Release Notes for Cisco NFV SD-Branch features in Cisco Catalyst SD-WAN Manager Release 20.15.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

New and Enhanced Features for Cisco Enterprise NFVIS Release 20.15.2

Table 1: Feature History

Feature Name	Release Information	Description
Cisco NFVIS ThousandEyes Container Support	Cisco NFVIS Release 20.15.2	This feature adds support to use Cisco ThousandEyes as a container within Cisco SD-WAN Manager. This feature adds support for ThousandEyes Docker Container Upgrade using the NFVIS VM Lifecycle Workflow. It also introduces support for using new NFVIS-specific Docker images provided by ThousandEyes.
Manage Cisco UCS C-Series M6 Devices using SD-WAN Manager via **Create NFV Config Group Workflow**	Cisco NFVIS Release 4.15.2 Cisco Catalyst SD-WAN Manager Release 20.15.2	With this feature, you can manage the lifecycle of Cisco UCS C-Series M6 devices using Cisco SD-WAN Manager. This enables seamless provisioning and monitoring of these devices, and supports bulk deployment, which is ideal for large-scale operations.

New and Enhanced Features for Cisco Enterprise NFVIS Release 20.15.1

Table 2: Feature History

Feature Name	Description
Cisco SD-Branch ThousandEyes Support	This feature adds support to use Cisco ThousandEyes as a container within Cisco SD-WAN Manager.

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

Resolved Bugs for NFV SD-Branch Release 20.15.6

There are no resolved defects captured for Cisco NFV SD-Branch Release 20.15.6.

Open Bugs for NFV SD-Branch Release 20.15.6

There are no open defects captured for Cisco NFV SD-Branch Release 20.15.6.

Resolved Bugs for NFV SD-Branch Release 20.15.5

Bug ID	Description
CSCwr42622	vBranch: ND template deployment fail due to NFVIS cannot handle resource update when VM in shutoff state

Open Bugs for NFV SD-Branch Release 20.15.5

There are no open defects captured for Cisco NFV SD-Branch Release 20.15.5.

Resolved Bugs for NFV SD-Branch Release 20.15.4

There are no resolved defects captured for Cisco NFV SD-Branch Release 20.15.4.

Open Bugs for NFV SD-Branch Release 20.15.4

There are no open defects captured for Cisco NFV SD-Branch Release 20.15.4.

Resolved Bugs for NFV SD-Branch Release 20.15.3

Bug ID	Description
CSCwo15366	Lose control connection and MGMT tunnel interface remain Down when MGMT link flap

Open Bugs for NFV SD-Branch Release 20.15.3

Bug ID	Description
CSCwo46465	After fresh install NFVIS many services are showing not OK and hostname shows localhost.
CSCwo00476	UCSC-M6 NFVIS lose control connection after idle for few days

Resolved Bugs for NFV SD-Branch Release 20.15.2

Bug ID	Description
CSCwn02377	vBranch ZTP fail due to BOARD-ID-NOT-INITIALISED after fresh install on ENCS-5400 and C8200-UCPE
CSCwm64205	Fail to deploy same NFV CG with Switch parcel to different NFVIS devices. Validation Error on Switch
CSCwk95515	vManage user with operator role (read only) should not allow to start/stop/reboot vm on nfvis
CSCwm35139	vBranch: Loss control connection after upgrade NFVIS from 4.12.4 to 4.15.1
CSCwk94510	NFVIS control connection down after single ip failver by stopping vm
CSCwm01992	Save option greyed out when trying to edit snmp parcel
CSCwm09476	ND deployment fail Deployment c8kv failed with error: Bootstrap File not found
CSCwm28855	vBranch: Fail to deploy ND to device due to Invalid usage - Remove vlan before using vlan-range

Open Bugs for NFV SD-Branch Release 20.15.2

Bug ID	Description
CSCwk95515	vManage user with operator role (read only) should not allow to start/stop/reboot VM on NFVIS
CSCwn78261	C8Kv certificate install failed
CSCwo83623	OIB vManage Remote Server page accept VPN field empty and cause upgrade fail

Resolved Bugs for NFV SD-Branch Release 20.15.1

Bug ID	Description
CSCwi66014	C8300-UCPE-1N20: MEMORY_USAGE_HIGH: System uses 90.1987075805664% of memory
CSCwj99812	Creating a new Branch site on vManage Network Design using an old name is failing
CSCwk42701	vBeanch: change CIMC and BIOS password NFVIS commands do not work
CSCwj27568	Cisco_NFVIS-4.14.1-EFT2 NIM is missing or not booting UP
CSCwj25285	Device Tags not showing up when associate to configGroup
CSCwi49826	MT: C8Kv sd-routing is unreachable due to missing site-id in vManage but C8Kv shows connection UP

Bug ID	Description
CSCwk38176	PSIRT-0364399892: vManage UI does not log out automatically when UI is idle over 30 minutes

Open Bugs for NFV SD-Branch Release 20.15.1

Bug ID	Description
CSCwk05269	NFV onboarded device showing version 20.12 and update to right version takes couple minutes
CSCwj40313	C8Kv does not get QAT hardware crypto when scale up C8Kv with NGIO enabled
CSCwk94510	nfvis control connection down after single ip failver by stopping vm
CSCwm01992	Save option greyed out when trying to edit snmp parcel
CSCwk31302	Fail to import SDWAN CG with Reason: Failed to import config and package
CSCwj39210	C8Kv does not get QAT hardware crypto when scale up with 5 interfaces
CSCwm09476	ND deployment fail Deployment c8kv failed with error: Bootstrap File not found
CSCwm28855	vBranch: fail to deploy ND to device due to Invalid usage - Remove vlan before using vlan-range
CSCwm01262	Fail to deploy same NFV CG with Switch parcel to different NFVIS devices. Validation Error on Switch
CSCwm35139	vBranch: Loss control connection after upgrade NFVIS from 4.12.4 to 4.15.1

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

Platform	Firmware	Version
ENCS 5406, ENCS 5408, and ENCS 5412	BIOS	ENCS54_BIOS_4.00.SPA
	CIMC	CIMC_3.2.14.19.bin
	WAN Port Driver	5.4.0-5-k CISCO
	LAN Port Driver	1.4.22.7-11-ciscocsx
C8200-UCPE-1N8	BIOS	C8200-UCPE_1.04
	MCU	240.52
C8300-UCPE-1N20	BIOS	C83uCPE_BIOS_1.05.SPA
	CIMC	CIMC_4.15.0.2R.bin

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 4.15.1.

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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