



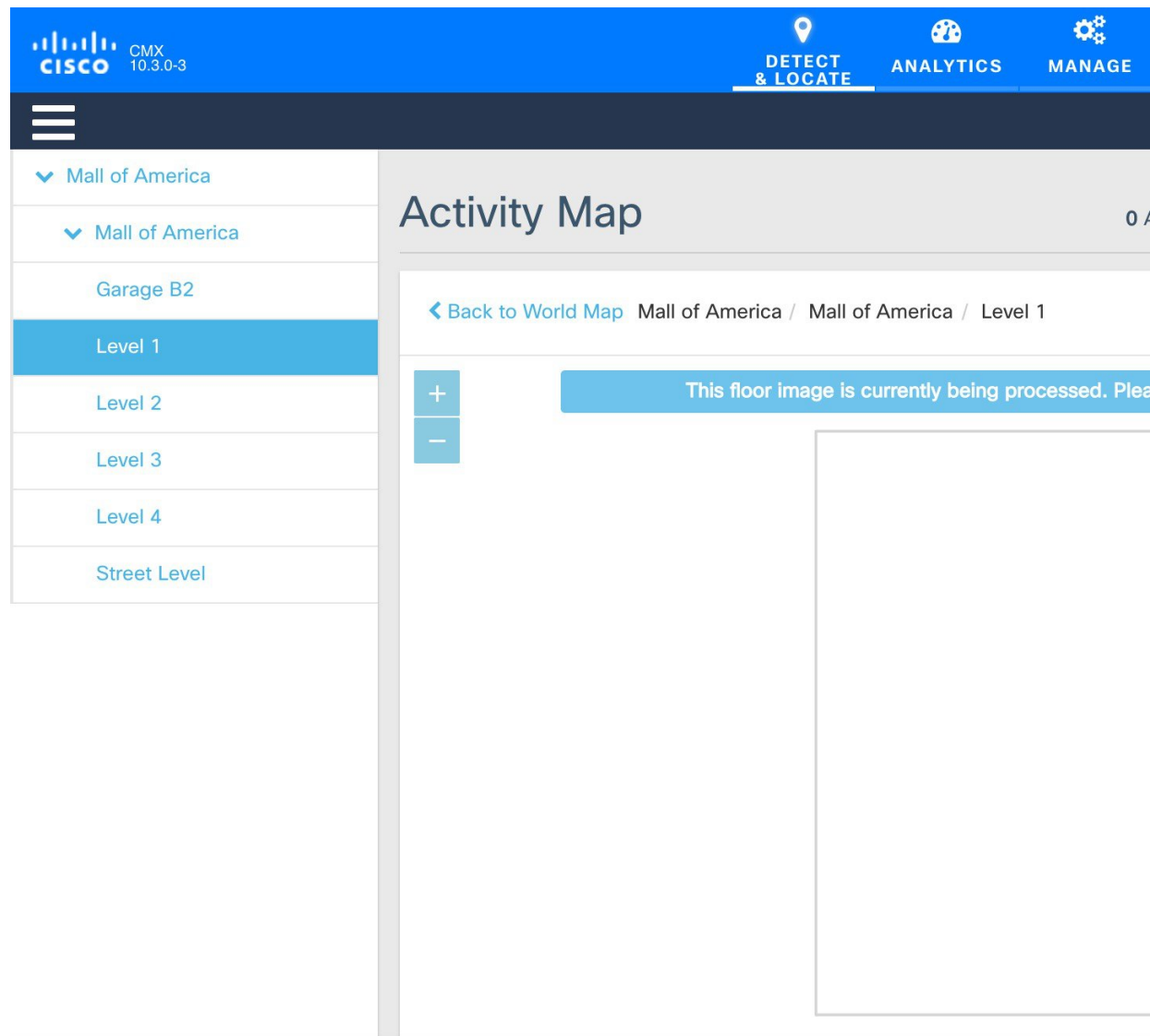
## Guidelines for Managing Maps in Cisco CMX

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We recommend that you use the following guidelines to effectively manage the maps on Cisco CMX. These guidelines are based on frequently asked questions about map import/update scenarios and will help avoid typical mistakes while importing/updating maps on Cisco CMX.

