Overview of Connector 3

About Release Notes

Note   **Cisco DNA Spaces** is now **Cisco Spaces**. We are in the process of updating our documentation with the new name. This includes updating GUIs and the corresponding procedures, screenshots, and URLs. For the duration of this activity, you might see occurrences of both **Cisco DNA Spaces** and **Cisco Spaces**. We take this opportunity to thank you for your continued support.

We recommend that you use the latest version of Cisco Spaces: Connector. To migrate from connector 2.x to connector 3, see Migrate from Connector 2.x to Connector 3**.**

This release notes document describes what is new or changed, instructions to install or upgrade to the latest version of the Cisco Spaces: Connector, and open and resolved caveats for each release. Unless otherwise noted, in this document, Cisco Spaces: Connector is referred to as connector.

Introduction to Connector 3

Cisco Spaces: Connector Release 3 (subsequently referred to as Connector 3) is a fully redesigned version of the Cisco Spaces: Connector Release 2.x, with the capability to efficiently manage multiple services that connect to different network devices such as wireless controllers, access points (APs), and switches. connector gathers and aggregates data from these devices and sends the data to Cisco Spaces.

With connector 3, you can do the following:

- Add or remove new services from Cisco Spaces.

- Perform advanced troubleshooting with the debugging, log upload, and restart functionalities in Cisco Spaces.

- Obtain detailed metrics for each service, such as, CPU, memory, connectivity, and up or down status.

- Configure Virtual IP address (VIP) pairs or active-active pairs that allow for high availability. You can view details of each instance that is a part of a high-availability pair.

- Monitor connector 3 and device status that are aggregated from each instance of connector.

- View how services are running on each instance, their upgrade status, and so on.

- Perform actions on an instance, such as restarting of services.

- Configure instances for connector. Device status is aggregated from each connector instance for monitoring.

Connector 3 sends data to Cisco Spaces over HTTPS; a proxy can also be used to route data.

See Initial Setup, Upgrading the Connector, and Migrating from Connector 2.x to Connector 3.

| Note | The term wireless controller is used in this document to collectively refer to the following: |

- Cisco AireOS Wireless Controller or AireOS controller

- Cisco Catalyst 9800 Series Wireless Controller or Catalyst 9800 controller

- Cisco Embedded Wireless Controller on Cisco Catalyst Access Points (Cisco EWC-AP)

Compatibility Matrix for Cisco Spaces: Connector: Location service

Table 1: Location Service

Hardware or Application Name	Support for Cisco Spaces: Connector
Cisco AireOS Wireless Controller	• 8.9 • 8.10 **Note** • Use the latest software or maintenance release version for each listed release. See Recommended AireOS Wireless LAN Controller Releases. • 8.3, 8.5, and 8.8 are end-of-life (EOL). We recommend that you migrate to one of the recommended releases as per the Guidelines for Cisco Wireless Software Release Product Bulletin.

Hardware or Application Name	Support for Cisco Spaces: Connector
Cisco Catalyst 9800 Series Wireless Controllers	• 16.12.4a • 16.12.5 • 17.3.x • 17.4.1 • 17.5.1 • 17.6.x • 17.7.1 • 17.8.1 • 17.9.x • 17.10.1 • 17.11.1 • 17.12.x **Note** Use the latest software version or maintenance release for each listed release. See Recommended Cisco IOS XE Releases for Catalyst 9800 Wireless LAN Controllers.

Hardware or Application Name	Support for Cisco Spaces: Connector
Cisco Embedded Wireless Controller on Cisco Catalyst Access Points (Cisco EWC-AP)	Supported versions are: • 16.12.5 • 17.3.1 • 17.3.2a, • 17.3.3 • 17.3.4 • 17.4.1 • 17.5.1 • 17.6.1 **Note** Use the latest software version or maintenance release for each listed release. Supported access points are: • Cisco Catalyst 9115 Series Access Points • Cisco Catalyst 9117 Series Access Points • Cisco Catalyst 9120 Series Access Points • Cisco Catalyst 9130 Series Access Points
Cisco Catalyst 9300 and 9400 Series Switches	Supported versions are 17.3.3 and later
Cisco Prime Infrastructure	Supported
Catalyst Center	Supported
Cisco Spaces: IoT Service	• Supported on Cisco Catalyst 9800 Series Wireless Controllers, Release 17.3.1 and later • Not supported on Cisco AireOS Wireless Controller • Not supported on Cisco Embedded Wireless Controller on Cisco Catalyst Access Points (Cisco EWC-AP)
Supported wireless controllers for Cisco FastLocate	• Supported on Cisco AireOS Wireless Controller, Release 8.1.123.0 • Supported on all releases of Cisco Catalyst 9800 Series Wireless Controllers

Hardware or Application Name	Support for Cisco Spaces: Connector
Supported wireless controllers for Cisco Hyperlocation	• Supported on Cisco AireOS Wireless Controller • Supported on Cisco Catalyst 9800 Series Wireless Controllers
Connector Active-Active Mode	• Not supported on Cisco Embedded Wireless Controller on Cisco Catalyst Access Points (Cisco EWC-AP) • Supported on Cisco Catalyst 9800 Series Wireless Controllers • Supported on Cisco AireOS Wireless Controller
Tested VMware Environments	• VMware vSphere Client Version 7.0.x and 8.0 • VMware vCenter Server Appliance 7.0.x and 8.0

