

# Cisco Cloud Services Platform Release Notes, Release 2.9.0

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## Cisco Cloud Services Platform Release Notes

This document describes the features and limitations for the Cisco Cloud Services Platforms 5000, Release 2.9.0.



**Note**

[CSP-OS End of Life was announced on June 15, 2021.](#)

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### Guest VNFs

Cisco CSP can host Cisco VNFs or third-party VNFs that are supported on KVM hypervisors. For more information about the support for VNFs, see the individual product release documentation.

Some of the Cisco VNFs available include the following:

- Cisco Cloud Services Router (CSR) 1000V virtual router
- Cisco IOS® XRv 9000 Router
- Cisco Adaptive Security Virtual Appliance (ASAv)
- Cisco Firepower™ NGFW Virtual
- Cisco Prime® Virtual Network Analysis Module (vNAM)
- Cisco Virtual Wide Area Application Services (vWAAS)
- Cisco Web Security Virtual Appliance (WSAv)
- Cisco Identity Services Engine (ISE)
- Cisco Firepower Management Center (FMC)
- Cisco Virtual Security Gateway (VSG) for Cisco Nexus® 1000V Series Switch deployments
- Cisco Virtual Supervisor Module (VSM) for Cisco Nexus 1000V Series Switch deployments
- Cisco Data Center Network Manager (DCNM)

### Non-Cisco Vendor Owned VNFs

You can run VNFs owned by various vendors on Cisco CSP 5000 Series Platforms that are running on the CSP-OS. Formal support for these VNFs requires a joint effort between Cisco and the VNF vendor.

Cisco offers VNF vendors a "for-fee" [NFVIS 3rd-party certification program](#) to test and certify their VNFs on Cisco's virtual platforms. After the testing and certification is complete, the results are published on this page- [Cisco Enterprise NFV Open Ecosystem and Qualified VNF Vendors](#)

For more specific support details about VNF versions and test compatibility matrix with CSP-OS releases, see the VNF vendor release documentation on the vendor support site.

## New and Enhanced Features

Cisco CSP Release 2.9.0 includes the following features and enhancements along with security and bug fixes:

### New Features

- Push Common Configuration to all Cluster Members: This feature allows you to perform pNIC and NFS configurations on one cluster member and automatically apply these configurations on the remaining cluster members.
- Link State Monitoring for VNF: This feature allows you to monitor the link state of the VNF vNICs in addition to the IP.
- VNF Data Store Migration: This feature allows you to migrate the storage location of VNFs between local, gluster, and NFS.
- REST API for Uploading Images to all Cluster Nodes: This feature allows you to use the REST API to upload all CSP software images to the cluster members.
- GUI Enhancements: This feature allows you to upgrade CSP (ISO and patch) and also generate tech-support using the GUI.
- Support CPU and Memory Upgrade: This feature enables the CSP software to reread a CPU or memory hardware upgrade, and update the resource table during the CSP upgrade and reboot process.

## Network Interface Card Driver Compatibility

This release includes the following NICs Physical Function (PF) drivers. See VNF documentation for more information about compatibility between the Virtual Function (VF) driver included in VNF and the NICs PF drivers.

- Ixgbe PF driver version: 5.6.1
- I40e PF driver version: 2.9.21

## Important Notes

- Ensure that you upgrade to the latest Cisco UCS firmware available on CCO. The minimum required version being 4.0(4h).
- If any active sessions with CIMC KVM console exist, ensure that you do not select **Activate Virtual devices** prior to performing CLI or REST API based upgrade of a CSP Release.
- You can only upgrade from CSP, Release 2.4.0 or later to this release.

- The following field notice might impact CSP 5000 models that are running CIMC versions earlier than 4.0(4e). Therefore, it is recommended to upgrade the CIMC version to 4.0(4h) on these models. See <https://www.cisco.com/c/en/us/support/docs/field-notices/704/fn70432.html>.

## Access CSP Bugs

### About the Cisco Bug Search Tool

Use the [Cisco Bug Search Tool](#) to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.

You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.



**Note** For the **Product** drop-down list, choose **Cisco Cloud Services Platform 5000**.

## Known Behavior

- The SNMP servers during polling display the insufficient memory alert when the free memory is less than the threshold limit.
- Management interfaces can't be configured as passthrough interfaces.
- Only local users can log in to Cisco CSP using CIMC console. Remote TACACS+ users can't log in to Cisco CSP by using CIMC console.
- Only the vNIC e1000 model is supported with Cisco VSM and Cisco VSG services.
- Only ISO image files are supported with Cisco VSM and Cisco VSG services.

## Related Documentation for Cisco Cloud Services Platform

- [Data Sheet for Cisco Cloud Services Platform 5000 Series](#)

- [Release Notes for Cisco Cloud Services Platform](#)
- [Quick Start Guide for Cisco Cloud Services Platform](#)
- [Hardware Installation Guide for Cisco Cloud Services Platform](#)
- [Regulatory Compliance and Safety Information for Cisco Cloud Services Platform](#)
- [Configuration Guide for Cisco Cloud Services Platform](#)
- [Command Reference Guide for Cisco Cloud Services Platform](#)
- [REST API Guide for Cisco Cloud Services Platform](#)

