



Release Notes for Cisco Spaces: Connector

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Overview of Connector 3

• About Release Notes, on page 1

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)

Upgrade Path for Release 3

Table 1: Upgrade Path for Release 3

From Version	To Version	Upgrade Method
Sep 2022	May 2024	Use the connectoros upgrade command.
Nov 2022	May 2024	Use the connectoros upgrade command.
Jan 2023	May 2024	Use the connectoros upgrade command.
May 2023	May 2024	Use the Cisco Spaces dashboard GUI or the connectoros upgrade or the connectorctl systemupgrade commands.
Jan 2024	May 2024	Use the Cisco Spaces dashboard GUI or the connectoros upgrade or the connectorctl systemupgrade commands.

Compatibility Matrix for Cisco Spaces: Connector: Location service

Table 2: Location Service

Hardware or Application Name	Support fo	or 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.
Cisco Catalyst 9800 Series Wireless Controllers	• 16.12	2.4a
	• 16.12	2.5
	• 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	2.x
	• 17.13	3.1
	• 17.14	4.1
	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.

Support for Cisco Spaces: Connector	
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	
Supported versions are 17.3.3 and later	
Supported	
Supported	
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 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)
	Not supported on Catalyst 9800 Controller running on Catalyst Switches in SD-Access mode (ECA)
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 3: AP Modes and App Support

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

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

Release 3, May 2024

- What's New in Release 3, May 2024, on page 9
- Issues, on page 10

What's New in Release 3, May 2024

This release includes the following features:

- Vulnerability Fixes: upto May 2024 are available.
- New Commands Introduction: Cisco Spaces introduces two new commands. The connectorctl cert show-ca-cert command shows the Certification Authority (CA) certificate installed. The connectorctl cert remove-ca-cert -s < Serial Number of Certificate> command simplifies the removal of certificates by serial number. For detailed information, refer to the Cisco Spaces: Connector3 Command Reference Guide.
- Validation Checks: A Catalyst 9800 controller or switch cannot not be added in the same subnet as the docker.
- Modified Output: The connectorctl dockersubnet show command now presents detailed information on configured subnets.
- **User Interface Enhancement**: The connector GUI now displays the docker service network.
- **IPv6 Support**: Configuration of IPv6 Virtual IP addresses (VIP) is now supported.
- **Privacy Settings API**: The privacy settings API is available for use. See Cisco Spaces API Guide . The updated URL is

https:<connector-ip>/api/connector/v1/privacy

Issues

Resolved Caveats in, Release 3, May 2024

Table 4: Resolved Caveats

Caveat	Description	
CSCwj89252	The service manager log keepalived_ha.log defaults to root owner and group.	

Release 3, January 2024

- What's New in Release 3, January 2024, on page 11
- Issues, on page 12

What's New in Release 3, January 2024

The updates for this release focus on improving security, enhancing usability, and adding new functionalities to Cisco Spaces: Connector.

- OS Upgrades: The base OS packages have been upgraded.
- **Security**: Vulnerability fixes are available until January 2024. The weak SSH MAC algorithms and IPv6 routing are disabled by default. However, IPv6 is enabled, if you have configured it on the first boot.
- High Availability workflow and configuration: Optimizations have been made in the high availability Init/Destroy workflow. When you reset the connector token, the high availability configuration is reloaded.
- **New Commands**: The following commands have been introduced.
 - **connectorctl network ipv6**: Enables or disables IPv6 on a network interface.
 - **connectorctl troubleshoot bandwidth**: Tests the bandwidth of the connection between connector and Cisco Spaces.
 - connectorctl dockersubnet: Manages IP configuration of docker daemon.
 - connectorctl keyexg: Manages weak key-exchange algorithms.
 - connectorctl httpproxy-auth-deny-chars: Updates reserved characters used in proxy passwords.
- Logging and Troubleshooting: New log files have been created for service lifecycle and service manager startup. You can find logs for operations such as service monitoring, service restart, and service upgrade. Also, a log has been created specifically for services control channel monitoring. You can find the following new log files in the

/opt/spaces-connector/runtime/logs/service-manager/server directory:

- Service installation and upgrade log: service-lifecycle.log
- Service manager startup log: service-manager-init.log
- Service local control channel monitor job log: sm-ctlr-monitor.log.



Note

The log upload timeout has been increased to 10 minutes to support large file uploads.

- **UI Improvements** are as follows:
 - While operations involving a token or proxy are running, all other user actions are blocked
 - If the user is inactive for 30 minutes, the session is closed and the user is redirected to the login page.
 - Log download notifications have been added.
- **Network Interface Stats**: A new chart showing the network interface stats of the connector has been added to the connector's **Metrics** tab on the Cisco Spaces dashboard.
- NTP Service Monitoring: The connector now restarts the NTP-dependent services if there is no heartbeat.
- **Privacy Settings**: You can no longer use blank-space characters as salt values for hashing and enhancing the security of the system.

Issues

Open Issues in Connector, Release 3, January 2024

Table 5: Open Issue

Issue	Description	
CSCwf28880	The configuration of Virtual IP (VIP) addresses fails with Amazon Machine Image (AMI) connector.	

Resolved Issues in Connector, Release 3, January 2024

Table 6: Resolved Issues

Issue	Description
CSCwf27599	Initial setup of IoT Streams is unsuccessful on a Day 0 High-Availability deployment.
CSCwf27095	After successful upgrade of the IoT service (wireless), the wireless controller moves to degraded state.
CSCwf31185	In a High-Availability Virtual IP (VIP) Paired setup, Fastlocate does not propagate the Security Parameter Index (SPI) keys to connector instances.



