

Exemplo de configuração de DNA Spaces com CMX no local

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Introduction

Este documento descreve como configurar o Cisco DNA Spaces com o Cisco Connected Mobile Experience (CMX) On-Prem.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Acesso à Interface de Linha de Comando (CLI - Command Line Interface) ou Interface Gráfica de Usuário (GUI - Graphical User Interface) para os controladores sem fio AireOS
- Cisco DNA Spaces
- Cisco CMX

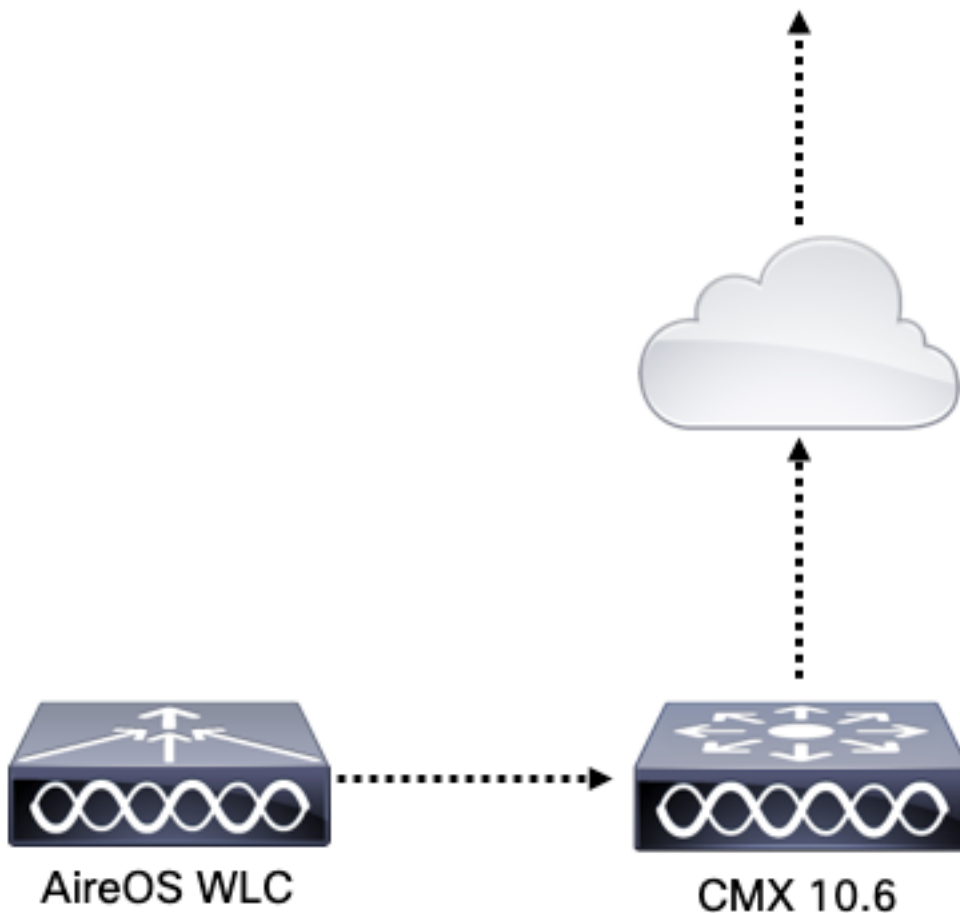
Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- 5520 Wireless LAN Controller (WLC) versão 8.8.120.0
- Cisco CMX 10.6.1-47

Configurar

Diagrama de Rede



Configurações

Para conectar o CMX aos Cisco DNA Spaces, o CMX deve ser capaz de acessar a nuvem do Cisco DNA Spaces sobre HTTPS.

Configuração do proxy de saída

Essa configuração é necessária se o CMX estiver por trás de um proxy.

