

Location Hierarchy (Earlier Version)

This chapter provides information on how to set up the earlier version of Location Hierarchy.

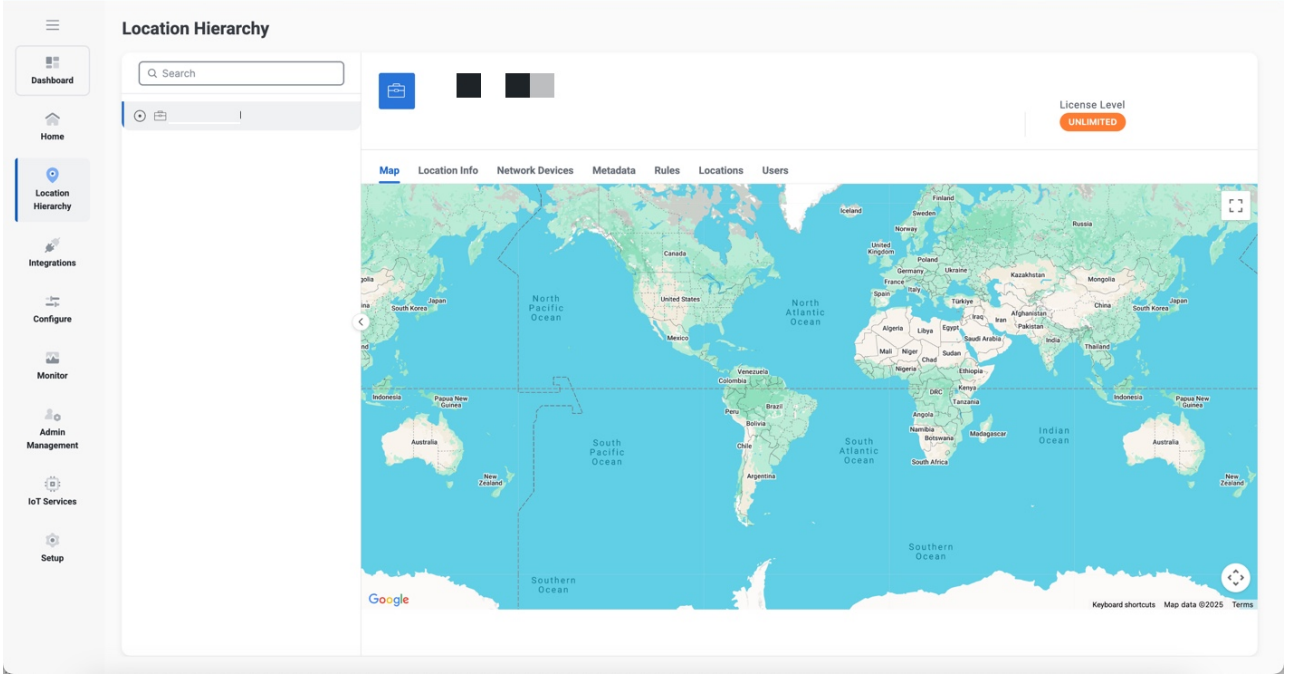
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Location Hierarchy

The **Location Hierarchy** feature simplifies importing locations in the same structure that you define using Cisco AireOS Wireless Controller, Cisco Catalyst 9800 Series Wireless Controller, or Cisco Meraki in your wireless network.

The hierarchical structure in maps imported from Cisco Prime Infrastructure or Catalyst Center is automatically reflected in Location Hierarchy.

In **Location Hierarchy** window, the default customer name (root location) is automatically selected, and the **Map** tab displays the location on the map.



The left pane of the **Location Hierarchy** window displays the imported root locations with the default customer name (root name). You can click the plus sign to expand and view the hierarchy. You can view the buildings and the associated floors in the root location.

If you select a root location from the left pane, you can also view additional information related to the number of organizations, campuses, wireless controller, buildings, groups, floors and zones.

When Smart Licensing is enabled, Cisco Spaces can display license-level badges next to locations in the hierarchy tree. The badge indicates the license level that is applicable to the corresponding hierarchy node.

For a selected location, building or floor, additional information is displayed in the following tabs:

- **Map**: Displays the selected location on the map
- **Location Info**: Displays the location data information
- **Network Devices**: Displays all the connected network devices and running devices and view the count of these devices
- **Metadata**: Displays the configured metadata information
- **Locations**: Displays the location nodes
- **Users**: Displays the users

You can perform the following additional tasks in the **Location Hierarchy** window:

- **Rename**: Click the three dots next to the location and click **Rename Location** to edit the location name.
  - For the root location, only the option to rename the location is displayed.
  - For all other locations except the root, both the options to rename and delete the location is displayed.

