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AP Migration from Traditional Wireless to Cisco SD-Access Fabric

AP Migration from Traditional Wireless to SD-Access Fabric 2 Prerequisites 2 Scenario 1: Migrate APs that are not managed by Cisco DNA Center 3 Scenario 2: Migrate Local Mode APs (managed by Cisco DNA Center) 7 Scenario 3: Migrate Flex Mode APs (managed by Cisco DNA Center) 13 **Revised: September 11, 2023**

AP Migration from Traditional Wireless to SD-Access Fabric

SD-Access wireless architecture integrates wireless access into the SD-Access fabric to gain all the advantages of the fabric and Cisco DNA Center automation. Over The Top (OTT) wireless architecture involves running a traditional wireless on top of the fabric network.

Figure 1: SD-Access Wireless Architecture



This guide describes how to migrate APs from a traditional wireless or OTT network to Cisco SD-Access fabric network using Cisco DNA Center.

This guide is based on Cisco DNA Center 2.3.3; steps and examples may vary based on your Cisco DNA Center version.

Prerequisites

Ensure the following:

- You have set up a Cisco SD-Access fabric network using Cisco DNA Center.
- The devices involved in the migration are discovered and available in the Cisco DNA Center inventory.

Scenario 1: Migrate APs that are not managed by Cisco DNA Center

In this scenario, APs belong to a traditional wireless network that is not managed by Cisco DNA Center. Migration involves deploying a new Cisco SD-Access fabric wireless controller using Cisco DNA Center and then migrating the APs to the fabric wireless controller.

Procedure

	a) b)	In tl Clic	he Cisco DNA Center home page, click the menu icon and choose Design > Network Pro ck Add Profile and choose Wireless .						
									+ Add Profile
			Q Search Table						Assurance
			Profile Name 🔺		Туре	Sites		Action	Firewall
			routing_profile		Routing	3		Edit Delete	Switching
			switch-profile		Switching	3		Edit Delete	Telemetry Appliance
			wireless		Wireless	3		Edit Delete	Wireless
			3 Record(s)					Show	Records: 10 ∨ 1 - 3 < ①

- c) Enter a valid profile name in the **Profile Name** field.
- d) Click Assign to assign sites to the profile.

Network Profiles / Wireless
Add a Network Profile
Following tasks must be completed before creating a Wireless Network Profile. 1. Define SSIDs, Interface, RF Profiles and AP Profiles under Network Settings & Wireless C 2. Define Fempletes in Templetes Nub Coptional State Multi C 3. Define Model Config (Optional) Model Config C
Profile Name*
Site: Assign
SSIDs AP Zones Model Configs Templates Advanced Settings V

e) Configure the other required details and click Save.

2 Create SSIDs for the wireless fabric network and associate it to the fabric profile.

- a) In the Cisco DNA Center home page, click the menu icon and choose **Design** > Network Settings.
- b) Click the Wireless tab.
- c) From the left hierarchy tree, choose **Global**.
- d) In the SSID table, click the Add icon, and choose Enterprise.

Q Search Hierarchy	All / SSIDs	
Search Help	SSIDs	
> 🕸 San jose	Configure SSIDs for enterprise and guest wireless networks. You can assign them to sites via Wireless Network Profiles.	
	SSID (0)	🕂 Add
	Q Search Table	Enterprise '
	Edit Delete 🛗 SSID Scheduler 🕕 0 Selected	Guest
	Network Name (SSID) * WLAN Profile Name Policy Profile Name SSID Type L2 Security L3 Security Wireless Profiles Portal Name	AAA Servers
	No data to display	

e) Configure the required settings.

Basic Settings Fill the information like name, wireles	s options, state and network to complete the basic setup	of SSID.	
🗋 Sensor 🕠			
Wireless Network Name (SSID)*	WLAN Profile Name*	Policy Profile Name	
Radio Policy			
2.4GHz 802.11b/g Policy 802.11bg	SGHz only SGHz Image: Constraint of the second sec		
Quality of Service(QoS) 🕕			
Egress VoIP (Platinum)			
SSID STATE			
Admin Status	Broadcast SSID		
			Next

f) Associate the SSID to the fabric profile.

