



Configuring the Smart+Connected Spaces

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

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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:

```
http://<host IP address>:<port>/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**.

Step 18 The configured service name appears under Services in the IP Phone

Assigning Roles (Groups) to the Application User

The Smart+Connected Spaces 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**.
The Find and List Application Users page appears.
- Step 5** Click **Add New**.
The Application User Configuration page appears. Create the application user and assign the required roles that provide the user the above mentioned privileges.
-

Managing Users

Users

Users access the Smart+Connected Spaces to perform various tasks, such as adding new locations, configuring new devices, managing adapters, and so on. However, not all users can perform all tasks. Each user is associated with one or more roles and each role is assigned a certain set of permissions. These roles and permissions define the tasks that a user can perform in the Smart+Connected Spaces. You can additionally assign one or more locations to each role so that the user can perform tasks at the assigned locations only.

When you install the Smart+Connected Spaces, a superadmin user (super administrator) is created by default. The superadmin user has permissions across all features and tasks.

The superadmin creates other users by adding them to the Smart+Connected Spaces application and by assigning roles and permissions to them. The other users can log in to the Smart+Connected Spaces and perform tasks based on the roles and permissions that are assigned. For information on how to add users and assign roles and permissions to them, see the [“Creating and Configuring Users” section on page 3-4](#).

All user details (such as username, first name, last name, title, email address, company, designation, and password details) are stored in the Smart+Connected Spaces database.

The Smart+Connected Spaces provides you with the following options to add users to the application database:

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- Creating users by manually adding details for each user.
- Importing multiple users by retrieving user details from a file (ifcXML).

After adding user details to the Smart+Connected Spaces, you can perform the following tasks:

- Assign roles and locations.

Export user details to an ifcXML file to use in other applications, if required.

Creating and Configuring Users

You can manually add user details for each user or import multiple user details from either the LDAP directory or a file (ifcXML).

To import multiple user details from the LDAP directory or a file, see [“Importing Multiple Users” section on page 3-5](#).

To add user details for each user, perform the following steps:

Step 1 Log in to the SDP application.

Step 2 Choose **Users and Roles > Create a User**.

The Create User page appears.

Step 3 Enter the following user details:

- In the Username text box, enter a unique username. The name cannot include blank spaces, can include special characters, can be alphanumeric, and contain up to 50 characters.
- In the First Name text box, enter the first name of the user.
- In the Last Name text box, enter the last name of the user.
- In the Email text box, enter the email address of the user.
- In the Title text box, enter the designation of the user.
- In the Company text box, enter the company name of the user.
- In the Password and Confirm Password text boxes, enter the user password. The password contains characters from at least three of the four character groups that are uppercase (A-Z), lowercase (a-z), number (0-9), and all special characters.

The Password and Confirm Password text boxes are displayed if you have configured the LDAP directory in a writable mode.

Alternatively, enter the username and click **Find** to fetch the user details from LDAP.



Note

- Check the **User Authentication from LDAP** check box to authenticate the user from LDAP.
- The user must be configured in LDAP and the SDP must be able to communicate with LDAP.

Step 4 In the Assign Roles and Locations area, click **Assign New Role**.

The Select Roles for the Users dialog box appears. The Available Roles column lists the roles that have been added to the Smart+Connected Spaces and are in an active state.

Step 5 In the Available Roles column, select a role, and click **Add** to move the role to the Selected Roles column.

To add multiple roles, press **Shift - Ctrl**, choose the roles, and click **Add**.

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To remove the selected role from the Selected Roles column, click **Remove**.



Note For the Smart+Connected Spaces user, the roles (superadmin, scpsuser, or proxyuser) must be assigned.

Step 6 Click **Assign and Close**.

The selected role is assigned to the added user along with the associated permissions and locations

Step 7 In the Assigned Locations column of the Assign Roles and Locations area, click **Assign Locations** next to the role to which you want to assign the location.

The Assign Locations dialog box appears with a location hierarchy. The location hierarchy lists the locations for which you have been assigned permissions.



Note If the user is not associated with any location or a location has not been added to the application, the location hierarchy is not displayed.

Step 8 In the location hierarchy, select a location that you want to associate to the role.

You can use shortcut tools to search and select a location in the location hierarchy. For more information on the shortcut tools, see [“Configuring Locations” section on page 3-10](#).

Step 9 Click **Assign**.

The selected location is assigned to the specified role.

Step 10 Click **Save**.

The user details are saved, and are listed in the List of Users area.

Importing Multiple Users

You can add multiple users to the Smart+Connected Spaces by importing the following user details from an ifcXML2x4:

- Username
- First and last name
- Email address
- Title
- Job description

User details are invalid if the username, or the first and last name of the user are not specified in the file. These user details are not imported during the import process. However, the import process continues for the remaining user details.

To import multiple users from an ifcXML2x4 file, perform the following steps:

Step 1 Log in to the SDP application.

Step 2 Click the **Users and Roles** tab.

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The Users page appears. The List of Users area displays the users that have been added in to the Smart+Connected Spaces.

Step 3 Click **Import Users** button to launch the import Users Wizard.

The Specify Source screen appears.

Step 4 In the XML file text box, browse for and select the file that contains the user details that you want to import.

Step 5 In the Import Options area, select one of the following radio buttons:

- **Overwrite these records**—Select if you want to overwrite the existing user details with the new details.

The other user details for which the data is not available in the file are not overwritten or deleted.

- **Skip these records**—Select if you do not want to overwrite the existing user details.

The new user details are added to the Smart+Connected Spaces.

Step 6 Click **Import**.

The Completed Import screen appears with information on the imported (updated or skipped) user details and error logs if an error occurs during the process.

