

# 使用IoT OD配置IW AP的流動性

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## 簡介

本文檔介紹使用IoT Operations Dashboard中的模板在CURWB中運行的工業無線(IW) AP上配置流動性。

## 訪問IoT OD

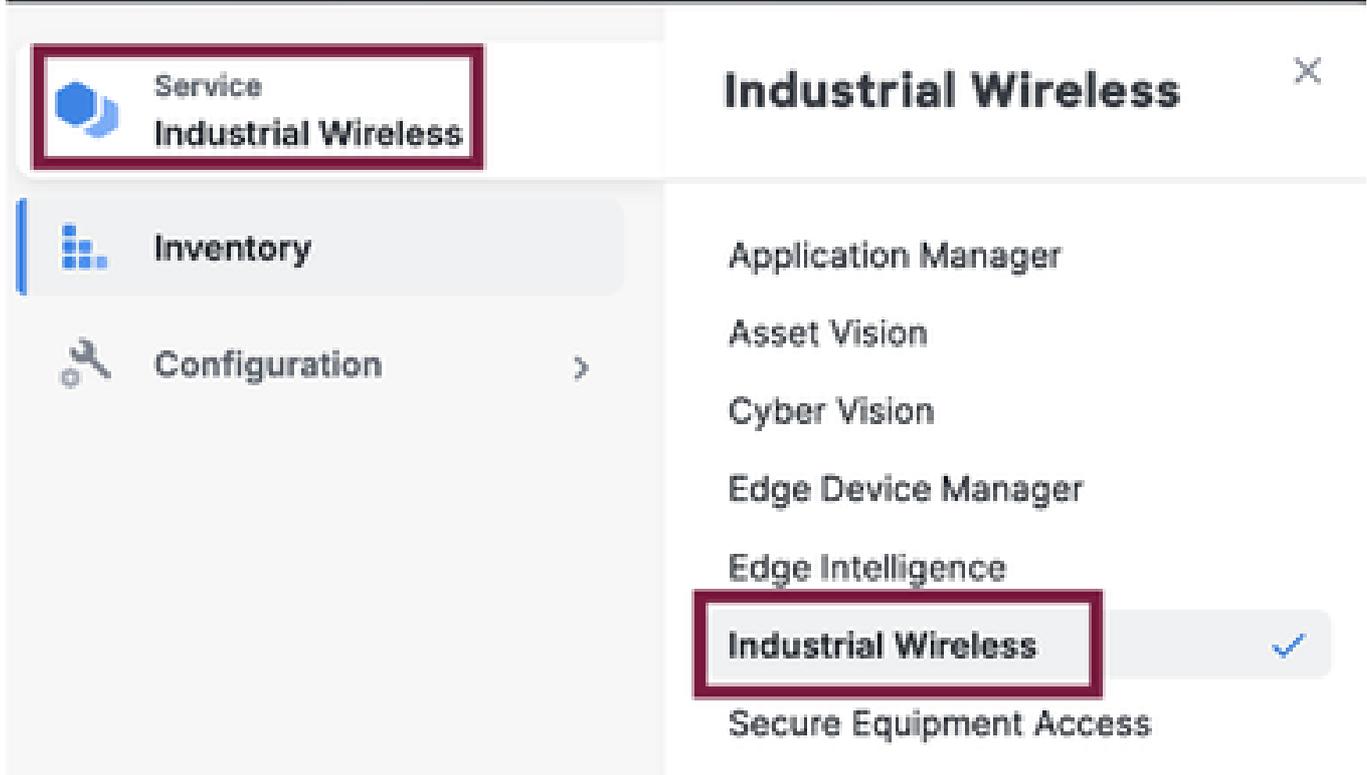
IW存取點(AP) ( 如IW9165和IW9167 ) 可以配置為CAPWAP或URWB模式。

在URWB模式下配置這些存取點時，可以使用IoT-Operations Dashboard或本地離線模式配置它們。根據租戶所在位置，可以使用這些連結訪問IoT Operations Dashboard。