Associate SSID to Profile

Select a Profile on the left or Add Profile and click 'Associate Profile' to associate the SSID to Profile.

	SSID Name: fabric ssid (E	nterprise)				
	 Add Profile Q Search raja 	O Associate Profile Cancel Profile Name wireless	-			
		WLAN Polite Name fabric said_profile Fabric vs \No	Policy Profile Name fabric ssid_profile	0		
Exit					Back	Next

- g) Configure the other required details and click Save.
- Provision the wireless controller.

Step 3

- a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Inventory**.
- b) Select the wireless controller that you want to provision.
- c) From the Actions drop-down list, choose Provision > Provision Device.

0 Global		All Routers Switc	ches	Wireless Controllers Access F	Points Sensors		89 🗄 🗞 🛇
DEVICE WORK ITEMS	Devices (1) Focus: Default	~				Take a tour	🛧 Export 🛛 🚳
Unreachable	Q Filter devices						∇
Unassigned	1 Selected Tag 🕀 Add Device	Actions ^ ①				As of	May 19, 2023 1:04 PM 🔗
Failed Provision	Device Name	Inventory	> d	idress	Device Family	MAC Address	
Non Compliant		Software Image	>	7 7		NA	
Outdated Software Image	•	Provision	>				
No Golden Image		Telemetry	>	Assign Device to Site			
Failed Image Prechecks		Device Replacement	,	Provision Device			
Under Maintenance	<	Compliance		Configure WLC HA			
Security Advisories		Marc		Configure WLC Mobility			
Marked for Replacement		More .	2	Manage LED Flash Status			

In the Select Primary Managed AP Locations option, choose the sites to be migrated.

1 Assign Site 2	Configuration (3) Model Configuration	4 Advanced Configuration	5 Summary	
	Serial Number XYZ	Devices WLC	WLC Role Active Main WLC ① Anchor	Managed AP location(s) Relect Primary Managed AP Locations Select Secondary Managed AP Locations

d) Configure the other required settings and click **Deploy**.

Step 4 Add the wireless controller to the fabric network.

Network Devices / Provision Devices

- a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Fabric Sites**.
- b) Select the fabric site.
- c) Click the Fabric Infrastructure tab.

Fabric Sites	Fabric Sites	1			₩ ₩
EQ. Find Hierarchy	Fabric Infrastructure	Host Onboarding		More Actions \vee	Show Task Status
			Collapse All	Custom Focus May 2	3, 2023 4:53 PM

- d) Choose the wireless controller that you want to add to the fabric network.
- e) In the Fabric window, click the Wireless toggle button and click Add.

Details	Fabric	Port Channel	Advisories	User Defined Fields	Interfaces	Virtual Ports	Wireless Info	Mor
Re	move Fror	n Fabric						
Fabric								
w w	lireless							

The wireless controller is added to the fabric network.

- **Step 5** Assign an IP pool to the SSID.
 - a) In the Cisco DNA Center home page, click the menu icon and choose Provision > Fabric Sites.
 - b) Select the fabric site.
 - c) Click the Wireless SSIDs tab.

Fabric Sites	Fabric Sites		
EQ, Find Hierarchy	Fabric Infrastructure Host Onboarding	More Actions \vee	Show Task Status
〜 礎 Global	Authentication Template Virtual Networks Wireless SSIDs		

- d) Choose the SSID and assign an IP address pool.
- **Step 6** On the DHCP server, configure the DHCP Option 43 in the INFRA VN to point to the fabric wireless controller.
- **Step 7** On the traditional wireless controller GUI, select an AP and perform a factory-reset.
- **Step 8** Connect the AP to the fabric edge.

The AP gets the IP address from the INFRA VN and joins the fabric wireless controller.

Step 9 Check the Cisco DNA Center inventory to ensure that the AP is reachable and in a managed state. **Resync** the fabric wireless controller, if needed.

