

使用Catalyst Center上的接入點刷新功能

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簡介

本文檔介紹Cisco Catalyst Center中的「接入點更新」工作流程，以使用最新一代接入點替換較舊的AP。

說明

此工作流程通過將配置和資訊從替換的舊接入點自動複製到新接入點來協助網路管理員。刷新後，這些詳細資訊將傳輸到新的AP，因此網路管理員不必手動配置這些詳細資訊，從而減少了停機時間：

- AP名稱
- AP位置
- AP模式 (僅限本地和Flex)
- 接入點WLC高可用性配置 — 主、輔和第三無線控制器名稱和IP配置，AP故障切換優先順序
- AP標籤配置 (策略標籤、站點標籤和RF標籤)。使用AireOS時的AP組
- AP LED狀態、AP LED亮度級別
- 接入點地圖位置
- AP天線的方位和俯仰角

此工作流程支援各種部署型別，包括使用意圖調配的無線自動化、僅保證、無線每裝置配置或園區自動化，以及SD訪問無線。每個工作流程最多可以刷新250個AP。可建立的工作流數量沒有限制

需求

思科建議您瞭解以下主題

- Catalyst 9800無線控制器和存取點
- Catalyst Center無線自動化和布建
- Cisco AP即插即用(PnP)
- Catalyst Center保證部署
- Catalyst Center每裝置配置

採用元件

- Catalyst中心版本2.3.7.10
- 執行Cisco IOS® XE版本17.15.3的Catalyst 9800無線控制器
- 思科無線存取器

何時使用接入點刷新工作流程中的每種使用情形

從較高層面看，接入點刷新工作流程有兩個主要使用案例：自動化和保證。

- 自動化使用案例：適用於SD-Access(SDA)和非SDA環境中使用Catalyst Center的基於目的的自動化進行調配或準備調配的AP。
- 保證使用案例：適用於Catalyst Center專門用於保證和/或按裝置配置的部署，無需通過Catalyst Center調配AP。

此表總結了各種使用案例中支援的功能

當前方案	遷移到	支援
AireOS (保證)	C9800 (自動化)	支援

AireOS (保證)	C9800 (保證)	未來支援
AireOS (自動化)	C9800 (自動化)	支援
AireOS (自動化)	C9800 (保證)	未來支援
C9800 (保證)	C9800 (保證)	支援*
C9800 (自動化)	C9800 (自動化)	支援

*在同一個無線控制器內



附註：在這種情況下，「自動化」包括基於目的的網路(IBN)和軟體定義訪問(SDA)。

AP更新的高級步驟：成功完成AP刷新包括以下4個步驟：

1. 在Cisco Catalyst Center上建立AP刷新工作流任務
2. 從物理上斷開舊AP與網路的連線。
3. 物理連線網路中的新AP。
4. 通過WLC清單同步或Cisco Catalyst Center中的AP即插即用來載入新AP

附註：工作流程建立和物理AP連線/斷開的順序是靈活的。但是，要成功完成，舊AP必須在Catalyst Center清單中標籤為不可達，且新AP必須可達（在加入WLC後的清單中或在「即插即用」頁面上，即可申請）。對於「即插即用」，新的AP已經可用並準備進行申請，或者必須在建立和提交AP刷新工作流任務後稍後到達。

自動化使用案例

當使用基於目的的自動化結構（例如網路設定、無線設定、網路配置檔案和受管AP位置）從Catalyst中心設計和配置無線網路時，此選項適用。它可用於以下情形：

- 當舊無線接入點和新無線接入點都應連線到同一無線控制器時。
- 舊無線接入點與一個Catalyst 9800無線控制器關聯時（無論它是否由Catalyst Center調配），新無線接入點預計會加入不同的Catalyst 9800無線控制器。
- 舊無線接入點與AireOS控制器關聯時（無論它是否由Catalyst Center調配），新無線接入點應加入不同的Catalyst 9800無線控制器。

- 使用即插即用(PnP)工作流程加入新AP時。

保證使用案例

當直接通過無線控制器WEBUI/CLI或使用Catalyst Center中的「按裝置配置」設計和配置無線網路時，此選項適用。

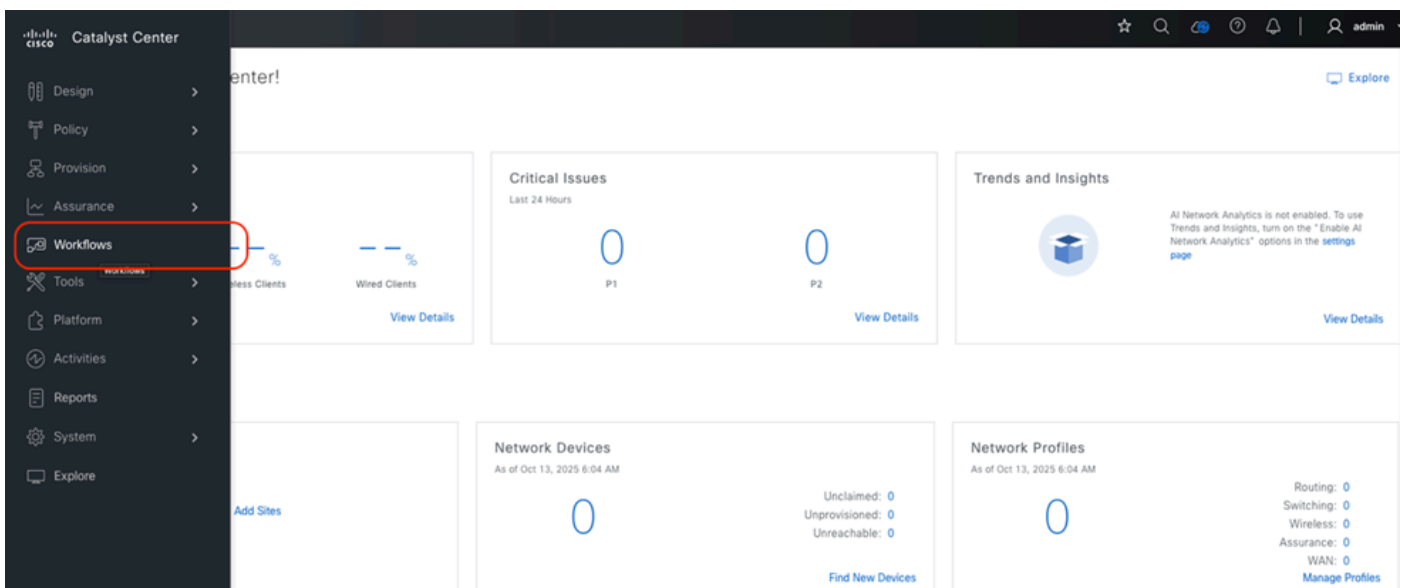
在Catalyst 9800無線控制器上，可以使用靜態、位置、過濾器或AP等來源為AP配置標籤。使用保證使用案例執行AP刷新時，標籤設定將複製到新AP。如果標籤源為「位置」或「AP」，Catalyst Center會在刷新後為無線控制器上的新AP建立靜態標籤對映。

使用保證使用案例的AP刷新不支援以下功能：

- 當新AP未與存在舊AP的無線控制器關聯時。
- 使用即插即用(PnP)工作流程加入新AP時。

使用AP刷新工作流的步驟

啟動工作流：從工作流庫（通過左上角的「漢堡」選單訪問）。



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Configure Cisco UDN Configure Cisco User Defined Network which enables users to define their own personal network in a shared Wireless network. Wireless	Site to Site VPN Create VPN configuration between two sites. Wired	Replace Device Replace your device in a few quick easy steps. Wired Wireless	Switch Refresh Refresh network devices at your sites with new models. Wired	Access Point Refresh Replace Your Access Points with New Ones. Wireless	Smart License Compliance Explore capabilities for Smart License Enabled devices.
Configure REP Ring (Non-Fabric) Configure a REP Ring to enable redundancy on the Extended Nodes.	Configure REP Ring (Fabric) Configure a REP Ring to enable redundancy on the Extended Nodes.	Create a User Role Create a custom role that fits your organizational needs.	Configure Access Points Configure AP and Radio Parameters. Wireless	Configure RLAN Configure Remote LAN Ports on Access Points. Wireless	Configure AI-Enhanced RRM Deploy AI-Enhanced RRM with or without provisioning your wireless controllers and access points.



