# DNA空間直接連線配置示例

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# 簡介

本檔案介紹如何設定Cisco DNA Spaces Direct Connect,其中WLC直接連線到DNA Spaces,而無 需通過CMX或DNA Spaces Connector

# 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

## 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
- DNA空間聯結器版本1.0.188

# 設定

### 網路圖表



### 組態

若要將WLC連線到Cisco DNA Spaces,WLC必須能夠透過HTTPS連線至Cisco DNA Spaces雲端。

#### 將DigiCert CA根憑證匯入WLC

如果WLC使用的根憑證未經DigiCert CA簽署,則會看到**https:SSL證書問題:無法獲取本地頒發者** 證書錯誤。

步驟1。前往連結<u>https://global-root-ca.chain-demos.digicert.com/info/index.html</u>,將根憑證內容複 製到任何文字編輯器中,並使用.cer擴充模組(即CertCA.cer)儲存檔案

步驟2.將.cer檔案複製到需要由WLC連線的TFTP伺服器。

步驟3.登入到WLC CLI並運行以下命令:

```
(Cisco Controller) > transfer download datatype cmx-serv-ca-cert
(Cisco Controller) > transfer download mode tftp
(Cisco Controller) > transfer download filename <your_filename>.cer
(Cisco Controller) > transfer download path <path_to_file>
(Cisco Controller) > transfer download serverip <your_tftp_server_ip>
(Cisco Controller) > transfer download start
```

步驟4.重新啟動WLC以使變更生效。

附註:如果網路部署包含錨點和外部設定中的WLC,則必須將證書匯入到兩個WLC

將WLC新增到Cisco DNA spaces

第1步: 導覽至Setup > Wireless Networks > + Get Started。

Connect your wireless network Set up needed



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

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

步驟3.選擇**直接連線WLC** 



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

### 步驟4.按一下Customize Setup

#### Prerequisites for WLC Direct Connect



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### 步驟5.按一下View Token以取得WLC的雲服務URL和雲服務伺服器ID權杖

Insta	all Root Certificate			Need Help?	
You can View roo	install the certificate from WLC CLI st certificate C			Access the below links to view de help.	tailed
Conf	figure Token in WLC			View Configuration Steps	
Configur	re the token in WLC to establish the connection.				
			10	System Requirements	
	No Controllers added		View Token	Frequently Asked Questions	
) Impo	ort Controllers into Location	Hierarchy			

步驟6.登入到WLC CLI並運行以下命令:

(Cisco Controller) > config cloud-services cmx disable (Cisco Controller) > config cloud-services server url https:// (Cisco Controller) > config cloud-services server id\_token (Cisco Controller) > config network dns serverip (Cisco Controller) > config cloud-services cmx enable

#### 將WLC匯入Cisco DNA Spaces

### 步驟1.導覽至Setup > Wireless Networks,然後按一下Import Controllers

Coi AireOS	nnect via AireOS WLC Direct Connector S WLC Direct Connector is an easy way to get your wireless network connected to Cisco DNA Spaces. No need to upgrade Wireless LAN Contro
(1)	Install Root Certificate
	You can install the certificate from WLC CLI View root certificate C
2	Configure Token in WLC
Ĭ	Configure the token in WLC to establish the connection.
	1 Total controller(s) View Token
3	Import Controllers into Location Hierarchy Once the controllers are connected, you can import them into location hierarchy
	No Controllers added Import Controllers

### 步驟2.選擇要匯入控制器的位置,然後按一下**下一步。**如果這是您首次匯入控制器,您可能會看到 預設位置,即Cisco DNA Spaces帳戶名稱



步驟3.檢查要新增的WLC的IP地址。然後按一下Next(下一步)。

#### Select the Controller(s) that you want to import

NOTE: The Controller(s) will be added as a new WLC under "AndresSilva"



### 步驟4.選擇位置,然後按一下**完成。**

**附註**:Cisco DNA Spaces將根據接入點(AP)名稱的字首對其自動分組,並建立網路。如果要 保持相同的分組,請選擇網路。如果位置與您的業務位置不一致,請取消選中**Select All**選項 。如果接入點未分組,則不會顯示網路名稱。

Import Controllers

 $\times$ 

#### Locations

Following are auto discovered locations, select the locations which you wish to add.

No Networks are available

#### 在Cisco DNA Spaces上組織位置層次結構

如果需要新的位置層次結構,或者如果在**將WLC匯入Cisco DNA空間**一節的步驟4中未新增位置 ,則您可以手動配置它們。

步驟1.導航到**位置層次結構**,將滑鼠懸停在現有無線控制器上並建立一個組。組根據地理位置、品牌或其他任何型別的分組(取決於業務)組織多個位置或區域。

👩 Hame	=Q. Search Locations	9 <u>1</u> 3 P 1
O Location Hierarchy	AndresSilva	
Monitoring & Support	<ul> <li> <ul> <li>Initial Initial Initia Initiale Initial Initia Initia Initian Initian Initian Initi</li></ul></li></ul>	
🚯 Users	O Campus	Rename 10.10.30.2
Setup ~	Building	1 Create Group
	🕢 🗘 Lobby	Add Network  Add/Edit Metadata
	⊙ 🛱 Office1	O     O

步驟2.將滑鼠懸停在組上,然後選擇**Add Network**。網路或位置在Cisco DNA Spaces中定義為物理 建築物內所有接入點整合為位置。

O Home	EQ. Search Locations	9 <u>*</u> * P= *
O Location Hierarchy	AndresSilva	00000 0
Monitoring & Support	<ul> <li>         Interpretation     </li> </ul>	1 2 8 8
🙆 Users	<ul> <li>Campus</li> </ul>	() 🖲 MORE ACTIONS 🛛 🙁
Setup	<ul> <li>Building</li> </ul>	Rename Campus     Create Group     Edit Group     Add Network     Add/Edit Metadata     Delrate Location     Location info

**附註**:這是位置層次結構中最重要的節點,因為業務見解和位置分析計算是從這裡生成的。

步驟3.將滑鼠懸停在「Network(網路)」上,然後選擇「Add Zone(新增區域)」。區域是建築物/位置部分中的接入點集合。它可以根據物理建築或組織中的部門進行定義。

O Home	EQ. Search Locations	9 <u>1</u> * P <u>1</u>	
Cocation Hierarchy	AndresSilva	1 2 0 0 2	
Monitoring & Support	<ul> <li>              10.10.30.240      </li> </ul>	() (2) (0) (0)	
🚯 Users	<ul> <li>Campus</li> </ul>	0 0 0 0	
Setup	💿 🔮 Building		
		Reneme Building Add Zone Add/Edit Metadata	
		Delete Location	

步驟4.配置區域名稱並為區域選擇AP,然後按一下Add:

Add Zone	Q	$\times$
Lobby	-	
Select Access Points Network Access Points	00:f2:8b:26:e5:d0)	
14-MX-Office1-1	(f4:db:e6:34:4d:00)	
Add		

根據需要多次重複步驟3和4。

## 驗證

若要確認WLC和思科DNA空間之間的連線狀態,請運行**show cloud-services cmx summary**命令。 結果應如下所示:

(Cisco Controller) > show cloud-services cmx summary

CMX Service

Server	. https://andressilva.dnaspaces.io
IP Address	52.20.144.155
Connectivity	https: UP
Service Status	Active
Last Request Status	HTTP/1.1 200 OK
Heartbeat Status	OK

Payload Compression type ..... gzip

## 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)。