



# Connect Connector to Cisco AireOS Wireless Controller

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## Configure and Test Connectivity Between a Connector and AireOS Controller

### Before you begin

- Deploy a Connector OVA and activate it using a token from Cisco Spaces.
- Ensure that the IP address of a Cisco AireOS Wireless Controller is reachable from the Cisco Spaces: Connector.



### Restriction

- In the context of [CSCvk38081](#), we recommend that you do not add Connector on the same subnet as the dynamic interface of the AireOS controller. However, if you cannot follow this recommendation, you can add the AireOS controller to Connector and configure all the SNMP queries to the IP address of the dynamic interface of the controller.
- We also recommend that you do not add Connector on the same subnet as the service port of the AireOS controller. However, if you cannot follow this recommendation, you can add the AireOS controller to Connector and configure all the SNMP queries to the IP address of the service port of the controller.
- This restriction is a result of a limitation in the AireOS controller. While SNMP queries are usually made to the management IP address, the SNMP response packets are returned with a source IP address field that is configured with the IP address of the dynamic interface or source port.

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**Step 1** Log in to **Cisco Spaces**.

**Note** The Cisco Spaces URL is region-dependent.

**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 AireOS controller, click **View Controllers** in the **Step 3** area, and do the following steps:

- Click the pencil icon to edit an AireOS controller.
- Choose an active Connector from the **Connector** drop-down list to enable the **Test Connectivity** button.
- Go to [Step 8](#) to test the connectivity to an existing AireOS controller.

**Step 5** To add a new AireOS controller, click **Add Controllers** from the **Step 3** area.

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

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- 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 and **Controller Name**, and from the **Controller Type** drop-down list, choose **WLC (AireOS)** to connect to an AireOS controller.

**Step 8** From the **Controller SNMP Version** drop-down list, choose the SNMP version of the AireOS controller.

- If you choose the **SNMP** version as **v2C**, specify the SNMP read-write community.
- If you choose the **SNMP** version as **v3**, specify the SNMP v3 version username, password, and authentication protocol credentials. Ensure that SNMP v3 has read-write permissions in the AireOS controller.

**Note** Both SNMP v2c and SNMP v3 must have read-write permission in the AireOS controller to register the Connector certificate in the AireOS controller. The Connector doesn't support SNMP v1.

### Add a Cisco AireOS Wireless Controller (AireOS controller)

#### Add Controller

Controller Type  
WLC (AireOS) ^

Controller SNMP Version  
v3 ^

Username  
[Redacted]

Authentication Protocol  
HMAC-MD5 ^

Password  
[Redacted] SHOW

Privacy Protocol  
CBC-DES ^

Privacy Password  
[Redacted] SHOW

Test Connectivity Ping test to the controller is successful. But SNMP test has failed. Please check

1. Is SNMP enabled on the controller?
2. Can the connector reach SNMP port 161 on the controller?
3. Are correct SNMP RW credentials provided?

Save & Close Save & Add Next Controller

**Step 9** Click **Test Connectivity** . Connector issues ping and SNMP commands to check the connectivity to Cisco Spaces using the credentials provided.

**Note** **Test Connectivity** is enabled only when an active Connector is chosen.

**Table 1: Error Description**

Status of PING	Status of SNMP Test	Displayed Test Connectivity Message
SUCCESSFUL	SUCCESSFUL	Connectivity test is successful

Status of PING	Status of SNMP Test	Displayed Test Connectivity Message
SUCCESSFUL	FAILED	<p>Ping test is successful, but SNMP test failed. Check the following:</p> <p>Ping test to the AireOS controller is successful, but SNMP test has failed. Check the following:</p> <ul style="list-style-type: none"> <li>• If you are using v2c SNMP, check if the community strings are valid.</li> <li>• If you are using v3 SNMP, check if the credentials are correct.</li> <li>• Check if v2c or v3 mode is enabled in the controller.</li> </ul>
FAILED	FAILED	<p>Both ping and SSH test to the AireOS controller have failed. Check the following:</p> <ul style="list-style-type: none"> <li>• Is there IP connectivity between a Connector and a controller?</li> <li>• Is SSH enabled on the AireOS controller?</li> <li>• Is the SSH port 22 of the AireOS controller reachable from the Connector?</li> <li>• Have you provided accurate SSH credentials?</li> <li>• Is AAA enabled with local authentication?</li> <li>• Are you using an interface that is <i>not</i> the wireless management interface for NMSP and SSH connectivity?</li> </ul>

**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 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.

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

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### What to do next

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