Step 7 Click **Finish** to complete the import process.

Viewing User Details

After the users are imported from the file, the added user details are listed in the List of Users area of the Users page.

You can view detailed information about the existing users, such as username, email address, title, roles and locations that are assigned, and so on.

To view user details, perform the following steps:

Step 1 Log in to the SDP application.

Step 2 Click the **Users and Roles** tab.

The Users page appears. The List of Users area displays the users that have been added to the Smart+Connected Spaces.

Step 3 Search for a user based on the username, first name, or last name:

- a. In the User Name, First Name, or Last Name text box, type a keyword.
- b. Press **Enter**.

The List of Users area displays the following user details:

- User Name—Name of the user.
- First Name—First name of the user.
- Last Name—Last name of the user.
- Last Login—Last time when the user logged in to the Smart+Connected Spaces. The Last Login field is blank for the newly added users.
- Updated By—User who last updated the user details.

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- Updated On—Time at which the user details were last updated.

Step 4 To view detailed information about a user, click a username.

The View User page appears with the following detailed user information:

- User Name—Name of the user.
- First Name—First name of the user.
- Last Name—Last name of the user.
- Email—Email address of the user.
- Title—Designation of the user.
- Company—Company name of the user.
- Assigned Roles and Locations—Roles and locations that are assigned to the user.



Note If you have added any custom attributes to the application during the LDAP configuration, the specified user details are additionally listed in the View User page.

If you want to modify the existing user details, see the [“Editing User Details” section on page 3-7](#)

Editing User Details

After adding a user, you can modify the existing username, title, designation, assigned role, or associated location details.

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

Step 1 Log in to the SDP application.

Step 2 Click the **Users and Roles** tab.

The Users page appears. The List of Users area displays the users that have been added to the Smart+Connected Spaces.

Step 3 In the User Name column, select the username check box of the user that you want to modify, and click .

Alternatively, click a username that you want to edit, and in the View User page, click  **Edit**.

The Edit User page appears.

Step 4 Modify the following details as necessary:

- In the Username text box, enter a unique username. The name cannot include blank spaces, can include special characters, can be alphanumeric, and contain up to 50 characters.
- In the First Name text box, enter the first name of the user.
- In the Last Name text box, enter the last name of the user.
- In the Email text box, enter the email address of the user.
- In the Title text box, enter the designation of the user.
- In the Company text box, enter the company name of the user.

Step 5 To assign new roles or unassign the associated roles, click **Assign New Role**.

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Step 6 To assign new locations or unassign the associated locations, click **View/Edit Locations**.

Step 7 Click **Save**.

The user details are modified, and are listed in the List of Users area. If you want to view the updated user details, see the “[Viewing User Details](#)” section on page 3-6.

Exporting User Details

You can export multiple user details from the Smart+Connected Spaces to an ifcXML2x4 file. When you export user details, a file is automatically stored in the local file system with the details. By exporting user details, you can quickly collate multiple user details from the Smart+Connected Spaces and use it in other applications, if required.

The following user details are exported from the Smart+Connected Spaces to the ifcXML2x4 file:

- Username
- First and last name
- Email address
- Title
- Job description

To export user details to an ifcXML2x4 file, perform the following steps:

Step 1 Log in to the SDP application.

Step 2 Click the **Users and Roles** tab.

The Users page appears. The List of Users area displays the users that have been added to the Smart+Connected Spaces.

Step 3 Do one of the following to launch the Export Users wizard:

- To export all users, click **Export All Users**.
- To export specific users, select the check boxes of the users that you want to export, and click **Export Selected**.
- To export a single user, choose the user that you want to export, and click .

The Export users from SDP screen appears.

Step 4 Click **Export**.

The Completed Export screen appears with a message stating that the user details are successfully exported from Smart+Connected Spaces. The ifcExport.xml file is automatically created with a list of user details.

Step 5 Save the exported file on your computer.

The Completed Export screen appears.

Click **Finish** to complete the exporting process.

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Deleting Users

You can delete users that you have added to the Smart+Connected Spaces.

To delete users, perform the following steps:

-
- Step 1** Log in to the SDP location.
- Step 2** Click the **Users and Roles** tab.
- The Users page appears. The List of Users area displays the users that have been added to the Smart+Connected Spaces.
- Step 3** In the User Name column, select the username check box of the user that you want to modify, and click .
- The Edit User page appears.
- Step 4** Under Assigned Roles, click a role and then click .
- Step 5** Repeat [Step 4](#) to remove all the roles that are assigned to the user.
- Step 6** Do one of the following:
- To delete a single user, choose a user that you want to delete, and click .
 - To delete multiple users, select the specific check boxes of the users that you want to delete, and click **Delete**.

The user details are deleted, and are not recoverable.



Note If you try to delete user(s) without removing the roles assigned to the user, you get an error message.

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**.

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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 BLF Presence Group drop-down list, choose Standard Presence group.
- j. In Device Information, move the desired devices from Available Devices to Controlled Devices.
- k. Move the desired Available Profiles to CTI Controlled Device Profiles.
- l. Under Permissions Information, click **Add to Access Control Group**.
- m. Check the **Standard CTI Enabled** checkbox in the Access Control Group list, 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 Spaces 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 3-10](#)
- [Editing Locations, page 3-13](#)
- [Deleting Locations, page 3-13](#)

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.

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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.
- 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, and City	Timezone	Timezone of the location.	Location1
Building, Floor, Campus, Office, Quiet Room, Cubicle, and Telepresence Room	MessageId	The ID of an emergency notification message in InformaCast.	1160
	RecipientId	The ID of the group of recipients in InformaCast to which the emergency notification messages will be sent.	9

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Table 3-1 Location Type and Properties (continued)

Location Type	Property	Value Description	Sample Data
Building and 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
Building	Latitude	Latitude of the building.	10
	Longitude	Longitude of the building.	25
	Address1	Address of the building.	