Release 3, May 2023

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- Caveats, on page 13

What's New in Release 3, May 2023

This release supports all connector upgrades and service upgrades from Cisco Spaces dashboard. This release includes the following features:

- High Availability: by configuring virtual IP address (VIP) for the connector instance pair.
- IPv6: is supported.



Note

Connector IPv6 for IoT service (wireless) is supported on Cisco IOS XE 17.12.x

- Dual-interface deployment: of connector.
- Local Firehose: is supported.
- System upgrade: from Cisco Spaces is supported.
- Hyper-V, AMI, and OVA: deployment of connector.

Caveats

Open Caveats in Connector, Release 3, May 2023

Table 7: Open Caveats

Caveat	Description	
CSCwf28869	Unable to SSH or login to AMI IPv6 instance	
CSCwf28880	VIP address configuration fails with AMI connectors.	

Caveat	Description	
CSCwf27599	IoT Streams set up is unsuccessful on a day 0 High-Availability deployment.	
CSCwf27095	After a successful upgrade of IoT service (wireless), wireless controller moves to a degraded state.	
CSCwf31185	Fastlocate in High-Availability VIP Paired does not propagate SPI Keys to connector instances	

Resolved Caveats in Connector, Release 3, May 2023

Table 8: Resolved Caveats

Caveat	Description	
CSCwe29576	Location service is not automatically added to connector 3.	



Release 3, Jan 2023

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Whats New in Release 3, Jan 2023

This release supports all connector 3 upgrades and service upgrades from Cisco Spaces dashboard.



Attention

An AMI package is now available for this release!

This release includes the following enhancements:

- The connector 3 GUI now features network troubleshooting tools that allow you to troubleshoot the connectivity of connector to the Cisco Spaces dashboard. See the chapter Connectivity Issues Between Connector and Cisco Spaces in the Cisco Spaces: Connector3 Configuration Guide.
- The connector 3 CLI features network troubleshooting tools that allow you to troubleshoot the connectivity of the connector to the Cisco Spaces dashboard. See the command **connectorctl troubleshooting connectivity** in the Cisco Spaces: Connector 3 Command Reference Guide.
- connector 3 CLI includes commands for importing a Certification Authority (CA) chain into the connector 3 trust bundle.
- Upgrade 2 includes latest OS-level security updates.
- connector 3 package upgrade is now easier with the CLI. You need not manually download a package
 to install the package. You can instead issue a set of commands that automatically downloads and installs
 a package. See the chapter Upgrading the Connector in the Cisco Spaces: Connector3 Configuration
 Guide



Warning

However, any future security upgrades will be released as a new AMI. You must deploy the new AMI to address future security updates. This limitation will be addressed in the future.

Caveats

Caveats describe unexpected behavior in the Cisco Spaces: Connector.

Open Caveats in Cisco Spaces: Connector, Release 3, Jan 2023

There are no open caveats in this release of Cisco Spaces: Connector.

Resolved Caveats in Cisco Spaces: Connector, Release 3, Jan 2023

There are no resolved caveats in this release of Cisco Spaces: Connector.



Release 3, Sep 2022

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- Caveats, on page 17

What's New in Release 3, Sep 2022

In this release, the architecture of connector3 has been redesigned. The following are the salient features of connector3:

- Efficiently manages multiple services that connect to different network devices such as wireless controllers and switches; and these services also gather data from these devices.
- Add or remove services to the Cisco Spaces dashboard using the connector3 GUI.
- Enhanced capability to troubleshoot. You can now use Cisco Spaces dashboard to debug, upload logs, and restart services from the cloud.
- Detailed metrics for each service, including CPU status, memory consumption, connectivity, and the Up/Down status of each service.

Caveats

Cisco Spaces: Connector 3 release has no open or resolved caveats.

Open Caveats in Cisco Spaces: Connector, Release 3, Sep 2022

There are no open caveats in this release of Cisco Spaces: Connector.

Resolved Caveats in Cisco Spaces: Connector, Release 3, Sep 2022

There are no resolved caveats in this release of Cisco Spaces: Connector.

Resolved Caveats in Cisco Spaces: Connector, Release 3, Sep 2022



PART

Release 2.3

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Overview of connector

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- Cisco Spaces: Connector Compatibility Matrix, on page 22
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Introduction to Cisco Spaces: Connector 2.x



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.

The Cisco Spaces: Connector enables Cisco Spaces to run different services on the Connector, which in turn, communicates with different network devices such as wireless controllers and switches.

The various services that run on the connector gather and aggregate data from wireless controllers, APs, and switches efficiently, and sends the aggregated data to Cisco Spaces. The connector architecture allows multiple wireless controllers, APs, and switches to connect to Cisco Spaces through a single point (the connector). A single connector can connect to a Cisco AireOS Wireless Controller, Cisco Catalyst 9800 Series Wireless Controller and Cisco Catalyst 9300 and 9400 Series Switches at the same time.

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



Note

The term wireless controller is used in this document to refer to the following. (See Compatibility Matrix for specific details).

