Configure Offline (Air-gapped) Licensing on 9800 WLC

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Introduction

This document describes how to configure offline (air-gapped) licensing on Catalyst 9800 Wireless LAN Controller (WLC).

Prerequisites

Requirements

Recommended knowledge of 9800 WLC and Cisco License Central portal basic operation.

Components Used

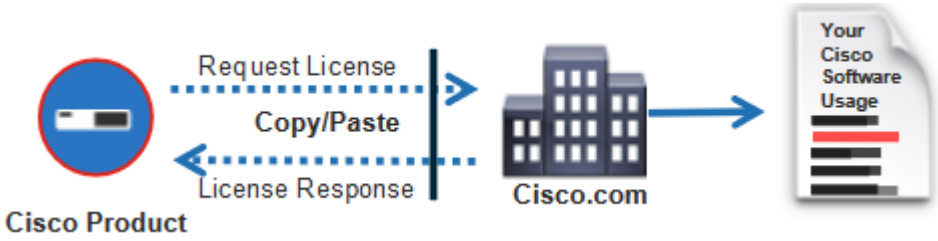
The information in this document is based on these software and hardware versions but applies to all versions after 17.3:

- Virtual 9800-CL WLC version 17.9.5

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

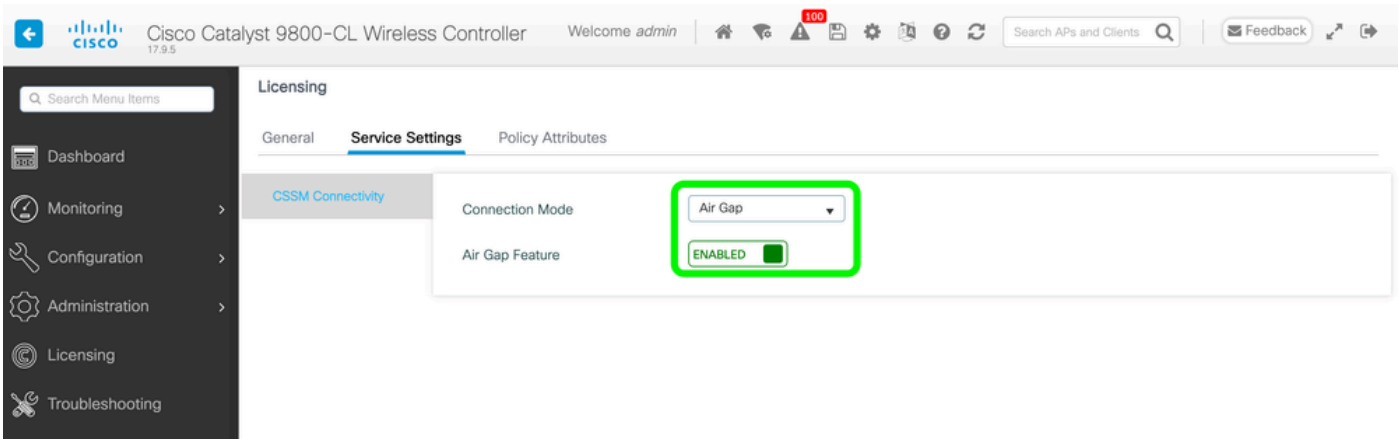
Network Diagram



Configurations

Step 1. On the WLC

1. Set Licensing connection mode to **Air Gap** and **AirGap Feature** to **Enabled:**



The CLI equivalent is:

```
9800-17-09-05(config)#license smart transport off
```

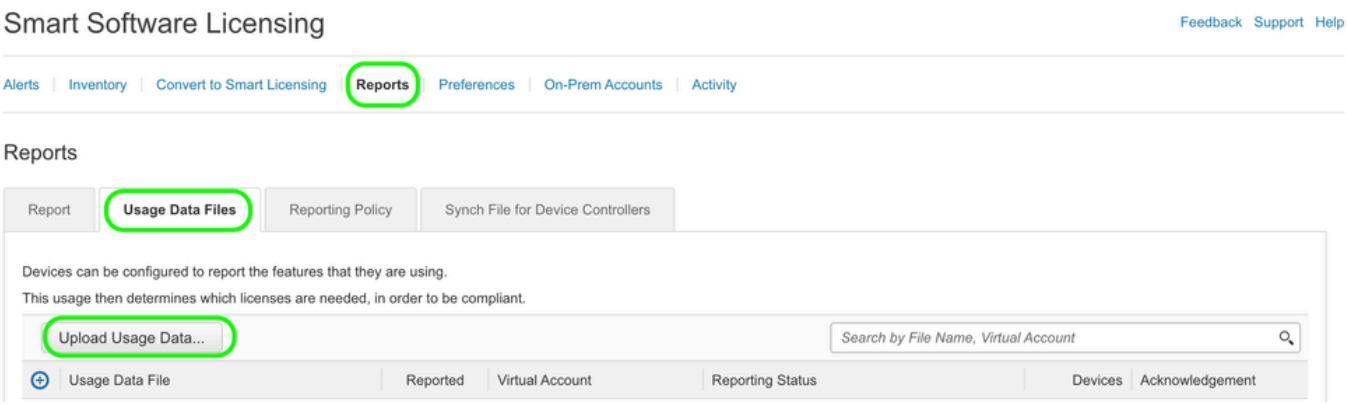
2. Export the RUM report from the WLC. This saves your current license consumption to a file:

```
9800-17-09-05#license smart save usage all file bootflash:rum.txt
```

