

Configure and Troubleshoot DNA Spaces and Catalyst 9800 or Embedded Wireless Controller (EWC) with Direct Connect

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Introduction

Instead of Mobility Express, Cisco's latest 9000 series of Access Points (9115, 9117, 9120, 9130) are capable of running Embedded Wireless Controller (EWC) image. EWC is based on Cisco 9800 WLC code and allows one of the Access points to act as a controller for up to 100 other APs.

EWC or the Catalyst 9800 can be connected to DNA Spaces cloud in 3 different ways:

1. Direct Connection
2. Via DNA Spaces Connector
3. Via Cisco Connected Mobile Xperience (CMX) on-prem appliance or VM

Integration with DNA Spaces is supported on every version of EWC. This article will be covering setup and troubleshooting of Direct Connection only for both the EWC on a Catalyst AP and the 9800 as the procedure are identical.

Important: Direct connection is only recommended for deployments of up to 50 clients. For any larger ones, use DNA Spaces Connector.

Prerequisites

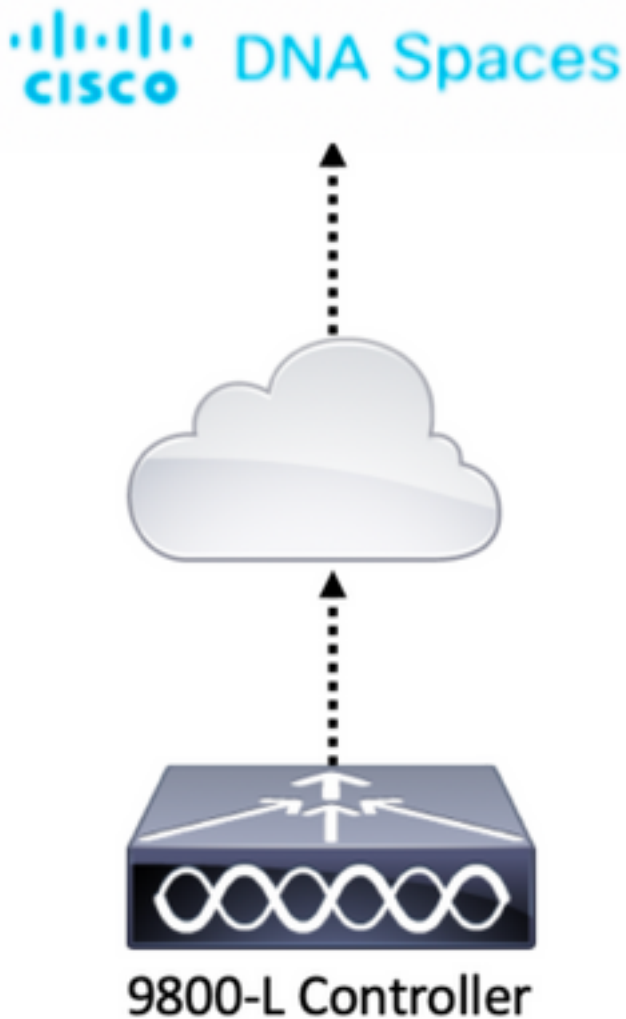
Components Used

- Embedded Wireless Controller image version 17.1.1s or Catalyst 9800-L using 16.12.1
- 9115 AP
- DNA Spaces cloud

Steps outlined in this article assume that the EWC or 9800 has already been deployed and has a working web interface and SSH.

Configure

Network Diagram



Configure the controller

DNA Spaces cloud nodes and the controller are communicating over HTTPS protocol. In this test setup, the controller has been placed behind a NAT with full internet access.

Install root certificate

Before configuring the controller, a DigiCert root certificate needs to be downloaded. SSH into the controller and run:

```
WLC# conf t
Enter configuration commands, one per line. End with CNTL/Z.
WLC(config)# ip name-server <DNS ip>
WLC(config)# ip domain-lookup WLC(config)# crypto pki trustpool import url
https://www.cisco.com/security/pki/trs/ios.p7b
Reading file from http://www.cisco.com/security/pki/trs/ios.p7b
Loading http://www.cisco.com/security/pki/trs/ios.p7b !!!
% PEM files import succeeded.
```

EWC have DNS configured by default using Cisco DNS servers, but it will be a required step for a 9800 controller.