- Cisco AireOS Wireless Controller (indicated on the Cisco Spaces dashboard as WLC AireOS)
- Cisco Catalyst 9800 Series Wireless Controller (indicated on the Cisco Spaces dashboard as Catalyst WLC)
- Cisco Embedded Wireless Controller on Cisco Catalyst Access Points (Cisco EWC-AP)

Recommended Deployment Architecture

The following is the recommended deployment architecture for Cisco Spaces: Connector:

• Virtual machine size (vCPU): 2

• RAM: 4 GB

· Hard disk: 60 GB

• NMSP messages per seconds: 10,500

• AP count: 12,500

• Minimum bandwidth required: 4 Mbps (5000 APs, 60,000 clients)



Note

If you are using captive portals, we recommend a minimum bandwidth of 30 Mbps along with a buffer. The bandwidth allows for a good end-user experience while loading captive portals from Cisco Spaces.

Cisco Spaces: Connector Compatibility Matrix

8.38.58.88.98.10	
• 8.8 • 8.9	
• 8.9	
• 8.10	
Note	 Use the latest software or maintenance release version for each listed release. 8.3 is end-of-life (EOL). We recommend that you migrate to one of the recommended releases as specified in the Guidelines for
	Cisco Wireless Software Release Product Bulletin.
	Note

Hardware or Application Name	Support for Cisco Spaces: Connector		
Cisco Catalyst 9800 Series Wireless Controllers • 16.12.4a		.4a	
	• 16.12.5		
	• 17.3.1		
	• 17.3.2		
	• 17.3.3	}	
	• 17.3.4		
	• 17.4.1		
	• 17.5.1		
	• 17.6.1		
	• 17.6.2	2	
• 17.7.1			
	Note	Use the latest software version or maintenance release for each listed release.	
Cisco Embedded Wireless Controller on Cisco	Supported versions are:		
Catalyst Access Points (Cisco EWC-AP)	• 16.12.5		
	• 17.3.1		
	• 17.3.2a,		
	17.3.317.3.417.4.1		
	• 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 PointsCisco Catalyst 9120 Series Access Points		
	Cisco Catalyst 9130 Series Access Points		

Hardware or Application Name	Support for Cisco Spaces: Connector		
Cisco Catalyst 9300 and 9400 Series Switches	Supported versions are 17.3.3 and later		
Cisco Prime Infrastructure	_		
Catalyst Center	_		
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)		
	Not supported on Catalyst 9800 Controller running on Catalyst Switches in SD-Access mode (ECA)		
OpenRoaming	Supported on Cisco Catalyst 9800 Series Wireless Controllers, Release 16.12 and later		
	• Supported on Cisco AireOS Wireless Controller 8.3 and later		
Supported wireless controllers for Cisco FastLocate	Supported on Cisco AireOS Wireless Controller, Release 8.1.122.0 and later.		
	Supported on all releases of Cisco Catalyst 9800 Series Wireless Controllers		
Supported wireless controllers for Cisco	Supported on Cisco AireOS Wireless Controller		
Hyperlocation	Supported on Cisco Catalyst 9800 Series Wireless Controllers		
Connector Active-Active	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		

Hardware or Application Name	Support for Cisco Spaces: Connector
Tested VMware Environments	• VMware ESXi: 6.5.0 Update 2 (Build 13004031), 6.7.0 Update 2 (Build 13006603), 6.7.0 Update 3 (Build 16316930), VMware ESXi 7.0
	VMware vSphere Client Version 6.7.0
	VMware vCenter Server Appliance 6.7.0
Tested Hyper-V Environments	Hyper-V version 10.0.17763.1
Test AMI Environments	Supported
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 Points
Connector minimum requirement and sizing	• 2 vCPU
	• 4-GB RAM
	• 60-GB hard disk

Upgrade the Cisco Spaces: Connector Docker

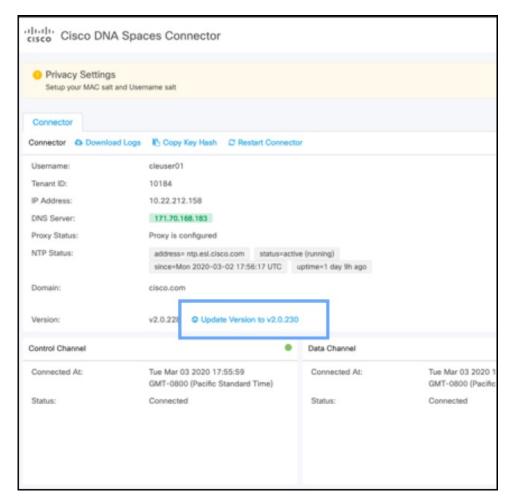
You can upgrade the connector docker to the latest version from the connector GUI. Note that the upgrade link appears only if a new upgrade image is available.



Note

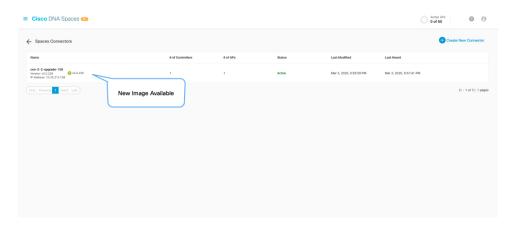
This procedure does not upgrade the connector OVA.

Figure 1: Docker Upgrade Link on the Connector



You can also upgrade the connector docker to the latest version from the Cisco Spaces dashboard. The upgrade link appears only if a new upgrade image is available.

Figure 2: Docker Upgrade Link Appears Only if New Image is Available



Upgrade Path

The following table is best viewed in the HTML format. Here is a description of the contents of the table.

- Release Number: Lists the identifying number of the release.
- **Platforms**: Lists the platforms (OVA, VHDX, AMI) on which this release can be installed or the corresponding installation file name.
- **Upgrade to This Release**: Lists the releases to which you can upgrade the release mentioned in the **Release Number** column.
- **Upgrade File**: Lists the .*connector* upgrade files you can use to upgrade to the release mentioned in the **Upgrade to This Release** column.