0 Global	All Routers Switches Wireless Controllers Access Points Sensors	82 🗄 Se 🛇
DEVICE WORK ITEMS	Devices (14) Focus: Select ~	Take a tour 🔥 Export 🚳
Unreachable	Q Click here to apply basic or advanced filters or view recently applied filters	∇
Unassigned	0 Selected Tag ⊕ Add Device Actions ∨ ①	As of: May 23, 2023 4:18 PM 📿
Failed Provision	Device Name IP Address Device Family MAC Address	Reachability (i) Manageability (i)
Non Compliant Outrigted Software Image	□	Reachable Managed

Step 10 Provision the AP.

- a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Inventory**.
- b) Select the AP that you want to provision.
- c) From the **Actions** drop-down list, choose **Provision** > **Provision Device**.
- d) Configure other required settings and click Deploy.

Step 11 Repeat Step 8 through Step 10 to migrate the remaining APs.

What to do next

Ensure that there are access tunnels for all the migrated APs on the fabric edge nodes and the APs are shown as fabric-enabled on the fabric wireless controller.

Ensure that the APs are broadcasting the fabric SSIDs. You can check the SSID status on the AP using the **run show dot11 wlan** command; the SSIDs must be in *up* state.

Scenario 2: Migrate Local Mode APs (managed by Cisco DNA Center)

In this scenario, APs belong to a traditional or OTT wireless controller that is managed by Cisco DNA Center. Migration involves deploying a new Cisco SD-Access fabric wireless controller using Cisco DNA Center and migrating the APs to the fabric wireless controller. This scenario assumes that APs are already part of the INFRA VN and connected to the fabric edge and are in **Local** mode (central switching).

Before you begin

Ensure that APs are connected to the fabric edge nodes.

In this scenario, since the traditional or OTT wireless controller is already managing the fabric site, you must create two buildings under the network hierarchy, one for the OTT wireless controller and the other for the fabric wireless controller. For example, *Building 1* for the OTT wireless controller and *Building 2* for the fabric wireless controller. These buildings are used temporarily during the migration process for provisioning the wireless controllers.

Procedure

- **Step 1** Create a network profile for the fabric network and assign it to the new site (*Building 2*) created for the fabric wireless controller.
 - a) In the Cisco DNA Center home page, click the menu icon and choose Design > Network Profiles.
 - b) Click Add Profile and choose Wireless.

				+ Add Profile		
Q Search Table				Assurance		
Profile Name *	Туре	Sites	Action	Firewall		
routing_profile	Routing	3	Edit Delete	Switching		
switch-profile	Switching	3	Edit Delete	Telemetry Appliance		
wireless	Wireless	3	Edit Delete	Wireless		
Records: 10 🗸 1 - 3 < ()						

- c) Enter a valid profile name in the **Profile Name** field.
- d) Click **Assign** to assign sites to the profile.

Choose the site (Building 2) created for the fabric wireless controller.

Network Pr	ofiles / Wireless				
Add	a Netwo	rk Profile			
Following 1. Defi 2. Defi 3. Defi	tasks must be co ne SSIDs, Interfa ne Templates in ' ne Model Config:	empleted before creating ce, RF Profiles and AP Templates Hub (options s (Optional) Model Con	ng a Wireless Net Profiles under Ne al) Templates Hub fig 🖒	work Profile. twork Settings & Wireless	Wireless 🖻
Profile Na	ame*				
Site: Assi	gn				
SSIDs	AP Zones	Model Configs	Templates	Advanced Settings	~

- e) Configure the other required details and click Save.
- Step 2
- Create SSIDs for the wireless fabric network and associate it to the fabric profile.
 - a) In the Cisco DNA Center home page, click the menu icon and choose **Design** > Network Settings.
 - b) Click the Wireless tab.
 - c) From the left hierarchy tree, choose Global.
 - d) In the SSID table, click the Add icon, and choose Enterprise.