注意：請勿使用「更換裝置」工作流程刷新AP。此工作流程僅適用於通過RMA更換裝置，新AP必須具有與舊AP完全相同的產品ID(PID)。

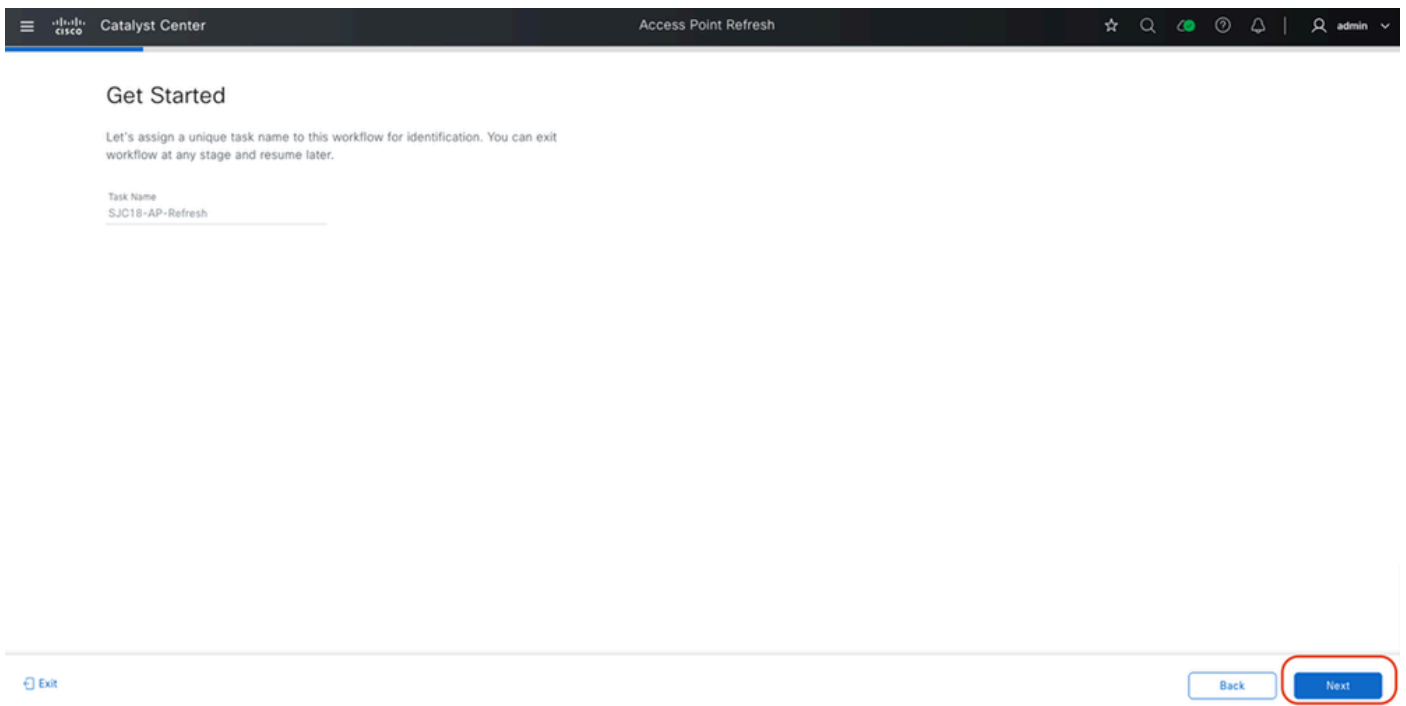
檢視先決條件：仔細閱讀「開始之前」部分，瞭解先決條件、部署型別以及如何選擇正確的選項。審閱後，按一下「下一步」。

- 序列號：除非使用「同一交換機埠」選項，否則必須使用。
- 舊AP狀態：必須由Catalyst Center管理或分配給樓層。
- 新AP狀態：必須取消分配給任何樓層；它繼承舊的AP位置。
- 連線：除非當前將新AP新增到網路，否則在新AP註冊和檢測期間，舊AP必須無法訪問。
- 憑據：驗證Catalyst Center中是否配置了CCO憑證。

詳細資訊概述在Cisco Catalyst Center的工作流程步驟中



- 提供任務名稱：輸入任務名稱以供將來參考，然後按一下「下一步」。



- 選擇部署型別：根據需要選擇「自動化使用案例」或「保障使用案例」，然後按一下「下一步」。

Select Your Scenario

Please select the use case for your approach:

Automation Use Case

APs will be provisioned in this scenario

Assurance Use Case

APs will not be provisioned in this scenario and only the old configuration will be copied

Before you begin

- Serial number of the new AP should be available. If auto detect is enabled, in the next step, this will be automatically pre-populated and mapped to the old AP.
- Old AP should be assigned to a floor.
- Old AP should be in unreachable state for the AP Refresh Workflow to be completed successfully. However, if the new AP is being onboarded later then this restriction is not applicable.
- New AP should not be assigned to any floor.
- The floors where AP refresh is being done, should be Managed by a Wireless Controller, as one of it's managed AP locations.
- If the Auto Detect option is selected, the new AP cannot be refreshed through PNP unless its serial number is entered manually.

- 選取 AP:在左窗格中，選擇將要更換AP的樓層。從表中選擇特定AP，然後按一下「下一步」

Select Access Points

Select the APs you want to replace. You can select up to 250 APs in a single workflow. This workflow does provision of new APs, so please make sure the locations of selected APs in this workflow are provisioned with Wireless Controller from Catalyst Center.

Search Hierarchy

- Global (2)
- BGL
- SJC
 - SJC4
 - SJC11
 - SJC12
 - SJC13
 - SJC14
 - SJC15
 - SJC16
 - SJC17
 - SJC18
 - Floor-1
 - Floor-2
 - Floor-3
 - Floor-4
 - SJC19

Access Points (7) Export

Click here to apply basic or advanced filters or view recently applied filters

2 Selected As of: Sep 13, 2025 12:12 PM

Device Name	IP Address	Platform	Serial Number	Reachability	Provisioning Status	Base Radio MAC Address	Site	Series
<input type="checkbox"/> SJC18-F1-AP0864	9.60.79.106	C9105AXI-B	PSZ24291P2Y	Reachable	Provisioned	3c:41:0e:3b:8b:20	..SJC/SJC18	Cisco Catalyst 9105AXI Series Unified
<input checked="" type="checkbox"/> SJC18-F1-AP8F34	9.60.79.105	AIR-AP4800-B-K9	FCW2233NHEL	Reachable	Provisioned	f4:db:e6:44:e7:e0	..SJC/SJC18	Cisco 4800 Series Unified Access Poin
<input type="checkbox"/> SJC18-F1-AP265C	9.60.45.128	C9105AXI-B	PSZ26141CS1	Reachable	Provisioned	00:df:1d:87:6b:a0	..SJC/SJC18	Cisco Catalyst 9105AXI Series Unified
<input type="checkbox"/> SJC18-F1-AP2704	9.60.45.127	C9105AXW-B	PSZ26141EJC	Reachable	Provisioned	00:df:1d:87:70:e0	..SJC/SJC18	Cisco Catalyst 9105AXW Series Unifict
<input type="checkbox"/> SJC18-F1-AP9414	9.60.79.103	C9124AXE-B	FOC25028JE5	Reachable	Provisioned	4c:a6:4d:22:ee:20	..SJC/SJC18	Cisco Catalyst 9124AXE Series Unified
<input checked="" type="checkbox"/> SJC18-F2-AP354E	9.60.45.131	AIR-AP2802I-B-K9	FDW2142D147	Reachable	Provisioned	70:70:8b:85:e5:70	..SJC/SJC18	Cisco 2800I Series Unified Access Poin
<input type="checkbox"/> SJC18-F2-AP406C	9.60.45.108	C9120AXP-B	0	Reachable	Provisioned	a0:0f:37:05:10:c0	..SJC/SJC18	Cisco Catalyst 9120AXP Series Unified

Exit
Back
Next

分配AP對映：將舊AP對映到新AP，然後按一下「下一步」。新的AP可以通過多種方式對映到舊的AP：

Assign New APs to Old APs

You have selected 2 Old APs for refresh. Assign New AP for each Old one. If New AP(s) is already connected, it will be detected in Catalyst Center either through WLC inventory or PnP based on the existing configuration. If New AP is not yet connected, provide the Serial Number of those New APs against each Old AP.