Table 9: Upgrade Path for Active Releases

ReleaseNumber	Platforms	Upgrade to This Release	Upgrade File
2.3.4	cisco-dna-spaces-connector-2.3.507.ova	N.A	N.A
	cisco-dna-spaces-connector-2.3.507.vhdx		
2.3.3	cisco-dna-spaces-connector-2.3.497.ova	2.3.4	cisco-dna-spaces-connector-2.3.507.connector
2.3.2	cisco-dna-spaces-connector-2.3.495.ova	2.3.3	cisco-dna-spaces-connector-2.3.497.connector
	cisco-dna-spaces-connector-2.3.496.vhdx		1
2.3.1	cisco-dna-spaces-connector-2.3.478.ova	2.3.2	cisco-dna-spaces-connector-2.3.495.connector
	cisco-dna-spaces-connector-2.3.478.vhdx		1
2.3	cisco-dna-spaces-connector-2.3.462.ova	2.3.1	cisco-dna-spaces-connector-2.3.478.connector
2.2	cisco-dna-spaces-connector-2.2.295.ova	2.3	cisco-dna-spaces-connector-2.3.462.connector



Note

All release versions prior to 2.2 are deferred. We recommend that you deploy the latest OVA to get all the latest updates.

Table 10: Upgrade Path for AMI Releases

ReleaseNumber	Platforms	Upgrade to This Release	Upgrade File
2.3.4	AMI	N.A	N.A
2.3.3	AMI	2.3.4	cisco-dna-spaces-connector-ami-2.3.507.connector



Release 2.3.4

- What's New in Release 2.3.4, on page 29
- Caveats, on page 29

What's New in Release 2.3.4

This release provides updates for fixing security vulnerabilities and bugs. The following software modules are updated:

- bind-libs
- expat
- gzip
- python
- rsync
- rsyslog
- XZ
- zlib
- haproxy

An AMI package is now available for this release. To upgrade to this release, see Upgrade Path.

Caveats

The following sections provide information about the resolved caveats pertaining to Cisco Spaces: Connector 2.3.4. This release has no open caveats.

Open Caveats in Cisco Spaces: Connector, Release 2.3.4

There are no open caveats in this release of Cisco Spaces: Connector.

Resolved Caveats in Cisco Spaces: Connector, Release 2.3.4

This section lists the bugs that are resolved in this release of Cisco Spaces: Connector.

Table 11: Resolved Caveats

Caveat	Description
CSCwc04599	Allows two DNS entries during setup.
CSCwc05639	Cisco Spaces: Connector does not allow you to change the DNS domain, if you skipped the configuration during initial installation.
CSCwd31514	Connector displays an invalid DNS entry even when the entry is a valid IP address.

Release 2.3.3

- What's New in Release 2.3.3, on page 31
- Caveats, on page 31

What's New in Release 2.3.3

This release provides updates for fixing security vulnerabilities of the Centos 7 operating system. Some of the modules that are updated include libxml2, libxslt, libX11, and nss.

Caveats

Caveats describe unexpected behavior in the Cisco Spaces: Connector.

Open Caveats in Cisco Spaces: Connector, Release 2.3.3

There are no open caveats in this release of Cisco Spaces: Connector.

Resolved Caveats in Cisco Spaces: Connector, Release 2.3.3

This section lists the bugs that are resolved in this release of Cisco Spaces: Connector.

Table 12: Resolved Caveats

Caveat	Description	
CSCwb35895	Vulnerabilities on Cisco Spaces: Connector: need to upgrade CentOS to latest version.	

Resolved Caveats in Cisco Spaces: Connector, Release 2.3.3

Release 2.3.2

- What's New in Release 2.3.2, on page 33
- Upgrading the connector OVA to 2.3.2, on page 34
- Caveats, on page 34

What's New in Release 2.3.2

This release allows you to perform the following:

- Deploy the connector as a Amazon Web Services (AWS) instance. You can download an Amazon Machine Images (AMI) image from Amazon Web Services. The connector AMI has the following limitations:
 - Dual-interface mode is not supported.
 - Proxy configuration is not supported.
 - Enabling or disabling the AAA with IPSec feature is not supported.
 - Upgrading the connector from the GUI is not supported.

For more information, see Downloading and Deploying the Cisco Spaces: Connector AMI.

- Install a connector in a dual-interface mode, where the connector has access to two different networks.
- Configure the connector to access an external network that can reach the cloud-hosted Cisco Spaces, and an internal network that connects to all your devices (dual-interface mode). For more information, see Downloading and Deploying the Cisco Spaces: Connector OVA (Dual Interface).
- Deploy the connector as a Hyper-V instance. You can download a Virtual Hard Disk (VHDX) image from cisco.com. However, you cannot configure the Hyper-V connector in the dual-interface mode. For more information, see Downloading and Deploying Hyper-V.
- Configure a syslog server on the connector. For more information, see Syslog Commands in Connector Command Reference Guide.
- Mask a user's IP address on Cisco Spaces (along with username and MAC address). For more information, seeConfiguring Privacy Settings in the Connector Configuration Guide.
- Configure the HTTP proxy with basic authentication. See Configuring a Proxy in the Connector Configuration Guide.

