway.	2

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Table 3-2 **Device Properties and Values (Continued)**

Device	Model	Device Property	Value Description	Sample Data
Light Occupancy Sensor	Generic Sensor	Sensor URL	Node path in the BMS gateway to enable or disable the sensor.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_01/Conference_Room/Light_Occ_Sensor/BV/OnOff_Status_Override/
		On Value	Value to be set on Sensor URL to switch on the sensor.	true
		Off Value	Value to be set on Sensor URL to switch off the sensor.	false
		Sensor Occupancy URL	Node path in the BMS gateway to sense the occupancy of the location.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_01/Conference_Room/Light_Occ_Sensor/BI/Occupancy_Status/
		Occupied Value	Value on the sensor whenever occupancy is detected.	true
		Unoccupied Value	Value on the sensor whenever occupancy is idle for more than specified time.	false
ThermoFuser	Generic	Current Temperature URL	Node path in the BMS gateway for reading back the current temperature.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_SEC/HallMark/BGL10/Floor_01/Conference_Room/Thermofuser/nvoSpaceTemp/
		Booking Status URL	Node path in the BMS gateway to set the current booking status of the conference room. If booking status is set to booked value, occupancy status is automatically set to occupied mode.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_SEC/HallMark/BGL10/Floor_01/Conference_Room/Thermofuser/nviOccCmd/

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Table 3-2 **Device Properties and Values (Continued)**

Device	Model	Device Property	Value Description	Sample Data
		Room Temperature URL	Node path in the BMS gateway for reading back the current room temperature.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_SEC/HallMark/BGL10/Floor_01/Conference_Room/Thermofuser/nciSetPnts_UnOccCool/
		Temperature Offset URL	Node path in the BMS gateway for setting the offset temperature. When the offset URL is provided, the value provided by the end user, is treated as a difference from the default setpoint value. For example, when the default setpoint is set as 21 degrees and the user expectation is 20 degrees, the offset value of -1 is applied with the appropriate selection in the UI. The value set as Temperature Offset URL impacts the control setpoint, to be either increased or decreased from the preset setpoint, equal to the value set as the offset. The effective setpoint is used as the reference requirement to control the temperature needs.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_SEC/HallMark/BGL10/Floor_01/Conference_Room/Thermofuser/nviSetPtOffset/
		Temperature Setpoint URL	Node path in the BMS gateway for configuring and reading back the current setpoint temperature.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_SEC/HallMark/BGL10/Floor_01/Conference_Room/Thermofuser/nvoEffectiveSetPt/

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Table 3-2 Device Properties and Values (Continued)

Device	Model	Device Property	Value Description	Sample Data
		Occupied Value	Value to be set on occupancy status URL to move the device to occupied mode.	0
		Unoccupied Value	Value to be set on occupancy status URL to move the device to unoccupied mode.	1
		Standby Value	Value to be set on occupancy status URL to move the device to standby mode.	2
		Min Temperature Value	Minimum temperature to which the room temperature can be set.	18
		Max Temperature Value	Maximum value of the room temperature that can be set.	28
		Temperature Unit	Unit of temperature.	C or F
		Reserved Value	Value to be set on booking status URL for occupancy.	1
		Unreserved Value	Value to be set on booking status URL for unoccupancy.	0
		Occupancy Status URL	Node path in the BMS gateway for reading back the status for occupancy.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/Thermofuser/OccUnocc_Sts/
		Occupied Temperature URL	Node path in the BMS gateway for reading back the occupied setpoint values.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/Thermofuser/RoomTemp_OccSetpt/
VRV	Generic	Current Temperature URL	Node path in the BMS gateway for reading back the current temperature.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/VAV/AV/RoomTemp_OccSetpt/
		Temperature Setpoint URL	Node path in the BMS gateway for configuring and reading back the current setpoint temperature.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/VRV/AV/SpaceTemp_Setpt/
		Min Temperature Value	Minimum temperature to which the room temperature can be set.	18
		Max Temperature Value	Maximum temperature of the room temperature that can be set.	28
		Temperature Unit	Unit of temperature.	C or F

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Table 3-2 Device Properties and Values (Continued)

