Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release 4.8.1

First Published: 2022-04-22

Last Modified: 2024-03-26

About Cisco Enterprise NFVIS

Note To achieve simplification and consistency, the Cisco SD-WAN solution has been rebranded as Cisco Catalyst SD-WAN. In addition, from Cisco IOS XE SD-WAN Release 17.12.1a and Cisco Catalyst SD-WAN Release 20.12.1, the following component changes are applicable: **Cisco vManage** to **Cisco Catalyst SD-WAN Manager**, **Cisco vAnalytics** to **Cisco Catalyst SD-WAN Analytics**, **Cisco vBond** to **Cisco Catalyst SD-WAN Validator**, **Cisco vSmart** to **Cisco Catalyst SD-WAN Controller**, and **Cisco Controllers** to **Cisco Catalyst SD-WAN Control Components**. See the latest Release Notes for a comprehensive list of all the component brand name changes. While we transition to the new names, some inconsistencies might be present in the documentation set because of a phased approach to the user interface updates of the software product.

Find all the information you need about this release—new features, known behavior, resolved and open bugs, and related information.

What's New

New and Enhanced Features for Cisco Enterprise NFVIS Release 4.8.1

Feature	Description
NFVIS Clustering Capability for Cisco Cloud Services Platform (CSP)	This feature enables you to combine three nodes into a single cluster definition whereby, all the member nodes display configuration information about all the VMs deployed in the cluster. Each member node contributes to a user-specified disk size (same value for all the members) of their total disk size to form a shared and clustered file system. The data is replicated across all the cluster members. This clustering capability is resilient against single node failures. **Note** This capability is a beta feature in this release and should not be used in production because, Cisco may make changes in the subsequent releases without providing any backward compatibility. The beta is provided as-is and without any warranty of any kind.
Single IP Monitoring External Gateway	This feature allows you to configure the external gateway monitoring interval, using the `wan-monitor-interval` command.

Resolved and Open 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.

Open Bugs for Cisco Enterprise NFVIS Release 4.8.1

Bug ID	Description
CSCwa85671	Cluster: cannot register image on datastore with same name on different nodes.
CSCwa95273	CSP cluster bridge lost route to its peer post upgrade to DPDK bridge stay down
CSCwa26377	Cluster: cluster nodes without same GRBAC Group
CSCwb66304	VM on gfs in Booting state after simultaneous reboots of 2 nodes

Important Notes

- In NFVIS 4.6.1, backup with GE0-1-SRIOV-3 cannot be restored on ENCS 5400. For more details, see CSCvz82738.

- NFVIS 4.7.1 is the last release in which the **system settings dns-server** command is supported. We recommend that you use the **system settings name-server** command (supported from NFVIS 4.4.1) instead of **system settings dns-server**, starting from NFVIS 4.8.1 and later releases.

- NFVIS 4.7.1 is the last release in which the **route-distribute** command is supported. We recommend that you use the **router bgp** command, instead of **route-distribute**, starting from NFVIS 4.8.1 and later releases. For more information on the **router bgp** command, see Configure BGP on NFVIS.

- Starting from NFVIS 4.7.1 and later releases, we recommend that you use the .iso file upgrade method to upgrade NFVIS. For more information on upgrading Cisco NFVIS, see Upgrade Cisco NFVIS.

Software Upgrade

The Cisco Enterprise NFVIS upgrade image is available as a *.nfvispkg* or *.iso* file. Currently, downgrades are not supported.

For more details on the software upgrade, see the Upgrading Cisco Enterprise NFVIS section in the Cisco Network Function Virtualization Infrastructure Software Getting Started Guide.

System Requirements

The following resources are required for a standalone Cisco Enterprise NFVIS:

- For a system that has 16 or less CPU cores, one CPU core is reserved for NFVIS. For a system that has more than 16 CPU cores, 2 CPU cores are reserved for NFVIS.

- For a system that has 32 GB or less of RAM, 3 GB is reserved for NFVIS. For a system that has more than 32 GB of RAM, 4 GB is reserved for NFVIS.

- 20 GB storage.

- For NFVIS portal, the minimum supported version of browsers are:
  - Mozilla Firefox 66
  - Google Chrome 71
  - Windows 10 Edge
  - MacOS 10.15 Safari

Note   More memory and disk space are required to be added to the system, depending on VM deployments.