Q Search Hierarchy	7	All / SSDs	
	Search Help	SSIDs	
V 🖓 Global		Configure SSIDs for enterprise and guest wireless networks. You can assign them to sites via Wireless Network	
> 🕸 San jose		Profiles.	
		SSID (0)	🕂 Add
		Q Search Table	Enterprise '
		Edit Delete 🛗 SSID Scheduler 🕦 0 Selected	Guest
		Network Name (SSID) 🔺 WLAN Profile Name Policy Profile Name SSID Type L2 Security L3 Security Wireless Profiles Portal Name	AAA Servers
		No data to display	

e) Configure the required settings.

Basic Settings

Fill the information like name, wirele	Fill the information like name, wireless options, state and network to complete the basic setup of SSID.					
🗋 Sensor 🛈						
Wireless Network Name (SSID)*	WLAN Profile Name*	Policy Profile Name	_0			
Radio Policy						
 2.4GHz 802.11b/g Policy 802.11bg ∨ 	2 5GHz only 2 6GHz ① Band Select ① 6 GHz Client Steering					
Quality of Service(QoS) ① Egress VoIP (Platinum)	orgress					
SSID STATE	Broadcast SSID					
Exit				Next		

f) Associate the SSID to the fabric profile.

Associate SSID to Profile

Select a Profile on the left or Add Profile and click 'Associate Profile' to associate the SSID to Profile.

	SSID Name: fabric ssid (En	nterprise)	
	Add Profile Search raja	O₂ Associate Profile Cencel Profile Name wineless WLAN Profile Name 0 fabric ssid_profile 0 fabric ssid_profile 0	
- Exit			Back Next

- g) Configure the other required details and click Save.
- Provision the fabric wireless controller.
 - Before provisioning, check if the OTT wireless controller has the new site (Building 2) created for the Note fabric wireless controller under managed locations. If it is, remove the site from the OTT wireless controller and reprovision it before adding the new site (Building 2) to the fabric wireless controller.
 - a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Inventory**.
 - b) Select the wireless controller that you want to provision.
 - c) From the Actions drop-down list, choose Provision > Provision Device.

Iobal		All Routers Sw	itches	Wireless Controllers Access F	Points Sensors		8 🗄 🖗 🛇
DEVICE WORK ITEMS	Devices (1) Focus: Default	~				Take a tour	슈 Export 🛛 🚳
Unreachable	Q Filter devices						∇
Unassigned	1 Selected Tag Add Device	e Actions ^ ①				As of:	May 19, 2023 1:04 PM
Failed Provision	Device Name	Inventory	>	ddress	Device Family	MAC Address	
Non Compliant		Software Image	>	7.7		NA	
Outdated Software Image		Provision	>	Assign Davice to Site			
No Golden Image		Telemetry	>	Assign Device to Site			
Failed Image Prechecks		Device Replacement	>	Provision Device			
Under Maintenance	<	Compliance	`	Configure WLC HA			
Security Advisories		Mara	ĺ,	Configure WLC Mobility			
Marked for Replacement		More		Manage LED Flash Status			

Use the Select Primary Managed AP Locations option and choose the new site (Building 2) created for the fabric controller.

Step 3

Network Devices / Provision Devic	Network Devices / Provision Devices						
1 Assign Site 2 C	configuration 3 Model Configuration	4 Advanced Configuration	5 Summary				
	Serial Number XYZ	Devices WLC	WLC Role Active Main WLC ①	Managed AP location(s) Relect Primary Managed AP Locations			
			O Anchor	🕸 Salact Secondary Managad AD Locations			

- d) Configure the other required settings and click **Deploy**.
- **Step 4** Add the fabric wireless controller to the fabric network.
 - a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Fabric Sites**.
 - b) Select the fabric site.
 - c) Click the Fabric Infrastructure tab.

Fabric Sites	Fabric Sites	Q. Find by device IP, type, role, family & MAC
EQ. Find Hierarchy	Fabric Infrastructure Host Onboarding	More Actions ~ Show Task Status
		Collapse All Custom Focus May 23, 2023 4:53 PM

- d) Choose the wireless controller that you want to add to the fabric network.
- e) In the Fabric window, click the Wireless toggle button and click Add.