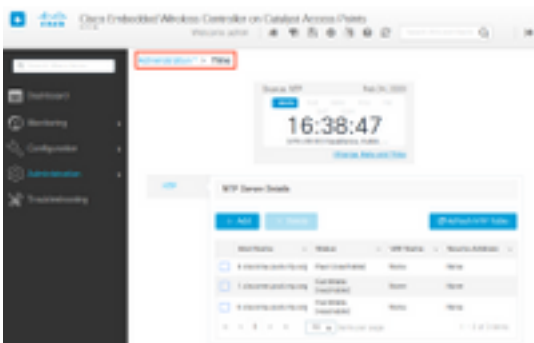
To verify certificate has been installed, run:

```
EWC(config)#do show crypto pki trustpool | s DigiCert Global Root CA
cn=DigiCert Global Root CA
cn=DigiCert Global Root CA
```

Configure via Web Interface

Before the controller can be connected to DNA Spaces, it is required to set up NTP and DNS servers and have at least one AP joined.

Open the web interface of the EWC and navigate to the **Administration > Time**. Make sure that the WLC is synced up with an NTP server. By default, EWC is preconfigured to use `ciscome.pool.ntp.org` NTP servers. In case of 9800, you can use the same NTP or your preferred NTP server:



Navigate to **Administration > DNS** and verify that the DNS server has been added. By default, EWC is preconfigured to use Cisco Open DNS servers:

Cisco Embedded Wireless Controller on Catalyst Access Points
17.1.15
Welcome admin

Administration > DNS

DNS Loopback **ENABLED**

+ Add - Delete

IP Address
<input type="checkbox"/> 208.67.222.222,208.67.220.220

1 - 1 of 1 items

Under **Configuration > Wireless > Access Points**, verify that at least one AP has been joined. This AP can be the same one on which the EWC is running:

Cisco Embedded Wireless Controller on Catalyst Access Points
17.1.15
Welcome admin

Configuration > Wireless > Access Points

All Access Points

Current Primary: 9115
Current Stand...: Not Applicable
Preferred Mas...: Not Configured

Number of AP(s): 1

AP Name	AP Model	Slots	Admin Status	IP Address	Base Radio MAC	AP Mode	Operation Status	Policy Tag	Site Tag	RF Tag	Tag Source
9115	C9115AXI-E	2	<input checked="" type="checkbox"/>	192.168.1.11	f80f.6f15.3fc0	Flex	Registered	Vasa5	default-site-tag	default-rf-tag	Static

1 - 1 of 1 access points

On DNA Spaces cloud, navigate from home page to **Setup > Wireless Networks > Connect WLC/Catalyst 9800 Directly**. Click on **View Token**:

Connect your wireless network

Connect WLC/Catalyst 9800 Directly

1. Install Span Conditions

2. Configure Tables in WLC

3. Import Controllers into Location Hierarchy

View Token

Switch tab to **Cisco Catalyst 9800**. Copy the token and URL:

Token for WLC to connect to DNA Spaces

WLC: Cisco Catalyst 9800

Follow the steps below to configure token in Cisco Catalyst 9800 Series Wireless Controller CLI

- 1 Once you logged in,
 - a. type "config" command
- 2 Execute the following steps in CLI mode
 - a. no nmsp cloud-services enable
 - b. nmsp cloud-services server url <https://vasilijeperovic.dnaspaces.eu>
 - c. nmsp cloud-services server token [TOKEN]

TOKEN

```
eyJ0eXAI0iJKV1QlLCJI...JPGIANMbj4Pe-
```

 - d. nmsp cloud-services enable
- 3 Exit from config
 - a. type "exit" command

In the WLC web interface, navigate to **Configuration > Services > Cloud Services > DNA Spaces**. Paste URL and Authentication Token. If HTTP proxy is being used, specify its IP address and port.

Configuration > Services > Cloud Services

Network Assurance **DNA Spaces**

DNA Spaces Service Configuration

Enable Service

Service URL
Eg. https://<tdf_id>.cmxcisco.com

Authentication Token

HTTP Proxy (Hostname/IP)

Port

Verify that the connection has been successfully established under **Monitoring > Wireless > NMSP**. Service Status should show green arrow:

The screenshot shows the Cisco Embedded Wireless Controller web interface. The breadcrumb navigation is **Monitoring > Wireless > NMSP**. The main content area is divided into two columns: **DNA Spaces Services Status** and **DNA Spaces Services Statistics**.

DNA Spaces Services Status		DNA Spaces Services Statistics	
Server	https://vasilijeperovic.dnaspaces.eu	Tx DataFrames	7
IP Address	63.33.127.190	Rx DataFrames	2
DNA Spaces Service	Enabled	Tx Heartbeat Request	4
Connectivity	https UP	Heartbeat Timeout	0
Service Status	🟢	Rx Subscr Request	2
Last Request Status	HTTP/2.0 200 OK	Tx DataBytes	512
Heartbeat Status	OK	Rx DataBytes	74
		Tx Heartbeat Fail	0
		Rx Data Fail	0
		Tx Data Fail	0

Skip the next chapter and go to the **“Import Controllers into Location Hierarchy”**.