- Test connectivity from connector to Cisco Spaces using the **connectorctl testconnectivity** command. For more information, see Cloud Connectivity Commands in the Connector Command Reference Guide.
- Configure the Subject Alternative Names (SANs) field of a self-signed certificate or a Certification Authority (CA)-signed certificate with either the Fully Qualified Domain Name (FQDN) or the hostname of the connector. The **connectorctl createcsr** and the **connectorctl generatecert** commands are now modified with the capability to configure Subject Alternative Names (SANs). For more information, see Certificate Commands in the Connector Configuration Guide.

Upgrading the connector OVA to 2.3.2

This task shows you how to upgrade the Cisco Spaces: Connector OVA to version 2.3.2.

- **Step 1** Download Connector 2.3.2 from cisco.com.
- Step 2 Copy the downloaded file on to the Cisco Unified Computing System (Cisco UCS) where the Cisco Spaces: Connector is hosted.
- **Step 3** Log in to the connector CLI.
- **Step 4** Run the **connectorctl upgrade** << *upgrade_file_name*>> command.

This command starts the OVA upgrade process.

The **dnasadmin** user is created.

Step 5 Set a password for the newly created **dnasadmin** user when prompted.

Wait for a few seconds for the upgrade to be completed.

Step 6 After the upgrade is completed, log in to the connector as the **dnasadmin** user.

Observe that the connector is upgraded and restored to the same state as it was before the upgrade.

You can ignore the two known errors displayed during the upgrade. See CSCvr74830.

What to do next

To deploy connector 2.3.2 in a dual-interface configuration, ensure that the Cisco UCS device has an additional physical interface (device interface) defined. If not, add the device interface and restart the connector. For more details, see the Cisco DNA Spaces: Connector Configuration Guide.

Caveats

Caveats describe unexpected behavior in the Cisco Spaces: Connector.

Open Caveats in Cisco Spaces: Connector, Release 2.3.2

This section lists the bugs that are open in this release of Cisco Spaces: Connector.

Table 13: Open Caveats

Caveat	Description
CSCvt29826	AAA with IPSec enabled does not work when certificate generated on connector is of key type ECDSA.
CSCwa05499	ConnectorAMI2.3.2: Docker upgrade immediate instead of waiting for configured Upgrade window
CSCwa05506	ConnectorAMI2.3.2: connectorctl dockersubnet remove(r) command does not remove the docker subnet.
CSCwa22344	ConnectorAMI2.3.2 - Invalid SSL Certificate causes GUI login/render failure (Negative Test)
CSCwa42080	ConnectorAMI2.3.2: Authorization fails with valid user when IPSec tunnel is configured

Resolved Caveats in Cisco Spaces: Connector, Release 2.3.2

This section lists the bugs that are resolved in this release of Cisco Spaces: Connector.

Table 14: Resolved Caveats

Caveat	Description
CSCvy69125	Proxy Certificate Installation Fails in connector with 'Unknown File Format' Error.
CSCvz49630	connectorctl networkconfig cloudstatus not working when connector is installed as a Hyper-V instance using cisco-dna-spaces-connector-2.3.495.connector .

Resolved Caveats in Cisco Spaces: Connector, Release 2.3.2

Release 2.3.1

- What's New in 2.3.1, on page 37
- Caveats, on page 37

What's New in 2.3.1

- connector can now be deployed as a Hyper-V instance. You can download a Virtual Hard Disk (.VHDX) image from cisco.com. For more information, see Downloading and Deploying Hyper-V.
- Security vulnerabilities have been hardened in this release.

Caveats

Caveats describe unexpected behavior in the Cisco Spaces: Connector.

Open Caveats in 2.3.1

This section lists the bugs that are open in this release of Cisco Spaces: Connector.

Table 15: Open Caveats

Caveat	Description
CSCvr74830	Connector installation displays error messages during upgrade.
CSCvt29826	AAA with IPSec enabled does not work when certificate generated on connector is of key type ECDSA.
CSCvz49630	connectorctl networkconfig cloudstatus not working when connector is installed as a Hyper-V instance using cisco-dna-spaces-connector-2.3.495.connector .

Resolved Caveats 2.3.1

This section lists the bugs that are resolved in this release of Cisco Spaces: Connector.

Table 16: Resolved Caveats

Caveat	Description
CSCvx40536	Cisco Spaces: Connector needs to be upgraded to latest CentOS version.
CSCvx40569	Connector needs to be upgraded to latest nginx version
CSCvy62400	Unable to import certificates from a third party certification authority (CA) or device certificate for web administrator.



Release 2.3

- What's New in Release 2.3, on page 39
- Caveats, on page 39

What's New in Release 2.3

- Support is available for Connector active-active, a high-availability model using two active Cisco Spaces: Connectors.
- connector GUI now has status of Firehose and gRPC Remote Procedure Calls (gRPC) channels and support for Cisco Spaces: IoT Service.
- The **curl** command is removed from the list of commands in the restricted bash shell.
- The **cmxadmin** user is replaced with the **dnasadmin** user.

Caveats

Caveats describe unexpected behavior in the Cisco Spaces: Connector.

Open Caveats in Cisco Spaces: Connector, Release 2.3

This section lists the bugs that are open in this release of Cisco Spaces: Connector.

Table 17: Open Caveats

Caveat	Description
CSCvv34216	Connector restarts in HA pair causes Controller Channel and AP Channel to split between Wireless Controllers.
CSCvr74830	Connector installation displays error messages during upgrade.
CSCvv38762	Failover scenario in Connector HA requires re-provisioning of IoT Service

Caveat	Description
CSCvt29826	AAA with IPSec enabled does not work when certificate generated on connector is of key type ECDSA.
CSCvv42723	Cannot add back the DNS server on Connector, after removing the only DNS server configured.
CSCvv34778	Connector stats and info flip between the two connector instances in an HA pair.
CSCvx02620	Connector GUI hangs after entering the credentials.
CSCwf18808	GRPC connection remains inactive on several APs deployed on Active Active connectors.