Details	Fabric	Port Channel	Advisories	User Defined Fields	Interfaces	Virtual Ports	Wireless Info	Mor
	emove Fror	m Fabric						
Fabri	с							
w	Wireless							

The wireless controller is added to the fabric network.

- **Step 5** Assign an IP pool to the SSID.
 - a) In the Cisco DNA Center home page, click the menu icon and choose Provision > Fabric Sites.
 - b) Select the fabric site.
 - c) Click the Wireless SSIDs tab.

Fabric Sites	Fabric Sites		
= o Find Hinraroby			
EQ. Find Hierarchy	Fabric Infrastructure Host Onboarding	More Actions V	Show Task Status
	Authentication Template Virtual Networks Wireless SSIDs		

d) Choose the SSID and assign an IP address pool.

- **Step 6** On the DHCP server, configure the DHCP Option 43 in the INFRA VN to point to the fabric wireless controller.
- **Step 7** On the wireless controller GUI, select an AP and perform a factory-reset.

The AP reboots, gets the IP address from the INFRA VN, and joins the fabric wireless controller.

Step 8 Check the Cisco DNA Center inventory to ensure that the AP is reachable and in a managed state. **Resync** the fabric wireless controller, if needed.

0 Global	V All Routers Switches Wireless Controllers Access Points Sensors	♥ ➡ U
DEVICE WORK ITEMS	Devices (14) Focus: Select \vee	Take a tour 🏾 🛧 Export
 Unreachable 	Q Click here to apply basic or advanced filters or view recently applied filters	∇
Unassigned	0 Selected Tag ⊕ Add Device Actions ∨ ①	As of: May 23, 2023 4:18 PM 📿
Failed Provision	Device Name IP Address Device Family MAC Address	Reachability 🕕 Manageability 🕕
Non Compliant Outdated Software Image	AP 10.0.0.1	Reachable Managed

Step 9

Migrate the rest of the APs using the Cisco DNA Center **Configure Access Points** workflow.

- a) In the Cisco DNA Center home page, click the menu icon and choose **Workflows** > **Configure Access Points**.
- b) Click the Configure AP And Radio Parameters radio button and choose the Configure AP Parameters option.
- c) Configure fabric wireless controller as the primary controller and OTT wireless controller as the secondary controller.

Configure AP Parameters	3
Select parameters to configure. These param	eters will be applied to all the selected APs.
Admin Status	AP Failover Priority
Enable Disable	Select AP Failover Priority $\qquad \checkmark$
AP Mode ()	🔽 High Availability 🕕
Select AP Mode V	Select Primary Controller Name
AP Location ()	Q Bearch or Add Value +
Use currently assigned site location ()	5520-1

- d) Configure the other AP parameters, if needed, and complete the workflow.
- **Step 10** Log in to the fabric wireless controller GUI and make sure that AP has joined the wireless controller.
- **Step 11 Resync** the fabric and OTT wireless controllers on the Cisco DNA Center GUI.
- **Step 12** Provision the OTT wireless controller by removing the sites to be migrated and assigning the new site (*Building 1*) under managed AP locations.
- **Step 13** Assign the sites to be migrated in the fabric profile.
- **Step 14** Provision the fabric wireless controller by adding the sites to be migrated and removing the new site (*Building 2*) from the managed AP locations.
- **Step 15** Provision the migrated APs.
 - a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Inventory**.
 - b) Select the AP that you want to provision.
 - c) From the Actions drop-down list, choose Provision > Provision Device.
 - d) Configure the required settings and click Deploy.

Ensure that the APs have the correct site tag, RF tag, and policy tag.

- **Step 16** Use the above procedure for migrating additional sites, if required.
- **Step 17** After migrating all the sites under the OTT wireless controller, remove the OTT wireless controller from Cisco DNA Center and delete the temporary sites that were created (*Building 1* and *Building 2*).

