

Release Notes: Junos[®] OS Release 15.1X53-D495 for NFX250

November 13, 2018

These release notes accompany Junos OS Release 15.1X53-D495 for NFX250. They describe new and changed features, limitations, and known issues in hardware and software.

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Junos® OS Release Notes for NFX250

These release notes accompany Junos OS Release 15.1X53-D495 for NFX250. They describe new and changed features, limitations, and known problems in the hardware and software. You can also find these release notes on the Juniper Networks Junos OS Documentation webpage, located at

<https://www.juniper.net/documentation/software/junos/>

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New and Changed Features

This section describes the new features or enhancements to existing features in Junos OS Release 15.1X53-D495 for NFX250.

- [Hardware on page 2](#)

Hardware

- ADSL2, ADSL2+ and VDSL2 SFP modules—Starting in Junos OS Release 15.1X53-D495, NFX250 devices support ADSL2, ADSL2+ and VDSL2 SFP modules. The ADSL2, ADSL2+ and VDSL2 SFP modules are supported on the SFP and SFP+ ports on the NFX250 devices. Note that the ADSL2, ADSL2+ and VDSL2 SFPs are not supported on the extension modules.

[See [ADSL2 and ADSL2+ Interfaces on NFX250 Devices](#)]

[See [VDSL2 Interfaces on NFX250 Devices](#)]

Related •
Documentation

Changes in Behavior and Syntax

This section describes the changes in behavior and syntax in Junos OS Release 15.1X53-D495 for NFX250.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online [Junos Problem Report Search](#) application.

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Offloads Disable

- Starting in Junos OS Release 15.1X49-D130.6 for vSRX, the vSRX DPDK versions are changed. To achieve better performance or throughput in Junos OS Release 15.1X53-D471 and Junos OS Release 15.1X53-D474 with latest vSRX, it is recommended to use offloads disable feature for vSRX OVS interfaces. It offloads the configuration for the VNF interface. The **offloads disable** command is defined in **virtual-network-functions** configuration under **interfaces** hierarchy.



NOTE: This feature is available only in enhanced-orchestration mode.

Use the following command to configure the **offloads disable** option:

```
set virtual-network-functions vnf-name interfaces interface-name offloads disable
```

QEMU Upgrade

- In Junos OS Release 15.1X53-D471 and Junos OS Release 15.1X53-D474 for NFX250, QEMU emulator version is upgraded from “QEMU emulator version 2.2.0, Copyright (c) 2003-2008 Fabrice Bellard” to “QEMU emulator version 2.7.0, Copyright (c) 2003-2016 Fabrice Bellard and the QEMU Project developers”.

Known Issues

This section lists the known issues in hardware and software in Junos OS Release 15.1X53-D495 for NFX250.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online [Junos Problem Report Search](#) application.

- [Upgrade on page 4](#)
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Upgrade

- caed core generated in vJUNOS after upgrading from mainline releases to Junos OS Release 15.1X49-D495 release. [PR1393615](#)

vSRX

- The performance numbers on a single vSRX in OVS mode running Junos OS Release 15.1X49-D143 are 10KPPS less compared to a single vSRX in OVS mode running Junos OS Release 15.1X49-D130.6. [PR1369610](#)

Dual CPE Mode

- In dual CPE mode, IP address assigned to VNF on virbr0 is not from the system allocated IP address pool. Hence, liveliness of the VNF will go down. [PR1369877](#)

Resolved Issues

This section lists the issues that are resolved in hardware and software in Junos OS Release 15.1X53-D495 for NFX250.

There are no resolved issues in Junos OS Release 15.1X53-D495 for NFX250.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online [Junos Problem Report Search](#) application.

Documentation Updates

This section lists the errata and changes in Junos OS Release 15.1X53-D495 documentation for NFX250.

There are no errata or changes in Junos OS Release 15.1X53-D495 documentation for NFX250.

Migration, Upgrade, and Downgrade Instructions

This section contains the procedure to upgrade Junos OS, and the upgrade and downgrade policies for Junos OS for NFX250. Upgrading or downgrading Junos OS might take several hours, depending on the size and configuration of the network.