You can also download the Old APs list in CSV format, provide the details of the New AP against each Old AP and Upload it.

Would you like to auto detect your APs based on Switch Port **NEW**

ACCESS POINTS (2)

Search Table

Upload CSV Download CSV 2 Selected Delete

Old Devices				New Devices			
Device Name	Platform	Site	Edit	Device Name*	Platform	Serial Number*	CDP Neighbour
SJC18-F1-AP8F34 9.60.79.105 FCW2233NHEL	AIR-AP4800-B-K9 Cisco 4800 Series ...	...SJC/SJC18		SJC18-F1-AP8F34			Switch: SW-PRITHVI-PRIME-OO10-PRI-2 Port: GigabitEthernet1/0/1
SJC18-F2-AP354E 9.60.45.131 FDW2142D147	AIR-AP2802I-B-K9 Cisco 2800I Series ...	...SJC/SJC18		SJC18-F2-AP354E			Switch: SW-PRITHVI-PRIME-OO6-PRI-2 Port: GigabitEthernet1/0/34

- 手動：按一下「編輯」按鈕並輸入序列號。
- 如果新的AP已經在Catalyst Center庫存或即插即用中，請手動輸入序列號或從下拉選單中進行選擇。
- 「新AP名稱」欄位是可選的，可用於更新新裝置的AP名稱。

Assign New APs to Old APs

You have selected 2 Old APs for refresh. Assign New AP for each Old one. If New AP(s) is already connected, it will be detected in Catalyst Center either through WLC inventory or PnP based on the existing configuration. If New AP is not yet connected, provide the Serial Number of those New APs against each Old AP.

You can also download the Old APs list in CSV format, provide the details of the New AP against each Old AP and Upload it.

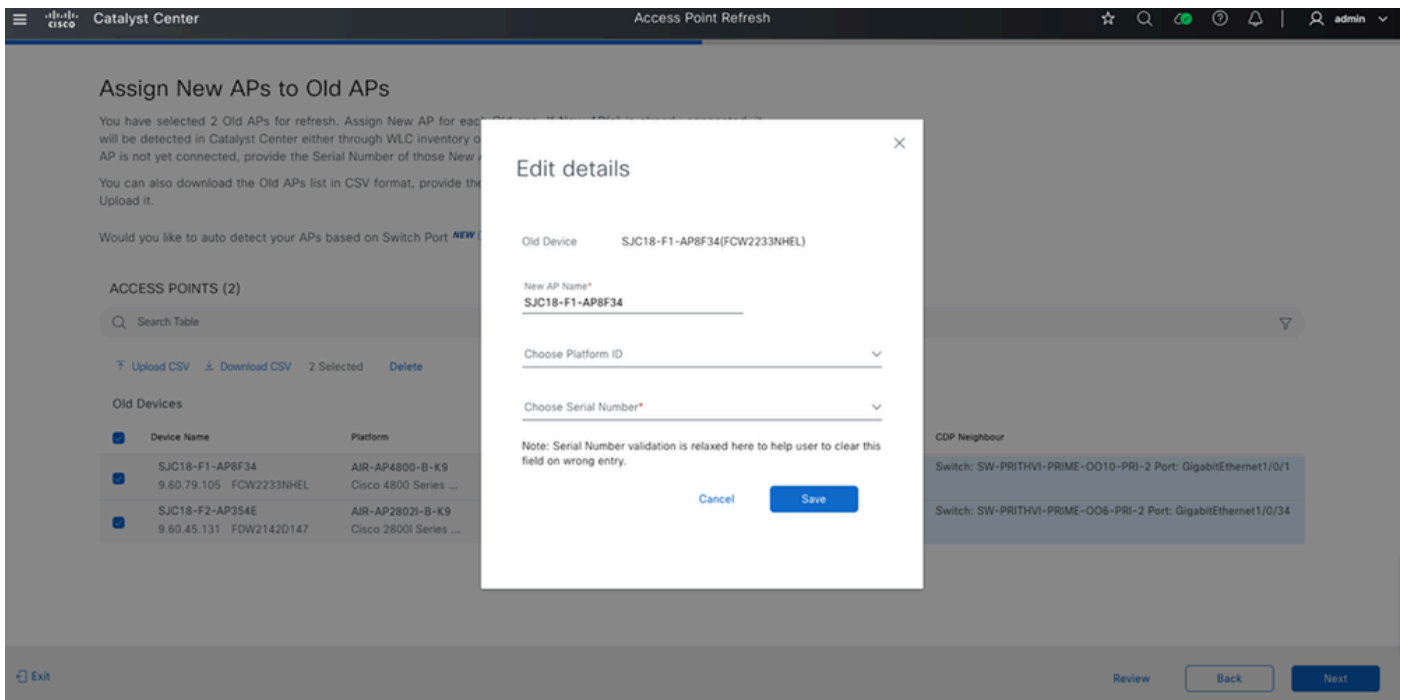
Would you like to auto detect your APs based on Switch Port **NEW**

ACCESS POINTS (2)