What to do next

Ensure that there are access tunnels for all the fabric APs on the fabric edge nodes and the APs are shown as fabric-enabled on the fabric wireless controller.

Ensure that the APs are broadcasting the fabric SSIDs. You can check the SSID status on the AP using the **run show dot11 wlan** command; the SSIDs must be in *up* state.

Scenario 3: Migrate Flex Mode APs (managed by Cisco DNA Center)

In this scenario, APs belong to a traditional or OTT wireless controller that is managed by Cisco DNA Center. Migration involves deploying a new Cisco SD-Access fabric wireless controller using Cisco DNA Center and migrating the APs to the fabric wireless controller. This scenario assumes that APs are already part of the INFRA VN and connected to the fabric edge and are in **FlexConnect** mode (local switching).

Before you begin

Ensure that APs are connected to the fabric edge nodes.

In this scenario, since the traditional or OTT wireless controller is already managing the fabric site, you must create two buildings under the network hierarchy, one for the OTT wireless controller and the other for the fabric wireless controller. For example, *Building 1* for the OTT wireless controller and *Building 2* for the fabric wireless controller. These buildings are used temporarily during the migration process for provisioning the wireless controllers.

Procedure

Step 1 Create a network profile for the fabric network and assign it to the new site (*Building 2*) created for the fabric wireless controller.

- a) In the Cisco DNA Center home page, click the menu icon and choose Design > Network Profiles.
- b) Click Add Profile and choose Wireless.

				+ Add Profile
Q Search Table				Assurance
Profile Name *	Туре	Sites	Action	Firewall
routing_profile	Routing	3	Edit Delete	Switching
switch-profile	Switching	3	Edit Delete	Telemetry Appliance
wireless	Wireless	3	Edit Delete	Wireless
3 Record(s)			Show Rec	ords: 10 🗸 1 - 3 🧹 🚺 >

- c) Enter a valid profile name in the **Profile Name** field.
- d) Click Assign to assign sites to the profile.

Choose the site (Building 2) created for the fabric wireless controller.

Network Pro	ofiles / Wireless			
Add a	a Netwoi	rk Profile		
Following 1. Defi 2. Defi 3. Defi	tasks must be co ne SSIDs, Interfao ne Templates in 1 ne Model Configs	mpleted before creatin ce, RF Profiles and AP "emplates Hub (optiona i (Optional) Model Conf	ng a Wireless Netw Profiles under Ne al) Templates Hub I ing 🖒	vork Profile. twork Settings & Wireless Wireless 단 것 것
Profile Na	me*			
Site: Assig	jn			
SSIDs	AP Zones	Model Configs	Templates	Advanced Settings \checkmark

- e) Configure the other required details and click Save.
- Step 2
- Create SSIDs for the wireless fabric network and associate it to the fabric profile.
 - a) In the Cisco DNA Center home page, click the menu icon and choose **Design** > **Network Settings**.
 - b) Click the Wireless tab.
 - c) From the left hierarchy tree, choose Global.
 - d) In the SSID table, click the Add icon, and choose Enterprise.

Q Search Hierarchy		All / SSDs						
	Search Help	SSIDs						
V V Global		Configure SSIDs for enterprise and guest wireless networks. You can assign them to sites via Wireless Network						
> ## San jose		Profiles.						
		SSID (0)	+ Add					
		Q Search Table	Enterprise '					
		Edit Delete 🛗 SSID Scheduler () 0 Selected	Guest					
		Network Name (SSID) A WLAN Profile Name Policy Profile Name SSID Type L2 Security L3 Security Wireless Profiles Portal Name	AAA Servers					
		No data to display						

e) Configure the required settings.

Basic Settings

Fill the information like name, wirele	ess options, state and network to complete the basic setup c	f SSID.		
🗋 Sensor 🕠				
Wireless Network Name (SSID)*	WLAN Profile Name*	Policy Profile Name	0	
Radio Policy				
2.4GHz	SGHz only			
802.11b/g Policy 802.11bg V	Band Select () G GHz Client Steering			
Quality of Service(QoS) 🕕				
Egress	Ingress			
VoIP (Platinum)	VolP (Platinum) Up			
SSID STATE				
Admin Status	Broadcast SSID			
t				Next
				INEXT

f) Associate the SSID to the fabric profile.