Configuration via CLI

Verify NTP is configured and synced:

```
EWC#show ntp associations
```

```

address      ref clock  st   when   poll reach  delay  offset  disp
*~45.87.76.3 193.79.237.142638 1024 377 10.919 -4.315 1.072
+~194.78.244.172 172.16.200.253 2646 1024 377 15.947 -2.967 1.084
+~91.121.216.238 193.190.230.66 2856 1024 377 8.863 -3.910 1.036
* sys.peer, # selected, + candidate, - outlyer, x falseticker, ~ configured

```

New NTP servers can be added using `ntp server <ntp_ip_addr>` command.

Verify DNS servers have been configured:

```
EWC#show ip name-servers
```

```

208.67.222.222
208.67.220.220

```

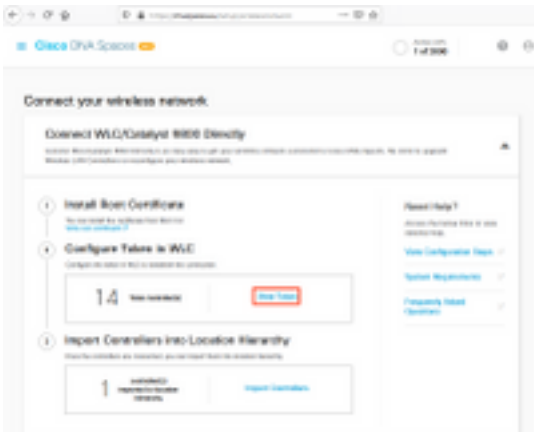
New DNS servers can be added using `ip name-server <dns_ip>` command.

To confirm AP has been joined:

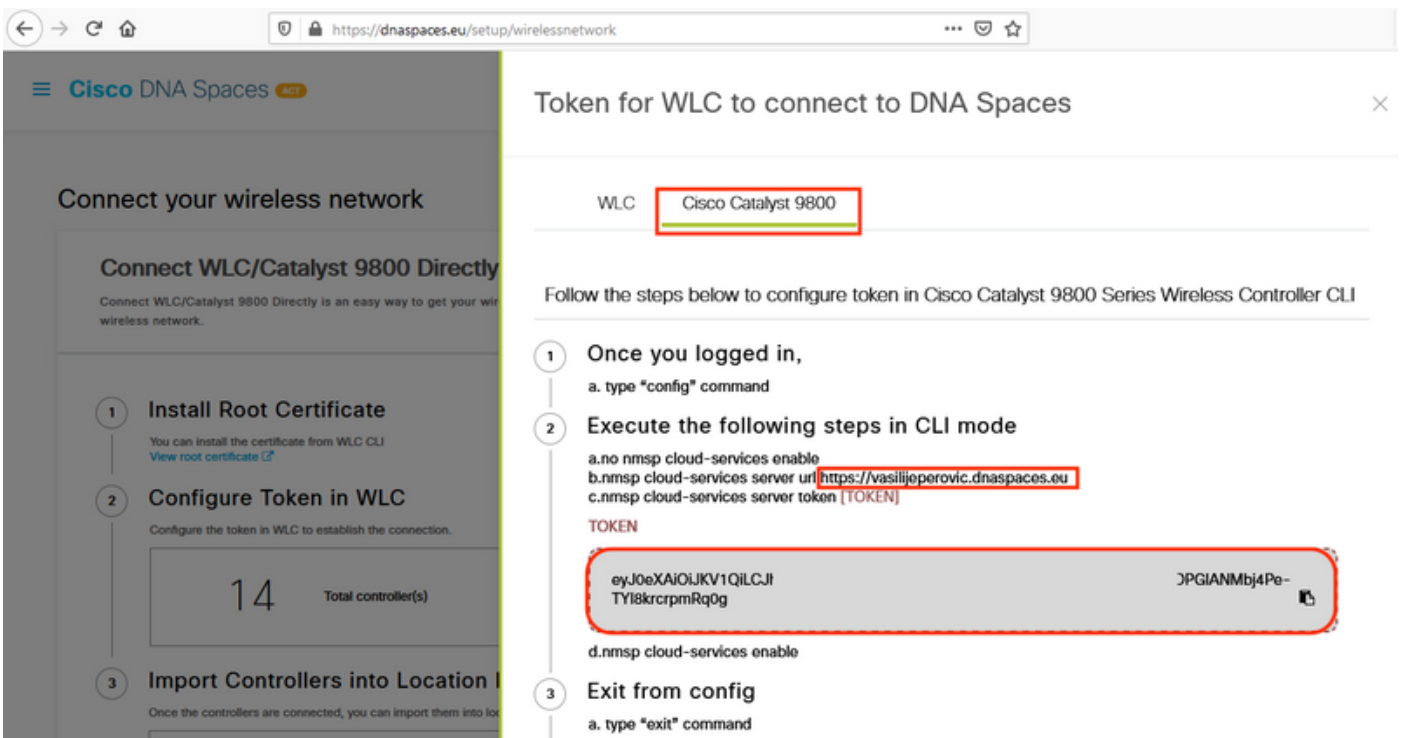
EWC#show ap status

AP Name	Status	Mode	Country
9115	Enabled	Local	BE

Like previously mentioned, access DNA Spaces cloud, navigate to **Setup > Wireless Networks > Connect WLC/Catalyst 9800 Directly** and click **View Token**:



