

Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release 4.1.1, 4.1.2

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About Cisco Enterprise NFVIS

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



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What's New

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

Feature	Description	Where Documented
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.

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

Caveat ID Number	Description
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	i40evf 0000:00:03.1: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
CSCvt65059	Firmware upgrade triggers from postreboot currently causing extra reboots and longer time
CSCvt68582	after encs 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 NFWIS 4.1.1 supports upgrade from NFWIS 3.12.x.

System Requirements

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

- For a system that has 16 or less CPU cores, one CPU core is reserved for NFWIS. For a system that has more than 16 CPU cores, 2 CPU cores are reserved for NFWIS.
- For a system that has 32 GB or less of RAM, 3 GB is reserved for NFWIS. For a system that has more than 32 GB of RAM, 4 GB is reserved for NFWIS.
- 20 GB storage



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)

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

Supported VMs

The following table lists the verified versions of supported VMs for NFVIS 4.1.1 release:

VM	Version
Cisco ISRv	17.2.1
	16.12.1a
	16.12.1b
Cisco ASAv	9.13.1
Cisco vWAAS	6.4.3c-b-42
Viptela vEdge	20.1
	19.2.1
Fortinet	v5.4.1,build9317,161003
PaloAlto	8.1.3

VM	Version
Riverbed	9
Checkpoint	77.30
SilverPeak	7.3.9.0



Note Windows and Linux VMs are also supported.

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](#)