Associate SSID to Profile

Select a Profile on the left or Add Profile and click 'Associate Profile' to associate the SSID to Profile.

	SSID Name: fabric ssid (En	nterprise)	
	Add Profile Add Profile Add Profile Taja	Og Associate Profile Cancel Profile Name Policy Profile Name Tabric sold_profile ① Fabric Sold_profile Image: Sold_profile ①	
Exit			Back Next

- g) Configure the other required details and click Save.
- Provision the fabric wireless controller.
 - Before provisioning, check if the OTT wireless controller has the new site (Building 2) created for the Note fabric wireless controller under managed locations. If it is, remove the site from the OTT wireless controller and reprovision it before adding the new site (Building 2) to the fabric wireless controller.
 - a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Inventory**.
 - b) Select the wireless controller that you want to provision.
 - c) From the Actions drop-down list, choose Provision > Provision Device.

0 Global		All Routers Sw	itches	Wireless Controllers Access F	Points Sensors		8 🗄 🗞 🛇
DEVICE WORK ITEMS	Devices (1) Focus: Default >	(Take a tour	🛆 Export 🛛 🚳
Unreachable	Q Filter devices						∇
Unassigned	1 Selected Tag 🕀 Add Device	Actions \land ①				As of:	May 19, 2023 1:04 PM 🤤
Failed Provision	Device Name	Inventory	>	ddress	Device Family	MAC Address	
Non Compliant		Software Image	>	7.7		NA	
Outdated Software Image		Provision	>	Assign Device to Site			
No Golden Image		Telemetry	>	Assign Device to site			
Failed Image Prechecks		Device Replacement	>	Provision Device			
Under Maintenance	<	Compliance	>	Configure WLC HA			
Security Advisories		More		Configure WLC Mobility			
Marked for Replacement			Ĺ	Manage LED Flash Status			

Use the Select Primary Managed AP Locations option and choose the new site (Building 2) created for the fabric controller.

Step 3

Network Devices / Provision Devic	es			
1 Assign Site 2	Configuration 3 Model Configuration	4 Advanced Configuration	5 Summary	
	Serial Number	Devices	WLC Role	Managed AP location(s)
	XYZ	WLC	Active Main WLC ①	Select Primary Managed AP Locations
			O Anchor	A Salact Sacondan Managad AD Locations

- d) Configure the other required settings and click **Deploy**.
- **Step 4** Add the fabric wireless controller to the fabric network.
 - a) In the Cisco DNA Center home page, click the menu icon and choose Provision > Fabric Sites.
 - b) Select the fabric site.
 - c) Click the Fabric Infrastructure tab.

Fabric Sites	Fabric Sites	Q. Find by device IP, type, role, family & MAC
EQ. Find Hierarchy	Fabric Infrastructure Host Onboarding	More Actions ~ Show Task Status
		Collapse All Custom Focus May 23, 2023 4:53 PM

- d) Choose the wireless controller that you want to add to the fabric network.
- e) In the Fabric window, click the Wireless toggle button and click Add.

Details	Fabric	Port Channel	Advisories	User Defined Fields	Interfaces	Virtual Ports	Wireless Info	Mor
	emove Fror	m Fabric						
Fabri	с							
w	Wireless							

The wireless controller is added to the fabric network.

- **Step 5** Assign an IP pool to the SSID.
 - a) In the Cisco DNA Center home page, click the menu icon and choose Provision > Fabric Sites.
 - b) Select the fabric site.
 - c) Click the Wireless SSIDs tab.

Fab	ric Sites	Fabric Sites		
	 Eind Hierarchy 			
	Q This heraichy	Fabric Infrastructure Host Onboarding	More Actions V	Show Task Status
		Authentication Template Virtual Networks Wireless SSIDs		

d) Choose the SSID and assign an IP address pool.