- **Delete**: Click the three dots next to the location and click **Delete Location** to delete the location from **Location Hierarchy**.

Location Hierarchy shows rich maps, if they are available for a particular floor. The option to upload rich maps is currently available under **Setup** > **Locations & Maps**. Click the **3D** toggle button to switch between 2D and 3D floor maps.

In **Location Hierarchy**, only those locations that a Cisco Spaces user can access are displayed. The accessibility to these locations are defined when you create or edit roles or invite or edit the Cisco Spaces user in **Admin Management**.

Manage Locations in Map view

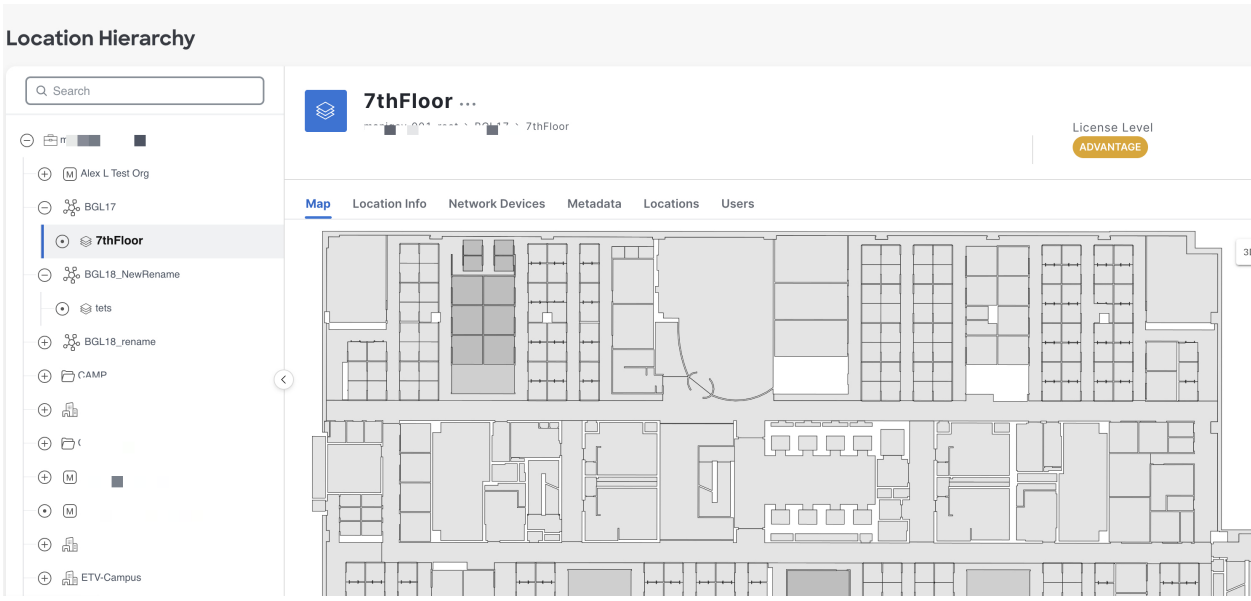
Use the **Map** tab (**Cisco Spaces dashboard** > **Menu icon ( )** > **Location Hierarchy** > **Root Location**) to view the selected location, campus, building and floor information on the map.

The **Map** tab displays diff ernet map types such as default world map, latitude and longitude based maps, and 2D or 3D floor maps.

If you select the root location, the default world map is displayed.

However, in some instances, the map automatically zooms into the precise location on the map and is displayed with a map pin. You can click on the map pin to view the additional information such as location address, total area, maximum capacity, time zone details and so on. The precise location is plotted based on the latitude and longitude information.

Figure 1: Map Tab



If you select a building, the default world map is displayed.

If you select a floor, the exact floor map image is displayed. Use the Polygon tool ( ) to create zones. For more information, refer to Create a Zone for a Floor Location, on page 4.

Depending on the location you select, view these information:

- Organization
- Campus
- Building
- Floor
- Zone

Create a Zone for a Floor Location

Use the **Map** tab to create Cisco CMX zones in **Location Hierarchy**.

The current implementation creates and updates polygon zones from the floor map for supported floor maps. Zone creation is available only when the selected floor has Full access and a 2D floor map is available.

