Release Notes for Cisco NFV SD-Branch features in Cisco Catalyst SD-WAN Manager Release 20.12.x

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About Cisco NFV SD-Branch Support in Cisco Catalyst SD-WAN Manager

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.

Cisco Network Function Virtualization Software-Defined Branch (NFV SD-Branch) features in Cisco SD-WAN Manager are a collection of capabilities that allow you to use Cisco SD-WAN Manager as a single centralized orchestrator to manage both the Cisco NFV hardware platforms powered by Cisco NFVIS hypervisor software and the virtualized network function (VNF) based network services that run as guest virtual machines (VMs). SD-Branch in Cisco SD-WAN Manager provides a three-step user experience of design, deploy and monitor that enables you to deploy networking services efficiently across all sites within your enterprise network infrastructure.

The Cisco SD-WAN Manager portal supports:

1. **Design** - A network architect can graphically create a parameterized network design template that captures the enterprise networking standards and best practices including WAN circuits and VNF service chains.
2. **Deploy** - A network operator can use the pre-defined network design templates to deploy and configure network devices and services in multiple locations in an automated and secure manner without making any design decisions.
3. **Monitor** - A network auditor can monitor and manage both the hardware platforms and the virtualized network services VMs that are running on them, without the fear of making accidental configuration changes.

Note Cisco NFV SD-Branch features within Cisco SD-WAN Manager are only supported for greenfield deployments on the ENCS 5400 Series, C8200-uCPE, C8300-uCPE, and NFVIS-supported UCS-C platforms. Additionally, these platforms support SD-WAN and SD-Routing-based deployments.

What's New

Feature Name	Description
Manage Cisco NFVIS Devices Using Cisco SD-WAN Manager Via NFV Configuration Group	You can manage the lifecycle of Cisco NFVIS devices using Cisco SD-WAN Manager. **Note** The hardware that supports this feature will be updated in the furture releases. You can view only the software changes.

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 and Open Bugs for Cisco NFV SD-Branch 20.12.8

Resolved Bugs for Cisco NFV SD-Branch Release 20.12.8

There are no resolved defects captured for Cisco NFV SD-Branch Release 20.12.8.

Open Bugs for Cisco NFV SD-Branch Release 20.12.8

There are no open defects captured for Cisco NFV SD-Branch Release 20.12.8.

Resolved and Open Bugs for Cisco NFV SD-Branch 20.12.7

Resolved Bugs for Cisco NFV SD-Branch Release 20.12.7

Bug ID	Description
CSCws91028	C8Kv VNF enters MONITOR_UNSET after editing the ND template (vCPU/memory/NIC changes).
CSCwp92905	vBranch brown-field switchport trunk mode vlan config is reset after hostaction vdaemon-start manually.

Bug ID	Description
CSCwt49419	Config Push to NFVIS Failed due to Out of Sync - Device is online. Failed to attach configuration.
CSCwq15743	UCSC-C220-M6S-WMP2721000Q : configStatusMessage(UCSC-C220-M6S-WMP2721000Q)- Sync Pending and config Pull failed
CSCwp92905	vBranch brown-field switchport trunk mode vlan config is reset after hostaction vdaemon-start manually
CSCws91028	C8Kv VNF enters MONITOR_UNSET after editing the ND template (vCPU/memory/NIC changes)
CSCwt49419	Config Push to NFVIS Failed due to Out of Sync - Device is online. Failed to attach configuration
CSCwq57564	NFVIS upgrade from 4.9.3 to 4.12.5 fails with service validation error and timeout; retry results in leapp upgrade failure.

Open Bugs for Cisco NFV SD-Branch Release 20.12.7

There are no open defects captured for Cisco NFV SD-Branch Release 20.12.7.

Resolved and Open Bugs for Cisco NFV SD-Branch 20.12.6

Resolved Bugs for Cisco NFV SD-Branch Release 20.12.6

Bug ID	Description
CSCwq37637	vBranch workflows software upgrade download only fail due to Task Timeout has been reached.

Open Bugs for Cisco NFV SD-Branch Release 20.12.6

Bug ID	Description
CSCwo64906	NFVIS control connection flap.

Resolved and Open Bugs for Cisco NFV SD-Branch 20.12.5

Resolved Bugs for Cisco NFV SD-Branch Release 20.12.5

Bug ID	Description
CSCwk92103	vBranch: 2nd device not upgrade in the same site-id after the 1st device is upgraded successfully.

Bug ID	Description
CSCwk94510	NFVIS control connection down after single IP failover by stopping VM.

Open Bugs for Cisco NFV SD-Branch Release 20.12.5

Bug ID	Description
CSCwk42701	vBranch: change CIMC and BIOS password NFVIS commands do not work
CSCwo15366	Lose control connection and MGMT tunnel interface remain down when MGMT link flap

Resolved and Open Bugs for Cisco NFV SD-Branch 20.12.4

Resolved Bugs for Cisco NFV SD-Branch Release 20.12.4

Bug ID	Description
CSCwj01428	NFVIS should not allow users to configure via CLI command manually when device is in vManage mode.
CSCwk42701	vBranch: change CIMC and BIOS password NFVIS commands do not work.
CSCwk32359	vBranch: "hostaction change-bios-password/change-cimc-password" command do not work.
CSCwi13195	NFV4.9.4-ES8 4.9.5 vdaemon-start failed to install vdaemon tunnel-interface cli missing under vpn 0.

