

Release Notes: Junos[®] OS Release 15.1X49-D65 for the SRX Series

Release 15.1X49-D65
17 November 2016
Revision 3

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Introduction

Junos OS runs on the following Juniper Networks[®] hardware: ACX Series, EX Series, M Series, MX Series, PTX Series, QFabric, QFX Series, SRX Series, and T Series.

These release notes accompany Junos OS Release 15.1X49-D65 for the SRX Series. They describe new and changed features, known behavior, and known and resolved 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/techpubs/software/junos/>.



NOTE: Junos OS Release 15.1X49-D65 introduces SRX4100 and SRX4200 devices.

For more details about SRX Series high-end hardware and software compatibility, please see <http://kb.juniper.net/KB30446>. If you have any questions concerning this notification, please contact the Juniper Networks Technical Assistance Center (JTAC).

New and Changed Features

This section describes the new features and enhancements to existing features in Junos OS Release 15.1X49-D65 for the SRX4100 and SRX4200 devices.

- [Release 15.1X49-D65 Hardware Features on page 4](#)
- [Release 15.1X49-D65 Software Features on page 4](#)

Release 15.1X49-D65 Hardware Features

Hardware

- **SRX4100 and SRX4200 Services Gateways**—The SRX4100 and SRX4200 Services Gateways are high-performance, scalable, mid-range services gateways that consolidate security, next-generation firewall, and advanced threat prevention capabilities to provide secure connectivity. Suited for small to medium enterprises and data centers, the services gateways protect network resources and provide improved user and application experience.

The services gateways are 1 U tall with eight 10-Gigabit Ethernet SFP+ ports, two 1-Gigabit Ethernet/10-Gigabit Ethernet HA ports, one management port, and one console port. The services gateways come with 64 GB DDR4 memory and two 240 GB solid-state drives (SSDs) in RAID1 configuration.

The SRX4100 and SRX4200 Services Gateways are available in both AC and DC models.

[See [SRX4100 Services Gateway Overview](#) and [SRX4200 Services Gateway Overview](#).]

Release 15.1X49-D65 Software Features

Junos OS Release 15.1X49-D65 software features align with Junos OS Release 15.1X49-D60. For more information on 15.1X49-D60 features refer [Release Notes 15.1X49-D60](#).

- [Platforms and Infrastructure on page 4](#)
- [Sky Advanced Threat Prevention on page 5](#)

Platforms and Infrastructure

- **SRX4100 and SRX4200 Services Gateways**—The SRX4100 and SRX4200 Services Gateways are midrange dynamic services gateways that consolidate security functionality, networking services, and uncompromised performance for small to medium enterprises. With advanced security and threat mitigation capabilities, SRX4100 and SRX4200 devices can be used for campus edge firewall, data center edge firewall, and VPN concentrator.

The part number and the model number of the SRX4100 and SRX4200 devices can be viewed using the **show chassis hardware** command. Following example is a sample output of **show chassis hardware** command on SRX4200 is device:

```
user@host> show chassis hardware
```

Hardware inventory:

Item	Version	Part number	Serial number	Description
Chassis			DK2816AR0020	SRX4200
Mainboard	REV 01	650-071675	16061032317	SRX4200
Routing Engine 0		BUILTIN	BUILTIN	SRX Routing Engine
FPC 0		BUILTIN	BUILTIN	FEB
PIC 0		BUILTIN	BUILTIN	8x10G-SFP
Xcvr 0	REV 01	740-038153	MOC11511530020	SFP+-10G-CU3M
Xcvr 1	REV 01	740-038153	MOC11511530020	SFP+-10G-CU3M
Xcvr 2	REV 01	740-038153	MOC11511530020	SFP+-10G-CU3M
Xcvr 3	REV 01	740-038153	MOC11511530020	SFP+-10G-CU3M
Xcvr 4	REV 01	740-021308	04DZ06A00364	SFP+-10G-SR
Xcvr 5	REV 01	740-031980	233363A03066	SFP+-10G-SR
Xcvr 6	REV 01	740-021308	AL70SWE	SFP+-10G-SR
Xcvr 7	REV 01	740-031980	ALN0N6C	SFP+-10G-SR
Xcvr 8	REV 01	740-030076	APF16220018NK1	SFP+-10G-CU1M
Power Supply 0	REV 04	740-041741	1GA26241849	JPSU-650W-AC-AFO
Power Supply 1	REV 04	740-041741	1GA26241846	JPSU-650W-AC-AFO
Fan Tray 0				SRX4200 0, Front to
Back Airflow - AFO				
Fan Tray 1				SRX4200 1, Front to
Back Airflow - AFO				
Fan Tray 2				SRX4200 2, Front to
Back Airflow - AFO				
Fan Tray 3				SRX4200 3, Front to
Back Airflow - AFO				

