

Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release 3.11.x

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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 3.11.2

There are no new and enhanced features introduced for NFVIS 3.11.2 release.

New and Enhanced Features for Cisco Enterprise NFVIS Release 3.11.1

- Route Distribution to enable distribution of internal-mgmt network for VM access.
- DPDK VM Migration supports upgrade from non-DPDK to DPDK mode.
- UCS-E / SR-IOV Portal, Factory Reset and upgrade support.
- Secure overlay with int-mgmt-net enhancement.
- Eager-Zero Support for VM Deployment.
- Security Enhancements:
 - Secure-VNF in partnership with STO and ISRv team.
 - Grub protection.

- UCSC-C220-M5 Support.
- CSP 5000 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.

Open Bugs for Cisco Enterprise NFVIS Release 3.11.3

Caveat ID Number	Description
CSCvo34018	VMPackaging: Bootstrap file is not mounted in user defined location
CSCvo57262	ENCS 54xx: Missing Fan state from SNMP Environ MIB
CSCvq56915	ping fail after vnic update from lan-sriov to lan-br on encs
CSCvr30527	3.11.3-FC Portal->Host->Diagnostic->tech support download failure
CSCvr30728	3.11.3-FC Intermittent SNMPWALK read error
CSCvr35427	3.11.3-FC2 upgrade package registration failure via usb
CSCvr39857	3.11.3-FC3 after upgrade it may fail to bring up i40

Open Bugs for Cisco Enterprise NFVIS Release 3.11.2

Caveat ID Number	Description
CSCvp29378	I40E_VLAN_ANY flag in i40e_mac_filter does not seem to work correctly.
CSCvp31524	Increase TACACS timeout to 3 seconds

Resolved Bugs for Cisco Enterprise NFVIS Release 3.11.2

Caveat ID Number	Description
CSCvo04357	allow user to config ovs mac age time
CSCvo95105	NFVIS 3.9.2 Long range of vlan in spanning-tree commit causing mismatch in running-config

Open Bugs for Cisco Enterprise NFVIS Release 3.11.1

Caveat ID Number	Description
CSCvm01630	automatic and ondemand firmware upgrade with secureboot enabled failed
CSCvn57056	Some show bridge-settings subcommands are broken
CSCvn71548	ISRV does not recognize NIM after boot up on ENCS5400
CSCvo00077	NFVIS 3.11.0 :Deploy_ASAv5 with routed mode not coming to ALIVE state in UCSC/UCSE/ENCS platforms
CSCvo02719	pn100 speed full duplex made port down
CSCvo22428	False Upgrade Image Registration Error
CSCvo28989	ENCS5400 SUDI authentication failure on PnP test
CSCvo34018	VMPackaging: Bootstrap file is not mounted in user defined location
CSCvo36392	UCS-E: ISRV interface unexpected behavior after change 2 virtio interfaces to SRIOV interfaces
CSCvo37983	Route distribution is still up after changed int-mgmt-subnet
CSCvo46236	Subsystem stopped: <various processes> and switch communication failure
CSCvo55056	Some ports are missing from lan-br after NFVIS reboot
CSCvo58917	ENCS5400 does not support route distribution in lan-br
CSCvo58933	nfvos-confd restarted after pnp restart
CSCvo62342	Route distribution in error when over secure tunnel
CSCvo67051	VM Packaging with Python 2.6.6 fails with invalid syntax error

Caveat ID Number	Description
CSCvo77542	Incorrect sysOID on ENCS-5100 platforms
CSCvo84097	cimc access enable caused entire system unreachable (shows dpdk failure)
CSCvp00281	VM VNC session not require password-authentication after DPDK enabled
CSCvp00536	ISRV goes to ERROR state after deploy and undeploy repeatedly
CSCvp02135	GE0-3 in virsh iface-list causing inconsistency with ENCS54xx
CSCvp02173	Portal NFVIS config and VM restore ERROR: backup.manifest not found

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 3.11.1 supports upgrade from NFVIS 3.10.x.

Limitations with Software Upgrade for ENCS 5100

If you are using ENCS 5100 device, to upgrade to NFVIS 3.11.2:

1. Remove port GE0-1 from bridge <br_name> before you upgrade from NFVIS 3.9.x to NFVIS 3.10.x.
2. Upgrade to NFVIS 3.10.3-FC4 image. A new bridge wan2-br is created automatically after upgrade.
3. Remove port GE0-1 from bridge wan2-br and add it back to bridge <br_name>.
4. Upgrade to NFVIS 3.11.2-FC2 image.

System Requirements

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

- At least one CPU core
- 2 GB RAM
- 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	2.7
	CIMC	3.2.7
	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	2.6
	CIMC	3.2.7
UCS-E140S-M2/K9	BIOS	UCSES.1.5.0.8
	CIMC	3.2.7
UCS-E160D-M2/K9	BIOS	UCSED.3.5.0.1
	CIMC	3.2.7
UCS-E180D-M2/K9	BIOS	3.5.0.1
	CIMC	3.2.7
UCS-E180D-M3/K9	BIOS	2.6
	CIMC	3.2.7
UCS-E1120D-M3/K9	BIOS	2.6
	CIMC	3.2.7
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)

Platform	Firmware	Version
CSP-5228	BIOS	C220M5.3.1.3c.0.0307181404
	CIMC	4.0(1a)
CSP-5436	BIOS	C240M5.4.0.1c.0.0627180945
	CIMC	4.0(1a)

Supported VMs

The following table lists the supported versions of VMs for NFVIS 3.11.x release:

VM	Version
Cisco ISRv	16.09.03
Cisco ASAv	9.10.1 Note ASAv5 version 9.10.1 requires 1.5 GB memory.
Cisco vWAAS	6.4.3.a-b8 Note Verified for NFVIS 3.11.x release.
Cisco NGFWv	6.3.0-83
Viptela vEdge	18.4.1
cEdge	16.10.2
eWLC	16.10.1
ThousandEyes	Agent 1.27.4
Fortinet	Fortigate 5.6.2
PaloAlto	PAN-OS 8.0.5
InfoVista	Ipanema VNF vipe_kvm v9.1.6.6
CTERA	6.0.4



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](#)