	Address2	Alternative address of the building.	
	Postal Zip Code	Pin code of the building.	560001
Campus	Room Facility Admin	Email ID of the room facility administrator or the distribution list that comprises the emails IDs of the facility team members.	campus_admingroup @ abcde.com
	Equipment Facility Admin	Email ID of the equipment facility administrator or the distribution list that comprises the emails IDs of the facility team members.	eqpmnt_administrator @ abcde.com
Floor	MaxAllowedBookingDuration	Duration in minutes for the maximum time for which a workspace can be booked. The default is 8 hours,	480
Conference Room, Telepresence Room, Office, Quiet Room, and Cubicle	Reservable	Whether the meeting room/workspace can be reserved.	Check/uncheck the Reservable check box.
Conference Room, and Telepresence Room	Room Size	The seating capacity of the room.	15
	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
	Floor Code	Not mandatory.	–
	Location Code	Not mandatory.	–
	Alias Name	The alias name of the conference room in exchange.	Room1
	Email ID	The email ID of the conference room.	room1@abcde.com
Conference Room	confRoomId	The alias of the conference room ID in exchange.	Room1
Telepresence Room	Telepresence Room Id	The alias of the Cisco TelePresence room ID in exchange.	TP Room1
	sip URL	The Call set up using the Session Initiation Protocol (SIP)	2930@abcde.com

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

The newly added location is displayed in the location hierarchy.

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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 3-10.
- 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 3-10.
- Step 2** In the right pane, click .

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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 Spaces 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 3-14](#)
- [Deleting Devices, page 3-22](#)
- [Setting up Crestron Controller for the Projector, page 3-23](#)

Adding Devices

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

- Cisco IP Phones
- Blinds
- Lights
- 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. Before adding devices, ensure that the device types are created. You can create a new device type that is supported by SDP by utilizing the device type properties that are shipped along with SDP.

[Table 3-2](#) lists the device properties of the devices that have been added by the Smart+Connected Spaces scripts.

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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 Non-Touch	Audio_Loop	The number of times the audio loop needs to play.	1
		Audio_Timetoplay	The time set for the audio play.	1
	CP-9951 and CP-8945	Application_UserName	The Call Manager application username.	examd
		Application_Password	The Call Manager application user password.	examd
Mobility	Model name	mobilityaddress	MAC address of the IP phone	SEP0021CCBA8B34
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	

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Table 3-2 Device Properties and Values (continued)

Device	Model	Device Property	Value Description	Sample Data
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/
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/nvoEffectSetPt/

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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 unoccupied.	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.
- The List of Devices page appears. 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 3-14](#).

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/crestron/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 Room Types

By default, the Office and Cubicle location types are configured as workspaces in the Smart+Connected Spaces solution. If any other location type is also to be treated as workspaces, then the necessary configuration needs to be done in `SSP_PVO_LOCATION_TYPE` table.

[Table 3-3](#) displays the `LOC_TYPE_ID`, which is the location type ID mapping in the `SSP_LOCATION_TYPE` table that is available in SDP.

Table 3-3 Room Types Properties

Location Type ID (LOC_TYPE_ID)	Name (LOC_TYPE_NAME)
15	Cubicle
23	Office

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Configuring Adapters

- [Adapter Description, page 3-24](#)
- [Configuring Adapter Properties, page 3-25](#)
- [Configuring Adapters to a Location, page 3-33](#)

Adapter Description

Table 3-4 lists the adapters that you must configure and the purpose these adapters serve for the functioning of the Smart+Connected Spaces application.

Table 3-4 Adapter Description

Adapter	Description
ObixBean	Configure this adapter to interface with the Tridium building management system.
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 the Cisco JTAPI for sending emergency notifications.
DMMBean	Configure this adapter to interface with Digital Media Manager (DMM).
DMPBean	Configure this adapter to interface with the digital media players.
InformaCastBean	Configure this adapter to interface with Singlewire InformaCast for sending emergency notifications.
MediatorBean	Configure this adapter to interface with Cisco Network Building Mediator (NBM).
MobilityBean	Configure this adapter to interface with Call Manager for providing Extension Mobility.
WebCtrlBean	Configure this adapter to interface with WebCTRL, the building automation system by Automated Logic Corporation (ALC).

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Table 3-4 Adapter Description

Adapter	Description
CPAMAccessManagerProvider	Configure this adapter to interface with Cisco Physical Access Manager (CPAM) for verifying user check-in.
IECBean	Configure this adapter to interface with the Cisco Interactive Experience Client for managing the display on signage.  Note The IECBean has no configurable property.
JabberBean	Configure this adapter to interface with Cisco Jabber for providing the list of the users' checked-in Jabber contacts.
TMSBean	Configure this adapter to interface with the Cisco TelePresence Management Suite for booking the TelePresence rooms.



Note

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

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.