Note Currently, Cisco Meraki zone-based reports are only supported in the **Live Occupancy** application and **Firehose** device location update events.

In Location Hierarchy, you can create polygon zones for the floor locations under the Cisco Meraki network.

To create polygon zones on the floor map, use the **Polygon tool** ( ) that is available in the floor map view under the **Map** tab. The new polygon zones created are displayed under Location Hierarchy.

Procedure

Step 1 Log in to Cisco Spaces.

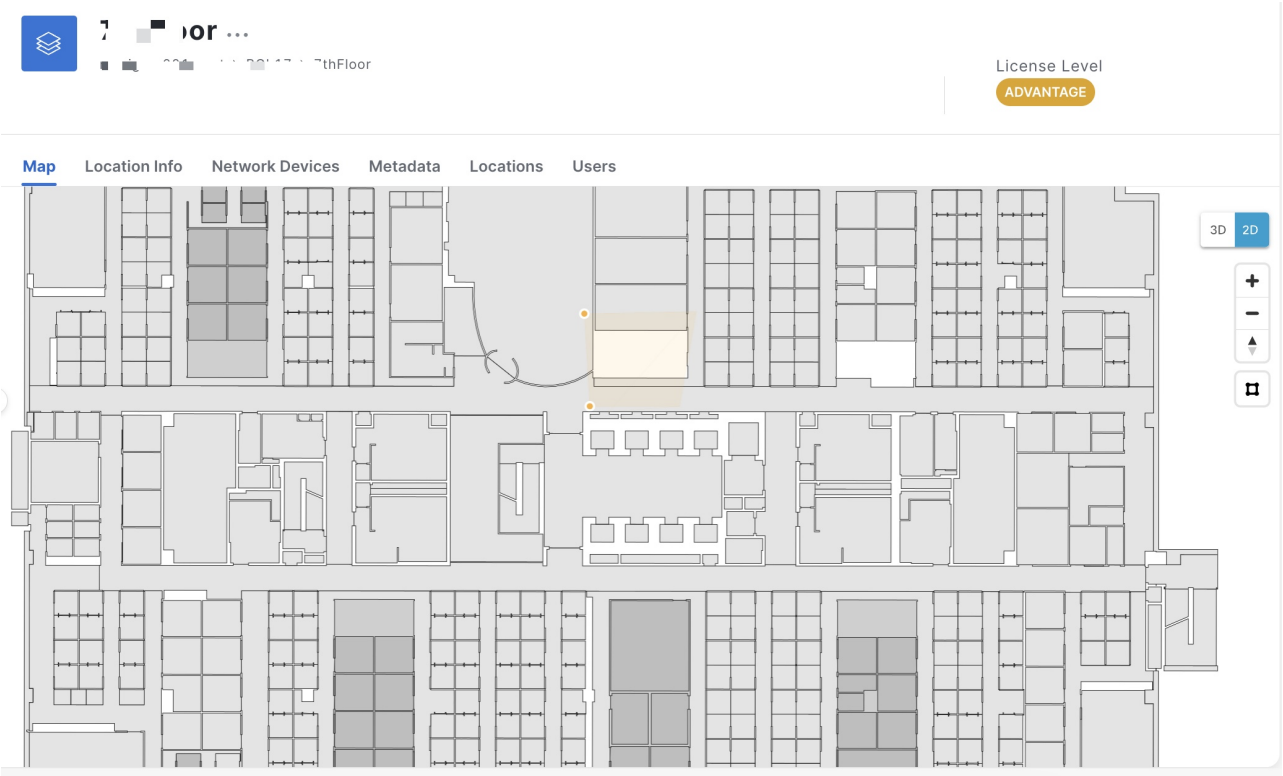
Step 2 In the Cisco Spaces dashboard, click the **Menu** icon ( ) and choose **Location Hierarchy**.

The **Location Hierarchy** window is displayed.

Step 3 In the left pane, navigate to the required floor location.

The floor map is displayed.

Figure 2: Map Tab



Step 4 Click the Polygon tool ( ) on the map.

The cursor changes to a plus icon.

Step 5 Click the required map area and move the cursor to draw a polygonal zone of your choice.

Step 6 Double-click to complete the zone creation.

A pop-up window is displayed on the right pane.

Step 7 In the **Zone Name** field, enter the new zone name.

Step 8 Select the overlay color to distinguish the zone.

Step 9 Click **Save**.