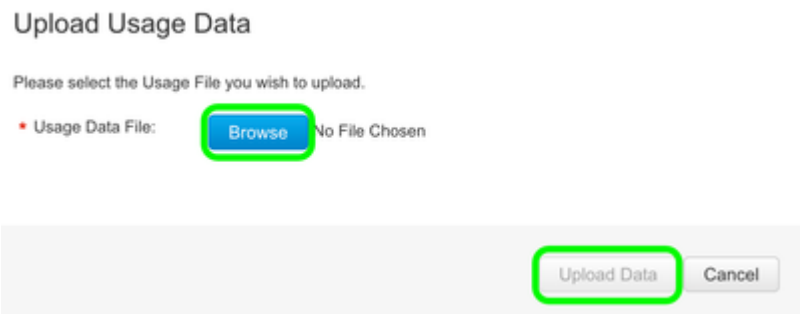
Step 2. On the Cisco License Central

1. Log into your Cisco License Central account.

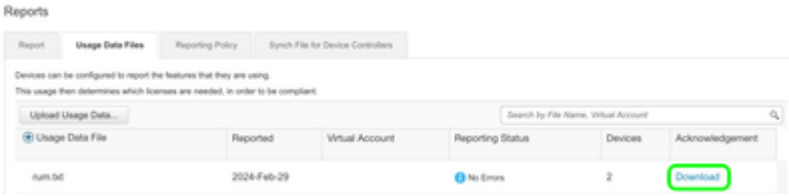
2. Navigate to **Reports** tab, then **Usage Data Files**. Click **Usage Data Files**:



3. Click **Browse**, then select the RUM report that was obtained from the WLC. Click **Upload Data**:



4. Once the RUM report is uploaded to the Cisco License Central, the **Download** button appears under the **Acknowledgement** column. Click **Download**:



Step 3. On the WLC

Import the ACK on the WLC:

```
9800-17-09-05#license smart import bootflash:ACK_rum.txt
Import Data Successful
```

Note: After a license factory reset, you must wait at least 1 hour to generate the RUM report.

Verify

After applying the configuration steps above, the WLC appears on the Cisco License Central under **Inventory > Product Instances**.

If an active WLC from the HA pair was registered, both active and standby WLCs are shown under the **Product Instances** tab on Cisco License Central.

Example of an output from a successfully configured WLC:

```
------------------ show license status ------------------

Utility:
Status: DISABLED

Smart Licensing Using Policy:
Status: ENABLED

Account Information:
Smart Account: <Organization_Name> As of Feb 29 15:24:40 2024 UTC
Virtual Account: <Account_Name>

Data Privacy:
Sending Hostname: yes
Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED

Transport:
Type: Transport Off

Policy:
Policy in use: Merged from multiple sources.
Reporting ACK required: yes (CISCO default)
Unenforced/Non-Export Perpetual Attributes:
First report requirement (days): 365 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 90 (CISCO default)
```

```
Unenforced/Non-Export Subscription Attributes:
First report requirement (days): 90 (CISCO default)
Reporting frequency (days): 90 (CISCO default)
Report on change (days): 90 (CISCO default)
Enforced (Perpetual/Subscription) License Attributes:
First report requirement (days): 0 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 0 (CISCO default)
Export (Perpetual/Subscription) License Attributes:
First report requirement (days): 0 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 0 (CISCO default)

Miscellaneous:
Custom Id: <empty>

Usage Reporting:
Last ACK received: Feb 29 15:27:53 2024 UTC
Next ACK deadline: May 29 15:27:54 2024 UTC
Reporting push interval: 30 days
Next ACK push check: <none>
Next report push: Mar 30 15:27:54 2024 UTC
Last report push: Feb 29 15:27:54 2024 UTC
Last report file write: <none>

Trust Code Installed:
Active: PID:C9800-CL-K9,SN:<Serial_Number>
INSTALLED on Feb 29 15:27:53 2024 UTC
Standby: PID:C9800-CL-K9,SN:<Serial_Number_Stbdy>
INSTALLED on Feb 29 15:27:53 2024 UTC
```

Troubleshoot

If the RUM upload to the Cisco License Central portal fails, it can be because your WLC is already registered through direct connection on the portal. Delete the device from the Cisco License Central inventory. You can then upload the RUM report.

References

- Configure Licensing with SLUP