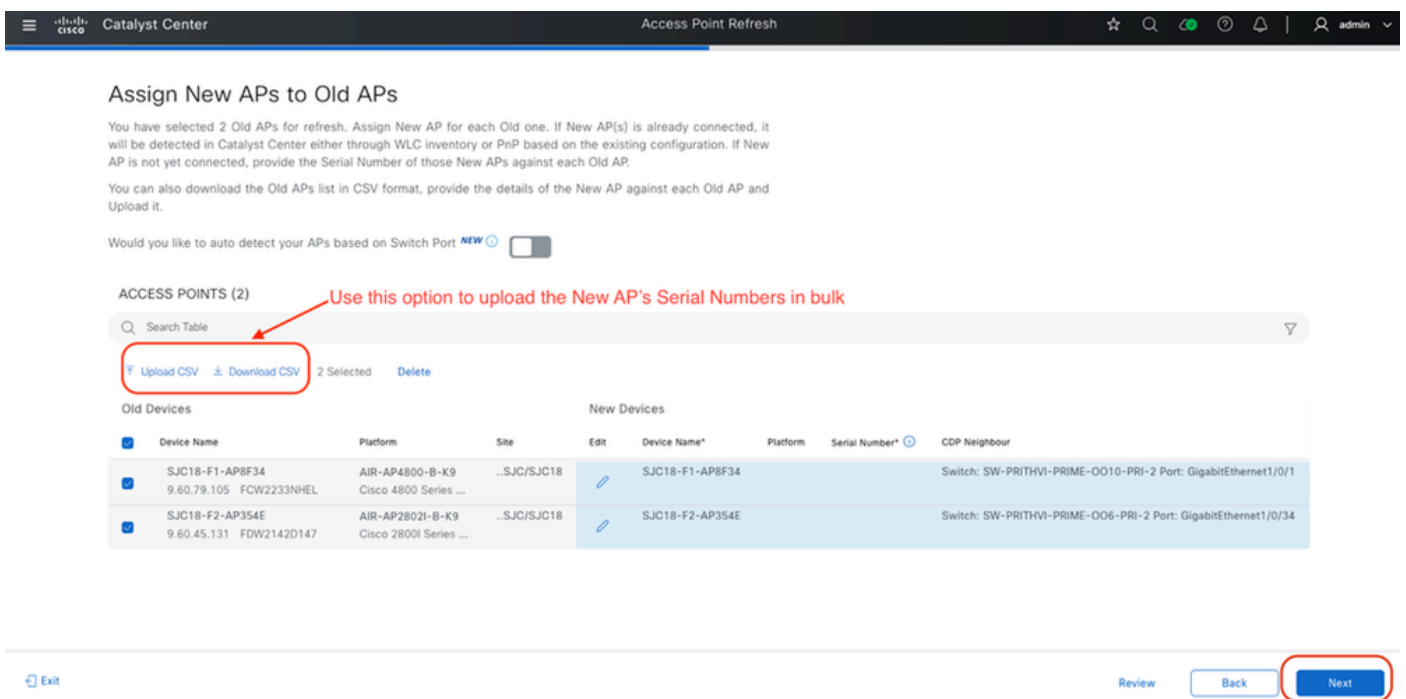
Search Table

Upload CSV Download CSV 2 Selected Delete

Old Devices				New Devices			
Device Name	Platform	Site	Edit	Device Name*	Platform	Serial Number*	CDP Neighbour
SJC18-F1-AP8F34 9.60.79.105 FCW2233NHEL	AIR-AP4800-B-K9 Cisco 4800 Series ...	...SJC/SJC18		SJC18-F1-AP8F34			Switch: SW-PRITHVI-PRIME-OO10-PRI-2 Port: GigabitEthernet1/0/1
SJC18-F2-AP354E 9.60.45.131 FDW2142D147	AIR-AP2802I-B-K9 Cisco 2800I Series ...	...SJC/SJC18		SJC18-F2-AP354E			Switch: SW-PRITHVI-PRIME-OO6-PRI-2 Port: GigabitEthernet1/0/34



- 使用CSV:下載CSV，更新並上傳CSV。



replacment-device-1757745786153

Home Insert Draw Page Layout Formulas Data Review View Automate

Paste Apts Narrow (Bod... 12 A A

Conditional Formatting Format as Table Cell Styles

Cells Editing

Possible Data Loss Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Ex

D13

	A	B	C	D	E	F	G	H	I	J
1	Old Device Name	Site Name	Old Device Platform	Old Serial Number	New Device Name	(* New Serial Number				
2	SJC18-F1-AP8F34	Global/SJC/SJC18/Floor-1	AIR-AP4800-B-K9	FCW2233NHEL	SJC18-F1-AP8F34					
3	SJC18-F2-AP354E	Global/SJC/SJC18/Floor-2	AIR-AP2802I-B-K9	FDW2142D147	SJC18-F2-AP354E					
4										
5										
6										

Update New AP's Serial Number and New AP name (optional) and upload

- 自動檢測：啟用「自動檢測」。Catalyst Center通過將新AP的CDP鄰居資訊與舊AP的CDP鄰居資訊進行比較，來識別新的接入點序列號，前提是新AP與舊AP連線到同一交換機埠。



警告：自動檢測對通過PnP入網的AP不起作用。

Catalyst Center Access Point Refresh

Assign New APs to Old APs

You have selected 2 Old APs for refresh. Assign New AP for each Old one. If New AP(s) is already connected, it will be detected in Catalyst Center either through WLC inventory or PnP based on the existing configuration. If New AP is not yet connected, provide the Serial Number of those New APs against each Old AP.

You can also download the Old APs list in CSV format, provide the details of the New AP against each Old AP and Upload it.

Would you like to auto detect your APs based on Switch Port **NEW**

ACCESS POINTS (2)

Search Table

Upload CSV Download CSV 2 Selected Delete

Old Devices				New Devices			
Device Name	Platform	Site	Edit	Device Name*	Platform	Serial Number*	CDP Neighbour
SJC18-F1-AP8F34 9.60.79.105	AIR-AP4800-B-K9 Cisco 4800 Series ...	..SJC/SJC18		SJC18-F1-AP8F34			Switch: SW-PRITHVI-PRIME-0010-PRI-2 Port: GigabitEthernet1/0/1
SJC18-F2-AP354E 9.60.45.131	AIR-AP2802I-B-K9 Cisco 2800I Series ...	..SJC/SJC18		SJC18-F2-AP354E			Switch: SW-PRITHVI-PRIME-006-PRI-2 Port: GigabitEthernet1/0/34

Exit Review Back **Next**

- 檢視配置：檢視正在複製的配置，然後按一下「下一步」。

Configuration to Be Copied from Old APs to New

Below configuration will be copied from Old AP to New AP as applicable. User can change the supported parameters later, through AP provisioning or "Configure Access Points" workflow.

You have **2 Old APs** to be refreshed with New APs

2 of 2 Old APs are "Provisioned" using Catalyst Center

Location Configuration

AP Location, Position on Floor Map, Antenna Angle Parameters (Azimuth and Elevation as applicable) will be copied from Old APs.

WLC/AP Configuration

AireOS WLCs - AP Name, AP Mode, AP Groups including RF Profiles, FlexConnect Groups, Primary/Secondary Controller, AP Failover Priority, AP Admin status, AP LED Status & Brightness level.

Cisco Catalyst 9800 Series WLCs - AP Name, AP Mode, Policy Tags, Site Tags, RF Tags, Beam State, Flex Profiles, Primary/Secondary Controller, AP Failover Priority, AP Admin status, AP Geolocation Parameters, AP LED Status & Brightness level.

Preview Configurations

Note: The following AP attributes are not copied from the old AP to the new AP: AP Modes - Monitor, Sniffer, Bridge, Flex+Bridge, Radio level attributes. These can be configured on the APs using the "Configure Access Points" workflow once the AP Refresh is done.

The screenshot shows the 'Config Preview' dialog box with the following content:

- Catalyst 9800 AP** / **Aireos AP**
- AP Name**
ap name <Old-AP-Name> name <New-AP-Name>
- AP Location**
ap name <AP-Name> location <Location-Name>
- Policy Tags, Site Tags and RF Tags**
ap <AP-MAC-Address>
policy-tag <Policy-Tag-Name>
site-tag <Site-Tag-Name>
rf-tag <RF-Tag-Name>
- Primary and Secondary Controller Configuration (Only applicable when the AP is managed by Primary and Secondary controller)**
ap name <AP-Name> controller primary <Primary-Controller-Name> <Primary-Controller-IPv4-Address>
ap name <AP-Name> controller secondary <Secondary-Controller-Name> <Secondary-Controller-IPv4-Address>
- AP Failover Priority**
ap name <AP-Name> priority <AP Failover priority>
- Admin Status**
ap name <AP-Name> <Admin Status>
- AP LED Status & Brightness level**
ap name <AP-Name> <AP Led Status>
ap name <AP-Name> led-brightness-level <AP Led Brightness Level>

- 計畫任務：選擇是立即運行該任務還是將其安排為以後運行。
- 現在：在檢視摘要後立即建立任務。只有在舊AP斷開連線且無法訪問，並且新AP在Catalyst Center清單或「即插即用」頁面中連線且可以訪問之後，刷新才會繼續。
- 稍後：允許您為將來安排任務。即使斷開舊無線接入點連線，並且連線了新無線接入點，刷新也僅在計畫時間運行，從而提供了更好的控制。
- 提交工作流：檢視摘要。準備就緒後，按一下「調配」以提交AP刷新工作流任務。

Schedule Access Point Refresh Task

Great! You have provided all the required details for replacing the Old APs with New.

We are now ready to submit the AP Refresh task. If the New AP is already connected and the Old AP is unreachable then the New AP will be configured with the Old AP configuration. If the New AP is not yet connected, then as and when the New AP is connected and if the Old AP is unreachable, replacement will happen automatically. Check "View Details" in summary page for the latest status and follow any instructions as needed.

Now Later

Task Name*
SJC18-AP-Refresh

Summary

Review details before submitting the task.