<https://us.ciscoiot.com>

<https://eu.ciscoiot.com>

登入並選擇正確的租戶後，在Service下選擇Industrial Wireless ( 工業無線 ) 以訪問思科超可靠無線回傳(CURWB)無線電的功能集。



## 手動上線

可以從資產頁面將裝置手動註冊到IoT OD。

選擇Add Devices並選擇已增加裝置的PID。CSV檔案可以上傳，帶有其上裝置的序列號和MAC地址；每行都有一個條目。

範例：SN001234，00：f1：ca：00:00:01

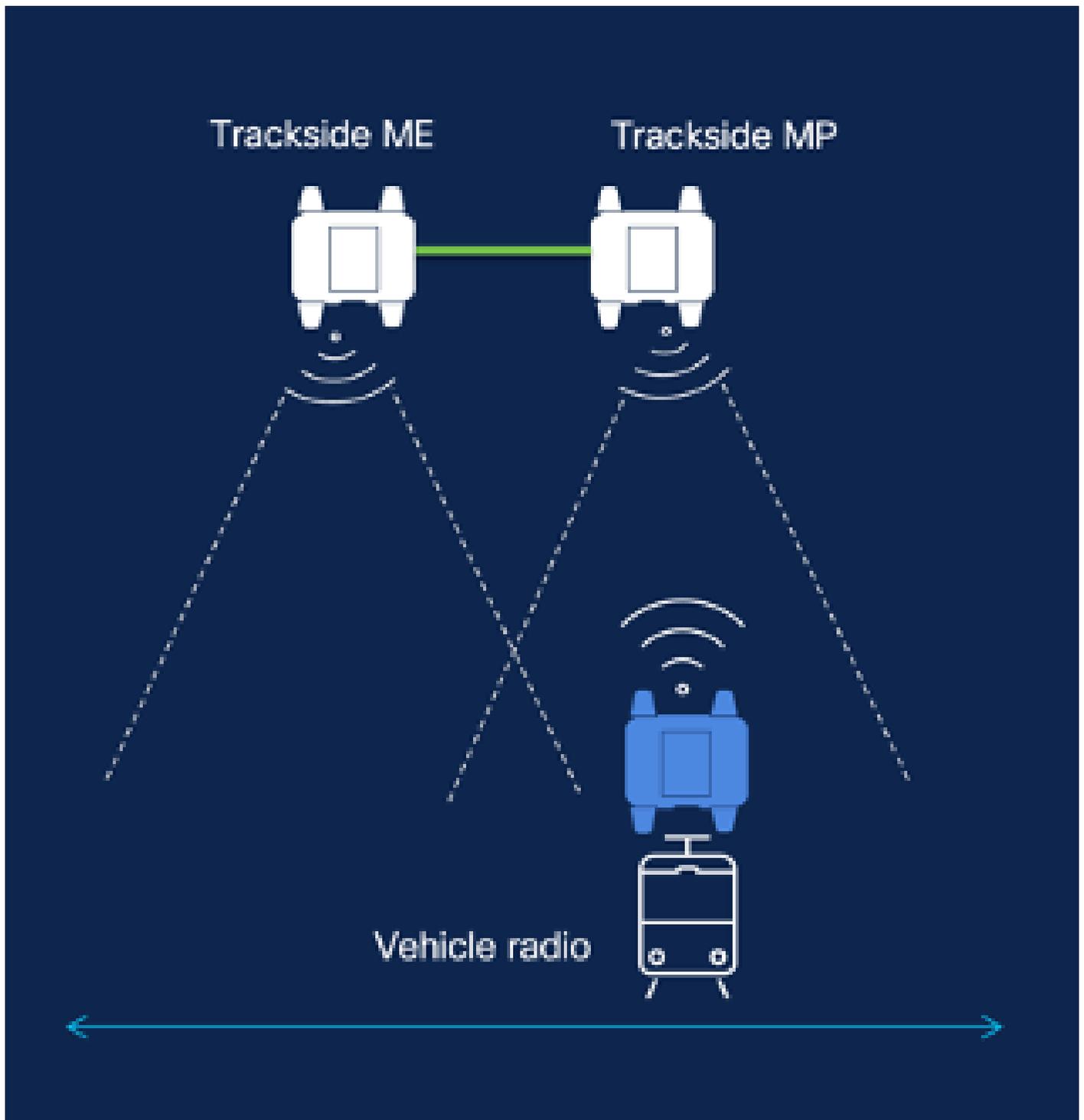
SN003457，00：f1：ca：00:00:02

上傳後，點選底部的Add devices（增加裝置），手動將裝置導入控制台。然後，它們將顯示在「資產」頁籤下。

## 流動性配置

使用IW916x存取點的基本流動性設定可透過此程式透過IoT OD進行設定。

考慮使用三個AP，A無線電充當軌道端網狀網終端，B無線電充當軌道端網狀網點，C無線電充當車輛無線電。



1. 將裝置增加到IoT OD且狀態為「聯機」後，可以透過選擇所需的裝置來編輯配置。按一下裝置並轉到「Configuration」（配置）頁籤，選擇「Edit」（編輯）按鈕更新配置。

Device Configuration [Edit](#) [Push IoT OB Configuration](#)

IoT OB Configuration

ID 0

Saved - 2024-06-24 10:49:38 am

Last heard configuration

ID -

Last heard - 2024-06-26 23:08:22 pm

 Last heard and IoT OB Configuration do not match.

[Review previous configurations](#)

Only show differences

- General
- Wireless Radio
- Advanced Radio Settings
- Key Control
- FullMAN
- Multicast
- SNMP
- Radios
- NTP

General

	IoT OB	Last Heard
Mode	Mesh Point	Mesh End
Radio off	Off	Off
Local IP Address	192.168.0.10	10.122.136.9
Local Netmask	255.255.255.0	255.255.255.192
Default Gateway		10.122.136.1
Local Dns 1		172.18.168.24
Local Dns 2		172.18.168.43

