

Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release 4.1.x

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About Cisco Enterprise NFVIS



Note The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on standards documentation, or language that is used by a referenced third-party product.

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



Note Explore [Content Hub](#), the all new portal that offers an enhanced product documentation experience. Content Hub offers the following features to personalize your content experience.

- Faceted Search to help you find content that is most relevant
- Customized PDFs
- Contextual Recommendations

What's New

New and Enhanced Features for Cisco Enterprise NFVIS Release 4.1.5

NFVIS 4.1.5 release is a Wide Area Application Services (WAAS) Appliance specific release.

New and Enhanced Features for Cisco Enterprise NFVIS Release 4.1.4

NFVIS 4.1.4 release is a Wide Area Application Services (WAAS) Appliance specific release.

New and Enhanced Features for Cisco Enterprise NFVIS Release 4.1.3

NFVIS 4.1.3 release is a Wide Area Application Services (WAAS) Appliance specific release.

New and Enhanced Features for Cisco Enterprise NFVIS Release 4.1.2

There are no new and enhanced features introduced for NFVIS 4.1.2 release.

New and Enhanced Features for Cisco Enterprise NFVIS Release 4.1.1

Feature	Description	Where Documented
Storm control support	Storm control is used to monitor incoming traffic levels and limit excessive flow of packets on any user facing switch port that could cause a traffic storm.	Configuring storm Control Storm Control Commands
hot-add and hot-delete support on DPDK interface	Support interface hot add and hot delete operations on DPDK networks.	Update VM Image
VM backup and restore perserving MAC and UID	Specifying the unique MAC ID flag during VM import will ensure that the imported VM is not deployed with the same UID and interface MAC addresses.	Import and Export NFVIS VM
Support placing VM's extra storage volumes to external datastore	This feature supports placing VNF volumes on external datastore storage locations	VNF Volumes
PNIC promiscuous mode support	Enabling promiscuous mode on an interface can be used to monitor all incoming packets on the interface.	Promiscuous Mode
CIMC TACACS support	TACACS authentication support for Cisco IMC	CIMC TACACS Support

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.

The screenshot shows the Cisco Bug Search interface. At the top, there are buttons for 'Save Search', 'Load Saved Search', 'Clear Search', and 'Email Current Search'. Below these is a 'Search For:' field with a search icon and a hint: 'Examples: CSCtd10124, router crash, etc...'. There are also dropdowns for 'Product' (with 'Series/Model' selected), 'Releases' (with 'Affecting or Fixed in these Releases' selected), and 'Bug Type' (with 'Customer Visible' selected). A 'Filter' section contains dropdowns for 'Modified Date', 'Status', 'Severity', 'Rating', and 'Support Cases'. At the bottom, it says 'Viewing 1 - 25 of 132 results' and 'Sort by' with a dropdown arrow. An 'Export Results to Excel' button is also present. A vertical label '368026' is on the right side of the interface.

Resolved Bugs for Cisco Enterprise NFVIS Release 4.1.2

Caveat ID Number	Description
CSCvt00530	we should limit the number of core file in CIMC
CSCvu26520	Support SUDI-2099 for ENCS

Open Bugs for Cisco Enterprise NFVIS Release 4.1.1

Caveat ID Number	Description
CSCvq11886	pnv redirect fails due to sudi_sign_cmd.c:72:session init failed error - TAM_LIB_ERR_SESSION_IS_OPEN
CSCvr51855	i40evf0000:00:03.1:PF returned error -5(I40E_ERR_PARAM)to our request 12 opcode 2 to PF, err I40E_E
CSCvr77081	NFVIS-ESC-LITE: added volume did not support thick_disk_provisioning and eager_zero
CSCvs44341	All configs for s/w on ENCS is intact after factory reset(except images and connectivity)
CSCvt00530	we should limit the number of core file in CIMC
CSCvt22519	NFVIS 4.1: Traffic fail on lan-net with dpdk enabled after factory reset
CSCvt22539	NFVIS: factory-reset-all with VM having disk deployed on NFS
CSCvt35615	OBS - 688452159 (upgrade from 3.12.1 -> 3.12.3 failed)
CSCvt40279	NFVIS-4.1.1-RC1 is unreachable after a reboot
CSCvt50656	NFVIS-4.1.1-FC1: Application timeout on hostaction mgmt-dhcp-renew
CSCvt53410	Network config does not work after factory default reset is performed with vDaemon enabled
CSCvt54623	NFVIS: config-only restore failed due to VMLC or upgrade package is changed.
CSCvt61948	remote-system-ip-subnet as 0.0.0.0/0 gives error in creating secure overlay

