

DNA Spaces with CMX On Prem配置示例

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[設定](#)

[網路圖表](#)

[組態](#)

[驗證](#)

[疑難排解](#)

簡介

本檔案介紹如何使用Cisco Connected Mobile Experience(CMX)On-Prem設定Cisco DNA Spaces。

必要條件

需求

思科建議您瞭解以下主題：

- 對AireOS無線控制器的命令列介面(CLI)或圖形使用者介面(GUI)訪問
- Cisco DNA Spaces
- Cisco CMX

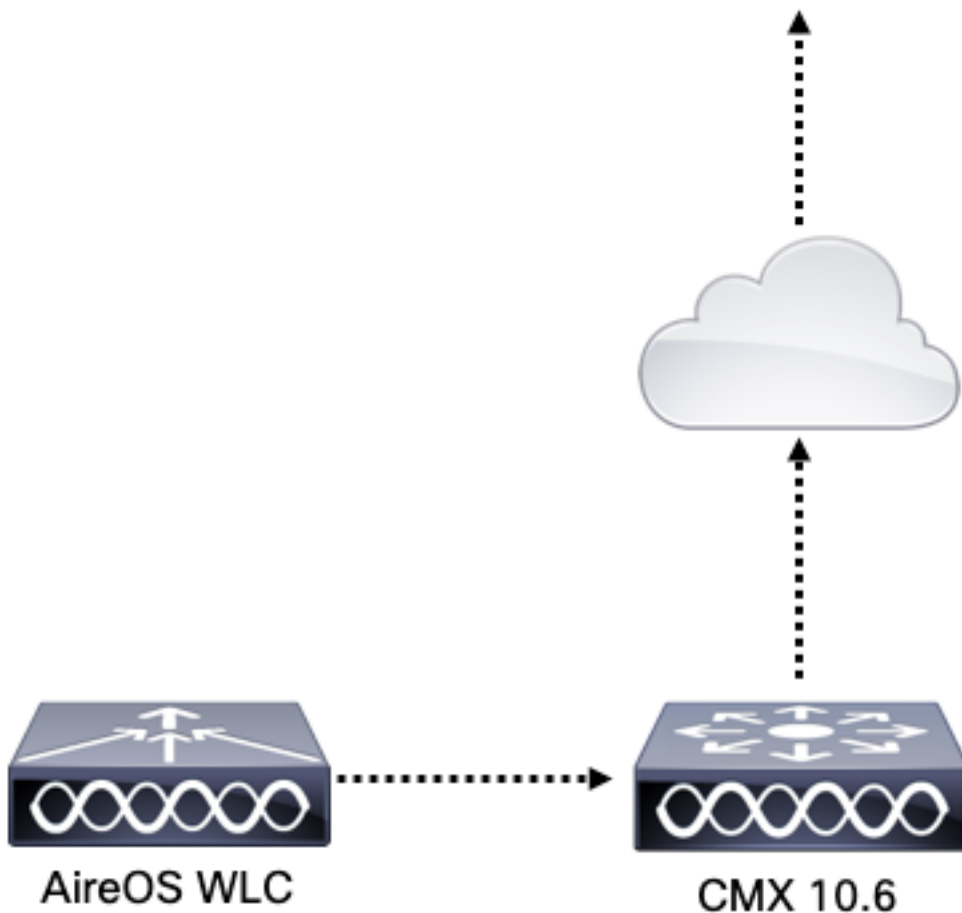
採用元件

本文中的資訊係根據以下軟體和硬體版本：

- 5520無線LAN控制器(WLC)版本8.8.120.0
- 思科CMX 10.6.1-47

設定

網路圖表



組態

要將CMX連線到Cisco DNA Spaces，CMX必須能夠通過HTTPS訪問Cisco DNA Spaces雲。

出站代理設定

如果CMX在代理之後，則需要此配置。

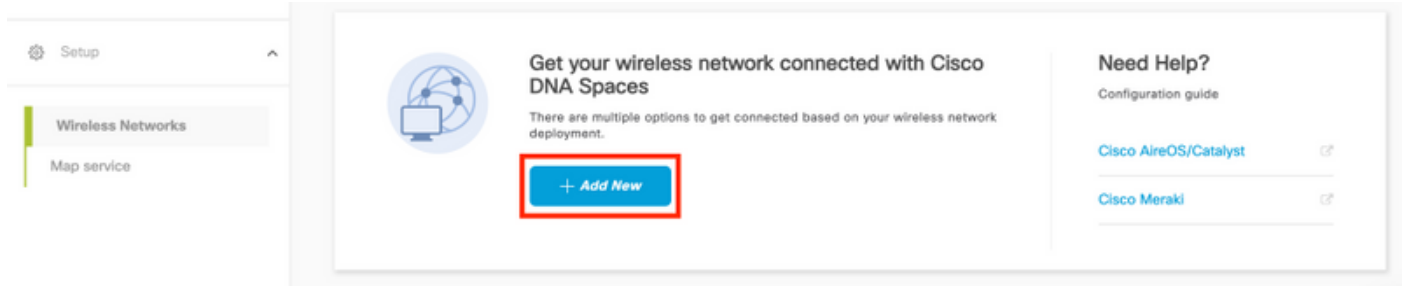
步驟1.連線到CMX CLI並運行以下命令：

```
[cmxadmin@CMX-addressi ~]$ cmxos sysproxy http_proxy http://<proxy-server-address>:80/  
[cmxadmin@CMX-addressi ~]$ cmxos sysproxy https_proxy https://<proxy-server-address>:443/  
[cmxadmin@CMX-addressi ~]$ cmxos sysproxy no_proxy 127.0.0.1,localhost  
[cmxadmin@CMX-addressi ~]$ cmxctl stop -a  
[cmxadmin@CMX-addressi ~]$ cmxctl agent start  
[cmxadmin@CMX-addressi ~]$ cmxctl start
```

在Cisco DNA上產生權杖 Spaces

步驟1.在DNA空間上生成令牌。

登入Cisco DNA spaces並導覽至Setup > Wireless Setup > Add New



步驟2.選擇Cisco AireOS/Catalyst:

What type of wireless network do you have?

Cisco DNA Spaces works with most Cisco wireless networks including Cisco Meraki.

Cisco AireOS/Catalyst

Choose this for Cisco Aironet Access Points with Cisco Wireless LAN Controllers (WLC) or Cisco Connected Mobile Experiences(CMX On-Prem).