# Edit Device Configuration

- General**
- Wireless Radio
- Advanced Radio Settings
- Key Control
- FluidMAX
- Multicast
- SNMP
- Radius
- NTP
- L2TP
- Vlan
- Fluidity
- Fluidity Advanced
- Fluidity Pole Proximity

## General

---

**Mode**  
•

**Mesh Point**

---

**Radio off**

**Radio off mode**  
Select Value

---

**Local IP Address**  
•  
192.168.0.10

---

**Local Netmask**  
•  
255.255.255.0

---

2. 對於「流動性」設定，在「常規」部分中，至少必須將一個跟蹤端無線電配置為「網狀端」。在此設定中，無線電A是軌跡端網狀網點，無線電B是軌跡端網狀網點。所有車輛無線電必須配置為網狀點。只有一個車輛無線電，C無線電。所有無線電的「無線電模式」都設為「流動性」。

# Edit Device Configuration

Search

- General
- Wireless Radio
- Advanced Radio Settings
- Key Control
- FieldMAX
- Multicast
- SNMP
- Radius
- NTP
- L2TP
- Vlan
- Fieldity
- Fieldity Advanced
  - Fieldity Pole Proximity
  - Fieldity Frequency Scan
- Fieldity MPO

## General

● **Mode**  
Mesh End

● **Radio off**

● **Radio off mode**  
Fluidity

**Local IP Address**  
192.168.0.10

**Local Netmask**  
255.255.255.0

**Default Gateway**

無線電A配置

# Edit Device Configuration

🔍 Search

- General
- Wireless Radio
- Advanced Radio Settings
- Key Control
- FluidMAX
  - Multicast
  - SNMP
  - Radios
  - NTP
  - L2TP
  - Vlan
- Fluidity
  - Fluidity Advanced
    - Fluidity Pole Proximity
    - Fluidity Frequency Scan
  - Fluidity MPO