Device	Model	Device Property	Value Description	Sample Data
VAV	Generic	Current Temperature URL	Node path in the BMS gateway for reading back the current temperature.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/VAV/AV/SpaceTemp_Setpt/
		Occupancy Status URL	The node path in the BMS gateway for reading back the status for occupancy.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/VAV/BI/OccUnocc_Sts/
		Occupied Temperature URL	Node path in the BMS gateway for reading back the occupied setpoint value.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/VAV/AV/RoomTemp_OccSetpt/
		Min Temperature Value	Minimum temperature to which the room temperature can be set.	18
		Max Temperature Value	Maximum value of the room temperature that can be set.	28
		Temperature Unit	Unit of temperature.	C or F
		Occupied Value	Value to be set on occupancy status URL to move the device to occupied mode.	true
		Unoccupied Value	Value to be set on occupancy status URL to move the device to un occupied mode.	false
		Temperature Setpoint URL	Node path in the BMS gateway for configuring and reading back the current setpoint temperature.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/VAV/AV/SpaceTemp_Setpt/
Energy Meter	Generic	EnergyinKWH	Node path in the BMS gateway which provides the energy reading in KWH.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_BIM/HallMark/BGL10/Floor_Ground/PMS/AV/KWH
Gas Meter	Generic	gasConsumed	Node path in the BMS gateway which provides the gas consumption.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_API/HallMark/BGL10/Basement/Metering/AI/Gas_Consumed
Water Meter	Generic	waterConsumed	Node path in the BMS gateway which provides the water consumption.	/config/Drivers/NiagaraNetwork/aliases/India_Bangalore_API/HallMark/BGL10/Basement/Metering/AI/Water_Consumed

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Table 3-2 Device Properties and Values (Continued)

Device	Model	Device Property	Value Description	Sample Data
DMP 4400	Generic	Username	User ID for logging in to the DMP.	admin
		Touch	Touchscreen configuration in the Touch Details area: <ul style="list-style-type: none"> If the DMP has been configured with a signage that supports touchscreen overlay, select the Touch check box. If the DMP has been configured with a non-touch signage, keep the Touch checkbox unselected. 	–
		URL	The DMP URL.	https://10.77.78.80
		Password	User password for logging in to the DMP.	Cisco123
		MAC Address	The DMP MAC address.	00:0f:44:02:7b:48
		Locale	Locale for the DMP to use.	en_US
IEC	Generic	Username	User ID for logging in to the IEC.	admin123
		Touch	Touchscreen configuration in the Touch Details area: <ul style="list-style-type: none"> If the IEC has been configured with a signage that supports touchscreen overlay, select the Touch check box. If the IEC has been configured with a non-touch signage, keep the Touch checkbox unselected. 	–
		URL	The IEC URL.	https://10.222.187.80
		Password	User password for logging in to the IEC.	Cisco321
		MAC Address	The IEC MAC address.	00:0d:54:04:8c:53
		Locale	Locale for the IEC to use.	en_US

To add devices to the SDP application, perform the following steps:

Step 1 Log in to the SDP application.


For more information on how to log in to the SDP application, see the *Cisco Service Delivery Platform User Guide*.


Step 2 Click the **Devices** tab.

The Devices page appears. The left pane displays the location hierarchy, and the right pane displays the List of Devices area.

Step 3 Select a location for which you want to add the child location in one of the following ways:

a. Searching for a location:

3. Click  in the shortcut tools.

4. In the Search field, enter a location keyword, and click .

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The Search Results page appears with the location details. You can select the location for which you want to add the child location.

- b. Expanding the location hierarchy:
 1. Click ► next to a parent location.

If the ► is not displayed next to a parent location, the location does not have any child location.
 2. Click a location for which you want to add the child location.

Step 4 In the right pane, click **Add a Device**.

The Add Device page appears. The Parent Location field displays the selected parent location with which you want to associate the device.

Step 5 Enter the following details:

- Device Category—Category under which you want to organize the device.
- Manufacturer—Manufacturer name of the device.
- Model—Model details of the device.
- Device Name—Name of the device.

Step 6 Click **Save**.

The newly added device is associated to the selected location.