Select

Cisco Meraki

Choose this for Cisco Meraki networks with Meraki MR Access Points

Select

Need help? Use this planning guide to decide the best suited option based on your network.

步驟3.選擇Via CMX On-Prem，然後選擇CMX版本。

How do you want to connect to Cisco DNA Spaces?

Via Spaces Connector

Requires you to install Spaces Connector on a virtual machine in order to connect your WLC to Cisco DNA Spaces cloud.

Note: Not compatible with Catalyst 9800 controller

Select

Connect WLC directly

Requires WLC with software version 8.8 MR2 and above or Cisco Catalyst Wireless Controller with software version 16.12.2 and above. Wireless controller needs direct internet connectivity.

Select

Via CMX On-Prem

Configure your CMX On-Prem dashboard to send location updates to Cisco DNA Spaces, either by configuring the Notification URL in the Cisco CMX dashboard or by manually uploading a JSON file that contains your location hierarchy.

Select

Need help? Use this planning guide to decide the best suited option based on your network.

步驟4.按一下Customize Setup

Great!

Based on your inputs, we have customized setup to help you connect your wireless network to Cisco DNA Spaces using CMX On-Prem Tethering

Prerequisites for CMX On-Prem Tethering

- 1 You must have WLC version 8.0 and above.
- 2 You must have CMX 10.6 and above.