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Table 3-5 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 3-5 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
	obixTimeout	The maximum duration (in millisecond) for which the Spaces application tries to connect to and read data from the Obix Bean adapter.  Note All the timeout values mentioned in this table are number values that need to be entered in the PROPERTY_NUM_VAL column.	60000
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 Spaces Crestron .NET component is setup on IIS.	10.106.12.13
	portNumber	The IIS port of the host on which the Smart+Connected Spaces Crestron .NET component is setup.	80
	audiovideoConnectionTimeout	The maximum duration (in millisecond) for which the Spaces application tries to connect to the AudioVideoBean adapter.	60000
	audiovideoReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the AudioVideoBean adapter.	60000

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Table 3-5 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 Spaces 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:// <IP address of the exchange server>/autodiscovery/autodiscover.xml
	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 Spaces application server listen port.	7001
	exchConnectionTimeout	The maximum duration (in millisecond) for which the Spaces application tries to connect to the ExchangeBean adapter.	60000
exchReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the ExchangeBean adapter.	60000	
	impersonationConnectingSID	Represents the impersonation account when using a ExchangeImpersonation SOAP header.	PrincipalName or PrimarySmtpAddress
	callbackprotocol	The protocol used by an exchange server to send notifications.	http or https

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Table 3-5 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.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:// <IP address of the Remedy server>/arsys/servlet/RemedyIncidentWrapper
	hostName	The Remedy server IP Address/DNS hostname.	alli-stg-01.cisco.com
	portNumber	The Remedy Server port.	80
	remedyConnectionTimeout	The maximum duration (in millisecond) for which the Spaces application tries to connect to the RemedyBean adapter.	60000
com.cisco.cre.ssp.adapter.email.bean.EmailBean	remedyReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the RemedyBean adapter.	60000
	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

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Table 3-5 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.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:// <IP address of the Call Manager server>/realtimeservice/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
	audiourl	The audio message URL to inform the user about his checkout time.	http://10.0.0.0:17170/ipsapp/audio/audio_ipphone.wav
	message	The text message to inform the user about his checkout time.	You have 5 minutes to check out.
	ipphoneConnectionTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to connect to the IPPhoneOperationBean adapter.	60000
	ipphoneReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the IPPhoneOperationBean adapter.	60000

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Table 3-5 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.dmm.DMMBean	dmm_url	The DMM URL.	https://<IP address of the DMM server>:<port on which the DMM server is running>
	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
	dmmConnectionTimeout	The maximum duration (in millisecond) for which the Spaces application tries to connect to the DMMBean adapter.	60000
	dmmReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the DMMBean adapter.	60000
com.cisco.cre.ssp.adapter.ipphone.bean.InformacastBean	uri	InformaCast URL	https://<IP address>:port of InformCast server/InformaCast/services/MessageServiceV2?wsdl
	username	InfomaCast username	admin
	password	InfomaCast password	admin
	informacastConnectionTimeout	The maximum duration (in millisecond) for which the Spaces application tries to connect to the InformCastBean adapter.	60000
	informacastReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the InformCastBean adapter.	60000

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Table 3-5 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.MediatorBean	username	The Cisco NMB username	admin
	password	The Cisco NMB password	password
	url	The Cisco NMB URL	<IP address of the Cisco NMB server>
	mediatorurl	The Cisco NMB URL	<IP address of the Cisco NMB server>
	mediatorConnectionTimeout	The maximum duration (in millisecond) for which the Spaces application tries to connect to the MediatorBean adapter.	60000
	mediatorReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the MediatorBean adapter.	60000
com.cisco.cre.ssp.adapter.mobility.MobilityBean	mobilityurl	The extension mobility URL	https://<IP address>:8443/emservice/EMServiceServlet
	mobappcertificate	Application password to access the extension mobility feature in CUCM.	Abbxv
	mobappid	Application ID to access the extension mobility feature in CUCM.	Abbxv
	mobappConnectionTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to connect to the MobilityBean adapter.	60000
	mobappReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the MobilityBean adapter.	60000

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Table 3-5 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.webctrl.bean.WebCtrlBean	url	The WebCTRL URL.	<IP address of the WebCTRL server>
	port	Port on which the WebCTRL server is running.	80
	username	The username of the WebCTRL user.	user1
	password	The password of the WebCTRL user.	pwRd1
	webCtrlConnectionTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to connect to the WebCtrlBean adapter.	60000
	webCtrlReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the WebCtrlBean adapter.	60000
com.cisco.cre.ssp.adapter.accessmanager.cpam.CPAMAccessManagerProvider	cpamurl	The CPAM URL.	"http://<IP address of the CPAM server>/acws/services/psimws?wsdl"
	username	The username of the CPAM user.	user1
	password	The password of the CPAM user.	pswRd1
	cpamConnectionTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to connect to the CPAMAccessManagerProvider adapter.	60000
	cpamReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the CPAMAccessManagerProvider adapter.	60000

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Table 3-5 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.jabber.bean.JabberBean	jabberurl	The Cisco Jabber URL.	https://<IP address:port of the CUPS server>/EPASSoap/service/v70a
	username	The username of the Cisco Jabber user.	user1
	password	The password of the Cisco Jabber user.	pswRd1
	presenceserviceurl	The Cisco Unified Presence Server URL.	http://<IP address:port of the CUPS server>/presence-service/soap
	jabberConnectionTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to connect to the JabberBean adapter.	60000
	jabberReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the JabberBean adapter.	60000
com.cisco.cre.ssp.adapter.tms.TMSBean	username	The username of the Cisco TMS.	user1
	password	The password of the Cisco TMS.	pswRd1
	apiversion	The TMS application version.	
	bookingurl	The TP room booking URL.	http://10.106.9.158/tms/external/booking/remotesetup/remotesetupservice.asmx
	endpointurl	The TP room endpoint URL.	http://10.106.9.158/tms/external/booking/bookingService.asmx
	tmsConnectionTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to connect to the TMSBean adapter.	10000
	tmsReadTimeout	The maximum duration (in milliseconds) for which the Spaces application tries to read data from the TMSBean adapter.	10000

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.

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For a sample configuration for the ObixBean mapped to the location ID 10011, see the “Sample Adapter Configurations” section on page 3-34.

Sample Adapter Configurations

SDP_ADAPTER_DEFN table

This configuration is part of the seed data.

