

DNA空间直接连接配置示例

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简介

本文档介绍如何配置Cisco DNA空间直接连接，其中WLC直接连接到DNA空间，而无需通过CMX或DNA空间连接器

先决条件

要求

Cisco 建议您了解以下主题：

- 命令行界面(CLI)或图形用户界面(GUI)访问AireOS无线控制器
- 思科DNA空间

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 5520无线LAN控制器(WLC)版本8.8.120.0
- DNA空间连接器版本1.0.188

配置

网络图



配置

要将WLC连接到思科DNA空间，WLC必须能够通过HTTPS访问思科DNA空间云。

将DigiCert CA根证书导入WLC

如果WLC使用未由DigiCert CA签名的根证书，您会看到**https:SSL证书问题：无法获取本地颁发者证书错误**。

步骤1.转到链接<https://global-root-ca.chain-demos.digicert.com/info/index.html>，将根证书内容复制到任何文本编辑器，并以.cer扩展名（即CertCA.cer）保存文件

步骤2.将.cer文件复制到WLC需要访问的TFTP服务器。

步骤3.登录WLC CLI并运行以下命令：

```
(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
```


步骤4.重新启动WLC以使更改生效。

注意：如果网络部署在锚点和外部设置中包含WLC，则必须将证书导入两个WLC

将WLC添加到思科DNA空间

步骤 1：导航至**设置>无线网络>+入门**。

Connect your wireless network Set up needed



Get your wireless network connected with Cisco DNA Spaces

There are multiple options to get connected based on your wireless network deployment.

[+ Get started](#)

步骤2.选择**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.

步骤3.直接选择**Connect WLC**

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

步骤4.单击“自定义设置”

Prerequisites for WLC Direct Connect

- 1 You must have WLC version 8.3 & above and eWLC 16.10 & above releases
- 2 You must Install WLC Root Certificate

Customize Setup

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步骤5.单击View Token获取WLC的云服务URL和云服务服务器ID令牌

Connect via AireOS WLC Direct Connector

AireOS WLC Direct Connector is an easy way to get your wireless network connected to Cisco DNA Spaces. No need to upgrade Wireless LAN Controllers or reconfigure your wireless network.

- 1 **Install Root Certificate**
You can install the certificate from WLC CLI
[View root certificate](#)
- 2 **Configure Token in WLC**
Configure the token in WLC to establish the connection.

No Controllers added | [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](#)

Need Help?

Access the below links to view detailed help.

- [View Configuration Steps](#)
- [System Requirements](#)
- [Frequently Asked Questions](#)