## General

Mode

-

Mesh Point



● Radio off



● Radio off mode

-

Fluidity



Local IP Address

-

192.168.0.10

Local Netmask

-

255.255.255.0

Default Gateway

無線電B配置

# Edit Device Configuration

Search

## General

### Wireless Radio

### Advanced Radio Settings

### Key Control

### FluidMAX

Multicast

SNMP

Radius

NTP

L2TP

Vlan

### Fluidity

### Fluidity Advanced

Fluidity Pole Proximity

Fluidity Frequency Scan

### Fluidity MPO

## General

Mode

-

Mesh Point



### Radio off



### Radio off mode

-

Fluidity



Local IP Address

-

192.168.0.10

Local Netmask

-

255.255.255.0

Default Gateway

## 無線電C配置

3. 在「Wireless Radio」(無線廣播)部分，確保三個無線電都使用相同的密碼。對於此設定，我們僅啟用每個IW裝置一個無線電。啟用您選取的無線電(無線電1或無線電2)，並確保所有無線電都配置了相同的頻率和通道寬度。在連線天線時，請確保根據選擇的無線電編號選擇外部埠。此外

, 所有三個無線電的無線電模式都配置為「流暢性」。

## Edit Device Configuration

Search

- General
- Wireless Radio**
- Advanced Radio Settings
- Key Control
- FluidMAX
- Multicast
- SNMP
- Radio
- MTP
- L2TP
- Wlan
- Fluidity
- Fluidity Advanced
- Fluidity Role Proximity
- Fluidity Frequency Scan
- Fluidity MPO

### Wireless Radio

Passphrase	-	DiscoURW	
Radio 1 enabled	<input checked="" type="checkbox"/>	Radio 2 enabled	<input type="checkbox"/>
Radio 1 role	-	Radio 2 role	-
Fluidity	Select Value	Select Value	Select Value
Radio 1 Frequency (MHz)	-	Radio 2 Frequency (MHz)	-
5180 MHz	Select Value	Select Value	Select Value
Radio 1 Channel width	-	Radio 2 Channel width	-
80	Select Value	Select Value	Select Value

4. 在「流動性」一節下，將選擇該股作為軌道旁無線電台A和電台B的「基礎設施」。

# Edit Device Configuration

Search

- General
- Wireless Radio
- Advanced Radio Settings
- Key Control
- FluidMAX
- Multicast
- SNMP
- Radius
- NTP
- L2TP
- Vlan
- Fluidity**
- Fluidity Advanced
  - Fluidity Pole Proximity
  - Fluidity Frequency Scan
- Fluidity MPO

## Fluidity

### Unit Role

.

Infrastructure



### Automatic Vehicle ID



### Vehicle ID

### Network Type

.

Flat



### Handoff Logic

Select Value



### Enable Primary Pseudowire Enforcement

5. 在「流動性」一節下，在C電台中，該股的角色被選為「車輛」。由於這是第2層流動性網路，因此網路型別應為「平面」。如果一台車輛使用多個車輛無線電，則可以啟用「自動車輛ID」或分配手動車輛ID。

# Edit Device Configuration

🔍 Search

- General
- Wireless Radio
- Advanced Radio Settings
- Key Control
- FluidMAX
- Multicast
- SNMP
- Radius
- NTP
- L2TP
- Vlan
- **Fluidity**
- Fluidity Advanced
- Fluidity Pole Proximity
- Fluidity Frequency Scan
- Fluidity MPO