- You can import maps from Catalyst Center. For more information, see [Importing Maps from Catalyst Center](#).
- Map uploads into Cisco CMX are best performed outside of business hours (or when Cisco CMX system activity is low), after 9PM is recommended. There are no hard and fast rules though. Maps import involves significant amount of processing to update the Database and processing floor images based on the size of floor image.
- Decide on an update window of 30 minutes for uploading maps to Cisco CMX. For a typical floor image, Cisco CMX can take up to 15 seconds per image to complete processing and show the floor image on Cisco CMX GUI. A typical map of a Campus with 100 floors may take up to 30 minutes to complete image processing background jobs. If the image processing in progress, The GUI will show an information message saying 'This floor image is currently being processed. Please refresh the page after a few moments to view the image'.

Figure 1: Activity Map



- Create and update the zones using Cisco CMX GUI map editor. All other map edit operations are to be performed using Prime Infrastructure.
- An AP can only be associated with a single floor map in Prime. If you are planning to move APs from one floor to another, you want to disassociate them from existing floor-map in Prime so that they can be associated to new floor-map in Prime. (Please refer to 'Typical map import issues: Case 2' for troubleshooting steps.)
- To expand a map to cover a larger area, create a new map in Prime and move APs to the new map from older map. You also want to make sure that the older floor is deleted from Prime and Cisco CMX before the new floor map is imported on Cisco CMX.
- Avoid doing bulk map import/exports. Export individual maps changes from Prime Infrastructure and import into Cisco CMX. For large set of maps, Its not recommended to use 'Import from Cisco Prime'

option (shown in the picture) as this will sync all maps from Prime to Cisco CMX that may put significant amount of load on the system.

Figure 2: Import from Cisco Prime

SETTINGS

- Tracking
- Filtering
- Location Setup
- Mail Server
- ▼ Controllers and Maps Setup
- Import**
- Advanced
- Upgrade
- High Availability

## Import from Cisco Prime

Please provide Cisco Prime credentials below:

**Username**  
Enter Username

**IP Address**  
Enter IP Address

**Password**  
Enter Password

- Save Cisco Prime Credentials
- Delete & replace existing maps & analytics data
- Delete & replace existing zones

\*Please enter the correct SNMP community string after import.

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▶ **Controllers**  
Last Synced: N/A

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▶ **Maps**  
Last Synced: N/A

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## Create a Map Using Cisco Prime Infrastructure

To create a map using Cisco Prime Infrastructure, see the "[Using Wireless Maps](#)" chapter in the Cisco Prime Infrastructure 3.1 User Guide.

## Delete a Map Using Cisco Prime Infrastructure

### Procedure

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- Step 1** Log in to Cisco Prime Infrastructure.
- Step 2** Click the **Open/Close** navigation icon (above the Home icon on top left hand side).
- Step 3** Choose **Maps > Site Maps**.
- Step 4** From the **Select a command** drop-down list, choose **Delete**.
- Step 5** Select the checkbox of the individual map you wish to delete and click **Go** (next to the **Select a command** drop-down).

Prime Infrastructure

Maps / Wireless Maps / Site Maps

Maps Tree View

- Root Area
  - System Campus
    - Unassigned
      - Nortech Campus
        - pwalawal-campus

Site Maps [Edit View](#)

Show: Type  Status   Incomplete ?

<input type="checkbox"/>	Name	Type ▲	Incomplete	Total APs
	System Campus	Campus/Site		87
	Unassigned	Campus/Site		0
<input type="checkbox"/>	Nortech Campus	Campus/Site		13
<input type="checkbox"/>	pwalawal-campus	Campus/Site		4
<input type="checkbox"/>	Nortech Campus > Nortech Building	Building		13
<input type="checkbox"/>	System Campus > Bldg 18	Building		7
<input type="checkbox"/>	System Campus > Mall Of Emirates	Building		4
<input type="checkbox"/>	System Campus > Nortech	Building		4
<input type="checkbox"/>	System Campus > SJC-24	Building		6
<input type="checkbox"/>	System Campus > bldg14-dharani	Building		3
<input type="checkbox"/>	System Campus > dwg_test_building	Building		1
<input type="checkbox"/>	System Campus > khushbo18	Building		47
<input type="checkbox"/>	System Campus > khushboo	Building		0
<input type="checkbox"/>	System Campus > pwalawal	Building		15
<input type="checkbox"/>	System Campus > test2	Building		0
<input type="checkbox"/>	pwalawal-campus > pwalawal-building-1	Building		4
<input type="checkbox"/>	Nortech Campus > Nortech Building > Halo Mode	Floor Area		4
<input type="checkbox"/>	Nortech Campus > Nortech Building > Mixed Mode	Floor Area		9
<input checked="" type="checkbox"/>	System Campus > Bldg 18 > 2nd-Floor	Floor Area		7