Customize Setup

步驟5. 按一下 **Create New Token**。

Connect via CMX Tethering

Tethering is an easy way to get your wireless network connected to Cisco DNA Spaces

- 1 **Upgrade your CMX to Version 10.6 or above**
You must have CMX 10.6 and above to establish a connection
- 2 **Configure Token in CMX**
You will need a token to configure in CMX dashboard. You need to connect to <https://<your cmx ip>> from a browser to configure the token.

No CMX Tokens Configured yet**Create New Token**
View Tokens
- 3 **Add CMX into Location Hierarchy**
Once CMX connected to Cisco DNA Spaces, you can add them into the location hierarchy.

0 Campus(s) imported to location hierarchy**Add CMX**
View Location Hierarchy

Need Help?

Access the below links to view detailed help.

[View Configuration Steps](#)

[Frequently Asked Questions](#)

步驟6. 輸入權杖的名稱和說明，然後按一下「Save」。

步驟7. 在新的「Customize Setup」頁面中，在 **Configure Token in CMX** 部分下，按一下 **View Token**。將滑鼠懸停在最近建立的令牌上，然後點選金鑰圖示：

CMX Tethering Tokens

Cisco CMX + Add New CMX

Name	Description	Last Heard	First Heard	Actions
CMX-Andressi	Token for Andressi's CMX		Jul 2, 2019, 3:51:05 PM	

First | Previous **1** | Next | Last (1 - 1 of 1) : 1 pages

步驟8. 輸入您的 Cisco DNA Spaces 憑據以檢視和複製出現在以下螢幕中的令牌。

在 CMX 上配置令牌

步驟1. 登入 Cisco CMX，導覽至 **管理 > 雲應用**。按一下「**Enable**」，貼上權杖，然後按一下「

Save 。

Name	Description	Links	Actions
Cisco DNA Spaces	Cisco DNA Spaces is Cisco's new location platform. Tethering to Cisco DNA Spaces will send updates related to the deployment including information such as the maps and AP placement as well as the ongoing location updates. The destination of these updates will be to Cisco DNA Spaces cloud.	Login	Enable Map Status
Cisco Operational Insights	Cisco Operational Insights is a cloud based solution to manage assets within a location. Using various input signals, this solution allows you to operationalize and benefit from better understanding of assets within an environment.	Login	Enable
Cisco Beacon Management	Cisco Beacon Management is a comprehensive resource for detecting and monitoring Bluetooth Low Energy (BLE) Beacons, as well as managing CCX BLE Devices within your network.	Login	Enable

將CMX新增到位置層次結構Cisco DNA Spaces

步驟1. 導覽至Setup > Wireless Networks on DNA spaces , 然後按一下Add CMX:

1 Upgrade your CMX to Version 10.6 or above
You must have CMX 10.6 and above to establish a connection.

2 Configure Token in CMX
You will need a token to configure in CMX dashboard. You need to connect to <https://your-cmx-ip/> from a browser to configure the token.

1 token(s) added [Create New Token](#) [View Tokens](#)

3 Add CMX into Location Hierarchy
Once CMX connected to Cisco DNA Spaces, you can add them into the location hierarchy.

0 Campus(s) imported to location hierarchy [Add CMX](#) [View Location Hierarchy](#)

步驟2.選擇要匯入CMX的位置，然後按一下下一步。如果這是您第一次匯入CMX，您可能會看到預設位置，即Cisco DNA Spaces帳戶名稱。

Add CMX to Location Hierarchy

Where do you want to import CMX?
Choose a location that you want to import.