Table 3-6 *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 3-7 *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 3-8 *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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Setting up Data Collection

To collect data from a Building Management System (BMS), you need to provide information on data points and the corresponding metadata in the SSP_DEVICE_PROPERTY_METADATA table. The device components are controlled by metadata and the metadata units defined in the SSP_DEVICE_PROPERTY_METADATA table.

Every device added in the SDP has a set of properties. Each property has a unique property id. If you need historic trending for these properties, you must configure the metadata for the properties in the SSP_DEVICE_PROPERTY_METADATA table.

Table 3-9 Metadata Properties

Property	Purpose
METADATA_ID	Primary key field of the table.
PROPERTY_VALUE_ID	Used to derive the id from the SSP_DEVICE_PROPERTY table which is unique across all the devices. It should be added in the SSP_DEVICE_PROPERTY_METADATA table.
TRENDABLE	If the trendable property is set to one, the data collector collects data for the property at the specified trend frequency.
TREND_FREQUENCY	Used to set the rate of data collection. Unit of measurement is minutes. The minimum value that can be provided is one minute.
UNIT_CONFIG	Unit of the data stored in the collection table in the database.
UNIT_MEASURED	Used to set the value of the unit of the data measured in BMS gateway. For example, water is measured in cubic meters.
MONITORABLE	Not applicable for the Smart+Connected Spaces application. Therefore, the value must be set to zero.
CUMULATIVE	Not applicable for the Smart+Connected Spaces application. Therefore, the value must be set to zero.
SCHEDULABLE	Not applicable for the Smart+Connected Spaces application. Therefore, the value must be set to zero.
CONTROLLABLE	Not applicable for the Smart+Connected Spaces application. Therefore, the value must be set to zero.
REPORTABLE	Not applicable for the Smart+Connected Spaces application. Therefore, the value must be set to zero.
ALARMABLE	Not applicable for the Smart+Connected Spaces application. Therefore, the value must be set to zero.
IS_NUMERIC	For a string property, the value is zero and the data gets collected in SSP_DATA_COLL_VAR table. For a numeric property, the value is one and the data gets collected in SSP_DATA_COLL table.
THRESHOLD	The threshold value is set only when it is cumulative and is based on UNIT_CONFIG value. After the threshold value is reached, the energy meter reading is reset.

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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.

Integrating Jabber with Smart+Connected Spaces

To allow the Smart+Connected Spaces to use Jabber, ensure that the LDAP, Cisco Unified Communications Manager, and CUPS are set up in the same domain and perform the following tasks in the Cisco Unified CM IM and Presence Administration:

-
- Step 1** Create an application user by navigating to the Application User Configuration page. Refer to the Cisco Unified CM IM and Presence Configuration Guide or the Cisco Unified CM IM and Presence Administration online help to understand how an application user is added. Click the following link to view the list of guides:
- <http://www.cisco.com/c/en/us/support/unified-communications/unified-presence/products-installation-and-configuration-guides-list.html>
- Step 2** Assign the following groups to the application user that you have created:
- Admin-3rd Party API
 - Admin-CUMA
- Step 3** Import LDAP users into the Cisco Unified Communications Manager database. For information on how to import Active Directory users, refer to the following link:
- <http://www.cisco.com/c/en/us/support/docs/voice-unified-communications/unified-communications-manager-version-71/112880-cucm-8x-ldap.html>
- Step 4** Configure the following settings for the end users by navigating to the End User Configuration page:
- a. Check the **Home Cluster** and **Enable User for Unified CM IM and Presence (Configure IM and Presence in the associated UC Service Profile)** check boxes.
 - b. Assign the following groups and roles:
 - Group
 - Standard CCM End Users

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Roles

- Standard CCM End Users
- Standard CCMUSER Administration

Importing SSL Certificates

You must import the SSL certificates for the Cisco Unified Communications Manager (CUCM). You may also require to import the SSL certificates for the Cisco Digital Media Player (DMP), Cisco Interactive Experience Client (IEC), and Light Weight Directory Access Protocol (LDAP).

Before you begin importing the SSL certificates, ensure that you obtain the certificates from CUCM, Exchange, DMP, IEC, and LDAP, and store them in a directory on the application server.

To import the SSL certificates, perform the following steps:

Step 1 Using a terminal session, navigate to the \$JAVA_HOME/bin directory, where the \$JAVA_HOME environment variable is set to the <JDK_INSTALL_LOCATION> directory.

Step 2 Enter the following command:

```
./keytool -import -alias <Alias Name> -file <certificate file name with complete path>
-keystore $JAVA_HOME/jre/lib/security/cacerts -storepass changeit
```

Where <certificate file name with complete path> is the certificate file name with a complete directory path where you store your certificates, and <Alias Name> is the unique alias name.



Note In case of a separate keystore for the local certificates, change the keystore and storepass values in the above command.

For example:

```
./keytool -import -alias CM -file /home/scc-qa/CM115.cer -keystore
```



Note If you have installed the JDK using an RPM bundle, then you need access as a root user or a user with sudo permissions to add the certificate to the keystore.

A message prompts you to trust this certificate.

Step 3 Choose **Yes**, and press **Enter**.

The certificates are imported.

Changing the JBoss Port

In a non-cluster setup, the Smart+Connected Spaces application is deployed on a single node of a virtual machine and the database resides in a different virtual machine (VM). In a colocated setup, both the solution and the database reside on the same VM. You must change the following default port values that the application listens to, in order to avoid port conflicts:

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- JBoss web HTTP connector socket value. By default, the 'HttpConnector' value is 8080.
- Listening socket for the naming service. By default, the 'Port' value is 1099.

To set up a port for the Smart+Connected Spaces application, perform the following steps:

Step 1 Open the following file:

`$JBOSS_HOME//domain/configuration/domain.xml`

Step 2 Search for 'socket-binding-group name = full-sockets', search for 'http port = 8080', and then change the port number with a value that is not in use, for example, 7159.