Deleting Devices


To delete an device from the SDP application, perform the following steps:

Step 1 In the Devices page, select a location for which you want to modify the device details.

For more information on how to select a location, perform [Step 3](#) in the “Adding Devices” section on [page 3-7](#).

All devices that have been associated with the selected location are displayed.

Step 2 Do one of the following:

- To delete a single device, choose a device that you want to delete, and click .
- To delete multiple devices, select the specific check boxes of the devices that you want to delete, and click **Delete**.

The device is removed from the SDP application.

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Setting up Crestron Controller for the Projector

To set up Crestron Controller for the projector, you must have Windows 2008 R2 server machine or Windows 7 that has IIS 7.5 with .NET Framework 3.5 or above.

To set up the Crestron Controller, perform the following steps:

-
- Step 1** From the Linux machine, copy the Crestron Controller ZIP file located in `<MS_HOME>/pkg-properties/crestron` to a Windows machine
- Step 2** Unzip the `crestroncontroller.zip` files using any archive utility.
- Step 3** Run the `inetmgr` command. The IIS manager server console appears.
- Step 4** Right-click the default web site and choose create a new virtual directory.
- Step 5** Enter the alias as **crestron**. In the physical path, choose the Crestron Controller folder that is unzipped.
- Step 6** Right-click the `crestron` folder under Default Web Site, choose Convert to Application, and click **OK**.
The application is created.
- Step 7** Enter the URL in a browser in the following format:

```
http: //localhost/crestron/Home.aspx?deviceIp=<deviceIP of the Crestron Controller>
&ipId=<ipID of the Crestron controller>&port=<port of the Crestron Controller>&slot=<slot
of the Crestron Controller>&type=digital&join=<join value of the Crestron Controller>
```

- deviceIP—The IP ID of the Crestron Controller.
- port—Port of the Crestron Controller.
- slot—Slot of the Crestron Controller.
- join—Value depends on the action performed on the Crestron Controller.

For example:

```
http: //localhost/ces /Home.aspx?deviceIp=65.100.54.20&ipId=1&port=41794&slot=1&signal
Type=digital&join=62
```

A message appears indicating that the Crestron Controller is successfully set up.

Configuring Adapters

- [Adapter Description, page 3-17](#)
- [Configuring Adapter Properties, page 3-18](#)
- [Configuring Adapters to a Location, page 3-22](#)

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Adapter Description

Table 3-3 lists the adapters you must configure and the purpose these adapters serve for the functioning of the Smart+Connected MS application.

Table 3-3 Adapter Description

Adapter	Description
ObixBean	Configure this adapter to interface with the Tridium BMS.
AudioVideoBean	Configure this adapter to interface with Crestron Controller for projector and projector screen control.
ExchangeBean	Configure this adapter to interface with Microsoft Exchange.
RemedyBean	Configure this adapter to interface with the Remedy case management system.
EmailBean	Configure this adapter to use e-mail based case notifications, in the absence of a case management system.
IPPhoneOperationBean	Configure this adapter to interface with Cisco JTAPI for sending emergency notifications.
DMMBean	Configure this adapter to interface with Digital Media Manager.
DMPBean	Configure this adapter to interface with the digital media players.
InformaCastBean	Configure this adapter to interface with Singewire InformaCast for sending emergency notifications.



Note

You must configure either the IPPhoneOperationBean or the InformaCastBean adapter depending on whether you want to use Cisco JTAPI or Singewire InformaCast for sending emergency notifications.

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Configuring Adapter Properties

You need to configure adapter properties for the available adapters. Adapter configuration needs to be performed in the database by inserting data into the SDP_ADAPTER_PROPERTIES table.

Table 3-4 provides information on the properties of the adapters, which can be used to come up with the SQL scripts that are then to be run against the database.