Switch tab to **Cisco Catalyst 9800**. Copy the token and URL:



Run the following commands:

```
CL-9800-01(config)#no nmsp cloud-services enable
CL-9800-01(config)#nmsp cloud-services server url [URL]
CL-9800-01(config)#nmsp cloud-services server token [TOKEN]
CL-9800-01(config)#nmsp cloud-services enable
CL-9800-01(config)#exit
```

To verify that connection with DNA Spaces cloud has been successfully established, run:

CL-9800-01#show nmsp cloud-services summary

CMX Cloud-Services Status

Server : https://vasilijeperovic.dnaspaces.eu

CMX Service : Enabled

Connectivity : https: UP

Service Status : Active

Last IP Address : 63.33.127.190

Last Request Status : HTTP/2.0 200 OK

Heartbeat Status : OK

Import EWC into Location Hierarchy

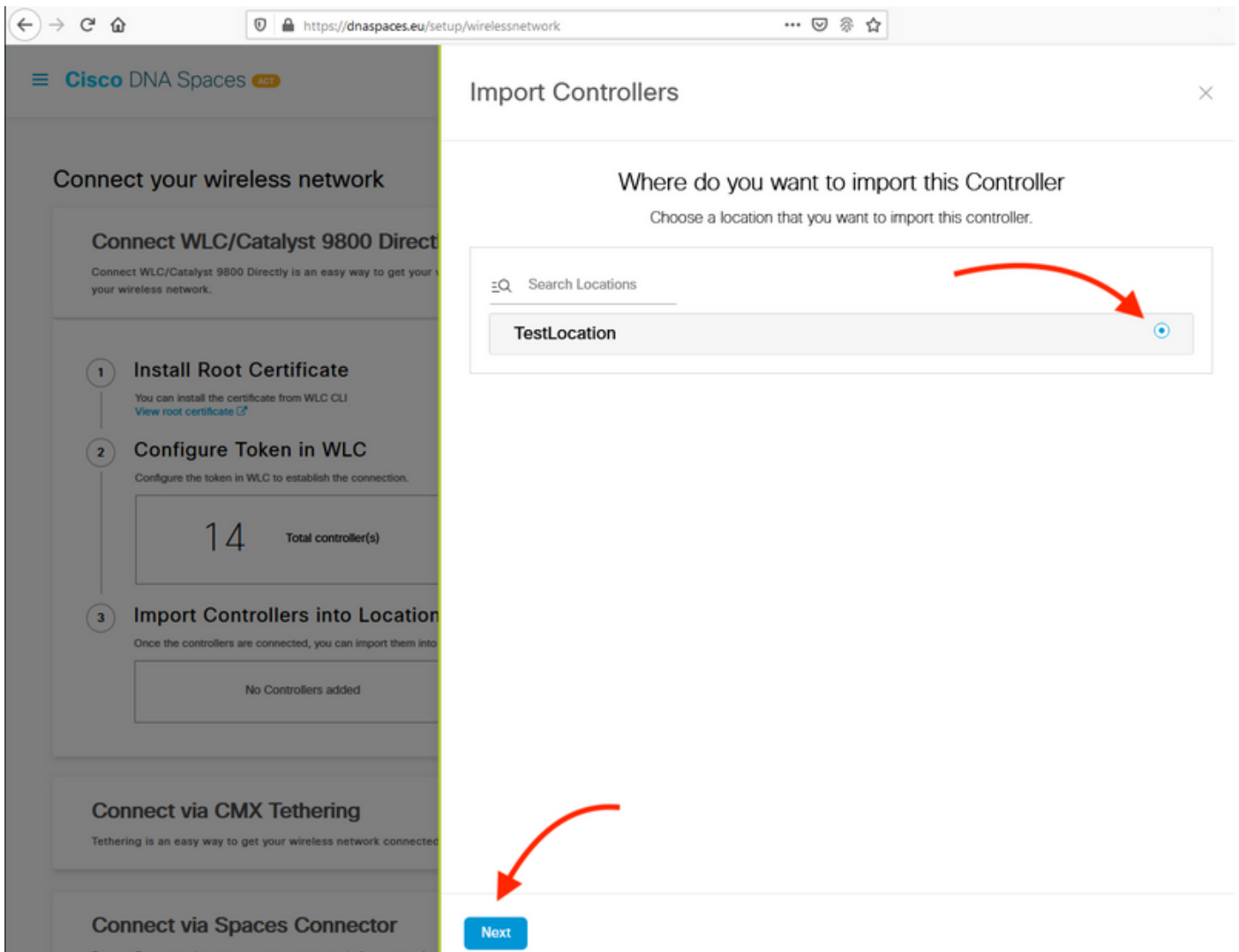
Step 1. The rest of the configuration will be done in DNA Spaces. Under **Setup > Wireless Networks > Connect WLC/Catalyst 9800 Directly**, click on **Import Controllers**.