## Move an Access Point Between Maps Using Cisco Prime Infrastructure

### Procedure

- Step 1** Log in to Cisco Prime Infrastructure.
- Step 2** Click on Open/Close navigation icon (above the Home icon on top left hand side).
- Step 3** Choose **Maps > Site Maps**.
- Step 4** From the **Select a command** drop-down list, choose **Floor Area**.

**Step 5** Click **Go**.

**Step 6** Click on the floor Area from which you want to release the AP. The **Floor View** window is displayed.

**Step 7** From the **Select a command** drop-down list, choose **Remove Access**

The screenshot displays the Cisco CMX Floor View interface. At the top, there is a navigation bar with 'Structure' on the left, an 'Application Search' field, a notification bell, and the user 'root - ROOT-DOMAIN'. Below this, the breadcrumb path is 'em Campus / SJC-24 / SJC-24-3rd'. The main window title is 'Floor View'. On the right side, there is a dropdown menu set to 'Remove Access Points' and a 'Go' button. Below the dropdown is a search input field. The main area shows a floor plan with a grid overlay. A color scale at the top left indicates signal strength from -35 dBm (red) to -90 dBm (blue). An 'Auto Refresh' dropdown is set to '5 min'. The floor plan shows several rooms, some of which are highlighted in red, green, and blue. A vertical scale on the right indicates distances from 0 ft to 200 ft. At the bottom right, there is a small text '301.49 ft, 4' and a large vertical number '385468'.

**Step 8** Select the AP to be deleted and click **OK**.

The screenshot shows the Cisco Prime Infrastructure interface. At the top, there is a navigation breadcrumb: **... / System Campus / SJC-24 / SJC-24-3rd / Remove Access Points**. Below this, the title of the dialog is **Remove Access Points**, with a subtitle **Remove access points from Floor Area 'SJC-24-3rd'**. The main content is a table with three columns: **AP Name**, **MAC Address**, and **AP Model**. Each row has a checkbox in the first column. At the bottom of the dialog, there are two buttons: **OK** and **Cancel**.

<input type="checkbox"/>	AP Name	MAC Address	AP Model
<input type="checkbox"/>	AP2600_442b.039a.b7a3	3c:ce:73:1e:f9:10	AIR-CAP2602I-A-K9
<input type="checkbox"/>	AP3800_00A6.CA36.187A	00:6b:f1:1c:32:c0	AIR-AP3802I-B-K9
<input type="checkbox"/>	Nortech-Connect-AP-F8F3	b4:e9:b0:ef:61:b0	AIR-CAP3602I-A-K9
<input type="checkbox"/>	Venu.AP3800_843D.C670.444E	00:6b:f1:21:cf:20	AIR-AP3802I-B-K9
<input type="checkbox"/>	build14-baseRMAC-51c0-ip-40	58:bc:27:92:51:c0	AIR-CAP3502I-A-K9
<input type="checkbox"/>	build14-baseRMAC-b090-ip-60	34:a8:4e:e7:b0:90	AIR-CAP3602I-T-K9

**Step 9** Click **Position AP** icon (before the delete icon) to place APs on the map.

The screenshot shows the Cisco Prime Infrastructure interface for managing site maps. The breadcrumb navigation indicates the path: **... / Site Maps / System Campus / SJC-24 / SJC-24-3rd**. The interface is in **Floor View** mode, displaying a floor plan with a signal strength heatmap. The legend indicates the signal strength scale from **-35 dBm** (red) to **-90 dBm** (blue). The protocol is set to **802.11a/n/ac**. The **Auto Refresh** interval is set to **5 min**. A warning message states: **Data may be delayed up to 15 minutes or more depending on background polling interval**. The left sidebar shows the **Floor Settings** menu with various map elements like Access Points, AP Heatmaps, Clients, and Tags. The **Load Status** section shows the current state of the map data.



