

Release Notes for Cisco NFVIS SD-Branch, NFVIS Release 4.1.1 and vManage Release 20.1.1.1

First Published: 2020-05-30

About Cisco NFVIS SD-Branch Solution

Cisco Software-Defined Branch (SD-Branch) solution is a combination of simplified hardware, software and virtualized services that can be deployed in a short time. Enterprise and service providers, are consolidating network services from dedicated hardware appliances into virtualized on-demand applications. These applications run on branch office softwares with a centralized orchestration and management. The branch office softwares eliminates the dependency on hardware for each function at the branch, simplifies configurable tasks, reduces time and centralizes operations and management. This increases the ability of operators to deploy Network Function Virtualization (NFV) services with greater speed and flexibility.



Note Cisco NFVIS SD-Branch solution for NFVIS 4.1.1 and vManage 20.1.1.1 release, supports greenfield deployment for Cisco ENCS 5400 platform.

What's New

Feature	Description	Where Documented
Zero Touch Provisioning for NFVIS using PnP and vManage	The Cisco NFVIS SD-Branch solution provides automatic discovery and provisioning of NFVIS WAN Edge devices through the Zero-Touch Provisioning (ZTP) process.	Define Cisco NFVIS SD-Branch Solution
VNF packaging and virtual images repository	vManage supports customization of VNF packages to allow VNF provisioning.	Create VNF Image Packages
Network Design - intent based workflow that generates templates and configs	This section provides information on how to configure network design elements such as circuits, branch sites, global parameters and device profiles. You can then design your network to create and manage an overlay network topology.	Network Design

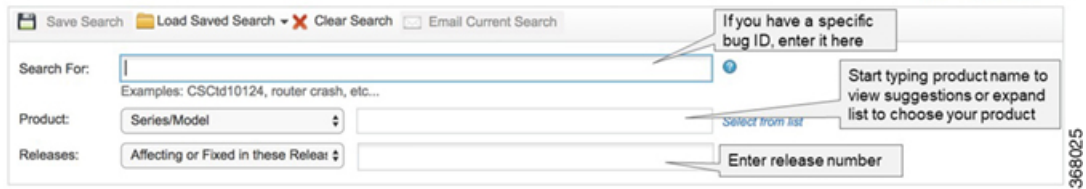
Feature	Description	Where Documented
Deploy NFVIS SD-Branch	This section covers the prerequisites to onboard NFVIS WAN Edge devices, followed by the different on-boarding options and on-boarding verification.	Deploy SD-Branch Solution
Cisco ENCS 5400 Platform and VNF Monitoring	This section covers some of the common troubleshooting and monitoring steps. Using vManage, you can monitor, troubleshoot and manage the NFVIS WAN Edge devices.	Operate SD-Branch Solution

Open Bugs

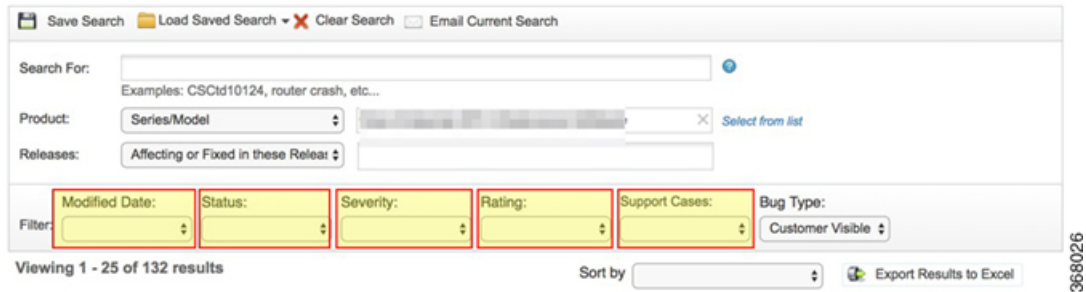
About the Cisco Bug Search Tool

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 NFVIS SD-Branch Release 4.1.1

Caveat ID Number	Description
CSCvp92742	Kepler: show version console hang
CSCvr52579	vManage network template allows vlan range "-" (vlan 71 - 75) on OVS network setting

Caveat ID Number	Description
CSCvr74841	network design does not support to config static route on ENCS 5400 device
CSCvs26366	Offline device is not shown in detach table list
CSCvs54182	Dashboard-> main dashboard number of control up does not count encs control up connection
CSCvs54574	Monitor->Network->encs device-> real time -> device uptime does not show correct uptime
CSCvs71996	Enhancement: support enable/disable spanning tree per port in Network Design (ND)
CSCvs72538	When configured user name with "_", we get error in preview error
CSCvs77128	network design does not support to config default gateway on ENCS 5400
CSCvs77383	network design does not support to config global vlan on ENCS 5400
CSCvs96126	Fail to detach offline device
CSCvt22455	unable to close netconf session when push config
CSCvt28154	Scalability: Fail to push topo1 ND temaplte on 10 ENCS units in one branch
CSCvt40068	NIM info not available in hardware inventory - Support NIM API and add info in hardware inventory
CSCvt40083	Add switch info in hardware inventory for ENCS
CSCvt40088	Support to show ENCS switch interface stats in vManage -> Monitor -> Network -> [ENCS] -> Interface
CSCvt43828	UI: enforce users to enter vlaid VLAN ID range instead of remove ID(s) and allow to save
CSCvt44304	Need show color icon for "State" column and remove "Color" column in Monitor-> Network -> VNF status
CSCvt49269	ND->branchsites->create profile->only the 1st LAN interface set access mode as default
CSCvt60595	vBranch: Incorrect chart and vnic info in Monitor page for ENCS -> ROUTER_1 (vEdge) or Linux VM
CSCvt68916	Advance Mode: Missing management interface IP variable
CSCvt74754	After add new user, ALL previous AAA users' passwords are changed automatically to unknown password
CSCvt76428	ND:"Confirm" button is grayed out if select network from "New Network" instead of predefined network

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 vManage software upgrade, see [vManage Software Upgrade](#).

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.
- 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

Supported VMs

The following table lists the verified versions of supported VMs:

Virtual Network Functions (VNFs)	Versions
Cisco ISRv	17.2.1
	16.12.1a
	16.12.1b
Cisco ASAv	9.13.1

Virtual Network Functions (VNFs)	Versions
Cisco vWAAS	6.4.3c-b-42
Viptela vEdge	20.1 19.2.1
Fortinet	v5.4.1,build9317,161003
PaloAlto	8.1.3
Riverbed	9
Checkpoint	77.30
SilverPeak	7.3.9.0



Note Windows and Linux VMs are also supported.

Related Documentation

- [NFVIS SD-Branch Solution Guide](#)
- [Cisco Enterprise Network Function Virtualization Infrastructure Software Configuration Guide, Release 4.1.1](#)
- [SD-WAN Configuration Guides](#)