Sky Advanced Threat Prevention

- **Support for SRX4100 and SRX4200 Devices**—Junos OS Release 15.1X49-D65 supports Sky ATP running on SRX4100 and SRX4200.

[See the [Sky Advanced Threat Prevention Supported Platforms Guide](#).]

Related Documentation

- [Changes in Behavior and Syntax on page 5](#)
- [Known Behavior on page 6](#)
- [Known Issues on page 6](#)
- [Resolved Issues on page 9](#)

Changes in Behavior and Syntax

This section lists the changes in behavior of Junos OS features and changes in the syntax of Junos OS statements and commands.

Junos OS Release 15.1X49-D65 does not have any changes in behavior and syntax.

Related Documentation

- [New and Changed Features on page 4](#)
- [Known Behavior on page 6](#)
- [Known Issues on page 6](#)
- [Resolved Issues on page 9](#)

Known Behavior

This section contains the known behaviors, system maximums, and limitations in hardware and software in Junos OS Release 15.1X49-D65.

Flow-based and Packet-based Processing

- The **request system halt** command used for halting the system and stopping software processes on the device is not supported on SRX4100 and SRX4200 devices.

J-Web

- The online help pages do not have documentation for the DHCP and JDHCP related software modifications.

Platform and Infrastructure

- On SRX4000 series devices, although the CLI is configurable, the following features are not supported:
 - Encrypted control links when in cluster mode
 - General Packet Radio Service (GPRS)
 - Group VPN and VPN Suite B
 - JFlowv9
 - LACP with L2 Transparent Mode

Software Installation and Upgrade

- For SRX4100, and SRX4200 devices, in-band cluster upgrade (ICU) is supported. The **no-sync** parameter is not supported when using ICU to upgrade. The **no-sync** option specifies that the state is not synchronized from the primary node to the secondary node.
- SRX4100 and SRX4200 devices do not support in-service software upgrade (ISSU).

Related Documentation

- [New and Changed Features on page 4](#)
- [Changes in Behavior and Syntax on page 5](#)
- [Known Issues on page 6](#)
- [Resolved Issues on page 9](#)

Known Issues

This section lists the known issues in hardware and software in Junos OS Release 15.1X49-D65.



NOTE: Junos OS Release 15.1X49-D60 non platform specific known issues are applicable for SRX4100 and SRX4200 devices. For more information on 15.1X49-D60 known issues see [Release Notes 15.1X49-D60](#) refer 15.1X49-D60 RNs.

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

J-Web

- On SRX4100 and SRX4200 devices in J-Web, when you login to the Web-authentication page, BAD_PAGE_FAULT will be seen. [PR1180787](#)
- On SRX4100 and SRX4200 devices in J-Web, error message is seen on J-Web when adding a custom-applications setting, while no error message on the CLI for the same configuration. [PR1183037](#)
- HA wizard for SRX4100 and SRX4200 devices use ge-0/0/3 as management port to access J-Web post HA configuration. Working with ge-0/0/3 mandates you to be near the device (possible to access device in switched private network also) and automatically configures a private IP to the interface ge-0/0/3. It also configures the device as a DHCP Server which assigns an IP to the connected device from the same subnet to which this interface belongs.

As a workaround, follow the configuration wizard strictly. When the wizard prompts you to make the secondary device up then make the secondary device up. [PR1142955](#)

- On SRX4100 and SRX4200 devices, while using JWeb SetUp Wizard to select multiple port under Security Topology/Zone Setup/Edit Zone, it fails to configure IRB interface properly. [PR1205163](#)
- On SRX4100 and SRX4200 devices, J-Web **Chassis Viewer** should be stable and should not drag.

To avoid the this:

- Do not drag and drop the chassis viewer image within the pages, this will lead to misalignment in the dashboard.
- Avoid minimizing any browser while using J-Web, this will lead to usability issues like scroll bar will be missed and you cannot view the full screen.

