



# Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release 4.10.1

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## 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 4.10.1

Feature	Description
<a href="#">NFVIS resource allocation enhancement</a>	The NFVIS system memory allocations are changed for Cisco NFVIS Release 4.10.
<a href="#">Configure Additional WAN Transport Connectivity on ENCS Switch Ports</a>	Starting from Cisco NFVIS Release 4.10.1, Cisco ENCS supports terminating WAN circuits on its built-in eight port switch. This is in addition to the two dedicated WAN ports thereby providing you the ability to terminate upto ten WAN circuits on Cisco ENCS devices.

Feature	Description
SNMP encryption passphrase	Starting from Cisco NFVIS Release 4.10.1, there is an option to add an optional passphrase for SNMP that can generate a different priv-key other than the auth-key.
Use <b>router bgp</b> command	Starting from Cisco NFVIS Release 4.10.1, the command <b>route-distribute</b> is no longer supported. We recommend that you use the <b>router bgp</b> command instead.
Use <b>system settings name-server</b> command	Starting from Cisco NFVIS Release 4.10.1, the command <b>dns-server</b> is no longer supported. We recommend that you use <b>system settings name-server</b> command instead.

## Resolved and Open Bugs for Cisco Enterprise NFVIS Release 4.10.1

### 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.

### Resolved Bugs for Cisco Enterprise NFVIS Release 4.10.1

Identifier	Headline
<a href="#">CSCwc97044</a>	NIM not coming online ENCS Secure Boot.

## Important Notes

- Starting from Cisco NFVIS 4.9.1 and later releases, use the .iso file upgrade method to upgrade NFVIS. For more information on upgrading Cisco NFVIS, see [Upgrade Cisco NFVIS](#).
- Your Cisco NFVIS devices need to run Cisco NFVIS Release 4.9.1 if you want to upgrade to Cisco NFVIS Release 4.10.1. You can't upgrade directly to Cisco NFVIS Release 4.10.1 from Cisco NFVIS Release 4.8.x and earlier releases.
- Starting from Cisco NFVIS Release 4.10.1, the guest VNF settings are automatically preserved from the previous release version, when you upgrade to a newer release version. You don't have to reinstall NFVIS to update the guest VNF settings. For more information see, [Upgrade Cisco NFVIS](#).
- Starting from Cisco NFVIS Release 4.10.1, Cisco NFVIS is based on open source AlmaLinux distribution. In Cisco NFVIS Release 4.9.x and earlier releases, Cisco NFVIS was based on CentOS Linux distribution which is now end-of-life. The support for CentOS Linux distribution will be discontinued in June 2024.

- If you are using I-350 based Network Interface Cards (NICs) that use IGB drivers, the Virtual Router Redundancy Protocol (VRRP) is not supported due to a limitation of MAC addresses that can be used in your network.

## Software Upgrade

The Cisco Enterprise NFVIS upgrade image is available as *.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




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

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## Supported Programs and Platforms

### Supported Programs

The Cisco Meraki vMX solution is supported on Cisco's Enterprise NFV Infrastructure Software (NFVIS). For more information see, [vMX Setup Guide for NFVIS](#).

### Supported 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

Platform	Firmware	Version
ENCS 5406, ENCS 5408, and ENCS 5412	BIOS	ENCS54_BIOS_3.06.SPA
	CIMC	CIMC_3.2.14.2.bin
	WAN Port Driver	5.4.0-5-k CISCO
	LAN Port Driver	1.4.22.7-11-ciscocsx

## 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 4.9.1 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
<a href="#">Cisco Catalyst 8000V Edge Software</a>	17.10.1
	<a href="#">17.9.1</a>
	<a href="#">17.8.1</a>
	<a href="#">17.7.1</a>
	<a href="#">17.6.3</a>
<a href="#">Cisco ISRv</a>	<a href="#">17.3.5</a>
<a href="#">Cisco vEdge</a>	20.10.1
	<a href="#">20.9.1</a>
	<a href="#">20.8.1</a>
	<a href="#">20.7.1</a>
	<a href="#">20.6.3</a>
	<a href="#">20.3.5</a>

## 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
<b>Security VNFs</b>	
<a href="#">Cisco NGFW (FTDv)</a>	<a href="#">6.6.1-91</a>
	<a href="#">6.6.0-90</a>
<a href="#">Cisco ASAv</a>	<a href="#">9.14.2</a>
	<a href="#">9.14.1</a>
<b>WAN Optimization VNFs</b>	
<a href="#">Cisco vWAAS</a>	<a href="#">6.4.5a-b-50</a>
	<a href="#">6.4.5-b-75</a>
	<a href="#">6.4.3c-b-42</a>

## 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](mailto: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](#)