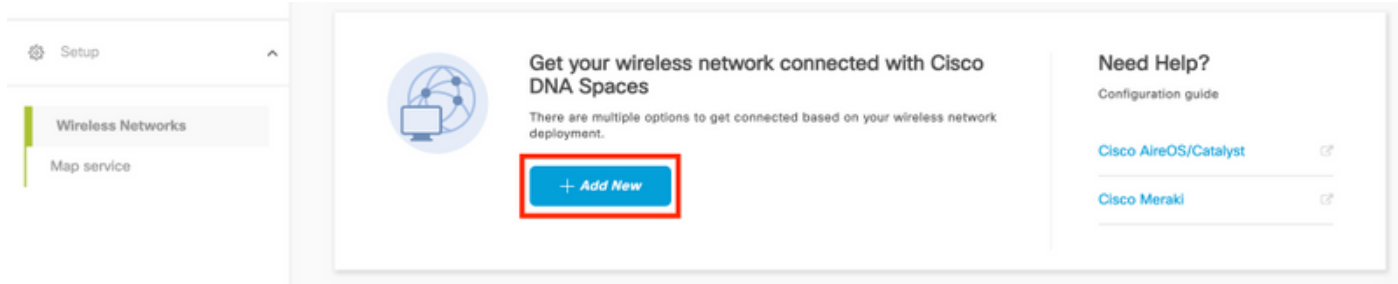
Etapa 1. Conecte-se à CLI do CMX e execute os seguintes comandos:

```
[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 agent start  
[cmxadmin@CMX-andressi ~]$ cmxctl start
```

Gerar o token no Cisco DNA Espaços

Etapa 1. Gere o token em espaços de DNA.

Faça login nos espaços do Cisco DNA e navegue para **Setup > Wireless Setup > Add New**



Etapa 2. Selecione **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

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.

Etapa 3. Escolha **Via CMX On-Prem** e selecione a versão do CMX.

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.

Etapa 4. Clique em **Customize Setup (Personalizar configuração)**

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

Etapa 5. Clique em **Criar novo 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](#)

Etapa 6. Digite o nome e a descrição do Token e clique em **Salvar**.

Passo 7. Na nova página "**Customize Setup**" (**Personalizar configuração**), na seção **Configure Token in CMX**, clique em **View Tokens** (**Exibir tokens**). Passe o mouse sobre o token recém-criado e clique no ícone de tecla:

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	🔑 ✎ 🗑️

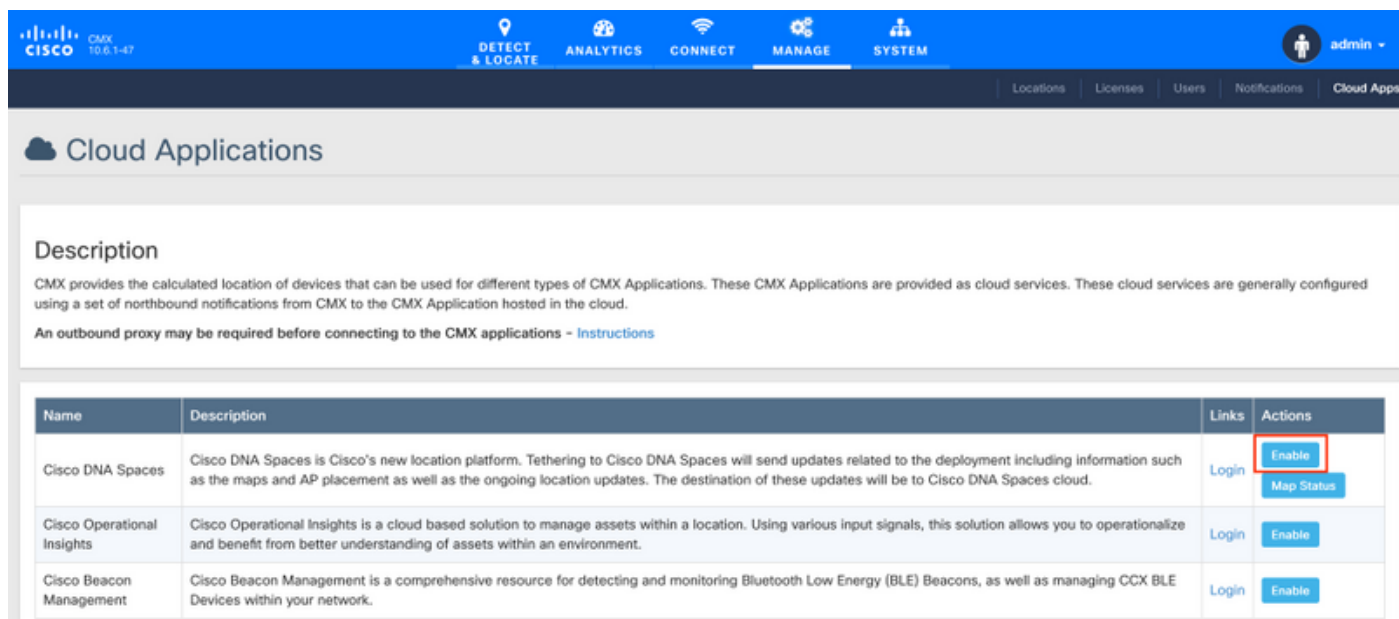
First | Previous | **1** | Next | Last

(1 - 1 of 1) : 1 pages

Etapa 8. Insira suas credenciais do Cisco DNA Spaces para visualizar e copiar o token exibido na tela a seguir.

Configurar o token no CMX

Etapa 1. Faça login no Cisco CMX, navegue para **Gerenciar > Aplicativos em nuvem**. Clique em **Habilitar**, cole o token e clique em **Salvar**.



Cloud Applications

Description

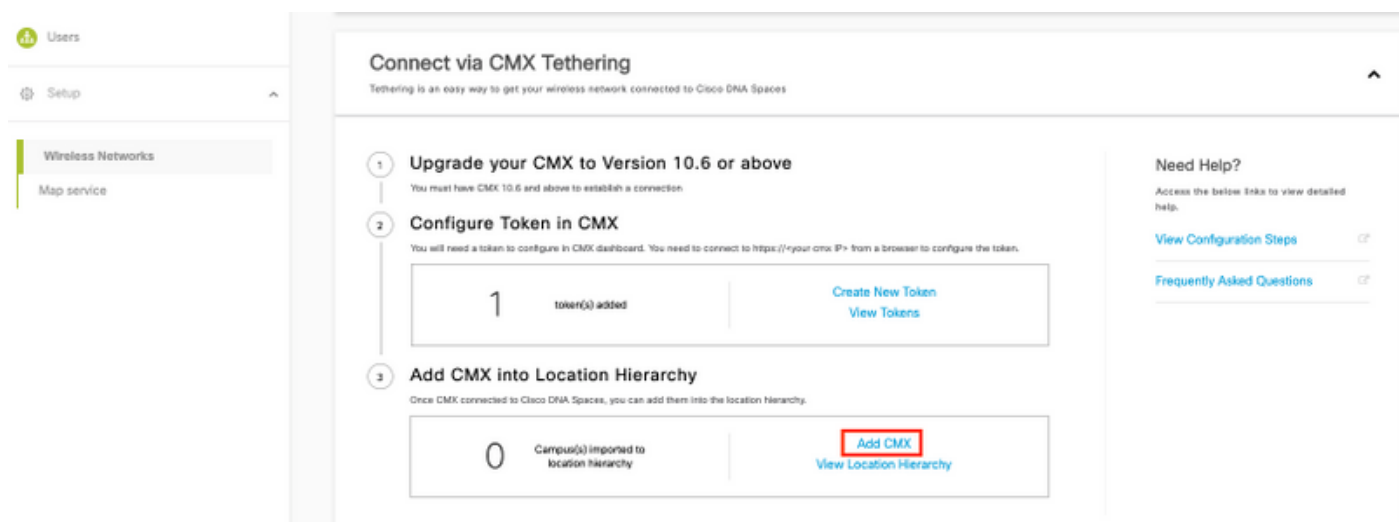
CMX provides the calculated location of devices that can be used for different types of CMX Applications. These CMX Applications are provided as cloud services. These cloud services are generally configured using a set of northbound notifications from CMX to the CMX Application hosted in the cloud.