- The new zone is created, and the **Location Hierarchy** window is refreshed to display the root location.
- In the left pane, navigate to the floor where you created the new zone and the zone is now listed as a new item under the floor hierarchy.

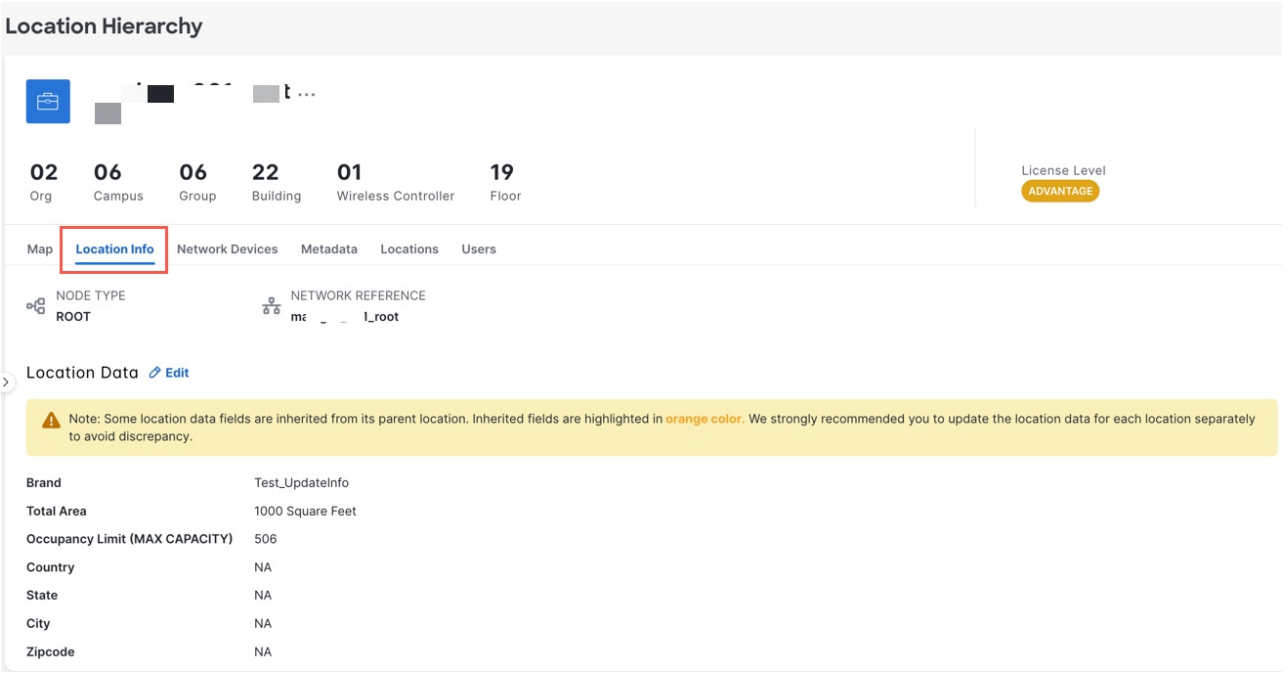
Step 10 (Optional) Click the Polygon tool ( ) on the map to update the zone details.

Update Location Information

Use the **Location Info** tab (**Cisco Spaces dashboard** > **Menu icon (☰)** > **Location Hierarchy** > **Root Location**) to view and edit the location information.

For the selected location, the **Node Type** and **Network Reference** details are displayed.

Figure 3: Location Info Tab



Click **Edit** to update location information. For more information, refer to Edit Location Info, on page 6.

Edit Location Info

Procedure

Step 1 Log in to Cisco Spaces.

Step 2 In the Cisco Spaces dashboard, click the **Menu** icon (☰) and choose **Location Hierarchy**.

The **Location Hierarchy** window is displayed.

Step 3 In the left pane, navigate to the required location.

Step 4 Click the **Location Info** tab.

Step 5 Click **Edit** next to **Location Data**.

The slide-in window is displayed.

Step 6

Note The fields displayed in the **Edit Details** drawer vary based on the selected node type. For the root location, the drawer displays fields such as **Location Name, Brand, Total Area, Unit, Occupancy Limit,** and **Time Zone**. For network or building locations, the drawer can also display **Address, Latitude, Longitude,** and the map panel.