After changing the value, the text displayed is as follows:

```
<socket-binding-group name="full-sockets"
  default-interface="public">
  <socket-binding name="ajp" port="8009"/>
  <socket-binding name="http" port="7159"/>
  <socket-binding name="https" port="8443"/>
  <socket-binding name="jacorb" interface="unsecure" port="3528"/>
  <socket-binding name="jacorb-ssl" interface="unsecure" port="3529"/>
  <socket-binding name="messaging" port="5445"/>
  <socket-binding name="messaging-group" port="0"
multicast-address="{jboss.messaging.group.address:231.7.7.7}"
multicast-port="{jboss.messaging.group.port:9876}"/>
  <socket-binding name="messaging-throughput" port="5455"/><socket-binding
name="remoting" port="1199"/>
</socket-binding-group>
```



Note

- While changing the default port values, ensure that you do not change any other port number apart from the 'Http' and 'Port' values of 'socket binding group name = full-sockets'.
- All of the necessary property files need to be updated with the modified port number.

Step 3 Save the file.

Configuring the Property Files

The automated installer creates the required property files with the default values. If you do not want to use the default values, you can configure the property files manually.

- [Configuring the Property Files for Non-Clustered Setup, page 3-38](#)
- [Changing the Theme of the Room Booking Portal, page 3-48](#)

Configuring the Property Files for Non-Clustered Setup

In case you want to update the application.properties, dc.properties, LDAP.properties, logging.properties, and cleWebexAdapterConfig-MC.properties files, perform the following steps:

Step 1 Open a terminal and navigate to `<SPACES_INSTALL_DIRECTORY>/pkg-properties`, where `<SPACES_INSTALL_DIRECTORY>` is the location at which the Smart+Connected Spaces application is installed.

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Step 2 Update the application.properties file:

a. Modify the properties as follows:

energysavings_batch_limit	Size of groups in which the total conference rooms will be divided for the energy savings to be performed in batches. You can change the default value as per your requirement.
minutes	Time slots displayed on IP phones for booking meetings. The minimum limit is 30.
IB_JMSPROVIDER_URL	<i>remote://<Spaces Appserver IP Address or hostname>:<Spaces Appserver port number></i> For example, IB_JMSPROVIDER_URL=remote://10.0.0.0:4547
IB_userName	<i><Spaces JBoss profile admin userid></i> For example, IB_userName=superadmin
IB_password	<i><Spaces JBoss profile admin password></i> For example, IB_password=superadmin
SDP_JMSPROVIDER_URL	<i>remote://<SDP Appserver IP Address or hostname>:<SDP Appserver port number></i> For example, SDP_JMSPROVIDER_URL=remote://10.0.0.0:4447
SDP_userName	<i><SDP JBoss profile admin userid></i> For example, SDP_userName=superadmin
SDP_password	<i><SDP JBoss profile admin password></i> For example, SDP_password=superadmin
emission_factor	Carbon emission factor per 1 kWh For example, 0.00068956d
carbon_unit	Unit for measuring the carbon emission.
flighthr_Co2E	Number of flight hours saved and the reduction in carbon emission due to TelePresence usage.
pageSize	Number of saved drafts displayed per view in the Smart+Connected Spaces user portal.
working_hours	Number of working hours for a day in the enterprise.

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REMINDERS:	Number of minutes before the meeting when reminders will be send to all the invitees.
<ul style="list-style-type: none"> • showReminder1 • showReminder2 • showReminder3 • showReminder4 	
skin_name	<p><i><Name of the skin folder for the Spaces user portal></i></p> <p>For example, skin_name=red</p>
maps_theme	Color of the theme that appears for the kiosk interface. The default color is grey. You can change it to blue.
ms_serviceurl	<p>http://<MS Appserver IP Address or hostname>:<MS Appserver port number>/services/webcalendarservices/confDetails</p> <p>For example,</p> <p>http://10.0.0.0:8180/services/webcalendarservices/confDetails</p>
ps_serviceurl	<p>http://<PS Appserver IP Address or hostname>:<PS Appserver port number>/ipsapp</p> <p>For example, http://10.0.0.0:8180/ipsapp/services</p>
availablesoon	<p>Time in minutes to change the status of the workspaces and rooms to be available soon.</p> <p>For example, 25</p>
	<p> Note The default availablesoon time is 60 minutes. You can change it as per your requirement. The status color changes to yellow for the soon-to-be-available conference/TP rooms and workspaces for this duration.</p>
cronTriggerExpression	<p>Time at which the LDAP user details will be synchronized with the Smart+Connected Spaces application.</p> <p>For example, 0 04 13 * * ?</p>
	<p> Note The default cronTriggerExpression time is 12 am. You can change it as per your requirement.</p>
user_preference_required	<p>Show/hide the 'Do not publish my location' check box in the kiosk web portal.</p> <p>For example, 'yes' if you want to display the check box.</p>

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server_type	Type of the application server used. All of the server parameters are specified based on this property. For example, JBoss
display_jabber_tab	Determines whether to display the Cisco Jabber tab.
usersubscription	Determines whether to display the option to subscribe all of the users in the LDAP.
triggertimeforautocancel	The trigger time (in milliseconds) to trigger an auto cancel.
autocancelflag	Determines whether the automatic cancellation should happen at the trigger time or not. If an autocancelflag is positive, then the auto cancelling occurs for the time configured in the triggertime for autocancel. If the autocancelflag is negative and the booking period is for X hours, then the auto cancelling process occurs after X hours.
autocancel	The auto cancel time in minutes. Automatic cancellation of the reservation happens when the user does not check in before the trigger time.
gracetimeforcheckin	Allows you to check in to a workspace prior to the reserved time. The grace time is in minutes.
advancebookingstatus	Allows you to book a workspace in advance if the value is true.
advancebookingmaxday	Represents the maximum number of days for which a booking in advance is allowed.
repeatbookingstatus	Allows you to book for multiple days if the value is true. This is dependent on the advance booking status.
repeatbookingmaxday	Defines the maximum number of days for which you can book for multiple days. This is dependent on the advancebookingmaxday property.
iecDefaultURL	Defines the path for displaying the Smart Spaces application Sign Out page.
signageWelcomePage	Defines the path for displaying the Smart Spaces application Welcome page.
signageLayoutPage	Defines the path for displaying the user's layout content.
iecRefreshInterval	Defines the duration by which the content gets refreshed.
minbookingduration	Defines the duration by which the workspace can be available. This duration is in minutes.