Task Name

SJC18-AP-Refresh

Type of Scenario [Edit](#)

Automation use case

Access Points [Edit](#)

Search Table

Old Devices			New Devices		
Device Name	Platform	Site	Device Name	Platform	Serial Number
SJC18-F1-APBF34 9.60.79.105 FCW2233NHEL	AIR-AP4800-B-K9 Cisco 4800 Series ...	Global/SJC/SJC18/Floor-1	SJC18-F1-APBF34		KWC26040ESM
SJC18-F2-AP354E 9.60.45.131 FDW21420147	AIR-AP2802i-B-K9 Cisco 2800i Series ...	Global/SJC/SJC18/Floor-2	SJC18-F2-AP354E		KWC260703P8

2 Record(s) Show Records: 10 1 - 2

Configuration to be copied from Old APs to New [View](#)

Location Configuration

AP Location, Position on Floor Map, Antenna Angle Parameters (Azimuth and Elevation as applicable) will be copied from Old APs.

WLC/AP Configuration

- 跟蹤狀態：跟蹤此頁上的更換狀態。在Catalyst Center中發現新AP (通過WLC清單同步或AP PnP) 之前，接入點始終處於掛起狀態。

Catalyst Center Access Point Refresh

Automation use case

Access Points [Edit](#)

Search Table

Old Devices			New Devices		
Device Name	Platform	Site	Device Name	Platform	Serial Number
SJC18-F1-APBF34 9.60.79.105 FCW2233NHEL	AIR-AP4800-B-K9 Cisco 4800 Series ...	Global/SJC/SJC18/Floor-1	SJC18-F1-APBF34		KWC26040ESM
SJC18-F2-AP354E 9.60.45.131 FDW2142D147	AIR-AP2802I-B-K9 Cisco 2800I Series ...	Global/SJC/SJC18/Floor-2	SJC18-F2-AP354E		KWC260703P8

2 Record(s) Show Records: 10 1 - 2

Configuration to be copied from Old APs to New [View](#)

Location Configuration
AP Location, Position on Floor Map, Antenna Angle Parameters (Azimuth and Elevation as applicable) will be copied from Old APs.

WLC/AP Configuration
Provisioned APs: AireOS WLCs - AP Name, AP Mode, AP Groups including RF Profiles, FlexConnect Groups, Primary/Secondary Controller, AP Fallover Priority, AP Admin status, AP LED Status & Brightness level.
Cisco Catalyst 9800 Series WLCs - AP Name, AP Mode, Policy Tags, Site Tags, RF Tags, Beam State, Flex Profiles, Primary/Secondary Controller, AP Fallover Priority, AP Admin status, AP Geolocation Parameters, AP LED Status & Brightness level.
Unprovisioned APs: Default RF Profile under the Wireless Network Settings will be applied to the new APs. Other configurations will be provisioned based on the Network Profiles assigned to the AP's Locations.

Schedule Task [Edit](#)
Schedule Now

[Exit](#) [Review](#) [Back](#) [Provision](#)

Catalyst Center Access Point Refresh

Track Replacement Status

The replacement of each old AP will begin when the corresponding new AP is connected and the old AP is unreachable. Check the table below for the status of individual AP replacement and cause for any failure. If there is any error occurred during replacement then use 'Retry' option to retrigger replacement.

Note: If the new AP is not timely discovered in inventory and corresponding AP Refresh entry is stuck at 'Waiting for new device to be connected' or 'PNP Claim process in progress', please resync the WLC

1 Sites | 2 Devices [Download Report](#) [Refresh Data](#)

00 SUCCESS 00 FAILED 02 PENDING 00 IN PROGRESS

Grid View - which is the default view

BUILDINGS & FLOORS	ACCESS POINTS	PROGRESS	STATUS
Global/SJC/SJC18			
Floor-1	1		1 Pending
Floor-2	1		1 Pending

[Exit](#) [Next](#)

- 關閉任務：按一下「下一步」關閉刷新任務。下載報告以備日後參考。

Track Replacement Status

The replacement of each old AP will begin when the corresponding new AP is connected and the old AP is unreachable. Check the table below for the status of individual AP replacement and cause for any failure. If there is any error occurred during replacement then use 'Retry' option to retrigger replacement.

Note: If the new AP is not timely discovered in inventory and corresponding AP Refresh entry is stuck at 'Waiting for new device to be connected' or 'PNP Claim process in progress', please resync the WLC

1 Sites | 2 Devices [Download Report](#) [Refresh Data](#)

02 SUCCESS 00 FAILED 00 PENDING 00 IN PROGRESS

Use this option to Download the AP Refresh Task report

Access Points (2)

Search Table

0 Selected Delete Retry

Replacement Status All Success Failed In Progress Pending

Old Devices		Site	New Devices		Replacement Status
Device Name			Serial Number	Platform	
<input type="checkbox"/> SJC18-F1-AP834 FCW2233NHEL AIR-AP4800-B-K9		..SJC/SJC18	KWC26040ESM	CW9166I-B	Success
<input type="checkbox"/> SJC18-F2-AP354E FDW2142D147 AIR-AP2802I-B-K9		..SJC/SJC18	KWC260703PB	CW9164I-B	Success

Exit [Next](#)

Done. You have completed the AP Refresh task - SJC18-AP-Refresh

2 APs Provisioned Successfully

What's Next?

- [Go to Inventory](#)
- [Wireless AP Refresh Home](#)



附註：完成接入點刷新任務的時間取決於多種因素，例如將舊接入點標籤為不可達的速度、在Catalyst Center中發現新接入點的及時性、樓層上的AP數量以及為任務選擇的AP總數。滿足所有條件後，AP刷新將在幾分鐘內完成。

驗證

完成AP刷新任務後，驗證以下內容：

- AP詳細資訊：驗證新AP的AP名稱、位置、策略標籤、站點標籤和RF標籤。導航到Provision > Inventory並過濾AP：

Device Name	IP Address	Site	Reachability	Serial Number	Platform	AP Ethernet MAC Address	AP Location	Policy Tag	Site Tag	RF Profile
SJC18-CW9163E-8820	9.60.38.101	Assign	Reachable	DSM270700B5	CW9163E-B	68:49:92:19:88:20	SJC14	default-policy-tag	default-site-tag	default-rf-tag
SJC18-F1-AP0B64	9.60.79.106	.../SJC18/Floor-1	Unreachable	PSZ24291P2Y	C9105AXI-B	5c:71:0d:ed:0b:64	Global/SJC/SJC18/Floor-1	SJC18 FLOOR1 POLICY TAG	SJC18 SITE TAG	SJC18_RF
SJC18-F1-AP8F34	9.60.45.220	.../SJC18/Floor-1	Reachable	KWC26040ESM	CW9166I-B	cc:9c:3e:14:db:10	Global/SJC/SJC18/Floor-1	SJC18 FLOOR1 POLICY TAG	SJC18 SITE TAG	SJC18_RF
SJC18-F1-AP265C	9.60.45.128	.../SJC18/Floor-1	Reachable	PSZ26141CS1	C9105AXI-B	00:df:1d:86:26:5c	Global/SJC/SJC18/Floor-1	SJC18 FLOOR1 POLICY TAG	SJC18 SITE TAG	SJC18_RF
SJC18-F1-AP2704	9.60.45.127	.../SJC18/Floor-1	Reachable	PSZ26141EJC	C9105AXW-B	00:df:1d:86:27:04	Global/SJC/SJC18/Floor-1	SJC18 FLOOR1 POLICY TAG	SJC18 SITE TAG	SJC18_RF
SJC18-F1-AP9414	9.60.79.103	.../SJC18/Floor-1	Reachable	FOC25028JES	C9124AXE-B	3c:57:31:c5:94:14	Global/SJC/SJC18/Floor-1	SJC18 FLOOR1 POLICY TAG	SJC18 SITE TAG	SJC18_RF
SJC18-F2-AP354E	9.60.45.250	.../SJC18/Floor-2	Reachable	KWC260703P8	CW9164I-B	cc:9c:3e:1f:20:60	Global/SJC/SJC18/Floor-2	SJC18 FLOOR2 POLICY TAG	SJC18 SITE TAG	SJC18_RF
SJC18-F2-AP406C	9.60.45.108	.../SJC18/Floor-2	Reachable	0	C9120AXP-B	a0:0f:37:9c:40:6c	Global/SJC/SJC18/Floor-2	SJC18 FLOOR2 POLICY TAG	SJC18 SITE TAG	SJC18_RF