Resolved Caveats in Cisco Spaces: Connector, Release 2.3

There are no resolved caveats in this release of Cisco Spaces: Connector.



PART | | |

Release 2.2 and Prior

• Release 2.2 and 2.1, on page 43



Release 2.2 and 2.1

- What's New in Cisco Spaces: Connector 2.2, on page 43
- What's New in Cisco Spaces: Connector 2.1, on page 44
- What's New in Cisco Spaces: Connector 2.0, on page 44
- Caveats, on page 44

What's New in Cisco Spaces: Connector 2.2

- Cisco Spaces: Connector 2.2 has the following new commands:
 - connectorctl checktimezone
 - connectorctl listtimezone
 - · connectorctl changetimezone
 - · connectorctl enabledebug
 - connectorctl viewdebuglogs
 - · connectorctl disabledebug
 - connectorctl restartservices
 - · connectorctl servicestatus
 - connectorctl containerstatus
 - connectorctl ntpconfig
 - connectorctl networkconfig
- Support for AAA on Cisco Spaces: Connector 2.2 is added.
- Cisco Spaces: Connector 2.2 GUI is updated to include details about gateway, domain, netmask, and NTP server.
- Cisco Spaces: Connector 2.2 installation workflow is updated to include time zone configurations.
- The following additional Linux commands are now allowed on the restricted CLI:
 - route

- clear
- wget
- who

What's New in Cisco Spaces: Connector 2.1

- Cisco Cisco Spaces: Connector 2.1 CLI now has new commands. The newly added commands are as follows:
 - · connectorctl createcsr
 - connectorctl importcacert
 - · connectorctl validatecert
 - · connectorctl dockersubnet

What's New in Cisco Spaces: Connector 2.0

- Cisco Spaces: Connector 2.0 allows a specific set of Linux commands on the CLI. See Restricted Command-Line Interface:
- Cisco Spaces: Connector 2.0 CLI now has the following commands:
 - · connectorctl setproxycert certificate
 - connectorctl lockinterval
 - · connectorctl passwordpolicy
 - connectorctl generatecert
 - connectorctl showcert
 - connectorctl techsupport
 - connectorctl ntprestrict ipaddress
 - connectorctl ntpunrestrict ipaddress

Caveats

Caveats describe unexpected behavior in the Cisco Spaces: Connector.

Open Caveats in Cisco Spaces: Connector, Release 2.2

This section lists the bugs that are open in this release of Cisco Spaces: Connector.

Table 18: Open Caveats

Caveat	Description
CSCvt28589	cmxadmin user cannot access connector Web UI when AAA is configured
CSCvt29826	AAA with IPSec enabled does not work when certificate generated on connector is of key type ECDSA
CSCvt63222	Cisco Spaces: Connector Upgrade From 1.0 to 2.2 fails.

Open Caveats in Cisco Spaces: Connector, Release 2.1.1

Table 19: Open Caveats

Caveat	Description
CSCvr68037	Re-configuring of proxy fails after upgrade from Connector 2.0 to Connector 2.1.1. You must install a new OVA or contact support to install the patch.

Resolved Caveats in Cisco Spaces: Connector, Release 2.2

Table 20: Resolved Caveats

Caveat	Description
CSCvr67351	Cisco Spaces: Connector allows root login via command line interface.
CSCvr68037	Re-configuring of proxy fails after upgrade from Connector 2.0 to Connector 2.1.1. You must install a new OVA or contact support to install the patch.

Resolved Caveats in Cisco Spaces: Connector, Release 2.1

Table 21: Resolved Caveats

Caveat	Description
CSCvp77288	Cisco Spaces: Connector appears to be built using ESXi 5.5.
CSCvp77214	Cisco Spaces: Connector deployment attempts to list the OS as RedHat.
CSCvq38246	Cisco Spaces: Connector download logs button does not work.

Resolved Caveats in Cisco Spaces: Connector, Release 1.0.188

Table 22: Resolved Caveats

Caveat	Description
CSCvo04257	DMS Agent does not validate SSL certificates during HTTPS requests without a proxy.
CSCvo21259	Time on the connector Web UI is incorrect and difficult to read.



PART IV

Docker Release

• Docker, on page 49

Docker

- What's New in Docker Release v2.0.661, on page 49
- What's New in Docker Release v2.0.619, on page 49
- What's New in Docker Release v2.0.609, on page 50
- What's New in Docker Release v2.0.589, on page 50
- What's New in Docker Release v2.0.588, on page 50
- What's New in Docker Release v2.0.587, on page 50
- What's New in Docker Release v2.0.586, on page 50
- What's New in Docker Release v2.0.555, on page 51
- What's New in Docker Release v2.0.539, on page 51

What's New in Docker Release v2.0.661

- Support for firmware upgrade of Kontakt devices
- Support for Smart Building Power over Ethernet (PoE) energy
- Support for IoT service (wired) gateway is available on Cisco Catalyst 9300 and 9400 Series Switches on Cisco IOS XE Amsterdam 17.3.x and later releases.
- Upgraded local firehose to support latest protocol formats.