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

Adicionar CMX à hierarquia de local Cisco DNA Spaces

Etapa 1. Navegue até **Setup > Wireless Networks** em espaços do DNA e clique em **Add CMX**:



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.
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](#)

Need Help?
Access the below links to view detailed help.
[View Configuration Steps](#) [CF](#)
[Frequently Asked Questions](#) [CF](#)

Etapa 2. Escolha o local onde deseja importar o CMX e clique em **Avançar**. Se esta for a primeira vez que você está importando um CMX, você poderá ver o local padrão, ou seja, o nome da conta do Cisco DNA Spaces.

Add CMX to Location Hierarchy



Where do you want to import CMX?

Choose a location that you want to import.

☰ Search Locations

AndresSilva

Note: O Cisco DNA Spaces não permitirá que você adicione dois nós CMX com o mesmo ponto de acesso.

Etapa 3. Configure o **nome de exibição** e selecione o campus, o prédio e os andares que deseja adicionar do CMX à hierarquia de local. Em seguida, clique em **Importar**.

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

Os Cisco DNA Spaces organizam a Hierarquia de Localização com base nos sites selecionados e incluem os APs associados a cada site.

Etapa 4. Configure o fuso horário por campus/prédio/andar com base no local. Navegue para **Hierarquia de local** nos Cisco DNA Spaces. Passe o mouse sobre o campus, o prédio ou o andar necessário e clique em **Location Info (Informações do local)**. Insira os valores e clique em **Atualizar**.

Note: O fuso horário definido afeta as regras e os relatórios do Cisco DNA Spaces.

Verificar

Para confirmar se o Proxy de Saída está configurado no CMX, execute este comando:

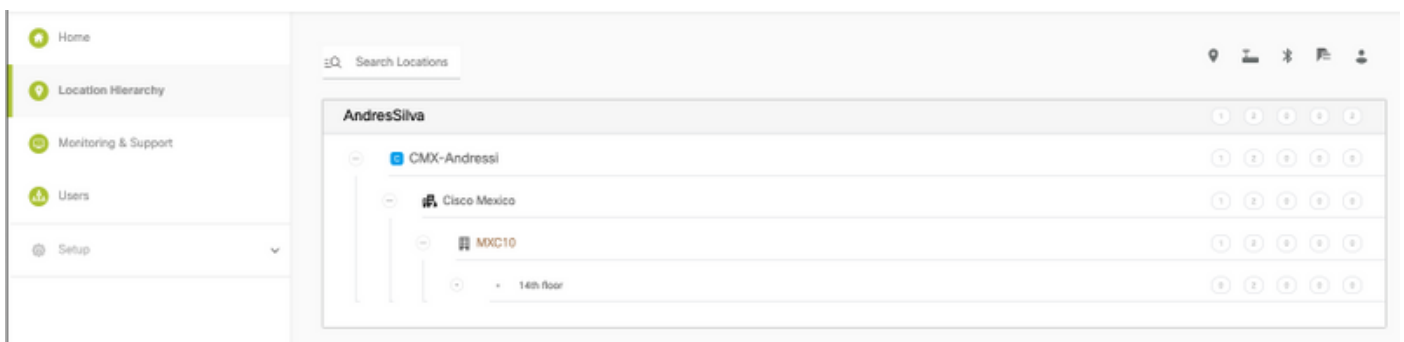
```
[cmxadmin@CMX-andressi ~]$ cmxos sysproxy show
```

Para confirmar que o CMX está se comunicando com os Cisco DNA Spaces, navegue para **Gerenciar > Aplicativos de nuvem** no CMX e veja as estatísticas da notificação ascendente:

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

Para confirmar se a Hierarquia de Local está configurada como no CMX, navegue até **Hierarquia de Local** em Espaços do DNA e clique no nome do CMX:



Troubleshoot

Atualmente, não existem informações disponíveis específicas sobre Troubleshooting para esta configuração.

Sobre esta tradução

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