Update the following location information as required:

a) **Location Name**: Edit the name of the location.
b) **Brand**: Edit the name of the brand.
c) **Total Area**: Edit the total area details. The value must be numeric and cannot include commas.
d) **Unit**: Select the unit for the total area entered. The options are **Square Feet** and **Square Meter**.
e) **Occupancy Limit (Max Capacity)**: Enter a positive integer.
f) **Address**: Enter the address details and select from the displayed options. The selected address is plotted on the map displayed on the right side. The map panel provides Map and Satellite views and supports marker-based location selection.
g) **Latitude and Longitude**: Edit decimal coordinates directly or drag the marker on the map. Values can be positive or negative decimal numbers and cannot include commas.
h) **Time Zone**: Select a valid time zone from the searchable **Time Zone** list.

Step 7 Click **Save**.

Edit Access Point Prefix

You can add APs of multiple prefixes to a network. For example, if you have APs with prefixes, AB, BC, and CA, and if you want to group the APs with AB and BC under one wireless network, you can do so.

The **Access Points Prefix Used** option will be available in the **Location Info** tab only for the network locations. However, the Access Points Prefix Used option will not be available for the **Unconfigured** network.

To add APs of multiple prefixes to a network of a Cisco Wireless Controller or Cisco Catalyst 9800 Series Wireless Controller, follow these steps:

Procedure

Step 1 Log in to Cisco Spaces.

Step 2 In the Cisco Spaces dashboard, click the **Menu** icon ( ) and choose **Location Hierarchy**.

The **Location Hierarchy** window is displayed.

Step 3 In the left pane, navigate to the required network.

Step 4 Click the **Location Info** tab.

Step 5 Click **Add/Edit** next to **Access Point Prefix Used**.

Step 6 In the **Add/Edit Prefix** window, in the **Prefix** field, enter the prefix.

The access points with the prefix entered get listed.

Step 7 Click **Add Prefix**.

The newly added prefix gets listed under **Added Prefixes** in the right pane of the window. **Add Prefix** is enabled only if the APs with prefix entered are available.

Step 8 Click **Save**.

After adding the prefix, the APs under the **unconfigured** network with this prefix is moved to this network.

View the Network Devices

Use the **Network Devices** tab (**Cisco Spaces dashboard** > **Menu icon ( )** > **Location Hierarchy** > **Root Location**) to view all the network devices under the selected node. The root location displays all the connected devices available within the location hierarchy.

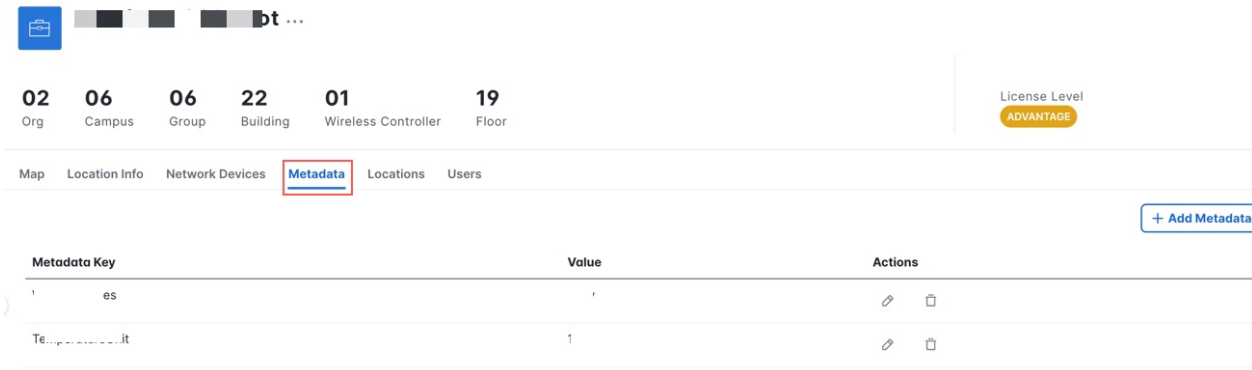
Depending on the selected location, you can view the following information:

- **Access Points**: Displays the name of the AP, MAC address and the location hierarchy path. Use the **Search Table** field to search for a specific AP. Click the copy icon next to the **Location** field to copy the hierarchy path. Navigate to the **Setup** window to configure the AP.
- **Cameras**: Displays the connected camera details such as camera name, serial number, MAC address and status of the trip-wire as a set or not. Use the **Search Table** field to search for a specific camera. Navigate to the **Connect your Meraki Camera** window to connect additional devices.
- **Security Appliances**: Displays the detailed list of security appliance devices for the respective locations.
- **Webex Devices**: Displays the connected Cisco Webex devices.
- **Linked Devices**: Displays the linked devices configured for this location. You can link IoT Devices, Non-Webex Signages and Smart PUDs.