步骤6.登录WLC CLI并运行以下命令：

```
(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

将WLC导入思科DNA空间

步骤1. 导航至Setup > Wireless Networks，然后单击Import Controllers

Connect your wireless network

Connect via AireOS WLC Direct Connector

AireOS WLC Direct Connector is an easy way to get your wireless network connected to Cisco DNA Spaces. No need to upgrade Wireless LAN Controllers.

- 1 Install Root Certificate**
You can install the certificate from WLC CLI
[View root certificate](#)
- 2 Configure Token in WLC**
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
----------------------	------------------------------------

步骤2. 选择要导入控制器的位置，然后单击“下一步”。如果这是您首次导入控制器，您可能会看到默认位置，即您的Cisco DNA空间帐户名称

Import Controllers

Where do you want to import this Controller

Choose a location that you want to import this controller.

Search Locations

AndresSilva

步骤3. 检查要添加的WLC的IP地址。然后，单击下一步。

Select the Controller(s) that you want to import

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

Search	
<input checked="" type="checkbox"/> 10.10.30.240	2 Aps

步骤4.选择位置并单击“完成”。

注意： Cisco DNA空间将根据接入点名称的前缀自动对接入点(AP)进行分组并创建网络。如果要保持相同的分组，请选择网络。如果地点与您的业务地点不同，则取消选中“全选”选项。如果AP未分组，则不显示网络名称。

Locations

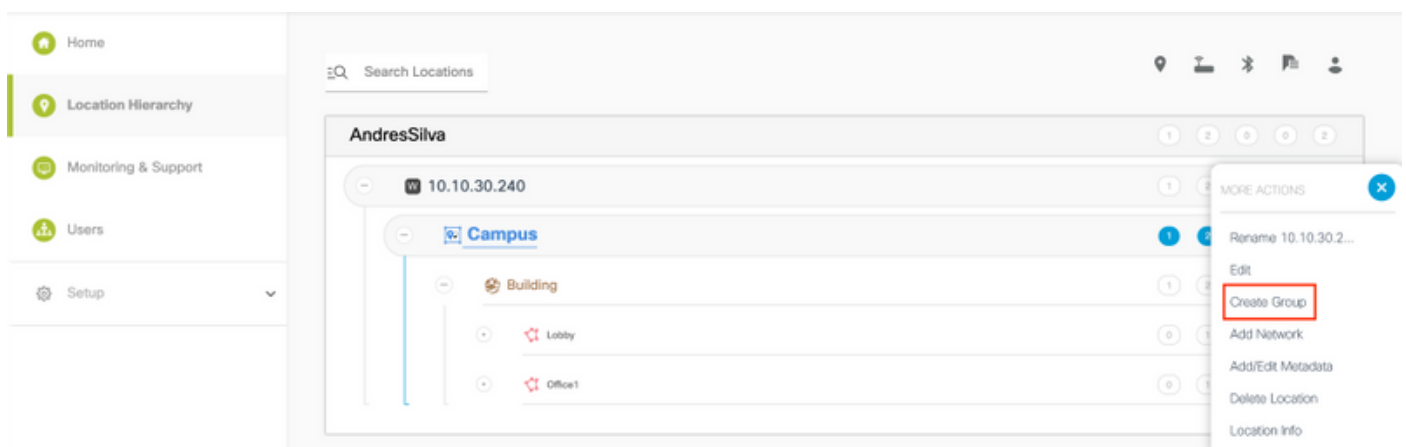
Following are auto discovered locations, select the locations which you wish to add.

No Networks are available

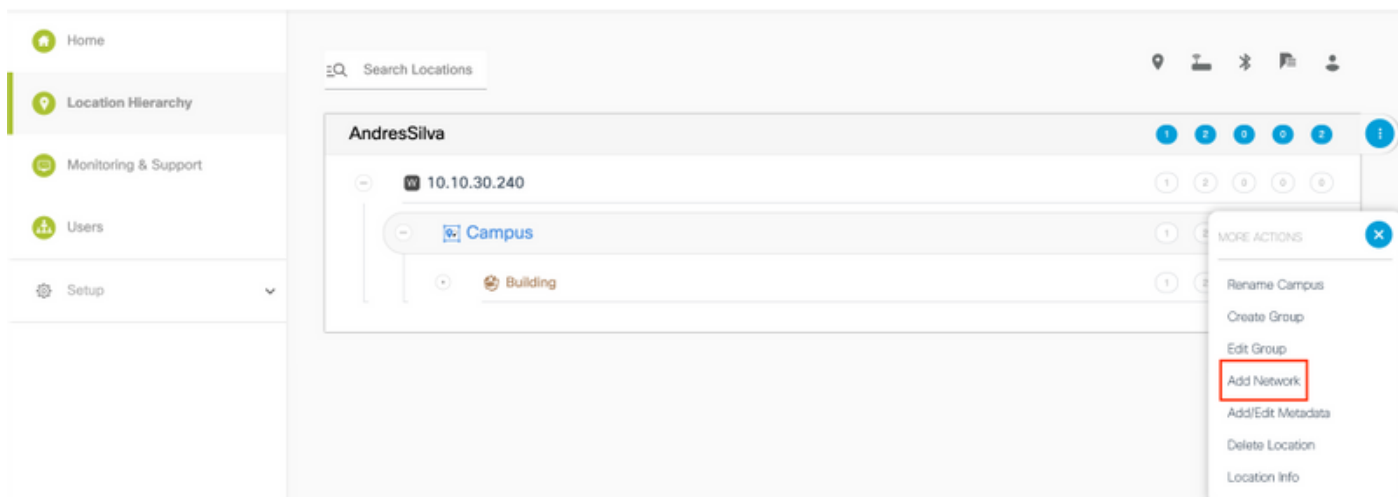
在思科DNA空间上组织位置层次结构