- [Upgrade and Downgrade Support Policy for Junos OS Releases on page 4](#)
- [Basic Procedure for Upgrading to Release 15.1X53-D495 on page 5](#)

Upgrade and Downgrade Support Policy for Junos OS Releases

Support for upgrades and downgrades that span more than three Junos OS releases at a time is not provided, except for releases that are designated as Extended End-of-Life (EEOL) releases. EEOL releases provide direct upgrade and downgrade paths—you can upgrade directly from one EEOL release to the next EEOL release even though EEOL releases generally occur in increments beyond three releases.

To upgrade or downgrade from a non-EEOL release to a release more than three releases before or after, first upgrade to the next EEOL release and then upgrade or downgrade from that EEOL release to your target release.

For more information on EEOL releases and to review a list of EEOL releases, see <https://www.juniper.net/support/eol/junos.html>.

Basic Procedure for Upgrading to Release 15.1X53-D495

When upgrading or downgrading Junos OS, use the **jinstall** package. For information about the contents of the **jinstall** package and details of the installation process, see the [Installation and Upgrade Guide](#). Use other packages, such as the **jbundle** package, only when so instructed by a Juniper Networks support representative.



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NOTE: The installation process rebuilds the file system and completely reinstalls Junos OS. Configuration information from the previous software installation is retained, but the contents of log files might be erased. Stored files on the device, such as configuration templates and shell scripts (the only exceptions are the `juniper.conf` and `ssh` files), might be removed. To preserve the stored files, copy them to another system before upgrading or downgrading the device. For more information, see the [Junos OS Administration Library](#).

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NOTE: We recommend that you upgrade all software packages out of band using the console because in-band connections are lost during the upgrade process.

To download and install Junos OS Release 15.1X53-D495:

1. Using a Web browser, navigate to the **All Junos Platforms** software download URL on the Juniper Networks webpage:
<https://www.juniper.net/support/downloads/>
2. Select the name of the Junos OS platform for the software that you want to download.
3. Select the **Software** tab.
4. Select the release number (the number of the software version that you want to download) from the **Version** drop-down list to the right of the Download Software page.
5. In the **Install Package** section of the **Software** tab, select the software package for the release.
6. Log in to the Juniper Networks authentication system using the username (generally your e-mail address) and password supplied by Juniper Networks representatives.
7. Review and accept the End User License Agreement.
8. Download the software to a local host.
9. Copy the software to the device or to your internal software distribution site.
10. Install the new package on the device.

Product Compatibility

- [Hardware Compatibility on page 6](#)
- [NFX250 Software Version Compatibility on page 7](#)

Hardware Compatibility

To obtain information about the components that are supported on the devices, and special compatibility guidelines with the release, see the Hardware Guide and the Interface Module Reference for the product.

To determine the features supported on NFX250 devices in this release, use the Juniper Networks Feature Explorer, a Web-based application that helps you to explore and

compare Junos OS feature information to find the right software release and hardware platform for your network.

Find Feature Explorer at: <https://pathfinder.juniper.net/feature-explorer/>.

Hardware Compatibility Tool

For a hardware compatibility matrix for optical interfaces and transceivers supported across all platforms, see the [Hardware Compatibility Tool](#).

NFX250 Software Version Compatibility

This section lists the vSRX and Cloud CPE Solution software releases that are compatible with the Junos OS releases on the NFX250 platform:

Table 1: Software Compatibility Details with vSRX and Cloud CPE Solution

NFX250 Junos OS Release	vSRX	Cloud CPE Solution
15.1X53-D40.3	15.1X49-D40.6	Cloud CPE Solution 2.0
15.1X53-D41.6	15.1X49-D61	Cloud CPE Solution 2.1
15.1X53-D102.2	15.1X49-D61	Cloud CPE Solution 3.0
15.1X53-D47.4	15.1X49-D100.6	Cloud CPE Solution 3.0.1
15.1X53-D490	15.1X49-D143	Cloud CPE Solution 4.0
15.1X53-D495	15.1X49-D160	Cloud CPE Solution 4.1

Table 2: Software Compatibility Details with only vSRX Installed

NFX250 Junos OS Release	vSRX
15.1X53-D40.3	15.1X49-D40.6
15.1X53-D41.6	15.1X49-D40.6
15.1X53-D45.3	15.1X49-D61
15.1X53-D47.4	15.1X49-D78.3
17.2R1	15.1X49-D75
17.3R1	15.1X49-D100
15.1X53-D471	15.1X49-D143

- Related Documentation**
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