Open Bugs for Cisco NFV SD-Branch Release 20.12.4

Bug ID	Description
CSCwk98189	vBranch: NFVIS does not roll back when firmware CIMC upgrade fail from 4.12.2-31 to 4.12.4-35.
CSCwk92103	vBranch: 2nd device not upgrade in the same site-id after the 1st device is upgraded successfully.

Resolved and Open Bugs for Cisco NFV SD-Branch 20.12.3

Resolved Bugs for Cisco NFV SD-Branch Release 20.12.3

Bug ID	Description
CSCwh46931	Cisco SD-Branch: Failed to create network design: Failed to update one or more device profiles

Bug ID	Description
CSCwi75676	Cisco SD-Branch Network Design DayN switch configuration is not changed on Cisco ENCS-5400 platform
CSCwf50202	Cisco ENCS: Block transfer communication for TAM/sudi in Cisco SD-WAN Manager use case.
CSCwh91499	MT: Fail to add ISO image via Workflows->Software Upgrade in tenant UI. Option is read but not work.

Open Bugs for Cisco NFV SD-Branch Release 20.12.3

There are no open defects captured for Cisco NFV SD-Branch Release 20.12.3.

Resolved and Open Bugs for NFV SD-Branch Release 20.12.2

Resolved Bugs for Cisco NFV SD-Branch Release 20.12.2

Identifier	Headline
CSCwh05641	Post Recovery of Cisco NFVIS, NFV CG Deploy fails though valid config.
CSCwf97011	Cisco NFVIS CG deploy, Rollback failing because of the internet connectivity being temporarily down

Open Bugs for Cisco NFV SD-Branch Release 20.12.2

There are no open defects captured in this release.

Resolved and Open Bugs

Resolved Bugs for NFVIS SD-Branch Release 20.12.1

Identifier	Headline
CSCwh01669	Notification show VM_RECOVERY_REBOOT state when VM int-mgmt-net intf is updated with the new dhcp ip
CSCwf98797	Summary page of nfv CG workflows shows value of "color" for the field that is labeled as "Type"
CSCwf73536	vBranch: upgrade fail due to available disk space is below 5GB
CSCwh11913	UX2.0 ST and MT VNF primary image path missing additional file path specified in virtual image page

Open Bugs for NFV SD-Branch Release 20.12.1

There are no open defects caputred during this release.

Software Upgrade

Note NFVIS 4.1.1 release or later on ENCS 5400 devices are supported on Cisco SD-Branch solution.

For more details on the NFVIS software upgrade, see Upgrade Cisco NFVIS.

For more details on Cisco SD-WAN Manager software upgrade, see Cisco SD-WAN Manager Software Upgrade.

System Requirements

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

- See Cisco SD-WAN Manager requirements
- 20 GB storage is required for Cisco NFVIS

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

Table 1:

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(Cisco NFVIS 4.12.1/4.12.2/4.12.3./4.12.4
	CIMC	CIMC 3.2.14.2.bin(Cisco NFVIS Release 4.12.1)
		CIMC 3.2.14.9.bin(Cisco NFVIS Release 4.12.2)
		CIMC 3.2.14.14.bin(Cisco NFVIS Release 4.12.3)
		CIMC_3.2.14.19.bin(Cisco NFVIS Release 4.12.4)
	WAN Port Driver	5.4.0-5-k CISCO
	LAN Port Driver	1.4.22.7-11-ciscocsx
C8300-UCPE-1N20	BIOS	C83uCPE_BIOS_1.00.SPA (Cisco NFVIS Release 4.12.1)
		C83uCPE_BIOS_1.03.SPA (Cisco NFVIS Release 4.12.2/4.12.3 /4.12.4)
	CIMC	CIMC_4.12.0.284R.bin (Cisco NFVIS Release 4.12.1
		CIMC_4.12.0.296R.bin (Cisco NFVIS Release 4.12.2/4.12.3)
		CIMC_4.12.0.302R.bin (Cisco NFVIS Release 4.12.4)

Guest VNFs

For the list of supported VNFs that can be orchestrated through Cisco SD-WAN Manager, see the Guest VNFs section of Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release 4.12.1.

Related Documentation

- Cisco Network Function Virtualization Infrastructure Software Getting Started Guide
- Design and Deployment of Cisco NFVIS SD-Branch using Cisco SD-WAN Manager
- Cisco Enterprise Network Function Virtualization Infrastructure Software Configuration Guide, Release 4.x
- Release Notes for Cisco Enterprise Network Function Virtualization Infrastructure Software, Release Notes

- Cisco Catalyst 8200 Series Edge uCPE Data Sheet
- Cisco 5000 Enterprise Network Compute System Data Sheet
- Cisco Catalyst SD-WAN Configuration Guides

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