The screenshot displays the Cisco DNA Spaces interface for connecting WLC/Catalyst 9800 controllers. The page title is "Connect WLC/Catalyst 9800 Directly". Below the title, there is a brief description: "Connect WLC/Catalyst 9800 Directly 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." The main content area is divided into three numbered steps:

- 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." Below this, a box displays "14 Total controller(s)" and a "View Token" button.
- 3 Import Controllers into Location Hierarchy**: "Once the controllers are connected, you can import them into location hierarchy." Below this, a box displays "1 controller(s) imported to location hierarchy" and a red-bordered "Import Controllers" button.

On the right side, there is a "Need Help?" section with links for "View Configuration Steps", "System Requirements", and "Frequently Asked Questions". The top navigation bar shows "Cisco DNA Spaces" and "Active APs 1 of 2000".

Step 2. Check the radio button next to your account name and click Next. If you already have some Locations added, they will show up in the list below:



Step 3. Find your controller IP address, check the box next to it and press **Next**:



Step 4. Since no other Locations have been added, just click Finish:



Step 5. Prompt saying the WLC has been successfully imported into Location Hierarchy will pop up:



Controller successfully imported to location hierarchy!

Total controllers added : 1
Total number of APs : 1
Total number of Locations : 0

Would you like to organize your location hierarchy

Yes, take me to location hierarchy

No, Continue with Setup

Now that the WLC has been successfully connected to the cloud, you can start using all other DNA Spaces features.

Note: NMSP traffic always uses the Wireless Management interface for communicating with DNA Spaces or CMX. This can not be changed in the 9800 controller configuration. The interface number would be irrelevant, whichever interface is assigned as a Wireless Management Interface on the 9800 controller will be used.

Organize the Location Hierarchy on Cisco DNA Spaces

If a new location hierarchy is desired or if no locations were added in step 4 of the **Import the 9800 controller to Cisco DNA Spaces** section, you can configure them manually.

Location hierarchy is one of the most important features of DNA spaces as it is used for analytics information and based on it, the rules of the captive portals are configured. The more granular the location hierarchy is the more granular control one has over the rules of the captive portal and over the information that can be retrieved from DNA Spaces.

The location hierarchy feature on DNA Spaces works the same way as the traditional hierarchy from Cisco Prime Infrastructure or Cisco CMX, but the naming is quite different. When the controller is imported into the location hierarchy, it represents the equivalent as the **campus** from the traditional hierarchy; under the controller, **groups** can be created that are the equivalent to **buildings**; then, under the groups, **networks** can be configured that are the equivalent to **floors**, finally, under the networks, zones can be created that remains in the same level than they used to in the traditional location hierarchy. To sum up, this is the equivalence:

Table 1. Equivalence between the traditional hierarchy levels with the levels of DNA spaces.

DNA Spaces Hierarchy	Traditional Hierarchy
Controller (Wireless Network)	Campus
Group	Building
Network	Floor
Zone	Zone

Step 1. Configure a group. Groups organize multiple locations or zones based on geolocation, brand or any other type of grouping depending on the business. Navigate to **Location Hierarchy**, hover the mouse on the existing wireless controller and click on **Create Group**.



To change the name of the location level, hover the mouse on the network and click "**Rename**".

Step 2. Enter the Group name and select the **Unconfigured** location as that includes all the APs imported with the controller, those APs will be mapped then to networks and zones as needed. Click **Add**.

Add Group ×

MXC-10-Building

Select Location

Unconfigured

Add Cancel

Step 3. Create a network. A network or location is defined in Cisco DNA Spaces as all access points within a physical building consolidated as a Location. Hover the mouse on the Group and click **Add Network**.

MEX-EAST-1		11	8	0	4	0	0
+	5508-1-CMX	1	1	0	2	0	0
+	5508-2-Connector-Campus	2	2	0	0	0	0
+	5520-DirectConnect	2	1	0	1	0	0
-	9800L-Mexico-Campus	1	1	0	0	0	0
+	MXC-10-Building	1	1	0	0	0	0
+	efmLocation	2	2	0	0	0	0
+	Lisboa	3	1	0	0	0	0

MORE ACTIONS ×

- Rename MXC-10-Bui...
- Create Group
- Edit Group
- Add Network**
- Add/Edit Metadata
- Delete Location

Note: This is the most important node in the Location Hierarchy as business insights and location analytics calculations are generated from here.