## Fluidity

### ● Unit Role

Vehicle



### ● Automatic Vehicle ID



### Vehicle ID

### ● Network Type

Flat



### ● Handoff Logic

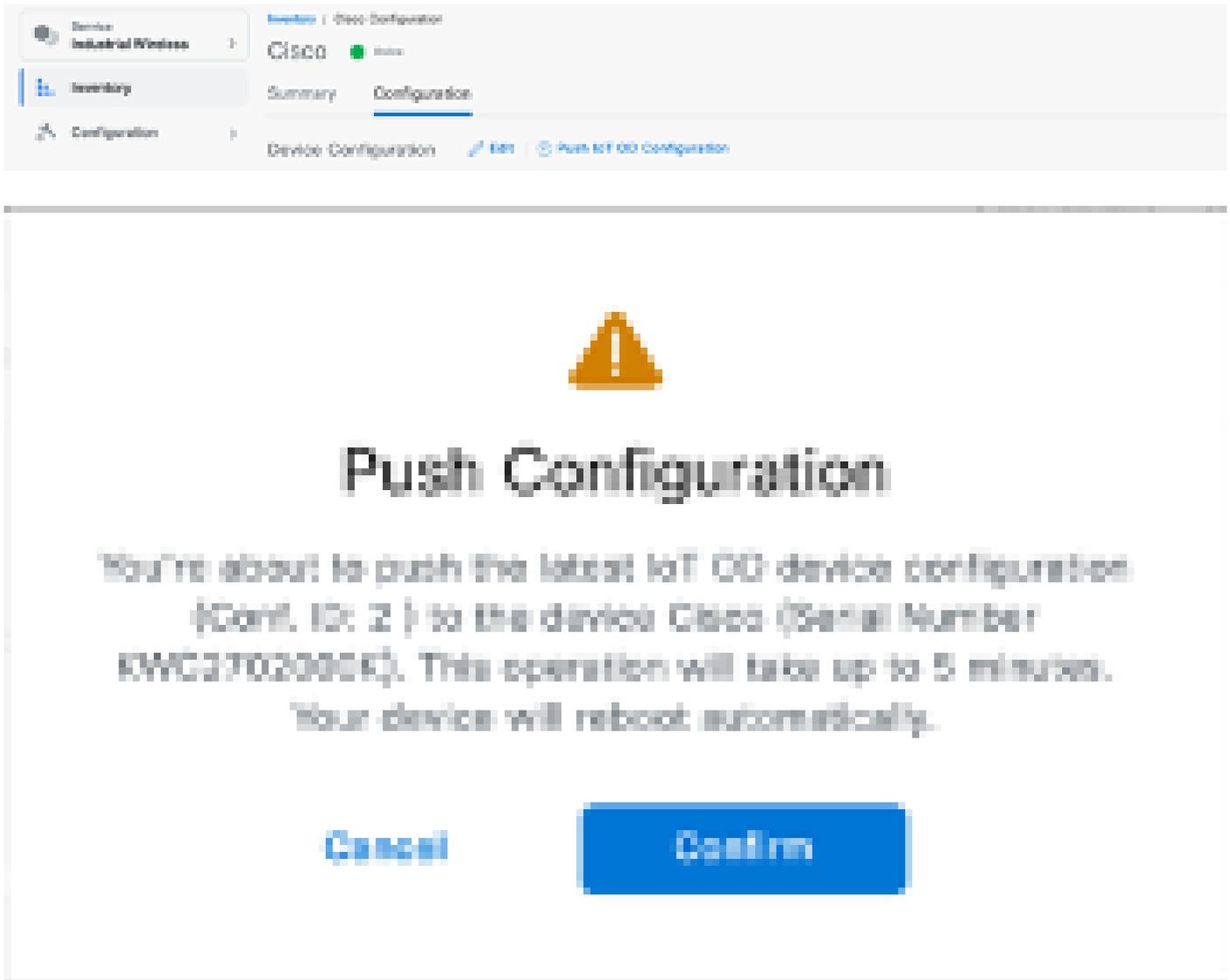
Standard



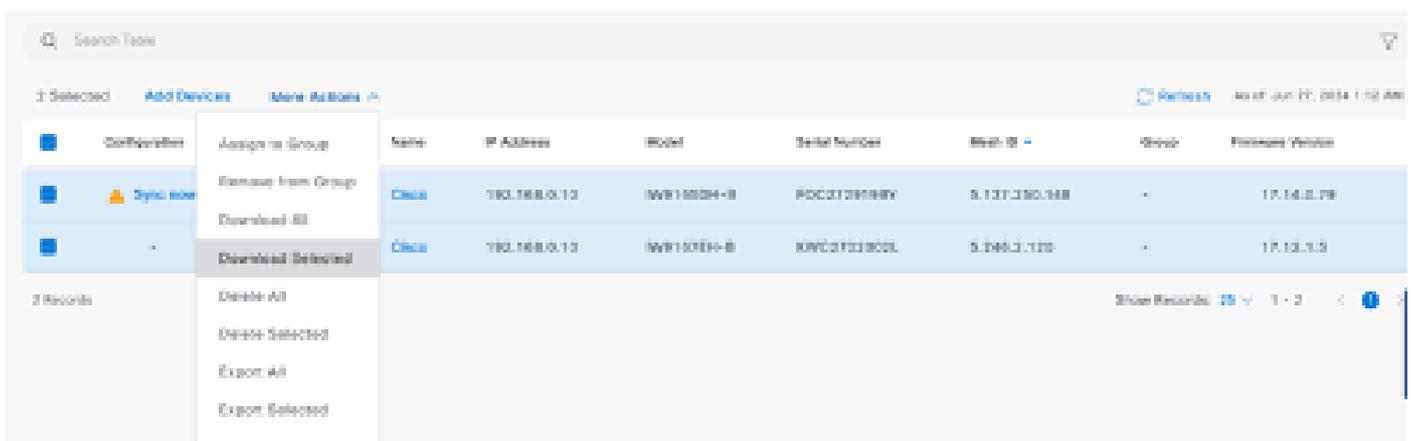
### ● Enable Primary Pseudowire Enforcement

編輯配置後，按一下底部的「儲存」。

6. 現在可使用「IoT OD配置」按鈕將更新的配置從IoT OD直接推送到無線電。出現提示後，按一下「確認」。裝置將重新啟動，並可從推送的配置從IP訪問。



7. 如果無線電處於「離線」狀態，則推送配置的另一個選項是下載配置檔案。從「資產」頁籤中選擇一個或多個裝置，然後從「更多操作」下拉選單中選擇「下載選定內容」按鈕。



下載副檔名為*.iwconf*的檔案。相同的檔案可以從IoT-OD頁籤上傳到裝置的GUI。

**IOTOD IW** Offline

**IW-MONITOR** Enabled

**FM-QUADRO**

---

**GENERAL SETTINGS**

- general mode
- wireless radio
- antenna alignment and state

**NETWORK CONFIGURAL**

- advanced tools

**ADVANCED SETTINGS**

- advanced radio settings
- static routes
- allowlist / blocklist
- multicast
- smp
- radius
- ntp
- ethernet filter
- l2tp configuration
- vlan settings
- Fluidity
- misc settings
- smart license

**MANAGEMENT SETTINGS**

- remote access
- firmware upgrade
- status
- configuration settings
- reset factory default
- reboot
- logout

### IOTOD IW Management

**IOTOD IW Configuration Mode**

**Preinstalling:** Initial radio configuration phase. The radio **MUST** be configured using the Centralized Web Interface ( [IOTOD Industrial Wireless US](#), [IOTOD Industrial Wireless EU](#) ) if connection is successful or manually if Offline configuration is selected.

**Offline Configuration:** It supports local parameter changes through the radio Web UI / CLI or upload of a single file downloaded from IOTOD IW section in [IOTOD Industrial Wireless](#) ( [IOTOD Industrial Wireless US](#), [IOTOD Industrial Wireless EU](#) ).

**Online Cloud-Managed Configuration:** the radio can be configured from the Centralized Web Interface (IOTOD IW section in [IOTOD Industrial Wireless US](#) or [IOTOD Industrial Wireless EU](#)) if it is connected to the Internet and can access IOTOD IW Cloud Server. Radio Web UI and CLI are read-only.