- 地圖位置：驗證樓層地圖上新的接入點位置，包括其型號和MAC地址。導航到Design (設計) > Network Hierarchy (網路層次結構) 並選擇所需站點。

Information

SJC18-F1-AP8F34 --/10

MAC Address 10:f9:20:fd:dc:60

Model CW9166I-B

Mode Local

Issues Count 0

Radio	Mode	Band	Op. Status	Channel
Radio 0	Client Servicing	2.4 GHz	up	6
Radio 1	Client Servicing	5 GHz	up	36
Radio 2	Client Servicing	6 GHz (XOR)	up	1

Device 360

SJC18-F1-AP8F34

AP Type AP9166I

MAC Address 10:f9:20:fd:dc:60

AP Model CW9166I-B

Software Version 17.15.4.18

Controller IP Address 10.76.34.96

Product Type Cisco Catalyst Wireless 9166I Unified Access Point

AP Mode Local

Sensor Mode Not Enabled

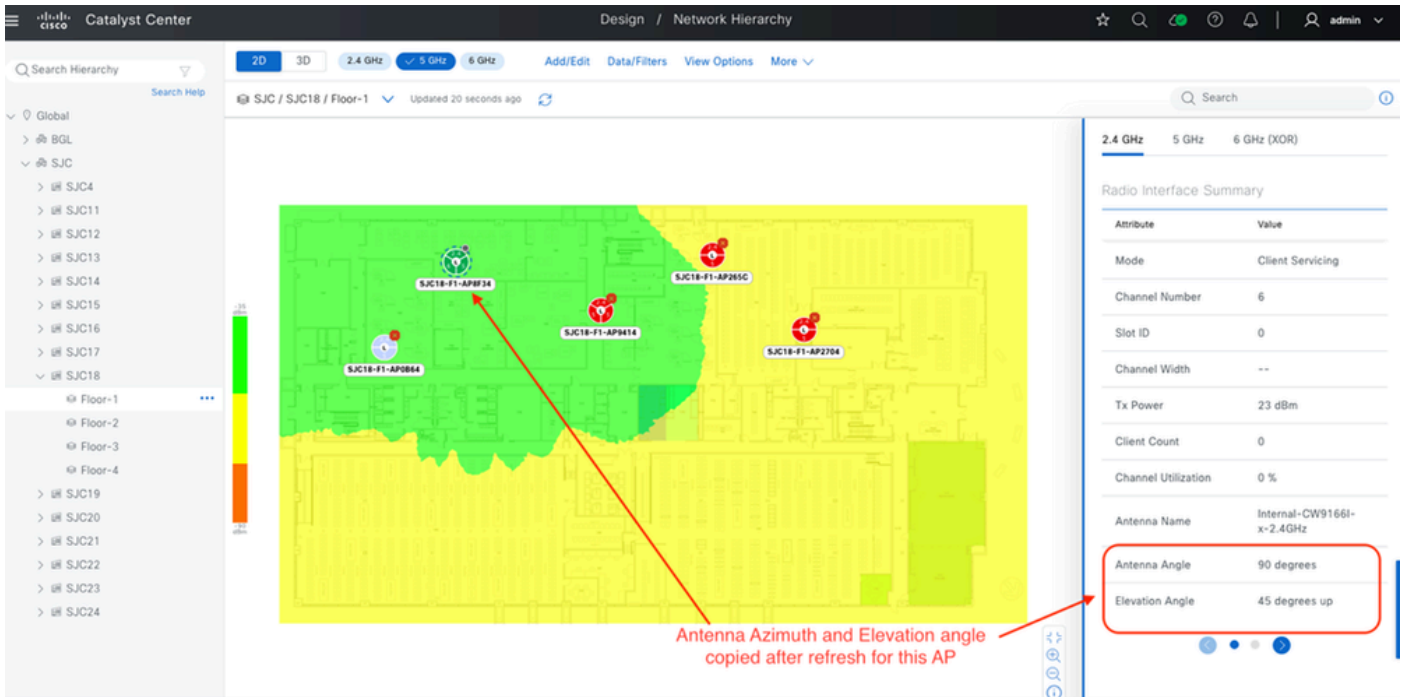
Health Score --

Issues Count 0

2.4 GHz 5 GHz 6 GHz (XOR)

Radio Interface Summary

Attribute	Value
-----------	-------



- 事件通知：驗證Assurance > Dashboard > Issues and Events下的AP Refresh Event通知。此事件確認刷新成功，並且為刷新的AP顯示保證資料（包括來自舊AP的歷史資料）

Event Name	Status	Timestamp	Device Name	Event Type	Device IP
AP Refresh	●	Sep 13, 2025 12:34:08.700 PM	SJC18-F1-AP8F34	Device Event	--
AP Refresh	●	Sep 13, 2025 12:34:08.700 PM	SJC18-F1-AP8F34	Device Event	--
AP Refresh	●	Sep 13, 2025 12:33:59.502 PM	SJC18-F2-AP354E	Device Event	9.60.45.131
AP Refresh	●	Sep 13, 2025 12:33:59.502 PM	SJC18-F2-AP354E	Device Event	9.60.45.131
AP is connected to WLC. CAPWAP channel is up	●	Sep 13, 2025 12:13:32.284 PM	SJC18-F1-AP0B64	Device Event	9.60.79.106
AP is disconnected from WLC. CAPWAP channel is down	●	Sep 13, 2025 12:13:09.171 PM	SJC18-F1-AP0B64	Device Event	9.60.79.106
Channel Change	●	Sep 13, 2025 12:10:35.518 PM	SJC18-F1-AP2704	Device Event	9.60.45.127
Tx Power Change	●	Sep 13, 2025 12:00:27.510 PM	SJC18-C9105AXW-2704	Device Event	9.60.45.127

The screenshot shows the Catalyst Center interface with the 'Events' tab selected. A specific event titled 'AP Refresh' is highlighted, occurring on Sep 13, 2025 at 12:34:08.700 PM. The event details include:

- Additional Info: AP Refresh - AP has been updated
- Event Type: Device Event
- Device Name: SJC18-F1-AP8F34
- Wireless Controller: SR-CW9800H1-96.cisco.com
- AP Base Radio Mac: 10:F9:20:FD:DC:60
- Reason: AP Refresh - AP has been updated

Below the event details, there is a section for 'Connected Device Events' with a 'Show Events (±15 mins)' button. On the left side, there is a filter table for 'Events (500)' with tabs for 'Devises', 'Endpoints', and 'Router: 0'. The filter table is currently empty.

- 稽核日誌：驗證AP刷新相關條目的稽核日誌。導航到「活動」>「稽核日誌」。

The screenshot shows the Catalyst Center 'Audit Log' page. The page is filtered by date from Sep 14, 2024 12:57 PM to Sep 13, 2025 12:57 PM. The 'SUMMARY' section shows 3 events with severity levels: Critical, Warning, and Info. The main table displays a list of events for 'Today' (25 of 19 total events shown):