Step 4. Enter the network name and the access point prefix, click **Fetch**. DNA Spaces fetches all the APs associated to that controller with that prefix and allows one to add the APs to the floor.

Only one prefix can be entered.

Add Network ✕

10.10.30.5

NETWORK NAME
Second Floor

ACCESS POINT PREFIX
28 **Fetch**

Matching access points will be shown below

1 Following access points are discovered based on provided prefix and will be added to this network.
2802AP-9800L

Done

Step 5. In case more prefixes are needed in the network. Click the network name, in the **Location Info** tab click the **Edit** button next to **Access Points Prefix Used**.

[Back](#) | [MEX-EAST-1](#) > [9800L-Mexico-Campus](#) > [MXD-10-Building](#) > [Second Floor](#)

Location Info | Access Points | Rules | Maps | Team | Camera

Second Floor ✎

NODE TYPE: Network | NETWORK REFERENCE: 28

Access Points Prefix Used **Edit**

28

Location Data **Edit**

Enter the prefix name, click **+Add Prefix**, and **Save**. Repeat for all the prefixes as needed, this will map the APs to the network and allow to map associate the APs to zones later.

Location name
Second Floor

Choose Access Points that are part of this location

Provide one or more prefixes that can be used to automatically match the Access Points belonging to this location

Prefix 28 + Add Prefix	Added Prefixes 28 1 APs
1 Access Points match the prefix "28" 2802AP-9800L Second Floor	

[Cancel](#) **Save**

Step 6. Create a Zone. A zone is a collection of access points within a section of a building/location. It can be defined based on the departments in a physical building or an organization. Hover the mouse on the Network and select **Add Zone**.

MEX-EAST-1		12	8	0	4	0	0
+	5508-1-CMX	1	1	0	2	0	0
+	5508-2-Connector-Campus	2	2	0	0	0	0
+	5520-DirectConnect	2	1	0	1	0	0
-	9800L-Mexico-Campus	2	1	0	0	0	0
-	MXC-10-Building	2	1	0	0	0	0
-	Second Floor	1	1	0	0	0	0
-	Unconfigured	1	0	0	0	0	0
+	efmLocation	2	2	0	0	0	0
+	Lisboa	3	1	0	0	0	0

MORE ACTIONS

- Rename Second Flo...
- Add Zone**
- Add/Edit Metadata
- Delete Location

Step 7. Configure the **Zone Name** and select the APs for the zone, and click **Add**:

Add Zone

Wireless-Zone

Select Access Points

Network Access Points

- 2802AP-9800L (10:b3:d6:94:00:e0)

Add

Troubleshoot & Common Issues

Common Issues

The web interface page under **Monitoring > Wireless > NMSP** (or running `show nmsp cloud-services summary` command) will usually show enough information about the connection failure. Several common mistakes can be found in the screenshots below:

1. When DNS is not configured, the error message “*Transfer error (6): Couldn't resolve host name*” shows up:

The screenshot shows the Cisco Embedded Wireless Controller web interface. The breadcrumb navigation is **Monitoring > Wireless > NMSP**. The page displays the following information:

DNA Spaces Services Status	
Server	https://vasilijeperovic.dnaspaces.eu
IP Address	127.0.0.1
DNA Spaces Service	Enabled
Connectivity	DOWN
Service Status	⬇️
Last Request Status	Transfer error (6): Couldn't resolve host name
Heartbeat Status	

DNA Spaces Services Statistics	
Tx DataFrames	0
Rx DataFrames	0
Tx Heartbeat Request	3
Heartbeat Timeout	0
Rx Subscr Request	0
Tx DataBytes	0
Rx DataBytes	0
Tx Heartbeat Fail	1
Rx Data Fail	0
Tx Data Fail	0

Certificate not being installed or NTP not being configured both result with the error message saying: “*Transfer error (60): SSL peer certificate or SSH remote key was not OK*”:

Monitoring > Wireless > NMSP

Cloud Services DNA Spaces Information Statistics Service Subscription Controller Settings

DNA Spaces Services Status		DNA Spaces Services Statistics	
Server	https://vasilijeperovic.dnaspaces.eu	Tx DataFrames	0
IP Address	208.67.222.222	Rx DataFrames	0
DNA Spaces Service	Enabled	Tx Heartbeat Request	2
Connectivity	DOWN	Heartbeat Timeout	0
Service Status	⊕ Transfer error (60): SSL peer certificate or SSH remote key was not OK	Rx Subscr Request	0
Last Request Status		Tx DataBytes	0
		Rx DataBytes	0
		Tx Heartbeat Fail	1
		Rx Data Fail	0
Heartbeat Status		Tx Data Fail	0