Configure Metadata

Use the **Metadata** tab (**Cisco Spaces dashboard** > **Menu icon ( )** > **Location Hierarchy** > **Root Location**) to view the metadata information. If metadata is not configured yet, click **Add Metadata** to add metadata. For more information, refer to Add Metadata, on page 9.

Figure 4: Metadata Tab



Depending on the selected location, you can view the following information:

- **Metadata Key**: Displays the metadata key.
- **Value**: Displays the value for the metadata key. The value can be alphanumeric and accepts special characters also, for example, xyz123@.

Add Metadata

Procedure

Step 1 Log in to Cisco Spaces.

Step 2 In the Cisco Spaces dashboard, click the **Menu** icon ( ) and choose **Location Hierarchy**.

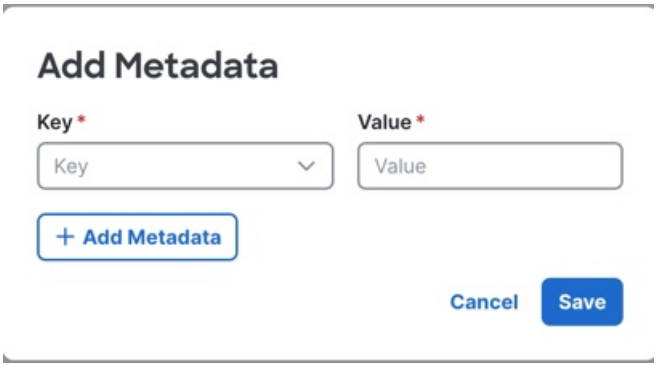
The **Location Hierarchy** window is displayed.

Step 3 In the left pane, navigate to the required location.

Step 4 Click the **Metadata** tab.

Step 5 Click **Add Metadata**.

Figure 5: Add Metadata



Step 6 In the **Key** field, enter or select a metadata key.

Step 7 In the **Value** field, enter a value for the key.

Step 8 (Optional) Click **Add Metadata** to add multiple metadata keys and the corresponding values.

Click the **Delete** icon next to the metadata key to delete the keys.

Step 9 Click **Save**.

View Locations

Use the **Locations** tab (**Cisco Spaces Dashboard** > **Menu icon ( )** > **Location Hierarchy** > **Root Location**) to view the location information such as **Location Type** and **Level**.

Use the **Location Type** and **Level** drop-down options to select the location preferences. The location types are:

- Network/Building
- Campus
- Group
- Organization
- Wireless Controller
- CMX

View these details for the selected location:

- Locations
- APs
- Camera
- Max Capacity
- Total Area (sqft)
- Time Zone

Select the required check box next to the location and click **Create Group** to add location to create your own group.

Create a Group

Use this procedure to organize multiple child locations by creating a group.

Before you begin

- Verify that the parent building and the child location that you want to group already exist.
- Verify that your account has permission to update the location hierarchy.

- All selected locations must have the same parent node. If the selected locations belong to different parents, Cisco Spaces displays an error and does not create the group.

