

Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release 4.13.x

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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 4.13.1

Feature	Description
Cisco NFVIS Support For Cisco UCS C M6 Rack Servers	Starting from Cisco NFVIS Release 4.13.1, Cisco NFVIS software is supported on Cisco UCS C-Series M6 Rack Servers as a term-based license. Order Cisco NFVIS software smart license along with the Cisco UCS C-Series M6 Rack Servers product purchase.

Resolved and Open Bugs for Cisco Enterprise NFVIS Release 4.13.1

Open Bugs for Cisco NFVIS Release 4.13.1

Identifier	Headline
CSCwi21221	QuickConnect UI fail to import, export and Create New site-id. Pop-up is not shown.

Identifier	Headline
CSCwi21272	Password fields are not masked in Add and Review Device Configuration page
CSCwi04590	Secondary gateway configuration is accepted and show up in the configuration without route
CSCwi41226	Speed/duplex in showpnic,ethtool are UP for ENCS and Cisco Catalyst Edge uCPE 8200, DOWN for Cisco Catalyst Edge uCPE 8300/Cisco UCS C-Series M6 for same config
CSCwh55989	The vrrp/hsrp does not work due to packets sent by the vm over sriov interface using IGB driver

Important Notes

- Starting from Cisco NFVIS Release 4.13.1, install Cisco NFVIS using a smart license on Cisco UCS C M6 Rack Servers.
- 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



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

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

Table 1:

Platform	Firmware	Version
C8200-UCPE-1N8	BIOS	C8200-UCPE_1.04.103020201614
	MCU	240.52
ENCS 5406, ENCS 5408, and ENCS 5412	BIOS	ENCS54_3.06
	CIMC	3.2(14.2)
	WAN Port Driver	5.4.0-5-k CISCO
	LAN Port Driver	1.4.22.7-11-ciscoesx
C8300-UCPE	BIOS	C83uCPE_BIOS_1.04
	CIMC	17.14
UCS C-Series M6 Rack Servers	BIOS	C240M6.4.3.2c.0.0726232000
	CIMC	HUU version 4.3(2.230207)

Guest VNFs

This section provides support statements for different guest Virtual Network Functions (VNFs) that you can run on Cisco Routing virtual platforms that are enabled by the Cisco NFVIS Release 4.13.1.

Cisco Router VNFs



- Note**
- Cisco provides deployment and configuration support for the VNF versions listed below, when these VNFs are deployed on Cisco Routing virtual platforms that are enabled by Cisco NFVIS Release 4.13.1.
 - Cisco provides support on a case-by-case basis for unlisted combinations of Cisco NFVIS releases and VNF version combinations.

Table 2: Software Download Links

Product Homepage	Software Download
Cisco Catalyst 8000V Edge Software	17.13.1
	17.12.1
	17.11.1
	17.10.1
	17.9.3
	17.9.1
	17.8.1
	17.7.1
Cisco vEdge	17.6.3
	20.9.1
	20.9.3
	20.6.5
	20.3.7
	20.8.1
	20.7.1
	20.6.3
20.3.5	

Table 3: Supported Linux Drivers for SR-IOV Acceleration

Platform	NIC	NIC Driver in NFVIS	Linux (Ubuntu/Alma) Drivers for SROV Interop
Cisco ENCS	Intel XL710 for chassis backplane switch	i40e Recommended Version: 1.4.22.7-12-ciscocsx	i40evf /iavf Recommended Version: 5.19.0-21-generic
	Intel I350 for GE0-0 and GE0-1 ports	igb Recommended Version: 4.18.0-372.9.1.el8.x86_64	igbvf Recommended Version: 5.19.0-21-generic
Cisco Catalyst 8200 Series Edge uCPE	Intel X553 1GbE - for GE0-0 and GE0-1 ports	ixgbe Recommended Version: 5.3.7-2 CISCO	ixgbevff Recommended Version: 5.19.0-21-generic
	Intel I350 - for GE0-2 to GE0-5 ports	igb Recommended Version: 4.18.0-372.9.1.el8.x86_64	igbvf Recommended Version: 5.19.0-21-generic
Cisco Catalyst 8300 Series Edge uCPE	Intel E810GE0-3 to GE0-64 x 10 G SFP+ ports	ice Version: 1.11.14	iavf Version: 5.15.64
Cisco UCS C M6 Rack Servers	Intel X550 LOM GE0-0 & GE0-1	ixgbe	ixgbevff
Cisco UCS C M6 Rack Servers	UCSC-PCIE-ID10GF (Intel X710-DA4 Quad Port 10 GB SFP+)	i40e	i40evf
Cisco UCS C M6 Rack Servers	Intel i350 Quad Port 1 GB Adapter	igb	igbvf

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.

The following section provides information about generic Linux Distro Images (Ubuntu 22.10 & Alma 8.6 or similar) that can be deployed on Cisco NFVIS Release 4.13.1. See the above table for details on the SRIOV driver that is required on the guest Linux VM based on the platform.

Table 4: Software Download Links

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	
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](#)