Table 3-4 Adapter Properties - Details

Adapter (SDP_ADAPTER_DEFN)	Defined Adapter Property (SDP_ADAPTER_PROP_DEFN)	Adapter Property (SDP_ADAPTER_PROPERTIES)	Sample Value
com.cisco.cre.ssp.adapter.obix.ObixBean	username	The Obix username	admin
	password	The Obix password	pAsswOrd
	url	The Obix URL	http://10.76.99.4/obix
	obixUrl	The Obix URL	http://10.76.99.4/obix
com.cisco.cre.ssp.adapter.audiovideo.AudioVideoBean	appPath	The path of the crestron application.	/crestron/Home.aspx
	hostname	The IP address of the host on which the Smart+Connected MS & DS Crestron .NET component is setup on IIS.	10.106.12.13
	portNumber	The IIS port of the host on which the Smart+Connected MS & DS Crestron .NET component is setup.	80

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Table 3-4 Adapter Properties - Details (Continued)

Adapter (SDP_ADAPTER_DEFN)	Defined Adapter Property (SDP_ADAPTER_PROP_DEFN)	Adapter Property (SDP_ADAPTER_PROPERTIES)	Sample Value
com.cisco.cre.ssp.adapter.exchange.bean.ExchangeBean	exch_udpserverip	The MS application server IP address/ DNS hostname	10.106.13.15
	exch_filepath	The path of the file in Exchange Server.	/apps/exchange-xml/
	exch_defaulttimezone	The timezone of the Exchange Server.	Asia/Shanghai
	exch_domain	The domain name of the Exchange Server.	EXCH2K10
	exch_host	The IP address/DNS hostname Exchange Server.	10.106.13.143
	mail.smtp.host	This property is not used currently.	–
	exch_url	Exchange URL	https://10.106.13.143/ews/exchange.asmx
	exch_username	The Exchange server username.	scc-qa
	exch_password	The Exchange server password.	Cisco_123
	mail.smtp.port	This property is not used currently.	–
	exch_udpserverport	The MS Application server listen port.	7001
com.cisco.cre.ssp.adapter.remedy.RemedyBean	password	The Remedy user's password	WPRcreIT4
	userName	The Remedy user's username.	RA_WPRIT.gen
	scheme	The protocol to invoke the remedy HTTP/HTTPS.	http
	appPath	The path of the remedy application.	/arsys/servlet/RemedyIncidentWrapper
	remedyurl	The Remedy server URL.	http://alli-stg-01.cisco.com/arsys/servlet/RemedyIncidentWrapper
	hostName	The Remedy server IP Address/DNS hostname.	alli-stg-01.cisco.com
	portNumber	The Remedy Server port.	80

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Table 3-4 Adapter Properties - Details (Continued)

Adapter (SDP_ADAPTER_DEFN)	Defined Adapter Property (SDP_ADAPTER_PROP_DEFN)	Adapter Property (SDP_ADAPTER_PROPERTIES)	Sample Value
com.cisco.cre.ssp.adapter.email.bean.EmailBean	toAddress	The address to which the e-mail needs to be sent for the case management. This is usually the facilities team helpdesk mail alias.	support @ cisco.com
	fromAddress	The address from which the e-mail needs to be sent for the case management. Usually, this mailbox is set up as a no-reply mailbox.	noreply-sdp @ cisco.com
	mail.smtp.port	The SMTP Server Port.	25
	mail.smtp.host	The IP Address/ hostname of the SMTP server.	mailman.cisco.com
com.cisco.cre.ssp.adapter.ipphone.bean.IPPhoneOperationBean	password	The application user's password created in CUCM. For more information on the application password, see the “Assigning Roles (Groups) to the Application User” section on page 3-2.	ccmadmin
	username	The application username created in CUCM. For more information on the application username, see the “Assigning Roles (Groups) to the Application User” section on page 3-2.	Cisco @ 123
	serviceuri	The uri of the call manager configured.	https://10.106.6.111/realtime-service/services/RisPort70
	appusername	The application username created in CUCM. For more information on the application username, see the “Assigning Roles (Groups) to the Application User” section on page 3-2.	cisco
	apppassword	The application user's password created in CUCM. For more information on the application password, see the “Assigning Roles (Groups) to the Application User” section on page 3-2.	cisco
com.cisco.cre.ssp.adapter.dmm.DMMBean	dmm_url	The DMM URL.	https://scc-qa-dmm-1.cisco.com:8443
	dmm_username	The DMM username.	superuser
	dmm_domain	The domain of DMM.	scc-qa-dmm-1.cisco.com
	dmm_password	The DMM password.	Cisco_123