Procedure

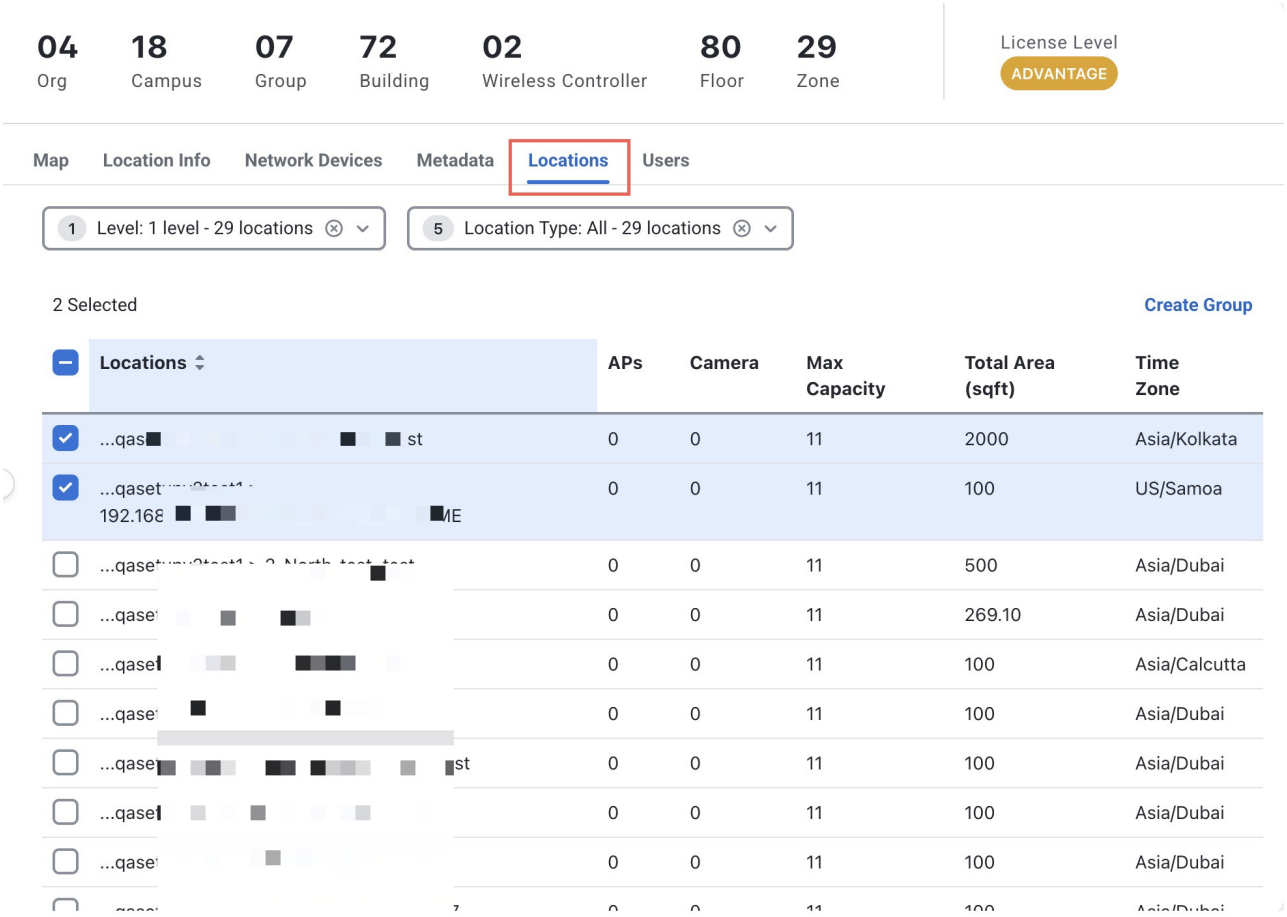
Step 1 In the left navigation pane, click **Location Hierarchy**.

Step 2 In the left pane, navigate to the location where you want to create a group.

Step 3 Click the **Locations** tab.

Step 4 Check the check box for each location that you want to add to the group.

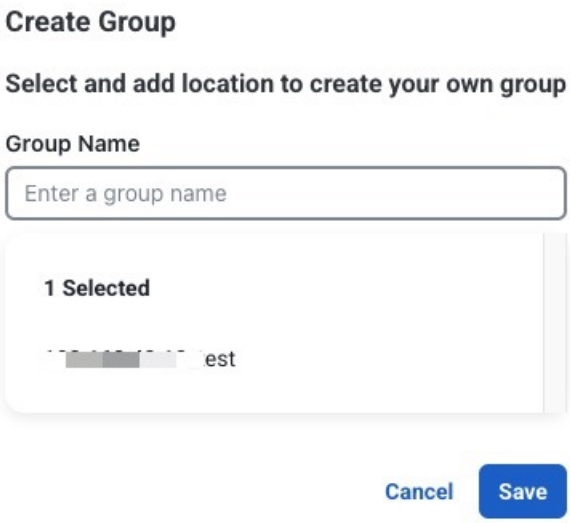
Figure 6: Locations Tab



Step 5 Click **Create Group**.
The **Create Group** pop-up window is displayed.

Step 6 In the **Create Group** pop-up window, enter a name in the **Group Name** field.