如果需要新的位置层次结构，或者如果在“将WLC导入到Cisco DNA空间”部分的步骤4中未添加任何位置，则可以手动配置它们。

步骤1.导航至“位置层次结构”，将鼠标悬停在现有无线控制器上并创建一个组。组根据地理位置、品牌或任何其他类型的分组组织多个位置或区域，具体取决于业务。

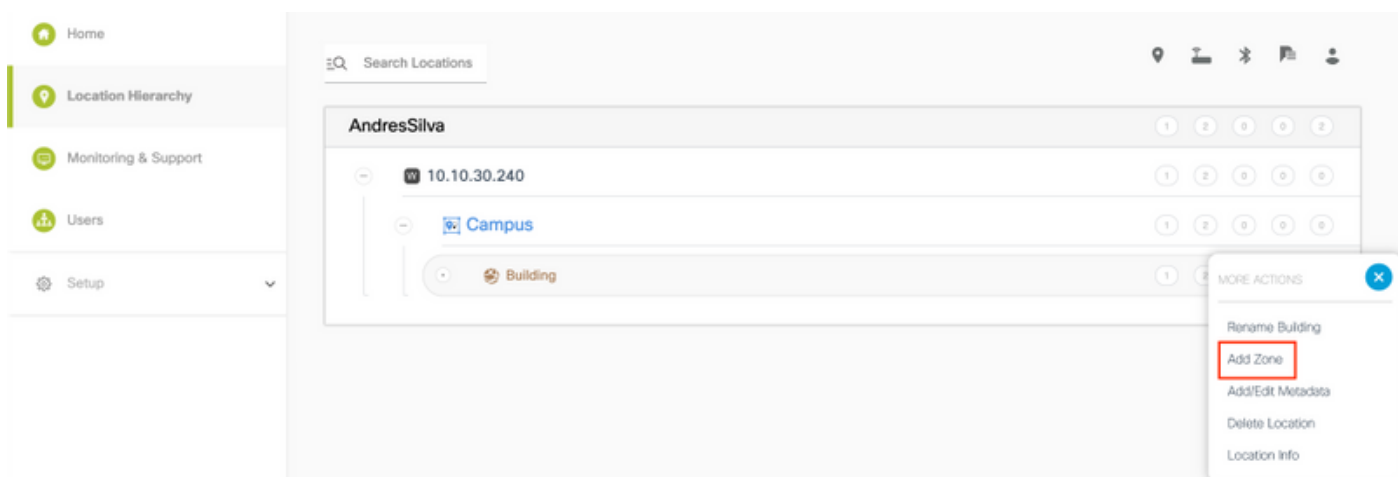


步骤2.将鼠标悬停在Group上，然后选择Add Network。网络或位置在思科DNA空间中定义为物理建筑中整合为位置的所有接入点。

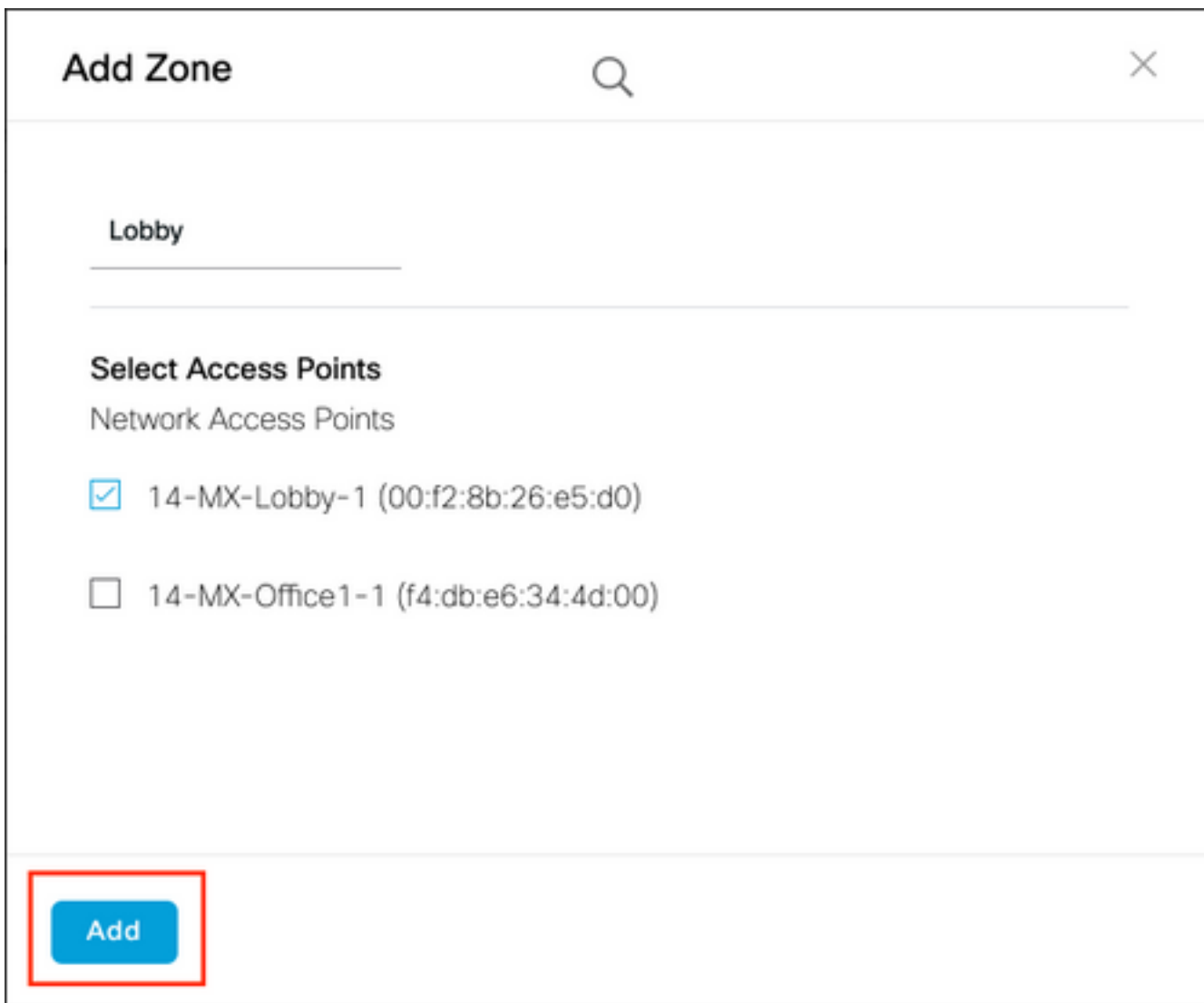


注意：这是位置层次结构中最重要节点，因为业务见解和位置分析计算是从此处生成的。

步骤3.将鼠标悬停在Network（网络）上并选择Add Zone(添加区域)。区域是大楼/位置部分内的接入点集合。它可以根据实体建筑或组织中的部门进行定义。



步骤4.配置区域名并为区域选择AP，然后单击添加：



根据需要重复步骤3和4。

验证

要确认WLC和Cisco DNA空间之间的连接状态，请运行**show cloud-services cmx summary**命令。结果应如下：

```
(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
```

故障排除

目前没有针对此配置的故障排除信息。

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

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