DNA空间与CMX在Prem上的配置示例

目录

简介

本文档介绍如何使用思科互联移动体验(CMX)现场配置思科DNA空间。

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
- 思科CMX

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
- 思科CMX 10.6.1-47

配置

网络图



配置

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

出站代理设置

如果CMX在代理后面,则需要此配置。

步骤1.连接到CMX CLI并运行以下命令:

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

在思科DNA上生成令牌 空格

步骤1.在DNA空间上生成令牌。

登录到Cisco DNA空间,然后导航至Setup > Wireless Setup > Add New



步骤2.选择Cisco AireOS/Catayst:

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.

步骤3.选择通过CMX On-Prem,然后选择CMX的版本。

How do you want to connect to Cisco DNA Spaces?

Via Spaces Connector	Connect WLC directly	Via CMX On-Prem
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	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.	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	Select	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"**

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.	
Quatamina Satur	

步骤5.单击"创建新令牌"。

Upgrade your CMX to Version 10.6	or above	Need Help?
You must have CMX 10.6 and above to establish a connection		Access the below links to view detailed help.
Configure Token in CMX		View Configuration Stone
You will need a token to configure in CMX dashboard. You need to o	connect to https:// <your cmx="" ip=""> from a browser to configure the token.</your>	view Configuration Steps
No CMX Tokens Configured yet	Create New Token	Frequently Asked Questions
	View Tokens	
Add CMX into Location Hierarchy		
Once CMX connected to Cisco DNA Spaces, you can add them into	the location hierarchy.	
	Add CMX	
Campus(s) Imported to		

步骤6.输入令牌的名称和说明,然后单击"保**存"。**

步骤7.在新的"自**定义设置"页面的"在CMX**中配**置令牌"部分下,单**击查看**令牌。**将鼠标悬停在最近创 建的令牌上,然后单击**密钥图标:**

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	P 1 1
First Previous 1 Next Last				(1 - 1 of 1): 1 pages

步骤8.输入您的Cisco DNA空间凭证,查看和复制显示在以下屏幕中的令牌。

在CMX上配置令牌

步骤1.登录Cisco CMX,导航至Manage > Cloud Apps。单击"启用",粘贴令牌并单击"保存"。

Cloud Applications

Description

CMX provides the calculated location of devices that can be used for different types of CMX Applications. These CMX Applications are provided as cloud services. These cloud services are generally configured using a set of northbound notifications from CMX to the CMX Application hosted in the cloud.

An outbound proxy may be required before connecting to the CMX applications - Instructions

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

将CMX添加到位置层次结构思科DNA空间

步骤1.导航至DNA空**间上的Setup > Wireless Networks**,然后单击Add CMX:

Users Setup	Co	Connect via CMX Tethering Tetering is an easy way to get your wireless setwork connected to Cioco DNA Spaces Intering is an easy way to get your wireless setwork connected to Cioco DNA Spaces Intering is an easy way to get your wireless setwork connected to Cioco DNA Spaces Intering is an easy way to get your wireless setwork connected to Cioco DNA Spaces Intering is an easy way to get your wireless setwork connected to Cioco DNA Spaces Intering is an easy and advore to essetwish a connected Intering is an easy way to get your wireless setwork connected to Cioco DNA Spaces Intering is an easy and advore to essetwish a connected to Expression of Cioco DNA Spaces Intering is an easy and advore to essetwish a connected to Expression of Cioco DNA Spaces Intering is an easy and advore to essetwish a connected to Expression of Cioco DNA Spaces Intering is an easy and advore to essetwish a connected to Expression of Cioco DNA Spaces Intering is an easy and advore to essetwish a connected to Expression of Cioco DNA Spaces Intering is an easy and advore to essetwish a connected to Expression of Cioco DNA Spaces Intering is an easy advore to Expression of Cioco DNA Spaces, you can add then into the location Heararchy Intering is an easy add then into the location Heararchy Intering is an easy add then into the location Heararchy Intering is an easy add then into the location Heararchy Intering is an easy add then into the location Heararchy Intering is an easy add to Cioco DNA Spaces, you can add then into the location Heararchy Intering is an easy add then into the location Heararchy Intering is an easy add the location Heararchy Intering is an easy add the location Heararchy Intering is an easy add			
Wireless Networks Map service	() 	Upgrade your CMX to Version 10.6 or above Need Help? You must have CMX to X is and above to establish a connected. Access the backward destable have. Configure Token in CMX Create New Token You will need a taken to configure in CMX dashboard. You need to connect to https://ryour.orm. P> from a browser to configure the taken. View Configuration Steps 1 token(s) added Create New Token View Tokens View Tokens Add CMX into Location Hierarchy Add CMX C ampung(s) imponend to backwith baserby Add CMX C ampung(s) imponend to backwith baserby View Location Hierarchy	đ		

步骤2.选择要导入CMX的位置,然后单击"下一步**"。**如果这是您首次导入CMX,您可能会看到默认 位置,即您的Cisco DNA空间帐户名称。

Add CMX to Location Hierarchy

 \times

Where do you want to import CMX? Choose a location that you want to import. EQ Search Locations ۲ AndresSilva

注意:思科DNA空间不允许添加两个具有相同接入点的CMX节点。

步骤3.配置显**示名称**,并选择要从CMX添加到位置层次结构的园区、建筑和楼层。然后,单击 "Import(导**入)"。**

Add CMX to Location Hierarchy

DISPLAY NAME		
Display name		
	Choose the Sites you want to import	
Campus	Building	Floor
All	All	All
Cisco Mexico	MXC10	14th floor

Cisco DNA空间根据所选站点组织位置层次结构,包括与每个站点关联的AP。

步骤4.根据位置配置每个园区/建筑/楼层的时区。导航至Cisco DNA空间上的位置层次结构。将鼠标 悬停在所需的园区、建筑或楼层上,然后单击**位置信息。**输入值,然后单击"更**新"。**

注意:定义的时区会影响Cisco DNA空间规则和报告。

验证

要确认出站代理已在CMX上配置,请运行以下命令:

[cmxadmin@CMX-andressi ~]\$ cmxos sysproxy show 要确认CMX与思科DNA空间通信,请导航至CMX上的**管理>云应**用,并查看北向通知的统计信息:

Name	Description		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/cmx/notifications /locationUpdate	9	9	0	100.00%	0.00%	548	Reset

要确认位置层次结构已配置为与CMX上一样,请导航至DNA空间**上的位**置层次结构,然后点击 CMX名称:

O Home	EQ. Search Locations	Ŷ	<u>.</u>	*	p.	÷
O Location Hierarchy	AndresSilva			٠	۲	
Monitoring & Support	CMX-Andressi			۲	۲	۲
🚯 Users	Gisco Mexico		2	۲	۲	۲
© Setup ✓	—		1	۲	۲	۲
	 14th floor 	۲	2	٢	۲	۲

故障排除

目前没有针对此配置的故障排除信息。

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