Table 23: Resolved Caveats

Caveat	Description
CSCwe20024	connector NmspPacketHandler out of memory. Suspected traffic load.

What's New in Docker Release v2.0.619

There are no new features or enhancements in this release.

Resolved Caveats

Caveat	Description
CSCwb28513	Air quality data is not updated in the Cisco Spaces GUI after Wireless Controller upgrades AP.

Caveat	Description
CSCwb43159	Enable gRPC stream for AP profiles fails.

What's New in Docker Release v2.0.609

- Cisco Spaces: Connector uses Java library Apache log4j for logging. Docker v2.0.609 now uses Apache log4j Version 2.17.1 and addresses vulnerability CVE-2021-45046, CVE-2021-44228, CVE-2021-45046, CVE-2021-45105, CVE-2021-44832
- Stability of the datapath connection is improved.
- Support is available for Cisco Catalyst 9136 Access Point.

What's New in Docker Release v2.0.589

Cisco Spaces: Connector uses Java library Apache log4j for logging. Docker v2.0.589 now uses Apache log4j Version 2.17 and addresses vulnerability CVE-2021-45105.

What's New in Docker Release v2.0.588

Cisco Spaces: Connector uses Java library Apache log4j for logging. Docker v2.0.588 now uses Apache log4j Version 2.16 and addresses vulnerability CVE-2021-45046.

What's New in Docker Release v2.0.587

Cisco Spaces: Connector uses Java library Apache log4j for logging. Vulnerability CVE-2021-44228 currently impacts Apache log4j Versions from 2.0 to Version 2.14.1. Docker v2.0.587 now uses Apache log4j Version 2.15.

What's New in Docker Release v2.0.586

- Connectivity issues with Cisco Catalyst 9800 Series Wireless Controllers are resolved.
- Connectivity testing is enhanced.
- FIPS mode is supported for Cisco Catalyst 9800 Series Wireless Controllers.
- SNMPv3 issues are resolved.

Table 24: Open Caveats

Caveat	Description
CSCvz67366	connector is unable to establish a Cisco Network Mobility Services Protocol (NMSP) connection with Cisco Catalyst 9800 Series Wireless Controllers release 17.5.1 running in the Federal Information Processing Standards (FIPS) mode. However, the connector is able to establish an NMSP connection with Cisco Catalyst 9800 Series Wireless Controllers releases 16.12.x, 17.3.x and 17.6.x running in FIPS mode.

What's New in Docker Release v2.0.555

- Fast-packet drops ocurring because of out-of-sync sequence numbers is now fixed.
- You can now observe more detailed error messages if a failure occurs during the download of a Cisco IOx application bundle.
- The IoT Devices Scanning feature has improved because of fixes in the performance of the Cisco IoX application.
- You can now collect information about the **switchport** user.

What's New in Docker Release v2.0.539

- connector can now establish Network Mobility Service Protocol (NMSP) connection with each wireless controller in parallel. This reduces the startup time required after a docker is restarted or upgraded.
- Earlier, controllers that were periodically polling associated clients could cause load hikes and data drops. Now, this polling is evenly distributed in time per controller.

Table 25: Resolved Caveats

Caveat	Description
CSCvy12041	Cisco Catalyst 9800 Series Wireless Controller to connector session not established on 17.3.2a as alphanumeric in version string is not parsed.
CSCvy30330	connector supports Diffie-Hellman KEX with SHA-1 to ensure backward compatibility with eWLC 16.x
CSCvy14010	TDL issue due to which customer is unable to deploy IOT Gateways

What's New in Docker Release v2.0.539



$_{\mathtt{PART}}$ $oldsymbol{V}$

FAQs

• FAQs, on page 55



FAQs

- Which are the Browsers on Which Cisco DNA Spaces: Connector is Tested?, on page 55
- Which are the Proxies Tested with Cisco Spaces: Connector?, on page 55
- Which Are the Tested VMware Environments?, on page 56

Which are the Browsers on Which Cisco DNA Spaces: Connector is Tested?

Cisco Spaces: Connector has been tested on Google Chrome.

Which are the Proxies Tested with Cisco Spaces: Connector?

The following proxies have been tested with the Cisco Spaces: Connector:

- Squid Proxy
 - Forward-only mode (SSL tunneling)
 - Squid-in-the-Middle mode (SSL tunneling with Intercept Capabilities)



Note

When using Squid Proxy in the Squid-in-the-Middle mode, you must disable the interception of the WebSocket domains. Add the following lines to your Squid configuration file before the **ssl_bump bump all** section:

```
acl websocket_sites ssl::server_name .location-data.cisco.com
acl websocket_sites ssl::server_name .dms.cisco.com
ssl bump splice websocket sites
```

- McAfee
- Cisco Web Security Appliance

Which Are the Tested VMware Environments?

- VMware ESXI 6.5.0 Update 2 (build 8294253), ESXi 6.7.0
- VMware vCenter Server Appliance 6.7.0
- VMware vSphere 6.5.0



$_{\mathtt{PART}}$ VI

Troubleshooting

• Troubleshooting Cisco Spaces: Connector, on page 59



Troubleshooting Cisco Spaces: Connector

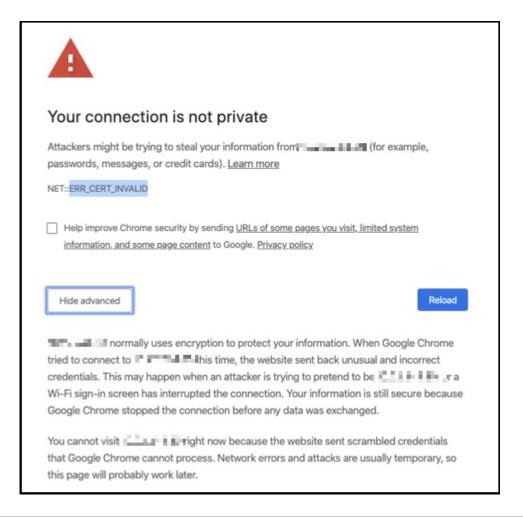
The following are some of the troubleshooting scenarios that you may experience on Cisco Spaces: Connector, along with the corresponding solutions.

