



Connect Connector to Cisco Catalyst 9800 Series Wireless Controllers

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Configure and Test the Connection Between Connector and Catalyst 9800 Controller

Before you begin

1. Deploy a connector OVA and activate it using a token from Cisco Spaces.
2. Note down the IP address of a Catalyst 9800 controller that is reachable from the Cisco Spaces: Connector.
3. On the Catalyst 9800 controller CLI, enter the config mode and enable AAA with local authentication using the **aaa authorization exec default local** and **aaa authentication login default local** commands.

On the Catalyst 9800 controller CLI, run the following command in the **enable** mode:

```
show run | sec aaa
```

From the output that is displayed, copy the configuration for **aaa authorization exec default**. In the **config** mode, append the configuration for local authentication to the copied configuration and configure the appended configuration.

For instance, if the output displays **aaa authorization exec default group dnac-network-tacacs-group**, the appended configuration is **aaa authorization exec default group dnac-network-tacacs-group local**. This ensures that the existing configuration is not overwritten.

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- Step 1** Log in to Cisco Spaces.
- Step 2** In the Cisco Spaces dashboard, choose **Setup > Wireless Networks**.
- Step 3** Expand the **Connect via Spaces Connector** area using the respective drop-down arrow to display a list of steps.
- Step 4** To test the connectivity from the Connector to an existing Catalyst 9800 controller, click **View Controllers** in the **Step 3 Area**.
- a) Click the pencil icon to edit a Catalyst 9800 controller.
 - b) Choose an active Connector from the **Connector** drop-down list to enable the **Test Connectivity** button.

c) Go to [Step 8](#) to test the connectivity to an existing AireOS controller.

Step 5

To add a new Catalyst 9800 controller, click **Add Controllers** from the **Step 3** Area.

Figure 1: Add a New Catalyst 9800 controller

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

- #### 1 Install Spaces Connector OVA

Download and install Spaces Connector OVA as a virtual machine.
[Download Spaces Connector](#)
- #### 2 Configure Spaces Connector

You will need a token to configure Spaces Connector. You need to connect to `https://<your connector IP>/` from a browser to configure the token. You can optionally configure Spaces Connector to connect via HTTPS proxy.

0 / 46 connector(s) active

[Create a new token](#)
[View Connectors](#)
- #### 3 Add Controllers

Add and associate controllers to your Cisco DNA Spaces Connector(s)

0 / 14 controller(s) active

[Add Controllers](#)
[View Controllers](#)
- #### 4 Import Controllers into Location Hierarchy

Once the controllers are added, you can import them into your location hierarchy. You can only import controllers with at least one access point.

0 / 14 controller(s) imported to location hierarchy

[Import Controllers](#)
[View Location Hierarchy](#)

Step 6

From the **Connector** drop-down list, choose a Connector.

Step 7

Enter the **Controller IP** address, **Controller Name**, and from the **Controller Type** drop-down list, choose **Catalyst WLC** to connect to a Cisco Catalyst 9800 Series Wireless Controllers.

Step 8

Do one of the following:

- Enter **Netconf username**, **Netconf password**, and **Enable password**. This choice allows the Connector to recover gracefully from NMSP drops and push a fresh configuration to the Catalyst 9800 controller whenever required. If you have not configured an **enable** password in Catalyst 9800 controller you can skip configuring the **Enable password** in this step.
- Copy the configuration commands in the **Catalyst WLC CLI commands** section and run them manually on the Catalyst 9800 controller CLI.

Step 9

(Optional) Run the PING and SSH functionalities to test the reachability to the Catalyst 9800 controller and the credentials by clicking **Test Connectivity**. Note that **Test Connectivity** is available only for an active Connector.

Figure 2: Add a New Catalyst 9800 controller

Add Controller

Controller Name

Controller Type
 Catalyst WLC / Catalyst 9800 ^

Netconf Username

Netconf Password
 [SHOW](#)

Enable Password
 [SHOW](#)

Catalyst WLC CLI Commands

```

aaa new-model

username dca9048dd2f8 mac aaa attribute list cmx_dca9048dd2f8

aaa attribute list cmx_dca9048dd2f8

attribute type password
7e634b76188bf588d9a0922635d8bfd5eb882b5c159df64984bc4579ab8b8c

aaa authorization credential-download wcm_loc_serv_cert local
        
```

[Test Connectivity](#) Connectivity test is successful

[Save & Close](#) [Save & Add Next Controller](#)

Table 1: Error Description

Status of PING	Status of SSH Credential Test	Meaning of status message combination and possible checks.
SUCCESSFUL	SUCCESSFUL	Connectivity test is successful.

Status of PING	Status of SSH Credential Test	Meaning of status message combination and possible checks.
SUCCESSFUL	FAILED	<p>Ping test to the Catalyst 9800 controller is successful. But SSH test has failed. Check the following:</p> <ul style="list-style-type: none"> a. Is SSH enabled on the controller? b. Is the SSH port 22 of the Catalyst 9800 controller reachable from the Connector? c. Have you provided accurate SSH read-write credentials?
FAILED	SUCCESSFUL	Connectivity test is successful.
FAILED	FAILED	<p>Both Ping and SSH test to the Catalyst 9800 controller have failed. Check the following:</p> <ul style="list-style-type: none"> a. Is there IP connectivity between Connector and controller? b. Is SSH enabled on the Catalyst 9800 controller? c. Is the SSH port 22 of the Catalyst 9800 controller reachable from the Connector? d. Have you provided accurate SSH credentials? e. Is AAA enabled with local authentication? f. Are you using an interface that is NOT the wireless management interface for NMSP and SSH connectivity?

Step 10

Click **Save**, and then click **Close**.

You can see the new Catalyst 9800 controller in the **Controller Channel** area of the Connector GUI. The Catalyst 9800 controller that is connected successfully to the Connector appears as **Active**. It takes approximately five minutes for the wireless controller to change to the **Active** state. Refresh your window to view the status change. The added Catalyst 9800 controller is also listed in the **Controller Channel** area of the Connector.

Figure 3: Details of the Catalyst 9800 controller

Controller Channel			
TDL Incoming Msg Rate	0.00 events/second		
TDL Incoming Msg Count	281		
IP Address ↕	Connected At ↕	Msg Rate/Second ↕	Status ↕
172.20.239.41	Wed, Jul 29th, 2020	29	ACTIVE

You can multiple Catalyst 9800 controllers to a Connector.

What to do next

You can import the added Catalyst 9800 controller to the Cisco Spaces location hierarchy.