Supported Programs and Platforms

Supported Programs and Platforms

The following table lists the only supported platforms and firmware for Cisco ENFV

Platform	Firmware	Version
C8200-UCPE-1N8	BIOS	C8200-UCPE_1.04.103020201614
	MCU	240.52
ENCS 5104 **Note** Cisco announces the end-of-sale and end-of-life dates for the Cisco Select Cisco 5100 Enterprise Network Compute System (ENCS 5100). For more information, see End of Life Annoucement for ENCS 5100.	BIOS	V010
	MCU	1.1
	WAN Port Driver	5.4.0-1-k, 0x80000f76
ENCS 5406, ENCS 5408, and ENCS 5412	BIOS	ENCS54_BIOS_3.05.SPA
	CIMC	CIMC_3.2.13.9.bin
	WAN Port Driver	5.4.0-5-k CISCO
	LAN Port Driver	1.4.22.7-11-ciscocsx
CSP-5216	BIOS	Use HUU 4.1(3d)
	CIMC	Use HUU 4.1(3d)
CSP-5228	BIOS	Use HUU 4.1(3d)
	CIMC	Use HUU 4.1(3d)
CSP-5436, CSP-5444, and CSP-5456	BIOS	Use HUU 4.1(3d)
	CIMC	Use HUU 4.1(3d)

Guest VNFs

This section provides support statements for different guest Virtual Network Functions (VNFs) that you can run on Cisco Routing virtual platforms enabled by the NFVIS 4.8.1 release.

Cisco Router VNFs

Note
- Cisco provides support for deployment and configuration of the VNF versions listed below, when deployed on Cisco Routing virtual platforms, enabled by this release of NFVIS.

- Cisco provides support on a case-by-case basis for unlisted combinations of NFVIS release + VNF version.

Product homepage	Software download
Cisco Catalyst 8000V Edge Software	17.8.1
	17.7.1
	17.6.3
Cisco ISRv	17.3.5
	17.3.4
Cisco vEdge	20.8.1
	20.7.1
	20.6.2
	20.3.5
	20.3.4

Other Cisco Owned VNFs

Note
- Limited testing is done to ensure you can create a guest VM instance using the software download image for these versions, as posted on Cisco Software download page.

- For full-support statement see the individual product release documentation.

Product homepage	Software download
Security VNFs	
Cisco NGFW (FTDv)	6.6.1-91
	6.6.0-90
Cisco ASAv	9.14.2
	9.14.1
WAN Optimization VNFs	

Product homepage	Software download
Cisco vWAAS	6.4.5a-b-50
	6.4.5-b-75
	6.4.3c-b-42

Non-Cisco Vendor Owned VNFs

You can run VNFs owned by various vendors on Cisco's NFV platforms enabled by NFVIS . 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 virtualized platforms. After 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 NFVIS releases, see the VNF release documentation on the vendor support site.

As a NFVIS customer, if you need a unique combination of NFVIS release and a specific VNF version, you may submit your certification request to Cisco at nfv-ecosystem@cisco.com or reach out to the VNF vendor support team asking them to initiate a certification on the Cisco platform.

Related Documentation

- Cisco Network Function Virtualization Infrastructure Software Getting Started Guide
- API Reference for Cisco Enterprise Network Function Virtualization Infrastructure Software
- Cisco Enterprise Network Function Virtualization Infrastructure Software Configuration Guide, Release 4.x
- Cisco Enterprise Network Function Virtualization Infrastructure Software Command Reference
- Release Notes for Cisco NFV SD-Branch features in Cisco vManage Release 20.12.x
- Design and Deployment Guide of Cisco NFVIS SD-Branch using Cisco SD-WAN Manager
- Cisco Catalyst 8200 Series Edge uCPE Data Sheet
- Cisco Cloud Services Platform 5000 Series Data Sheet
- Cisco 5400 Enterprise Network Compute System Hardware Installation Guide
- Cisco 5400 Enterprise Network Compute System Data Sheet
- Configuration Guide for Cisco Network Plug and Play on Cisco APIC-EM, Release 1.5.x
- Cisco SD-WAN Controller Compatibility Matrix and Recommended Computing Resources, Cisco SD-WAN Release 20.12.x