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Table 3-4 Adapter Properties - Details (Continued)

Adapter (SDP_ADAPTER_DEFN)	Defined Adapter Property (SDP_ADAPTER_PROP_DEFN)	Adapter Property (SDP_ADAPTER_PROPERTIES)	Sample Value
com.cisco.cre.ssp.adapter.ipphone.bean.InformaCastBean	uri	Infomacast URL	https://10.106.15.161:8444/InfornaCast/services/MessageServiceV2?wsdl
	username	Infomacast username	admin
	password	Infomacast password	admin

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Configuring Adapters to a Location

The adapters are configured to the specific location by mapping an adapter instance ID with the corresponding location in the SDP_ADAPTER_LOCATION_LINK table. When an adapter instance is associated to a location, the adapter instances are automatically applied to all the child locations for that location.

For a sample configuration for the ObixBean mapped to the location ID 10011, see the “[Sample Adapter Configurations](#)” section on page 3-22.

Sample Adapter Configurations

SDP_ADAPTER_DEFN table

This configuration is part of the seed data.

Table 3-5 *SDP_ADAPTER_DEFN table - Adapter Definition Mapped to an Adapter Definition ID*

ADAPTER_DEFN_ID	ADAPTER	ADAPTER_JAR_LOCATION	VERSION	CREATED_BY	CREATED_DT	UPDATED_BY	UPDATED_DT	TENANT_ID
10	com.cisco.cre.ssp.adapter.obix.ObixBean	–	version1	superadmin	27-JUN-12	superadmin	27-JUN-12	0

SDP_ADAPTER_INSTANCE

Table 3-6 *SDP_ADAPTER_INSTANCE - Adapter Definition ID Mapped to an Adapter Instance ID*

ADAPTER_INSTANCE_ID	ADAPTER_DEFN_ID	VERSION	CREATED_BY	CREATED_DT	UPDATED_BY	UPDATED_DT	TENANT_ID
10	10	version1	superadmin	27-JUN-12	superadmin	27-JUN-12	0

SDP_ADAPTER_LOCATION_LINK table

This table allows you to link the adapter instances with one or more locations. When an adapter is associated to a location, the adapter instances are automatically applied to all the child locations for that location.

Table 3-7 *SDP_ADAPTER_LOCATION_LINK Table - Adapter Instance ID Configured to the Preferred Location*

ADAPTER_INSTANCE_ID	LOCATION_ID	CREATED_BY	CREATED_DT	UPDATED_BY	UPDATED_DT	TENANT_ID
10	10011	versions	18-NOV-11	versions	18-NOV-11	0

For more information on how to configure adapters, see the *Cisco Service Delivery Platform Installation Guide*.

If you change the values in these tables, you must restart the application to enable the changes.



Note

The IPPhoneOperationBean and the InformaCastBean adapters cannot point to the same location or the child location of either of these adapters in the sdp_adapter_location_link table.

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Integrating CUCM and InformaCast

InformaCast is an emergency notification solution by Singlewire, that can broadcast audio stream, text messages, and notifications to multiple Cisco IP phones simultaneously as a group. InformaCast can broadcast either a live, recorded, or a scheduled message on your IP network with a single click from your computer or through API calls.

To use InformaCast in a telephony environment, you have to integrate Cisco Unified Communications Manager (CUCM) and InformaCast. Also ensure that you:

- Integrate Cisco Unified Communications Manager (CUCM) and InformaCast.
- Set up a multicast network as the InformaCast broadcast works on multicast network.

**Note**

You must verify that the InformaCast version and the CUCM version are compatible before you begin to integrate them.

For more information on how to configure and integrate the Cisco Unified Communications Manager (CUCM) and InformaCast, refer to the InformaCast help documentation and Singlewire online knowledge base.

Changing the User Portal Theme

You can change the skin of the Smart+Connected MS user interface, so that the users can view the changed skin instead of the default skin. To activate a skin, you need to update the value of the key "skin_name" in the application.properties file. For example, skin_name=red

**Note**

The value should be a valid skin folder name. It is necessary that you restart the application to enable the changes.

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