Figure 7: Create Group



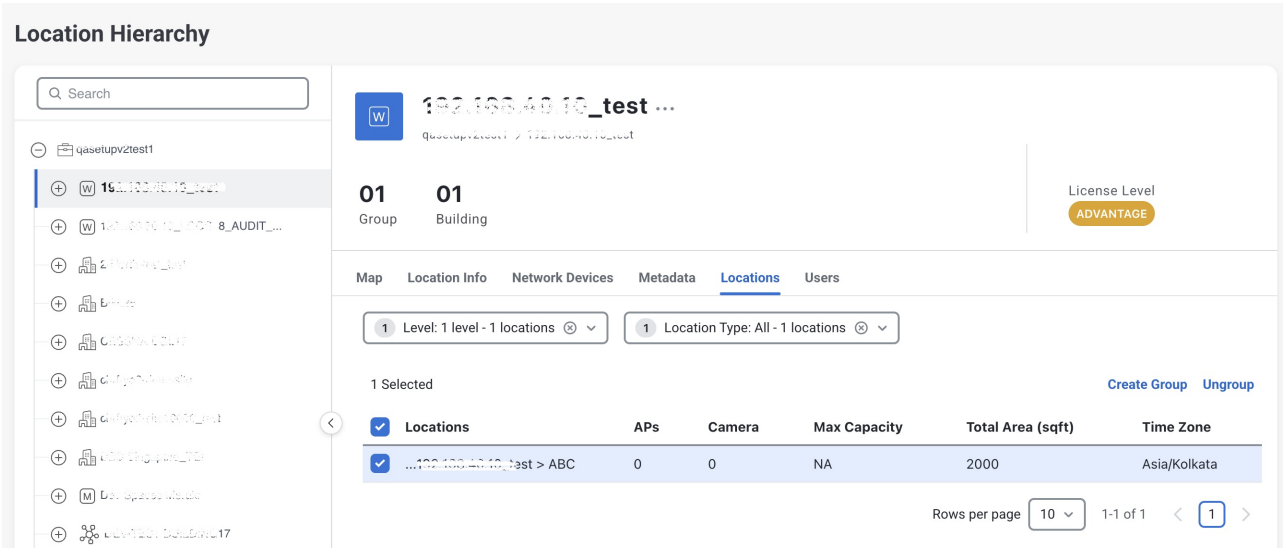
Step 7 Review the selected locations, and then click **Save**.

Step 8 Verify that the new group appears in the hierarchy under the selected building.
The new group is created under the selected building and moves the selected locations under that group. The building summary also updates to show the new group count.

Step 9 (Optional) Perform these steps if required.

a) To ungroup the location, select a group row that has child locations and click **Ungroup**.

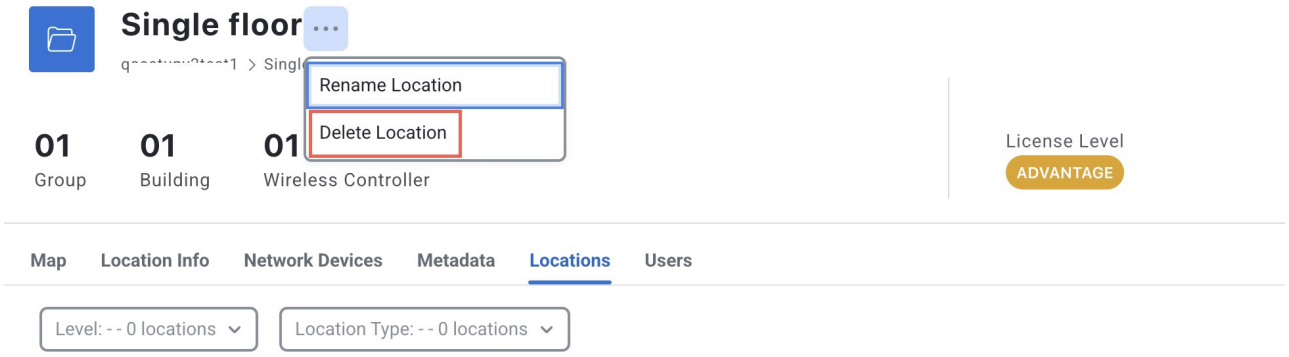
Figure 8: Ungroup



b) In the warning dialog, click **Yes** to confirm the ungroup action.

c) To delete a group or another non-root location, open the location action menu and click **Delete Location**.

Figure 9: Delete Location



View Users

Use the **Users** tab (**Cisco Spaces Dashboard** > **Menu icon (** **)** > **Location Hierarchy** > **Root Location**) to view the users and their role permissions.

View these details:

- User
- Role
- Permissions: Read & Write
- Permissions: Read only
- Locations

Use the **Search** option to search for users. You can click a user to edit the permission setting in the **Admin Management** > **Edit User** window.