- **Step 6** On the DHCP server, configure the DHCP Option 43 in the INFRA VN to point to the fabric wireless controller.
- **Step 7** On the wireless controller GUI, select an AP and perform a factory-reset.
- **Step 8** Set the AP switchport to default value using the **default int** <> command on the switch.

The AP reboots, gets the IP address from the INFRA VN, and joins the fabric wireless controller.

Step 9 Check the Cisco DNA Center inventory to ensure that the AP is reachable and in a managed state. **Resync** the fabric wireless controller, if needed.

0 Global		Routers Switches Wireless C	ontrollers Access Points Sensors	0 ≪ ≣ %
DEVICE WORK ITEMS	Devices (14) Focus: Select V			Take a tour 🌰 Export 🔯
Unreachable	Q Click here to apply basic or advanced filters of	view recently applied filters		∇
Unassigned	0 Selected Tag 🕀 Add Device Actions ~	0		As of: May 23, 2023 4:18 PM 🦪
Failed Provision	Device Name	IP Address	Device Family MAC Addres	s Reachability 🕦 Manageability 🕦
 Non Compliant Outdated Software Image 	□	10.0.0.1		Reachable Managed

Step 10

- Migrate the rest of the APs using the Cisco DNA Center **Configure Access Points** workflow.
 - a) In the Cisco DNA Center home page, click the menu icon and choose Workflows > Configure Access Points.
 - b) Click the Configure AP And Radio Parameters radio button and choose the Configure AP Parameters option.
 - c) Configure fabric wireless controller as the primary controller and OTT wireless controller as the secondary controller.

Configure AP Parameters		
Select parameters to configure. These parameters will	I be applied to all the selected APs.	
Admin Status	AP Failover Priority	
Enable Disable	Select AP Failover Priority	\sim
AP Mode 🕕		
	High Availability 1	
Select AP Mode V	Select Primary Controller Name	
	Inherit from site / Clear	^
AP Location (i)	Q Search or Add Value	+
Use currently assigned site location ()	5520-1	
	5520-2	

- d) Configure the other AP parameters, if needed, and complete the workflow.
- **Step 11** Set the AP switchports to default values.

For bulk configurations, use Cisco DNA Center templates.

- **Step 12** Log in to the fabric wireless controller GUI and make sure that AP has joined the wireless controller.
- **Step 13 Resync** the fabric and OTT wireless controllers on the Cisco DNA Center GUI.
- **Step 14** Provision the OTT wireless controller by removing the sites to be migrated and assigning the new site (*Building 1*) under managed AP locations.
- **Step 15** Assign the sites to be migrated in the fabric profile.
- **Step 16** Provision the fabric wireless controller by adding the sites to be migrated and removing the new site (*Building 2*) from the managed AP locations.
- **Step 17** Provision the migrated APs.
 - a) In the Cisco DNA Center home page, click the menu icon and choose **Provision** > **Inventory**.

- b) Select the AP that you want to provision.
- c) From the Actions drop-down list, choose Provision > Provision Device.
- d) Choose a floor and configure other required settings.

1 Assign Site (2) Configur	ration (3) Summary		
Serial Number ABC	Devices	நீழ் Choose a floor	

e) Click Deploy.

Ensure that the APs have the correct site tag, RF tag, and policy tag.

- **Step 18** Use the above procedure for migrating additional sites, if required.
- **Step 19** After migrating all the sites under the OTT wireless controller, remove the OTT wireless controller from Cisco DNA Center and delete the temporary sites that were created (*Building 1* and *Building 2*).
- **Step 20** Remove the **VLANS** that are not needed from all the fabric edges.

You can use Cisco DNA Center templates for this task.

What to do next

Ensure that there are access tunnels for all the fabric APs on the fabric edge nodes and the APs are shown as fabric-enabled on the fabric wireless controller.

Ensure that the APs are broadcasting the fabric SSIDs. You can check the SSID status on the AP using the **run show dot11 wlan** command; the SSIDs must be in *up* state.

Cancel Next

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