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hostname	Hostname of the Smart Spaces server for the Digital Media Player (DMP).
port	Port number of the Smart Spaces server.
appURL	Defines the application URL for the IEC device to display the layout content.
Adapter1	Defines the adapter type for lights.
Adapter2	Defines the adapter type for blinds.
Adapter3	Defines the adapter type for dimmers.
Adapter29	Defines the adapter type for air conditioners.
wholeDayBookingStartHour	Defines the start hour time for the whole day booking (in 24 hour format).
wholeDayBookingStartMinute	Defines the start minute time for the whole day booking.
wholeDayBookingEndHour	Defines the end hour time for the whole day booking (in 24 hour format).
wholeDayBookingEndMinute	Defines the end minute time for the whole day booking.
IP_PHONE_DATE_FORMAT	Defines the format of the date as supported by the CUCM.
mail.transport.protocol	The SMTP protocol used for sending and receiving an email.
mail.transport.host	Host name of the mail server.
mail.transport.port	Port number of the mail server.
system_admin_address	Email ID of the system administrator.
admin_address	Email ID of the administrator.
event_subject	Subject of an email.
event_body	Body of an email.
from_address	Email ID of a person or group.
reply_to_address	Email ID of a person or group.
to_address	Email ID of a person or group.
reservation_subject	Subject line of the meeting room reservation event.
shared.file	Defines the path of the person details properties file.

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domain	The Jabber SDK domain name.
unsecureAllowed	Determines whether HTTP or HTTPS protocol is to be used for Jabber.
httpsBindingURL	IP address of the Presence server.
application.realm.username	Username to be provided when installing the application.
application.realm.password	Password to be provided when installing the application.
image_path	Defines the path of the logo images.
autodiscovery_exceptions	List of autodiscover exceptions.
dmp_access_sec	Multiple call from DMP to Smart Spaces application.
user_id_length	Defines the maximum length of the user ID.
meetings_fetch_for_max_days	Defines the maximum number of days for which the meeting details can be obtained from the Smart Spaces application.

b. Save and close the file.

Step 3 Update the dc.properties file:

a. Modify the properties as follows:

datacollection.useTridiumWatch	To use Tridium as a watch, set the value as True. If the value is false, Tridium will be history based.
datacollection.scheduler.interval	Interval in minutes for history based data collection.
datacollection.batch.size	Number of data collection points from which data is gathered at a time.
datacollection.unitxml.path=	<SPACES _INSTALL_DIRECTORY>/pkg-properties/datacollection/unit.xml For example, datacollection.unitxml.path=/home/scc-qa/pkg-properties/datacollection/unit.xml
datacollection.jms.jndi	JNDI for the data collection JMS.
datacollection.jms.connectionfactory	Connection factory for the data collection JMS.
datacollection.jms.initialContext	Class name for the JMS initial context.

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datacollection.jms.providerUrl	<i>remote://<Spaces Appserver IP Address or hostname>:<MS Appserver port number></i> For example, datacollection.jms.providerUrl=remote://10.0.0.0:4547
datacollection.jms.securityPrincipal	<i><Spaces JBoss admin console user name></i> For example, datacollection.jms.securityPrincipal=superadmin
datacollection.jms.securityCredentials	<i><Spaces JBoss admin console password></i> For example, datacollection.jms.securityCredentials=superadmin
datacollection.data.precision	Data precision for the data collected by the BMS. For example, 0.00
application.realm.username	Application user name for the JBoss server. For example, application.realm.username=admin.
application.realm.password	Application user password for the JBoss server. For example, application.realm.password=Cisco_123.

b. Save and close the file.

Step 4 Update the LDAP.properties file:

a. Modify the properties as follows:

ldap.host.name (Mandatory)	The hostname of the LDAP server.
ldap.host.port (Mandatory)	The port number of the LDAP server.
ldap.users.DN (Mandatory)	The base DN to be used for doing a LDAP search.
ldap.user.id (Mandatory)	The attribute to identify a user.
ldap.user.fullname	The attribute to identify the full name of the user.
ldap.user.firstname	The attribute to identify the first name of the user.
ldap.user.firstname.defaultvalue	The default value to be used if the attribute for first name is invalid.
ldap.user.lastname	The attribute to identify the last name of the user.
ldap.user.lastname.defaultvalue	The default value to be used if the attribute for the last name is invalid.
ldap.user.title	The attribute to identify the title of the user.
ldap.user.email	The attribute to identify the e-mail ID of the user.