As a workaround:

- Navigate to other tabs like Configure, Monitor and return back to dashboard to get the proper view.
- Maximize the browser and refresh the page.

[PR1204481](#)

- JWeb SetUp Wizard might stuck at loading while editing zone Setup in Security Topology. [PR1205169](#)

- On SRX4100 and SRX4200 devices in J-Web, there is no support for the Snapshot functionality **Maintain->Snapshot->Target Media->Disk ->Click Snap Shot** as this functionality is not supported on the device. [PR1204587](#)
- On SRX4100 and SRX4200 devices, as part of JDHCP changes DHCP client bindings under **Monitor** is removed for Junos OS Release 15.1X49-D60. The same bindings can be seen in CLI using the **show dhcp client binding** CLI command. [PR1205915](#)
- On SRX4100 and SRX4200 devices, as part of JDHCP changes DHCP relay configuration under **Configure > Services > DHCP > DHCP Relay** page is removed from J-Web in Junos OS Release 15.1X49-D60. The same DHCP relay can be configured using the CLI. [PR1205911](#)
- On SRX4100 and SRX4200 devices In J-Web, Monitor -> System View -> Cluster Status page, IP monitoring table is not reflecting the configurations (IP address, status, reason, failure count, node) committed in Configure -> Chassis Cluster-> Cluster Configuration->HA cluster Settings->Add/Edit redundancy groups->ip monitoring dropdown table. [PR1219309](#)
- On SRX4100 and SRX4200 devices, if you configure more than 5K of firewall policies, the pages listed below will not be loaded successfully.
 - Link Aggregation page: **Configure>Interface>Link Aggregation**
 - Zones/Screens page: **Configure>Security>Zones/Screens**

As a workaround, use the **show security policies** CLI command.

[PR1220052](#)

- On SRX4100 and SRX4200 devices, you cannot upload the huge and supported configuration file through J-Web (Maintain>config Management> Upload) option. workaround via CLI.

Following error is displayed **Allowed memory size of 52428800 bytes exhausted (tried to allocate 18781489 bytes) in /html/core/junoscript.php on line 441.**

As a workaround, use CLI for uploading huge and supported configuration files using the CLI **load update Filename** command in edit mode.

[PR1220059](#)

Network Address Translation (NAT)

- On all high-end SRX Series devices, security policies are not downloaded after ISSU from Junos OS Release 12.1X46-D40 to Junos OS Release 12.1X46-D45, 12.3X48-D10 or higher, when NAT is configured. [PR1120951](#)
- On SRX Series devices, intranet IPs can communicate with each other on open ports when you use only "junos-persistent-nat" application in trust-to-trust policy with persistent NAT and Hairpin. This issue can be avoided when "destination-address drop-untranslated" is configured in the policy. [PR1171160](#)

Platform and Infrastructure

- On SRX Series devices, File Descriptor (FD) might leak on the httpd-gk process when system fails to connect to the mgd process management socket. [PR1127512](#)
- On SRX4100 and SRX4200 devices, Layer 2 Link Aggregation Control Protocol (LACP) is not supported. [PR1228371](#)
- On SRX4100 and SRX4200 devices, Jflow v9 on chassis cluster is not supported. [PR1228375](#)
- On SRX4100 and SRX4200 devices in chassis cluster (HA), control link encryption is not supported. [PR1228378](#)

Routing Policy and Firewall Filters

- On all SRX Series devices, there might be a traffic outage if failover happens between node0 and node1 and the network security daemon (NSD) fails to read the security policies from the configuration file. As a workaround, restart the NSD until you recover NSD using the **restart network-security** command. [PR1182591](#)

Unified Threat Management (UTM)

- On SRX Series devices, when the size of an attachment is larger than 20 MB, the SMTP antivirus scanning of UTM fails to transfer the attached file. [PR838503](#)
- On high-end SRX Series devices, under high CPS and UTM SAV interested traffic, SRX might ramp up to 99% CPU usage due to central lock of object cache memory allocation. There is no clear boundary since allocation race condition is varying. Basically, reducing traffic CPS could lower high CPU usage. [PR967739](#)

VPNs

- On SRX Series devices, if IPsec VPN tunnel is established using IKEv2, few drops might be observed during CHILD_SA rekey with the reason "bad SPI", when the SRX is the responder for this rekey. [PR1129903](#)
- On high-end SRX Series devices, on hub side, autoVPN tunnel fails to come up if establish immediately is configured. Since establish immediately is not needed on hub side, there is no impact of not configured establish immediately on hub side. As a workaround, do not configure establish immediately on hub as it is not needed. [PR1160948](#)
- On SRX Series devices, VPN monitoring feature is not working correctly in Junos OS Release 15.1X59-D40. Hence, it is better to avoid using it. As a workaround, use Dead Peer Detection (DPD) to check peer liveness. [PR1163751](#)

Resolved Issues

This section lists the issues fixed in the Junos OS Release 15.1X49-D65.

