

# **Guidelines for Managing Maps in Cisco CMX**

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

ији смх сіsco 10.3.0-3		DETECT & LOCATE	ANALYTICS	<b>C</b> Manage
≡				
✓ Mall of America				
✓ Mall of America	Activity Map			0 A
Garage B2	Back to World Map Mall of A	merica / Mall of	f America / Leve	1
Level 1				903 - 90
Level 2		floor image is o	currently being p	ocessed. Plea
Level 3				
Level 4				
Street Level				

- 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: Impor from Cisco Prime

Tracking		
Filtering	Import from Cisco Prime	
Location Setup	Please provide Cisco Prime credentials below:	
	Username	Pa
Mail Server	Enter Username	E
<ul> <li>Controllers and Maps Setup</li> </ul>	IP Address -	
Import	Enter IP Address	
Advanced	Save Cisco Prime Credentials	
Upgrade	Delete & replace existing maps & analytics data	
High Availability	Delete & replace existing zones	
	*Please enter the correct SNMP community string after import.	
	▶ Controllers	
	Last Synced: N/A	
	▶ 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

- **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).

laps Tree View	Site Maps Edit View		
🚯 Root Area	Show: Type All \$ Status	All 🗘	Incomplet
System Campus			
ᡖ Unassigned	Name	Type A Incomple	ete Total A
Nortech Campus	System Campus	Campus/Site	87
pwalawal-campus	Unassigned	Campus/Site	0
	Nortech Campus	Campus/Site	13
	pwalawal-campus	Campus/Site	4
	Nortech Campus > Nortech Building	Building	13
	System Campus > Bldg 18	Building	7
	System Campus > Mall Of Emirates	Building	4
	System Campus > Nortech	Building	4
	System Campus > SJC-24	Building	6
	System Campus > bldg14-dharani	Building	3
	System Campus > dwg_test_building	Building	1
	System Campus > khushbo18	Building	47
	System Campus > khushboo	Building	0
	System Campus > pwalawal	Building	15
	☐ System Campus > test2	Building	0
	pwalawal-campus > pwalawal-building-1	Building	4
	Nortech Campus > Nortech Building > Halo Mode	Floor Area	4
	Nortech Campus > Nortech Building > Mixed Mode	Floor Area	9
	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.
Ston 7	From the Select a command dron down list, choose Remove Access



## Step 8

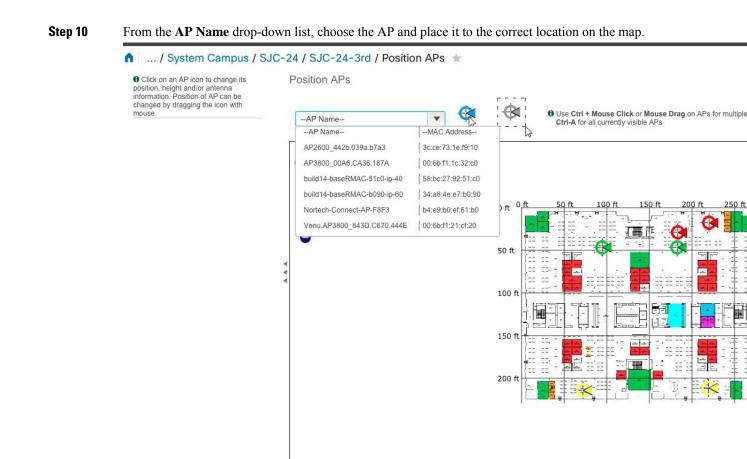
## Select the AP to be deleted and click **OK**.

	cisco Prime Infrastructure		Ο, • Αρ
	/ System Campus / SJC-24 / SJC-24-3r	rd / Remove Access Points 🔺	
Re	emove Access Points		
Rem	move access points from Floor Area 'SJC-24-3rd'		
	AP Name	MAC Address	AP Model
$\bigcirc$	AP2600_442b.039a.b7a3	3c:ce:73:1e:f9:10	AIR-CAP2602I-A-K9
	AP3800_00A6.CA36.187A	00:6b:f1:1c:32:c0	AIR-AP3802I-B-K9
	Nortech-Connect-AP-F8F3	b4:e9:b0:ef:61:b0	AIR-CAP3602I-A-K9
	Venu.AP3800_843D.C670.444E	00:6b:f1:21:cf:20	AIR-AP3802I-B-K9
	build14-baseRMAC-51c0-ip-40	58:bc:27:92:51:c0	AIR-CAP3502I-A-K9
	build14-baseRMAC-b090-ip-60	34:a8:4e:e7:b0:90	AIR-CAP3602I-T-K9

OK Cancel



I



# **Export a Map Using Cisco Prime Infrastructure**

## Procedure

Step 1 Log in to Cisco Prime Infrastru	icture.
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- **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 .

Maps Tree View	✓ Site Maps Edit View				
🔹 🦓 Root Area	Show: Type All 💠 Status Al	II \$	ncomplete	Go	
<ul> <li>Bystem Campus</li> </ul>					
unassigned	□ Name	Type 🔺 Incom	plete Total AP	s a/n/ac Radios	b/g/n
Nortech Campus	System Campus	Campus/Site	92	93	91
pwalawai-campus	Unassigned	Campus/Site	0	0	0
	Nortech Campus	Campus/Site	13	13	13
	pwalawal-campus	Campus/Site	4	4	4
	Nortech Campus > Nortech Building	Building	13	13	13
	System Campus > Bldg 18	Building	7	7	7
	System Campus > Mall Of Emirates	Building	10	11	9
	System Campus > Nortech	Building	4	4	4
	System Campus > SJC-24	Building	6	6	6
	System Campus > bldg14-dharani	Building	3	3	3
	System Campus > dwg_test_building	Building	0	0	0
	System Campus > khushbo18	Building	47	47	47
	System Campus > khushboo	Building	0	0	0
	System Campus > pwalawal	Building	15	15	15
	System Campus > test2	Building	0	0	0
	pwalawal-campus > pwalawal-building-1	Building	4	4	4
	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

Filtoring	Maps		
Filtering	Please select maps to add o	or modify:	
Location Setup	Please select maps to add o	or modity:	
Mail Server			Browse
<ul> <li>Controllers and</li> </ul>	Delete & replace existing	maps & analytics	s data
Maps Setup	Delete & replace existing	zones	
Import			
Advanced	Upload		
Upgrade			
High Availability	Controllers		
inger i fono barry	Please add controllers by pr	oviding the infor	mation below:
	Controller Type		
	Controller Type	WLC	•
	IP Address -	WLC	•
	IP Address - Controller Version	WLC	•
	IP Address 🗸	WLC	
	IP Address - Controller Version	WLC v2c	•