Time	Description	Category	Severity	User
Sep 13, 2025 12:56 PM IST	Request received to delete workflow SJC18-AP-Refresh	INFO	Info	admin
Sep 13, 2025 12:34 PM IST	Deleted Old AP with Serial Number FCW2233NHLEL successfully from Inventory	INFO	Info	system
Sep 13, 2025 12:34 PM IST	Deleted Old AP with Serial Number FCW2233NHLEL successfully from Inventory	INFO	Info	system
Sep 13, 2025 12:34 PM IST	Request to delete device 9.60.79.105 succeeded	INFO	Info	system
Sep 13, 2025 12:34 PM IST	Request to update credentials for AP with id [[7ef11106-dc6c-4530-97b2-d5e9a89086ee, bdf6eac-b2c1-4319-a287-11f6dd6e75f5, d30ae1c7-2e49-426a-a2e0-72a2423527bd, ea182e80-5e27-4d13-b111-d0bb705744bc, ef8b2c99-72a9-4120-bd95-8be3fc8db360]] ...	INFO	Info	system
Sep 13, 2025 12:34 PM IST	Executing command config t exit...	INFO	Info	SYSTEM
Sep 13, 2025 12:34 PM IST	Deleted Old AP with Serial Number FDW2142D147 successfully from Inventory	INFO	Info	system
Sep 13, 2025 12:34 PM IST	Deleted Old AP with Serial Number FDW2142D147 successfully from Inventory	INFO	Info	system
Sep 13, 2025 12:34 PM IST	Request to delete device 9.60.45.131 succeeded	INFO	Info	system
Sep 13, 2025 12:33 PM IST	Request to update credentials for AP with id [[3dfaeaf2-8681-41a2-b57a-d6fc5fb3347b, a7499e39-0c32-41b3-8cce-86f81fe9bc2f]] received	INFO	Info	system
Sep 13, 2025 12:33 PM IST	Executing command config t exit...	INFO	Info	SYSTEM
Sep 13, 2025 12:33 PM IST	The members were added to the group Global.	INFO	Info	system

Catalyst Center Activities / Audit Logs

Audit Logs Tasks

By Date Sep 14, 2024 12:57 PM - Sep 13, 2025 12:57 PM Syslog Server(s):

SUMMARY

Severity (3)

Critical

Warning

Info

12:57a 12:57p

Filter

Time	Description	Category	Severity	User
Today				25 of 131
Sep 13, 2025 12:33 PM IST	Auto role changed for device 9.60.45.250 from UNKNOWN to ACCESS		INFO	system
Sep 13, 2025 12:33 PM IST	AP Refresh has started at site Global/SJC/SJC18/Floor-1 for 1 AP(s)		INFO	system
Sep 13, 2025 12:33 PM IST	Removing Old AP(s) from site		INFO	system
Sep 13, 2025 12:33 PM IST	Removed Old AP(s) from site successfully		INFO	system
Sep 13, 2025 12:33 PM IST	Assigning New AP(s) to site		INFO	system
Sep 13, 2025 12:33 PM IST	Assigned New AP(s) to site successfully		INFO	system
Sep 13, 2025 12:33 PM IST	Configuring New AP(s)		INFO	system
Sep 13, 2025 12:33 PM IST	Provisioning New AP(s)		INFO	system
Sep 13, 2025 12:34 PM IST	AP Refresh Replaced Notification sent for 1 AP(s)		INFO	system
Sep 13, 2025 12:34 PM IST	Map details copied from Old AP [FCW2233NHLE] to New AP [KWC26040ESM]		INFO	system
Sep 13, 2025 12:34 PM IST	Deleting Old AP with Serial Number FCW2233NHLE		INFO	system
Sep 13, 2025 12:33 PM IST	AP Refresh has started at site Global/SJC/SJC18/Floor-2 for 1 AP(s)		INFO	system
Sep 13, 2025 12:33 PM IST	Request to add credentials for AP with id fd30ae1c7-2e49-426a-a2e0-72a2423527bd received		INFO	system

- 無線控制器CLI上的AP標籤對映：(此處將提供「刷新前」和「刷新後」的CLI輸出部分示例來顯示更改。)

刷新前：

```
SR-CW9800H1-96#
SR-CW9800H1-96#
SR-CW9800H1-96#sh ap summary | i SJC18-F1
SJC18-F1-AP265C      2      C9185AXI-B      00df.1d86.265c 00df.1d87.6ba0 US  -B  9.60.45.128  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP2704      2      C9185AXW-B      00df.1d86.2704 00df.1d87.70e0 US  -B  9.60.45.127  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP0B64      3      C9185AXI-B      5c71.0ded.0b64 3c41.0e3b.8b20 US  -B  9.60.79.106  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP9414      2      C9124AXE-B      3c57.31c5.9414 4ca6.4d22.ee20 US  -B  9.60.79.103  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP8F34      3      AIR-AP4800-B-K9 f4db.e643.8f34 f4db.e644.e7e0 US  -B  9.60.79.105  Registered  Global/SJC/SJC18/Floor-1
SR-CW9800H1-96#sh ap summary | i SJC18-F2
SJC18-F2-AP354E      2      AIR-AP2802I-B-K9 500f.8059.354e 7070.8b85.e570 US  -B  9.60.45.131  Registered  Global/SJC/SJC18/Floor-2
SJC18-F2-AP406C      2      C9120AXP-B      a00f.379c.406c a00f.3705.18c0 US  -B  9.60.45.108  Registered  Global/SJC/SJC18/Floor-2
SR-CW9800H1-96#sh ap tag summary | i SJC18-F1
SJC18-F1-AP265C      2      00df.1d86.265c SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP2704      2      00df.1d86.2704 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP0B64      3      5c71.0ded.0b64 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP9414      2      3c57.31c5.9414 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP8F34      3      f4db.e643.8f34 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SR-CW9800H1-96#sh ap tag summary | i SJC18-F2
SJC18-F2-AP354E      2      500f.8059.354e SJC18 SITE TAG      SJC18 FLOOR2 POLICY TAG      SJC18_RF      No      Static
SJC18-F2-AP406C      2      a00f.379c.406c SJC18 SITE TAG      SJC18 FLOOR2 POLICY TAG      SJC18_RF      No      Static
SR-CW9800H1-96#
```

刷新後：

```
SR-CW9800H1-96#sh ap summary | i SJC18-F1
SJC18-F1-AP265C      2      C9185AXI-B      00df.1d86.265c 00df.1d87.6ba0 US  -B  9.60.45.128  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP2704      2      C9185AXW-B      00df.1d86.2704 00df.1d87.70e0 US  -B  9.60.45.127  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP8F34      3      CW91661-B      cc9c.3ef4.db10 10f9.20fd.dc60 US  -B  9.60.45.220  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP0B64      2      C9185AXI-B      5c71.0ded.0b64 3c41.0e3b.8b20 US  -B  9.60.79.106  Registered  Global/SJC/SJC18/Floor-1
SJC18-F1-AP9414      3      C9124AXE-B      3c57.31c5.9414 4ca6.4d22.ee20 US  -B  9.60.79.103  Registered  Global/SJC/SJC18/Floor-1
SR-CW9800H1-96#sh ap summary | i SJC18-F2
SJC18-F2-AP354E      3      CW91441-B      cc9c.3ef1.2060 10f9.20fe.4b20 US  -B  9.60.45.250  Registered  Global/SJC/SJC18/Floor-2
SJC18-F2-AP406C      2      C9120AXP-B      a00f.379c.406c a00f.3705.18c0 US  -B  9.60.45.108  Registered  Global/SJC/SJC18/Floor-2
SR-CW9800H1-96#sh ap tag summary | i SJC18-F1
SJC18-F1-AP265C      2      00df.1d86.265c SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP2704      2      00df.1d86.2704 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP8F34      3      cc9c.3ef4.db10 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP0B64      2      5c71.0ded.0b64 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SJC18-F1-AP9414      3      3c57.31c5.9414 SJC18 SITE TAG      SJC18 FLOOR1 POLICY TAG      SJC18_RF      No      Static
SR-CW9800H1-96#sh ap tag summary | i SJC18-F2
SJC18-F2-AP354E      3      cc9c.3ef1.2060 SJC18 SITE TAG      SJC18 FLOOR2 POLICY TAG      SJC18_RF      No      Static
SJC18-F2-AP406C      2      a00f.379c.406c SJC18 SITE TAG      SJC18 FLOOR2 POLICY TAG      SJC18_RF      No      Static
SR-CW9800H1-96#
```

常見錯誤和故障排除

1. 建立AP刷新工作流時出錯 — 必須無法訪問舊AP

案例：如果在建立工作流程期間，舊接入點和新接入點都處於聯機狀態，並在Catalyst Center中標籤為「可訪問」，則會發生此錯誤。

Assign New APs to Old APs

You have selected 3 Old APs for refresh. Assign New AP for each Old one. If New AP(s) is already connected, it will be detected in Catalyst Center through WLC inventory based on the existing configuration. If New AP is not yet connected, provide the Serial Number of those New APs against each Old AP.