• Unable to Launch Connector GUI from MAC Catalina with Chrome, on page 59

Unable to Launch Connector GUI from MAC Catalina with Chrome

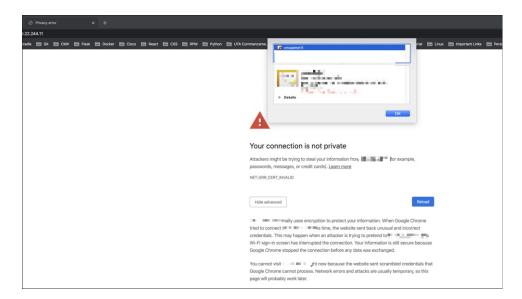
This error occurs on the MAC operating system Catalina when you use the Google Chrome browser to launch the Connector GUI. There is no option to proceed further from the **Your Connection is not Private** dialog box.

Error Message



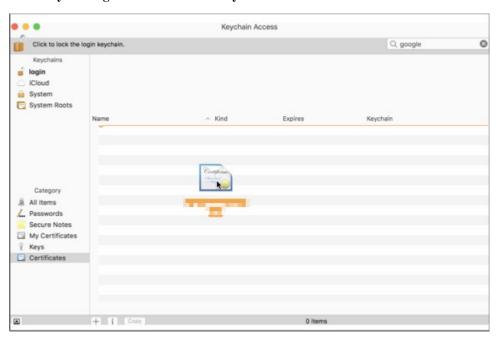
Step 1 Save the Connector GUI certificate by dragging it to the MAC OS desktop.

Drag certificate to the desktop



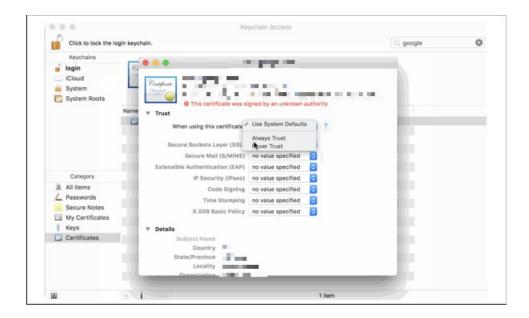
Step 2 From the Finder window of the MAC OS, choose Applications > Utilities > KeyChain Access. Drag the certificate from the desktop and drop into to the Certificates folder.

Manually Adding The Certificate to Keychain Access



Step 3 Double-click the added certificate, and in the dialog box that is displayed, click the **Always Trust** option.

Select Always Trust



What to do next

Launch the Connector GUI once again, using the Google Chrome browser.



Support Information

- Related Documentation, on page 63
- Communications, Services, and Additional Information, on page 64

Related Documentation

- All user documentation for Cisco Spaces is available at https://www.cisco.com/c/en/us/support/wireless/dna-spaces/series.html.
 - Cisco Spaces Data Sheet
 - Cisco Spaces Configuration Guide
 - Release Notes for Cisco Spaces: Connector
 - Guide to Migrating Location Services to Cisco Spaces
 - Cisco Spaces compatibility with other Cisco products
 - Cisco Wireless Solutions Software Compatibility Matrix
- For information on Cisco Spaces feature compatibility depending on type of connection, see *Table 3 Feature compatibility depending on type of connection* in the Cisco Spaces Data Sheet.
- For information on features included in the Cisco Spaces See, Extend, and Act licenses, see *Table 5 Features included in Cisco Spaces See, Extend, and Act* at:
 - https://www.cisco.com/c/en/us/products/collateral/wireless/dna-spaces/datasheet-c78-741786.html#PlatformArchitectureandfeatures
- For information on migrating Location Services to Cisco Spaces, see https://www.cisco.com/c/en/us/solutions/collateral/enterprise-networks/dna-spaces/guide-c07-744932.html.
- For information on the integration of Cisco Spaces with Catalyst Center, see the Chapter "Cisco Catalyst Center Integration" in the *Cisco Spaces Configuration Guide* at:
 - https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/DNA-Spaces/cisco-dna-spaces-config/dnaspaces-configuration-guide/m dnac.html
- For more information on Cisco Prime Infrastructure to Catalyst Center data migration, see Cisco Digital Network Architecture Center Data Migration Guide or Migrate Data from Cisco Prime Infrastructure to Catalyst Center.

- All user documentation for Cisco Prime Infrastructure is available at: https://www.cisco.com/c/en/us/support/cloud-systems-management/prime-infrastructure/series.html
- All user documentation for Catalyst Center is available at: https://www.cisco.com/c/en/us/support/cloud-systems-management/dna-center/series.html
- For Cisco Spaces support information, see Support or contact Cisco Spaces support team.

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business impact you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.
- To discover and browse secure, validated enterprise-class apps, products, solutions, and services, visit Cisco DevNet.
- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a gateway to the Cisco bug-tracking system, which maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. The BST provides you with detailed defect information about your products and software.

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