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

Resolved Issues: Release 15.1X49-D65

Junos OS Release 15.1X49-D65 does not have any resolved issues from D60, but the issues resolved in 15.1X49-D60 applies to Junos OS Release 15.1X49-D65 for SRX4100 and SRX4200 devices.

- Related Documentation**
- [New and Changed Features on page 4](#)
 - [Changes in Behavior and Syntax on page 5](#)
 - [Known Behavior on page 6](#)
 - [Known Issues on page 6](#)

Documentation Updates

There are no errata and changes in the software documentation for Junos OS Release 15.1X49-D65. For information on errata and changes in the software documentation for Junos OS Release 15.1X49-D60 please refer the 15.1X49-D60 Release Notes.

Product Compatibility

This section lists the product compatibility for any Junos SRX mainline or maintenance release.

- [Hardware Compatibility on page 10](#)
- [Transceiver Compatibility for SRX Series Devices on page 10](#)

Hardware Compatibility

To obtain information about the components that are supported on the device, and special compatibility guidelines with the release, see the SRX Series Hardware Guide.

To determine the features supported on SRX Series 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 <http://pathfinder.juniper.net/feature-explorer/>.

Transceiver Compatibility for SRX Series Devices

We strongly recommend that only transceivers provided by Juniper Networks be used on SRX Series interface modules. Different transceiver types (long-range, short-range, copper, and others) can be used together on multiport SFP interface modules as long as they are provided by Juniper Networks. We cannot guarantee that the interface module will operate correctly if third-party transceivers are used.

Please contact Juniper Networks for the correct transceiver part number for your device.

Finding More Information

For the latest, most complete information about known and resolved issues with the Junos OS, see the Juniper Networks Problem Report Search application at <http://prsearch.juniper.net>.

Juniper Networks Feature Explorer is a Web-based application that helps you to explore and compare Junos OS feature information to find the correct software release and hardware platform for your network. Find Feature Explorer at <http://pathfinder.juniper.net/feature-explorer/>.

Juniper Networks Content Explorer is a Web-based application that helps you explore Juniper Networks technical documentation by product, task, and software release, and download documentation in PDF format. Find Content Explorer at <http://www.juniper.net/techpubs/content-applications/content-explorer/>.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can provide feedback by using either of the following methods:

- Online feedback rating system—On any page at the Juniper Networks Technical Documentation site at <http://www.juniper.net/techpubs/index.html>, simply click the stars to rate the content, and use the pop-up form to provide us with information about your experience. Alternately, you can use the online feedback form at <http://www.juniper.net/techpubs/feedback/>.
- E-mail—Send your comments to techpubs-comments@juniper.net. Include the document or topic name, URL or page number, and software version (if applicable).

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need postsales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the JTAC User Guide located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/>.
- JTAC Hours of Operation —The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <http://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) tool located at <https://tools.juniper.net/SerialNumberEntitlementSearch/>.

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, visit us at <http://www.juniper.net/support/requesting-support.html>.

If you are reporting a hardware or software problem, issue the following command from the CLI before contacting support:

```
user@host> request support information | save filename
```

To provide a core file to Juniper Networks for analysis, compress the file with the **gzip** utility, rename the file to include your company name, and copy it to **ftp.juniper.net/pub/incoming**. Then send the filename, along with software version information (the output of the **show version** command) and the configuration, to **support@juniper.net**. For documentation issues, fill out the bug report form located at <https://www.juniper.net/cgi-bin/docbugreport/>.

Revision History

17 November 2016—Revision 3— Junos OS 15.1X49-D65 – SRX Series.

10 November 2016—Revision 2— Junos OS 15.1X49-D65 – SRX Series.

31 October 2016—Revision 1— Junos OS 15.1X49-D65 – SRX Series.

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