Tested Proxies	• Squid proxy
	   • Forward-only mode (SSL tunneling)
	   • Squid-in-the-middle mode (SSL tunneling with intercept capabilities)
	• McAfee
	• Cisco web security appliance

Tested Access Points for Cisco FastLocate	• Cisco Aironet 2800 Series Access Points • Cisco Aironet 3800 Series Access Points • Cisco Aironet 4800 Series Access Points
Tested Access Points for Cisco FastLocate (Wi-Fi 6)	• Cisco Catalyst 9120 Series Access Points • Cisco Catalyst 9130 Series Access Points
Tested Access Points for Cisco Hyperlocation	• Cisco Aironet 3700 Series Access Points (Requires hyperlocation antenna) • Cisco Aironet 4800 Series Access Point

Hardware or Application Name	Support for Cisco Spaces: Connector
Tested Access Points	• Cisco Catalyst 9105AX (I/W) Series Access Points • Cisco Catalyst 9115AX (I/E) Series Access Points • Cisco Catalyst 9117AX (I) Series Access Points • Cisco Catalyst 9136 (I) Series Access Points • Cisco Catalyst 9162 (I) Series Access Points • Cisco Catalyst 9164 (I) Series Access Points • Cisco Catalyst 9166 (I/D1) Series Access Points • Cisco Catalyst IW9167 (E/I) Heavy Duty Series Access Points

Compatibility Matrix for IoT Service (Wireless)

Application Name	Support for Cisco Spaces: IoT Service
Supported wireless controllers	• Supported on Cisco Catalyst 9800 Series Wireless Controllers, Release 17.3.1 and later • Not supported on Cisco AireOS Wireless Controller • Not supported on Cisco Embedded Wireless Controller on Cisco Catalyst Access Points (Cisco EWC-AP)
Cisco Spaces: Connector Docker	2.0.455 and later
Cisco Spaces: Connector OVA	2.3 and later
Cisco Prime Infrastructure	Cisco Prime Infrastructure Release 3.8 MR1 and later
Catalyst Center (for map import)	Catalyst Center Release 2.1.1 and later

Application Name	Support for Cisco Spaces: IoT Service
Access Points for advanced BLE gateway (Wi-Fi 6)	• Cisco Catalyst 9105 Series Access Points • Cisco Catalyst 9115 Series Access Points • Cisco Catalyst 9117 Series Access Points • Cisco Catalyst 9120 Series Access Points • Cisco Catalyst 9130 Series Access Points • Cisco Catalyst 9136 Series Access Points • Cisco Catalyst 9162 Series Access Points • Cisco Catalyst 9164 Series Access Points • Cisco Catalyst 9166 Series Access Points • Cisco Aironet 4800 Series Access Points
Access points for basic BLE gateway	• Cisco Aironet 1815 Series Access Points • Cisco Aironet 2800 Series Access Points (USB dongle needed. No in-built USB radio) • Cisco Aironet 3800 Series Access Points (USB dongle needed. No in-built USB radio)
Cisco IOx App Version	1.0.46 and later **Note** For Cisco Catalyst 9800 Series Wireless Controllers Cisco IOS XE Cupertino 17.7.x, ensure that the IoX Application version is upgraded to Version 1.3.x

IoT Service is not supported on the following:

• Directly connected and CMX Tethering connectors.

The following table lists the compatibility of the Advanced BLE Gateway for BLE and the Base BLE Gateway App with various AP modes. This table is not applicable to Cisco Embedded Wireless Controller on Cisco Catalyst Access Points (Cisco EWC-AP).

Table 2: AP Modes and App Support

AP Mode	Advanced BLE Gateway App	Base BLE Gateway App
PI: Local	• 11-AX: Supported • Wave2: Not supported	• 11-AX: Supported • Wave2: Supported
P1: Flex	• 11-AX: Supported • Wave2: Not supported	• 11-AX: Supported • Wave2: Supported

AP Mode	Advanced BLE Gateway App	Base BLE Gateway App
P2: Fabric	• 11-AX: Supported • Wave2: Not supported	• 11-AX: Supported • Wave2: Supported
P3: Mesh	• 11-AX: Supported • Wave2: Not supported	• 11-AX: Supported • Wave2: Supported

Compatibility Matrix for IoT Service (Wired)

Application Name	Support for IoT Service (Wired)
Cisco Spaces: Connector Docker	2.0.455 and later
Cisco Spaces: Connector OVA	2.3 and later
Cisco Prime Infrastructure	Cisco Prime Infrastructure Release 3.8 MR1
Catalyst Center (for map import)	Catalyst Center Release 2.1.1 and later
Switch as a gateway	• Cisco Catalyst 9300 Series Switches • Cisco Catalyst 9400 Series Switches Cisco IOS XE Amsterdam 17.3.x and later releases.
Wired Application Version	1.0.46 and later

IoT service (wired) is not supported with Cisco Spaces tenants or deployments leveraging the following configurations:

- Connecting directly with controller
- CMX Tethering

Related Documentation

Cisco Spaces: Connector3 Configuration Guide

Cisco Spaces: Connector3 Command Reference Guide

Release Notes for Cisco Spaces: Connector

Release Notes for Cisco Spaces

Cisco Spaces: IoT Service Configuration Guide (Wireless)

Cisco Spaces: IoT Service Configuration Guide (Wired)