**Step 10**

From the **AP Name** drop-down list, choose the AP and place it to the correct location on the map.

Home / System Campus / SJC-24 / SJC-24-3rd / Position APs ★

Click on an AP icon to change its position, height and/or antenna information. Position of AP can be changed by dragging the icon with mouse.

Position APs

--AP Name--	--MAC Address--
AP2600_442b.039a.b7a3	3c:ce:73:1e:f9:10
AP3800_00A6.CA36.187A	00:6b:f1:1c:32:c0
build14-baseRMAC-51c0-ip-40	58:bc:27:92:51:c0
build14-baseRMAC-b090-ip-60	34:a8:4e:e7:b0:90
Nortech-Connect-AP-F8F3	b4:e9:b0:ef:61:b0
Venu.AP3800_843D.C670.444E	00:6b:f1:21:cf:20

Use Ctrl + Mouse Click or Mouse Drag on APs for multiple. Ctrl-A for all currently visible APs



## Export a Map Using Cisco Prime Infrastructure

### Procedure

- Step 1** Log in to Cisco Prime Infrastructure.
- Step 2** Click on Open/Close navigation icon (above the Home icon on top left hand side).
- Step 3** Choose **Maps > Site Maps**.
- Step 4** From the **Select a command** drop-down list, choose **Export Maps**.
- Step 5** Check the checkbox of the individual map you wish to export .

Site Maps [Edit View](#)

Show: Type  Status   Incomplete [?](#)

<input type="checkbox"/> Name	Type ▲	Incomplete	Total APs	a/n/ac Radios	b/g/n Radios
<input type="checkbox"/> System Campus	Campus/Site		92	93	91
<input type="checkbox"/> Unassigned	Campus/Site		0	0	0
<input type="checkbox"/> Nortech Campus	Campus/Site		13	13	13
<input type="checkbox"/> pwalawal-campus	Campus/Site		4	4	4
<input type="checkbox"/> Nortech Campus > Nortech Building	Building		13	13	13
<input type="checkbox"/> System Campus > Bldg 18	Building		7	7	7
<input type="checkbox"/> System Campus > Mall Of Emirates	Building		10	11	9
<input type="checkbox"/> System Campus > Nortech	Building		4	4	4
<input type="checkbox"/> System Campus > SJC-24	Building		6	6	6
<input type="checkbox"/> System Campus > bldg14-dharani	Building		3	3	3
<input type="checkbox"/> System Campus > dwg_test_building	Building		0	0	0
<input type="checkbox"/> System Campus > khushbo18	Building		47	47	47
<input type="checkbox"/> System Campus > khushboo	Building		0	0	0
<input type="checkbox"/> System Campus > pwalawal	Building		15	15	15
<input type="checkbox"/> System Campus > test2	Building		0	0	0
<input type="checkbox"/> pwalawal-campus > pwalawal-building-1	Building		4	4	4
<input checked="" type="checkbox"/> Nortech Campus > Nortech Building > Halo Mode	Floor Area		4	4	4

**Step 6** Click Go.

## Import New and Modified Maps to Cisco CMX

Navigate to Cisco CMX UI Advanced import option below (select System - Settings - Controllers and Maps Setup - Advanced), leave both checkboxes unchecked shown below. Browse to the maps file to be imported, select **Upload**.

SETTINGS

- Tracking
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- Import
- Advanced

- Upgrade
- High Availability

## Maps

Please select maps to add or modify:

 Browse...

Delete & replace existing maps & analytics data

Delete & replace existing zones

Upload

## Controllers

Please add controllers by providing the information below:

<b>Controller Type</b>	<input type="text" value="WLC"/>
<b>IP Address</b>	<input type="text"/>
<b>Controller Version [Optional]</b>	<input type="text"/>
<b>Controller SNMP Version</b>	<input type="text" value="v2c"/>
<b>Controller SNMP Write Community</b>	<input type="text" value="private"/>

Add Controller