Caveat ID Number	Description
CSCvt65059	Firmware upgrade triggers from postreboot currently causing extra reboots and longer time
CSCvt68582	after encls device controlled by vmanage, CLI is still allow to config and commit on NFVIS

Software Upgrade

The Cisco Enterprise NFVIS upgrade image is available as a *.nfvispkg* file. Currently, downgrade is not supported.

For more details on the software upgrade, see the Upgrading Cisco Enterprise NFVIS section in the [Cisco Enterprise Network Function Virtualization Infrastructure Software Configuration Guide](#).



Note NFVIS 4.1.1 supports upgrade from NFVIS 3.12.x.

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 Platforms and Firmware

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

Platform	Firmware	Version
ENCS 5406, ENCS 5408, and ENCS 5412	BIOS	ENCS54_2.9
	CIMC	3.2(9.20191113183312)
	WAN Port Driver	1.63-0x80000e2f
	LAN Port Driver	5.04-0x800027d4
ENCS 5104	BIOS	V010
	MCU	1.1
	WAN Port Driver	5.2.20-k/1.63, 0x80000f76
UCS-E160S-M3/K9	BIOS	UCSEM3_2.6
	CIMC	3.2(8.20190624114303)
UCS-E140S-M2/K9	BIOS	UCSES_1.5.0.8
	CIMC	3.2(8.20190624114303)
UCS-E160D-M2/K9	BIOS	UCSED_3.5.0.1
	CIMC	3.2(8.20190624114303)
UCS-E180D-M2/K9	BIOS	UCSED_3.5.0.1
	CIMC	3.2(8.20190624114303)
UCS-E180D-M3/K9	BIOS	UCSEDM3_2.6
	CIMC	3.2(8.20190624114303)
UCS-E1120D-M3/K9	BIOS	UCSEDM3_2.6
	CIMC	3.2(8.20190624114303)
UCS-C220-M4	BIOS	3.0.3a
	CIMC	3.0(3c)
CSP-2100-X1	BIOS	3.0.3a
	CIMC	3.0(3a)
UCS-C220-M5	BIOS	C220M5.3.1.3c.0.0307181404
	CIMC	3.1(3a)
CSP-5228	BIOS	C220M5.4.0.4c.0.0506190754
	CIMC	4.0(4c)

Platform	Firmware	Version
CSP-5436	BIOS	C240M5.4.0.1c.0.0627180945
	CIMC	4.0(1a)

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 4.1.x releases.

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 ISRv	17.2.1r 16.12.1a 16.12.1b
Cisco vEdge	20.1 19.2.1

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)	6.4
Cisco ASAv	9.13.1
WAN Optimization VNFs	
Cisco vWAAS	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

- [API Reference for Cisco Enterprise Network Function Virtualization Infrastructure Software](#)
- [Cisco Enterprise Network Function Virtualization Infrastructure Software Command Reference](#)
- https://www.cisco.com/c/en/us/td/docs/routers/nfvis/release_notes/3-10-1/cisco-enterprise-nfvis-release-notes-3-10-1.html
- [Cisco 5400 Enterprise Network Compute System Hardware Installation Guide](#)
- [Cisco 5400 Enterprise Network Compute System Data Sheet](#)
- [Getting Started Guide for Cisco UCS E-Series Servers and the Cisco UCS E-Series Network Compute Engine](#)
- [Cisco UCS C220 M4 Server Installation and Service Guide](#)
- [Configuration Guide for Cisco Network Plug and Play on Cisco APIC-EM](#)