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ldap.user.mobile	The attribute to identify the mobile number of the user.
ldap.user.telephonenumber	The attribute to identify the telephone number of the user.
ldap.user.email.defaultValue	The default value to be used if the attribute for the e-mail ID is invalid.
ldap.user.companyname	The attribute to identify the name of the company in which the user is employed.
ldap.bind.pwd (Mandatory)	The bind password in case of a non-anonymous bind.
ldap.bind.username (Mandatory)	The bind username in case of a non-anonymous bind.
ldap.user.companyname.default Value	The default value to be used if the attribute for the company name is invalid.
ldap.ssl.enabled	This attribute indicates whether a connection is to be made over SSL (such as, LDAP) or not. The value should be set to true, in case access is over SSL.
ldap.common.name	The attribute to identify the common name of the user (first name+last name).
ldap.user.number	The attribute to identify the employee number of the user.
ldap.user.empid	The attribute to identify the employee ID of the user.
ldap.user.designation	The attribute to identify the designation of the user.
ldap.user.businessUnit	The attribute to identify the business unit which the user is a part of.
ldap.user.photo	The attribute to identify the user's photo that is uploaded in the active directory. The photo has to be of the size 350*420 pixel.
ldap.user.employeeid	The attribute to identify the employee ID of the user.
ldap.user.nickname	The attribute to identify the nickname of the user, if any.
ldap.user.departmentno	The attribute to identify the department of the enterprise with which the user is associated.
ldap.user.departmentname	The attribute to identify the name of the department with which the user is associated.
ldap.user.managerempno	The attribute to identify the employee ID of the user's manager.
ldap.user.managername	The attribute to identify the name of the user's manager.
ldap.user.employeeype	The attribute to identify whether the nature of the user's employment is permanent or contractual.

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ldap.user.worktype	The attribute to identify whether the worker is assigned a location, or is a mobile worker.
ldap.user.publishmobile	This attribute indicates whether the user's mobile number is displayed or not. The value should be set to yes for the user's mobile number to display.
ldap.user.publishpager	This attribute indicates whether the user's pager number is displayed or not. The value should be set to yes for the user's pager number to display.
ldap.user.functional_unit	The attribute to identify the functional unit of the enterprise with which the user is associated.
ldap.user.building	The attribute to identify the building where the user is seated, if a location is assigned to the user.
ldap.user.contractcompany	The attribute to identify the name of the vendor company, if the user is a contract employee.
ldap.user.initial	The attribute to identify the initials of the user.
ldap.user.floor	The attribute to identify the floor where the user is seated, if a location is assigned to the user.
ldap.user.mailstop	The attribute to identify the central location where the mails are sent.
ldap.user.checkedInStatus	The attribute to identify the check-in status of the user.
ldap.user.publishloc	This attribute indicates whether the user's location is displayed or not. The value should be set to yes for the user's location to display.
ldap.user.pager	The attribute to identify the user's pager number.
ldap.user.spaceid	The attribute to identify the workspace where the user is seated, if a location is assigned to the user.
ldap.user.spacepolicy	This attribute is for future enhancements in the solution. You can leave this value blank.
ldap.user.checkedInLocation	The attribute to identify the location where the user has checked in.
ldap.user.vpdesc	The attribute to identify the vice president of the enterprise where the user is employed.
ldap.user.snr_vpdesc	The attribute to identify the senior vice president of the enterprise where the user is employed.
ldap.user.managermail	The attribute to identify the e-mail ID of the user's manager.
ldapUrl (Mandatory)	The LDAP URL to access the active directory.

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ldapBase	The base DN to be used for doing an LDAP search.
ldapUserName (Mandatory)	The bind username in case of a non-anonymous bind.
ldapMaxReturnSize (Mandatory)	The maximum number of users whose details are fetched in one batch from the LDAP.
ldap.user.isroom (Mandatory)	The attribute to identify whether the resource is a user or a room.
ldap.bind.root	The base DC to be used for doing an LDAP search.
cron.run.time	The attribute to identify the run time of the LDAP profile file.
ldap.search.zulupattern	The string pattern to use for doing an LDAP search.



Note You can modify only the mandatory properties listed in the table. Modify the non-mandatory properties if required.

b. Save and close the file.

Step 5 Update the cleWebexAdapterConfig-MC.properties file:

a. Modify the properties as follows:

WEBEX_SITE_ID	For example, WEBEX_SITE_ID=98765432
WEBEX_SITE_NAME	For example, WEBEX_SITE_NAME=abcorp
WEBEX_PARTNER_ID	For example, WEBEX_PARTNER_ID=123ci
WEBEX_XML_SERVER_URL	WEBEX_XML_SERVER_URL=https://abcorp/WBXService/XMLService
WEBEX_USER	For example, WEBEX_USER=genuser



Note Ensure that the permission to create WebEx sessions is provided to all the WEBEX_USER values. This enables the users to avail the WebEx meeting feature while accessing the Smart+Connected Spaces portal for room booking (web calendar).

WEBEX_PASSWORD	For example, WEBEX_PASSWORD=Hilly!23
TOLL	For example: US TOLL = +1-415-655-0001

b. You can retain the default values for the other properties in the cleWebexAdapterConfig-MC.properties file.

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- c. Save and close the file.

Changing the Theme of the Room Booking Portal

You can change the skin of the user interface for the Spaces portal for room booking, 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.

Customizing the Branding Images of the Workspaces Portal

The branding images include the logo and the login screen. You can customize the user interface of the Smart+Connected Spaces portal for workspaces and offices by changing one or both of these images.

To customize the branding images, perform the following steps:

Step 1 Open the **SmartSpaces.ear** file, and then open the **ipsapp.war** file using any archive utility.

Step 2 Navigate to the images directory, and replace the login and the logo images.

[Table 3-10](#) displays the specifications of the branding images.

Table 3-10 Branding Image Specification

Image Type	File Name	Width	Height
Logo	cicso_logo.png	607 pixels	686 pixels
Login Background	IPS_Login_Image.jpg	750 pixels	664 pixels



Note

Branding images that you replace must have the same name and resolution as per the specification provided in [Table 3-10](#).



Note

You must re-deploy the SmartSpaces.ear file to enable changes to the branding images.