You can also download the Old APs list in CSV format, provide the details of the New AP against each Old AP and Upload it.

Please correct below errors to proceed.

Would you like to auto detect your APs based on Switch Port **NEW**

ACCESS POINTS (3)

Upload CSV Download CSV 3 Selected Delete

Old Devices				New Devices			
Device Name	Platform	Site	Edit	Device Name*	Platform	Serial Number*	CDP Neighbour
SJC18-F1-AP8F34 9.60.79.105 FCW2233NHEL	AIR-AP4800-B-K9 Cisco 4800 Series ...	..SJC/SJC18		SJC18-F1-AP8F34	CW9163E-B	DSM270700B5	Switch: SW-PRITHVI-PRIME-OO10-PRI-2 Port: GigabitEthernet
Old device should be unreachable.							
SJC18-F1-AP265C 9.60.45.128 PSZ26141CS1	C9105AXI-B Cisco Catalyst 910...	..SJC/SJC18		SJC18-F1-AP265C		KWC26040ESM	Switch: SW-PRITHVI-PRIME-OO6-PRI-2 Port: GigabitEthernet1
SJC18-F1-AP9414 9.60.79.103 FOC25028JE5	C9124AXE-B Cisco Catalyst 912...	..SJC/SJC18		SJC18-F1-AP9414		KWC260703P8	Switch: SR-OO10-9XSW-1 Port: GigabitEthernet1/0/1

Exit Review Back Next

- 緩解：

- 如果網路中舊的AP無法連線，但在Catalyst Center中顯示為「可連線」，請執行無線控制器重新同步，以在Catalyst Center中將存取點狀態更新為「無法連線」，然後繼續執行工作流。
- 如果舊AP處於聯機狀態，請解除關聯並關閉AP。

2. 運行「AP刷新」工作流時失敗，出現錯誤 — 必須無法訪問舊的AP

案例：如果工作流程運行時，舊無線接入點和新無線接入點都處於聯機狀態，並在Catalyst Center中標籤為「可訪問」，則會發生此錯誤。刷新無法繼續。

1 Sites | 3 Devices

Download Report Refresh Data

02 SUCCESS 01 FAILED 00 PENDING 00 IN PROGRESS

1 APs are not provisioned.
Do you want to retry provisioning these APs?
Retry Provision

Access Points (3)

Search Table

1 Selected Delete Retry

Replacement Status All Success Failed In Progress Pending

Device Name	Site	Serial Number	Platform	Replacement Status
SJC18-F1-AP265C PSZ26141CS1 C9105AXI-B	...SJC/SJC18	KWC26040ESM	CW9166I-B	Success
SJC18-F1-AP8F34 FCW2233NHEL AIR-AP4800-B-K9	...SJC/SJC18	DSM270700B5	CW9163E-B	Success
SJC18-F1-AP9414 FOC25028JES C9124AXE-B	...SJC/SJC18	KWC260703P8	CW9164I-B	Failed

Exit Next

緩解：

- 如果網路中無法訪問舊AP，但在Catalyst Center中顯示為「可訪問」，請執行無線控制器重新同步，以便將其狀態更新為Catalyst Center中的「無法訪問」，然後按一下「任務更換狀態」頁面上的「重試」。
- 如果舊AP處於聯機狀態，請解除關聯並關閉AP。驗證舊的AP是否顯示為「無法訪問」，然後繼續執行「任務替換」狀態頁面上的「重試」選項。

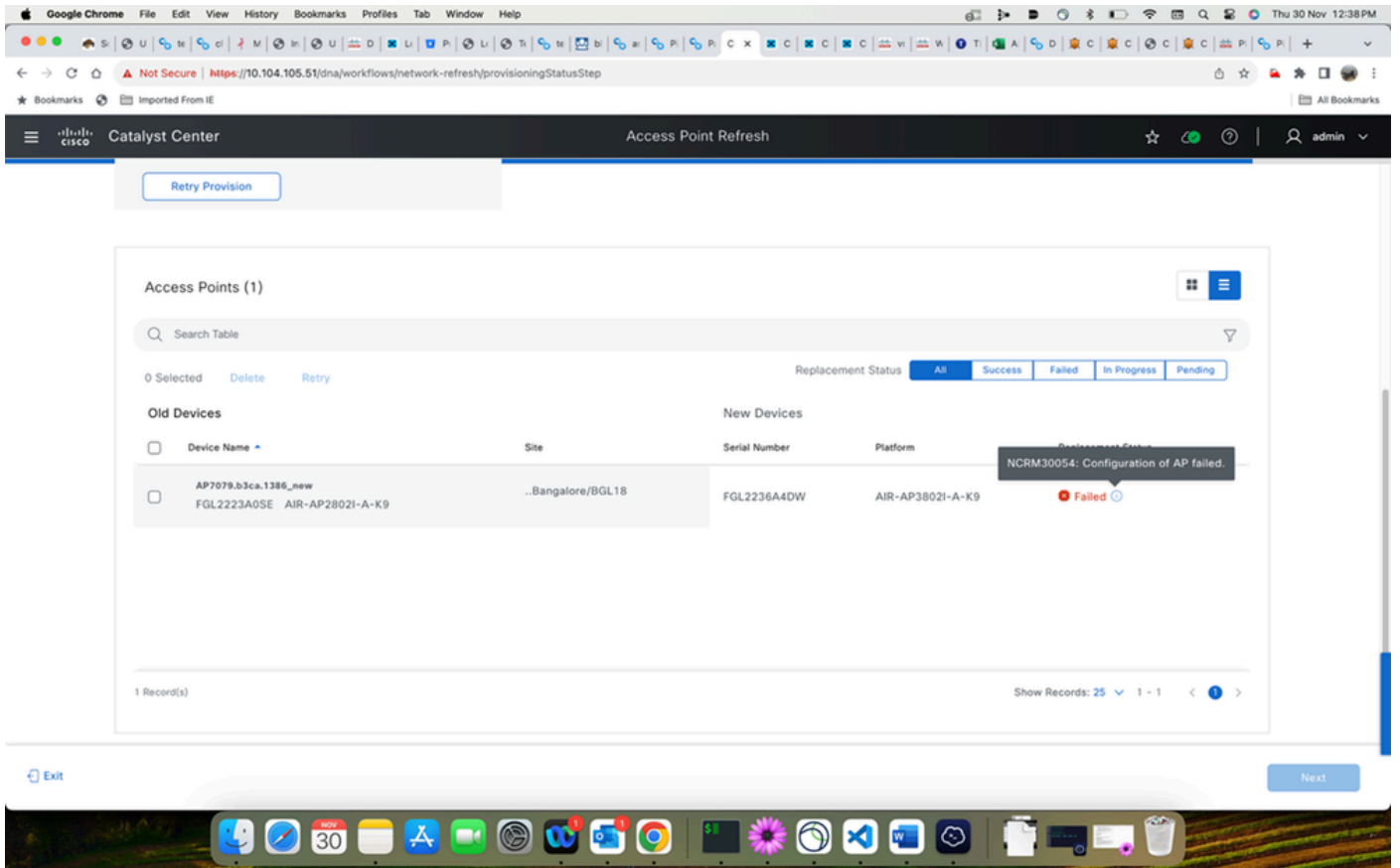
3. 運行AP刷新工作流時失敗，錯誤為 — NCRM30055:已將序列號為<>的新接入點分配給站點

案例：如果在執行刷新之前已將新AP分配給樓層，則會發生這種情況。

緩解：如果已將新AP分配給樓層，請導航到「站點」層次結構下的「樓層」對映並從該樓層中刪除該AP

4. 將滑鼠懸停在「更換狀態」上顯示的故障錯誤消息："NCRM30054:AP配置失敗。"

案例：如果舊AP處於離線狀態，並且新AP在Catalyst Center中顯示為可訪問，但新AP實際上已關閉



緩解：驗證新的接入點狀態。如果關閉，請確保它已啟動且可訪問，然後重試無線接入點刷新

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。