Radioactive Tracing

EWC, like all other 9800 controllers, supports always-on Radioactive Traces. In order to collect them and see why the connection is not being established, it is required to know which DNA Spaces IP address the EWC is reaching out to. This can be found under **Monitor > Wireless > NMSP** or through the CLI:

```
EWC#show nmsp status
```

```
NMSP Status
```

```
-----
```

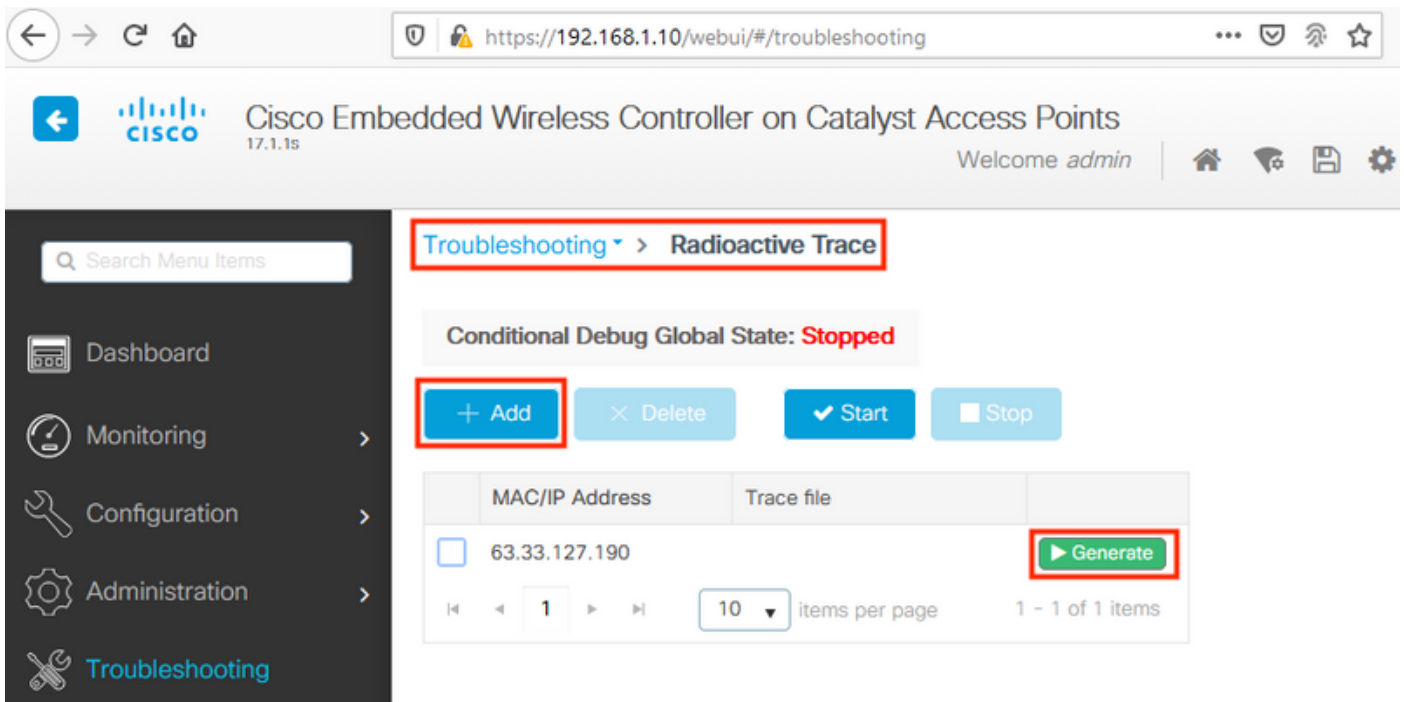
```
CMX IP Address      ActiveTx Echo Resp  Rx Echo Req  Tx Data Rx Data Transport
```

```
-----
```

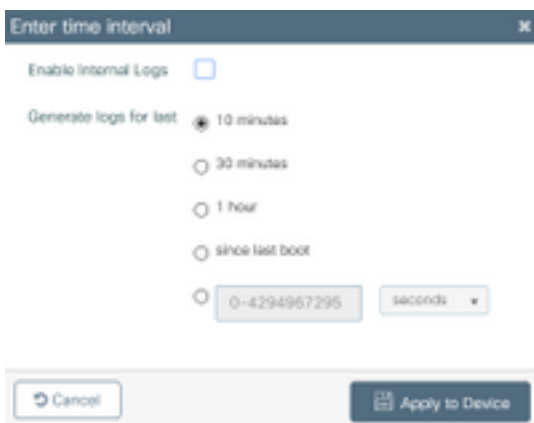
```
--
```

```
63.33.127.190      Active0          0           38          2           HTTPS
```