Search Locations

AndresSilva

附註： Cisco DNA Spaces不允許您使用相同的接入點新增兩個CMX節點。

步驟3.配置**顯示名稱**，並選擇要從CMX新增到位置層次結構的園區、建築和樓層。然後，按一下**匯入**。

Add CMX to Location Hierarchy

×

DISPLAY NAME

Display name

Choose the Sites you want to import

Campus	Building	Floor
<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> All
<input checked="" type="checkbox"/> Cisco Mexico	<input checked="" type="checkbox"/> MXC10	<input checked="" type="checkbox"/> 14th floor

Cisco DNA Spaces根據所選站點組織位置層次結構，其中包括與每個站點關聯的AP。

步驟4.根據位置配置每個園區/建築物/樓層的時區。導航到Cisco DNA Spaces上的**Location Hierarchy**。將滑鼠懸停在所需園區、建築或樓層上，然後按一下**Location Info**。輸入值，然後按一下**更新**。

附註： 定義的時區會影響思科DNA空間的規則和報告。

驗證

要確認在CMX上配置了出站代理，請運行以下命令：

```
[cmxadmin@CMX-andressi ~]$ cmxos sysproxy show
```

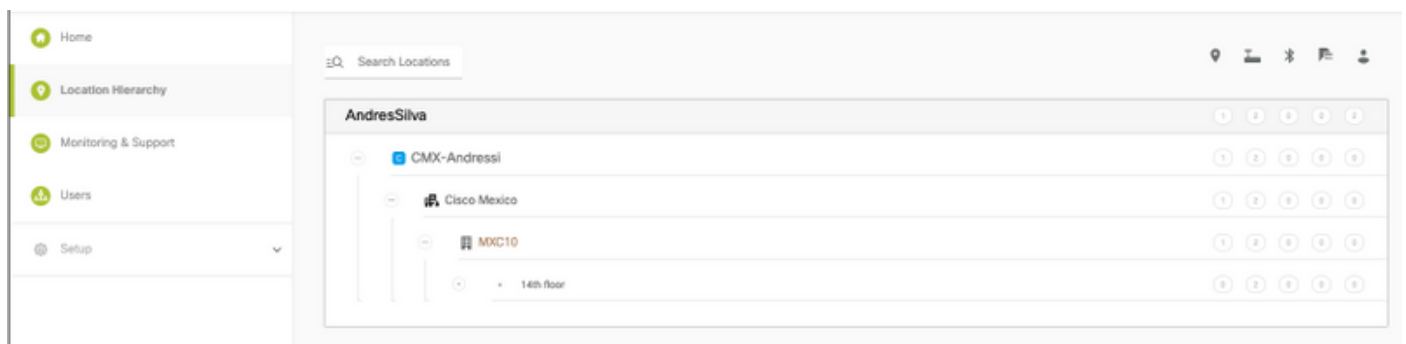
要確認CMX是否與Cisco DNA Spaces通訊，請導航至CMX上的**Manage > Cloud Apps**，檢視北向通知的統計資料：

Name	Description	Links	Actions
Cisco DNA Spaces	Cisco DNA Spaces is Cisco's new location platform. Tethering to Cisco DNA Spaces will send updates related to the deployment including information such as the maps and AP placement as well as the ongoing location updates. The destination of these updates will be to Cisco DNA Spaces cloud.	Login	Disable Update Map Status
Cisco Operational Insights	Cisco Operational Insights is a cloud based solution to manage assets within a location. Using various input signals, this solution allows you to operationalize and benefit from better understanding of assets within an environment.	Login	Enable
Cisco Beacon Management	Cisco Beacon Management is a comprehensive resource for detecting and monitoring Bluetooth Low Energy (BLE) Beacons, as well as managing CCX BLE Devices within your network.	Login	Enable

Notifications

Name	Notification Receiver	Total Sent	Acknowledged Count	Unacknowledged Count	Success Percent	Failure Percent	Latency(in ms)	Actions
DNASpaces-all	https://cmx.dnaspaces.io:443/api/v1/cmxc/notifications/locationUpdate	9	9	0	100.00%	0.00%	548	Reset

要確認在CMX上配置了位置層次結構，請導航到DNA空間上的位置層次結構，然後按一下CMX名稱：



疑難排解

目前尚無適用於此組態的具體疑難排解資訊。

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）。