Online Cloud-Managed

Offline

### UPLOAD IOTOD IW CONFIGURATION FILE

**Upload Configuration File**

Select configuration file exported from IOTOD Industrial Wireless: Browse No file selected

Upload Configuration

您可以從「狀態」頁面檢查組態。

IoT00 IW

Cloud-Managed

IW-MONITOR

Disabled

GENERAL SETTINGS

- general mode
- wireless radio
- antenna alignment and state

NETWORK CONTROL

- advanced tools

ADVANCED SETTINGS

- advanced radio settings
- static routes
- allowlist / blocklist
- snmp
- radius
- ntp
- ethernet filter
- l2tp configuration
- vlan settings
- Fluidity
- misc settings

MANAGEMENT SETTINGS

- remote access
- status
- reboot
- logout

STATUS

Device: Cisco IOT IW9165DH Series Access Point  
Name: MP\_TRKSBackhaul  
ID: 5.137.255.148  
Serial: FCC2729180Y  
Operating Mode: Mesh Point  
Uptime: 3 days, 4:07 (h:mm:ss)  
Firmware version: 17.14.0.79

DEVICE SETTINGS

IP: 10.122.136.9  
Netmask: 255.255.255.192  
MAC address: 40:36:5a:89:fa:94  
Configured MTU: 1500

WIRED0

Status: up  
Speed: 1000 Mb/s  
Duplex: full  
MTU: 1500

WIRED1

Status: down

WIRELESS SETTINGS

Operating region: B

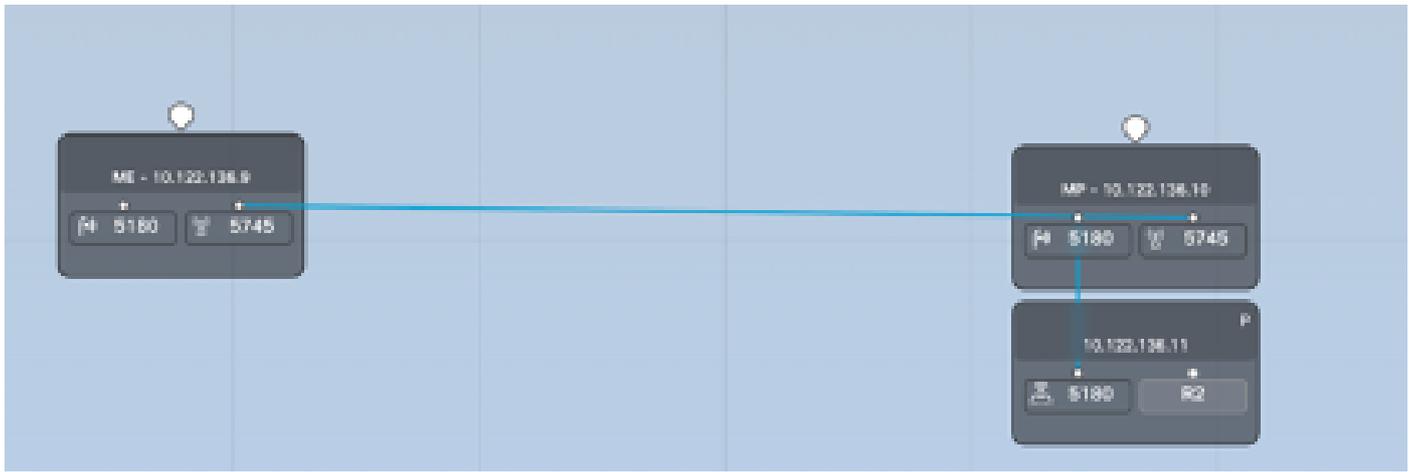
Radio 1

Interface: enabled  
Mode: fluidity  
Frequency: 5150 MHz  
Channel: 35  
Channel Width: 20 MHz  
Current tx power: 17 dBm  
Current tx power level: 1  
Antenna gain: not selected  
Antenna number: 2  
Radio Mode: csm/ta  
Maximum link length: 3 km

Radio 2

Interface: enabled  
Mode: fluidmax primary  
Frequency: 5240 MHz  
Channel: 48  
Channel Width: 20 MHz  
Current tx power: 8 dBm

8. 可以訪問「網格端」無線電上的FM-Quadro頁面，以檢查「流動性」設定的佈局。



## 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）。