The EWC in this test setup is connecting to 63.33.127.190. Copy this IP address and navigate to **Troubleshooting > Radioactive Trace**. Click Add, paste the IP address and click Generate:



Select **Generate logs** for the last 10 minutes and click Apply. Enabling Internal Logs can generate large amounts of data that might be hard to analyze:



Note: Misconfigured DNS, NTP and lack of certificate will not generate any Radioactive Traces

Example of a Radioactive Trace in a case where Firewall is blocking the HTTPS:

```

2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-main] [11100]: (note): CMX [63.33.127.190]:[32]:
closing
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-https] [11100]: (debug): Called 'is_ready'
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-main] [11100]: (info): CMX [63.33.127.190]:[32]:
Processing connection event NMSP_APP_LBS_DOWN(201)
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-db] [11100]: (info): Started or incremented
transaction (TID: -1, ref count: 1, started: 0, abort: 0)
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-enc] [11100]: (debug): Decoding control message
structure
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-enc] [11100]: (debug): Control structure was
successfully decoded from message
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-db] [11100]: (debug): Retrieving CMX entry: 32
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-db] [11100]: (ERR): CMX entry 32 not found
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmosp-main] [11100]: (debug): CMX Pool processing NMSP
message (id: event NMSP_APP_LBS_DOWN(201), length: 48, client: 0, CMX id: 32)

```

```
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmspd-db] [11100]: (info): Ending transaction (TID: -1,
ref count: 1, started: 0, abort: 0)
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmspd-db] [11100]: (info): Ended transaction (TID: -1,
ref count: 0, started: 0, abort: 0)
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmspd-client] [11100]: (debug): NMSpD IPC sent message
to NMSpD NMSp message (id: event NMSp_APP_LBS_DOWN(201), length: 48, client: 0, CMX id: 32)
successfully
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmspd-main] [11100]: (info): CMX [63.33.127.190]:[32]:
successfully broadcasted IPC event NMSp_APP_LBS_DOWN(201)
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmspd-main] [11100]: (note): CMX [63.33.127.190]:[32]:
down
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmspd-main] [11100]: (debug): NMSp timer 0xab774af4:
close
2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): Decrease reference count
for https_con object: Now it's 1
```

Example of Radioactive Trace for a successful connection with the cloud:

```
2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (note): Server did not reply to
V2 method. Falling back to V1.
2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): Cloud authentication 2
step failed, trying legacy mode
2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (note): Set connection status
from HTTP_CON_AUTH_PROGRESS_2STEP to HTTP_CON_AUTH_IDLE
2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): tenant ID:
vasilijeperovic
2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): hostname is:
data.dnaspaces.eu
2020/02/24 18:53:20.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (note): Starting authentication
V1 using Heartbeat URL https://data.dnaspaces.eu/api/config/v1/nmspconfig and Data URL
https://data.dnaspaces.eu/networkdata
2020/02/24 18:53:20.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (note): Set connection status
from HTTP_CON_AUTH_IDLE to HTTP_CON_AUTH_PROGRESS_1STEP
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): tenant ID:
vasilijeperovic
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): hostname is:
data.dnaspaces.eu
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): Authenticator V1 get
heartbeat host: https://data.dnaspaces.eu/api/config/v1/nmspconfig
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): Authenticator V1 get
access token: eyJ0eX[information omitted]rpmRq0g
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-db] [11100]: (debug): DNSs used for cloud
services: 208.67.222.222,208.67.220.220
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): Using nameservers:
208.67.222.222,208.67.220.220
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): IP resolution preference
is set to IPv4
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-https] [11100]: (debug): Not using proxy for
cloud services
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-dump-https] [11100]: (debug): Found bundle for
host data.dnaspaces.eu: 0xab764f98 [can multiplex]
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-dump-https] [11100]: (debug): Re-using existing
connection! (#0) with host data.dnaspaces.eu
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-dump-https] [11100]: (debug): Connected to
data.dnaspaces.eu (63.33.127.190) port 443 (#0)
2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmspd-dump-https] [11100]: (debug): Using Stream ID: 3
(easy handle 0xab761440)
2020/02/24 18:53:21.636 {nmspd_R0-0}{1}: [nmspd-dump-https] [11100]: (debug): POST
/api/config/v1/nmspconfig/192.168.1.10?recordType=nmsp_hrbt_init&jwttoken=eeyJ0eX[information
omitted]70%3A69%3A5a%3A74%3A8e%3A58 HTTP/2
Host: data.dnaspaces.eu
Accept: */*
Accept-Encoding: gzip
```

2020/02/24 18:53:21.665 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): **We are completely uploaded and fine**
HTTP/2 200