

Release Notes: Junos[®] OS Release 15.1X49-D230 for the SRX Series

Release 15.1X49-D230
25 September 2020
Revision 2

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Introduction

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

These release notes accompany Junos OS Release 15.1X49-D230 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/documentation/software/junos/>.

NOTE: Junos OS Release 15.1X49-D230 supports the following devices: SRX300, SRX320, SRX340, SRX345, SRX550M (High Memory), SRX1500, SRX4100, SRX4200, SRX5400, SRX5600, and SRX5800 devices with host subsystems composed of either an SRX5K-RE-1800X4 (RE2) with an SRX5K-SCBE (SCB2), or an SRX5K-RE-1800X4 (RE2) with an SRX5K-SCB3 (SCB3), and vSRX.

For more details about SRX5400, SRX5600, and SRX5800 devices hardware and software compatibility, see <https://kb.juniper.net/InfoCenter/index?page=content=KB21476>. If you have any questions concerning this notification, please contact the Juniper Networks Technical Assistance Center (JTAC).

New and Changed Features

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This section describes new features and enhancements to existing features in Junos OS Release 15.1X49-D230 for the SRX Series devices. For information about new and changed features starting in Junos OS Release 15.1X49-D10 through Junos OS Release 15.1X49-D220, see the Release Notes listed in the Release 15.1X49 section at [Junos OS for SRX Series page](#).

Release 15.1X49-D230 Software Features

There are no new features in Junos OS Release 15.1X49-D230 for the SRX Series.

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Changes in Behavior and Syntax

Junos OS Release 15.1X49-D230 does not have any changes in behavior and syntax for SRX Series devices.

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Known Limitations

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This section contains the known behaviors, system maximums, and limitations in hardware and software in Junos OS Release 15.1X49-D230.

Chassis Clustering

- In a chassis cluster setup on SRX550M devices, traffic loss for about 10 seconds is observed when there is a power failure on the active chassis cluster node. [PR1195025](#)
- IP monitoring for redundancy groups might not work on the secondary node if the reth interface has more than one physical interfaces configured. This is because the backup node sends traffic using the MAC address of the lowest port in the bundle. If the reply does not come back on the same physical port, then the internal switch drops the traffic. [PR1344173](#)

Flow-Based and Packet-Based Processing

- On SRX340 and SRX345 devices, half-duplex mode is not supported. [PR1149904](#)
- On SRX300 and SRX320 devices, link mode cannot be set to half-duplex mode on internal small form-factor pluggable (SFP) ports. [PR1165259](#)
- On SRX Series devices, after the user changes some interface configurations, a reboot warning message might appear. The warning message is triggered only when the configuration of the interface mode is changed from route mode to switching mode or mixed mode. This is a configuration-related warning message, so it might not reflect the current running state of the interface mode. [PR1165345](#)
- On SRX300, SRX320, SRX340, SRX345, and SRX550M devices, the current Ethernet switching MAC aging uses software to age out MAC addresses learned in bulk. You cannot age out a specific MAC address learned at a specific time immediately after the configured age. The MAC address might age out close to two times the configured age-out time. [PR1179089](#)
- On SRX Series devices, the show arp command displays all the ARP entries learned from all interfaces. While switching to Layer 2 global mode, the ARP entries learned from the IRB interface show only one specific VLAN member port instead of the actual VLAN port learned in the ARP entries. [PR1180949](#)
- On SRX300, SRX320, SRX340, and SRX345 devices, you cannot launch the setup wizard by using the reset configuration button when the device is in Layer 2 transparent mode. You can launch the setup wizard by using the reset configuration button on the device only when the device is in switching mode. [PR1206189](#)
- On SRX300, SRX320, SRX340, SRX345, and SRX1500 devices, the vSRX 2.0 command set system internet-options tcp-mss does not work in Junos OS Release 15.1X49. [PR1213775](#)
- On SRX300, SRX320, SRX340, SRX345, SRX550M, and SRX1500 devices, VPLS and Ethernet switching must not be configured together on the same device. We recommend that you avoid using an Ethernet-switching configuration on these platforms when VPLS is enabled. [PR1214803](#)
- On SRX345 and SRX550M devices, frames carried with a priority bit on the Tag Protocol Identifier (TPID) are lost when the packet passes through with Layer 2 forwarding. [PR1229021](#)
- On SRX300, SRX320, SRX340, SRX345, and SRX550M devices, after a certain period of enabling 802.1X, multiple first-message EAP frames with the same timestamp are transmitted. This does not affect any 802.1X functionality. [PR1245325](#)
- A modem profile is not active until the profile is defined. You need to define a profile before selecting it. [PR1254427](#)
- On SRX300, SRX320, SRX340, SRX345, and SRX550M devices, use the logical tunnel interface lt-0/0/0 as the destination interface option for an RPM probe server on the device. [PR1257502](#)
- On SRX Series devices, you cannot create profiles for CL-1/0/0 using J-Web and the CLI. The error message interface not found is displayed. We recommend that you use only one LTE Mini-PIM in the supported devices. [PR1262543](#)

- On SRX Series devices, when you log in to J-Web, and navigate to Monitor>Services>DHCP>DHCP Relay, and click the Help page icon, the Online Help page displays a 404 error message. [PR1267751](#)
- A FIPS core file is generated when you perform a firmware upgrade or downgrade. In Junos OS FIPS mode, the file integrity checking application veriexec treats the new updated firmware file as a corrupted Junos OS file. [PR1268240](#)
- On SRX Series devices, you cannot view the custom log files created for event logging in J-Web. [PR1280857](#)
- On SRX300, SRX320, SRX340, SRX345, and SRX550M devices, using an SFP-T module can cause an early linkup if you connect a device during the boot process. [PR1314167](#)
- On SRX Series devices running Junos OS Release 15.1X49-D90 and earlier releases, J-Web often does not display the IPD log that is locally saved. [PR1336341](#)
- Packet reordering occurs on the traffic received on the PPP interface. [PR1340417](#)
- FTP using Microsoft NLB does not work correctly in transparent mode. [PR1341446](#)
- When using a crossover cable, the interfaces are down when there is a change from 10 million to 100 million. [PR1387978](#)
- When using advanced, application-based, multipath routing, the sender sequences packets in order and delivers the packets to the receiver. If the receiver receives the packets out of order, then in Junos OS Release 15.1X49-D200 and later, the packets are dropped. Because IPsec might reorder packets coming from the sender for fragmentation, packets might get dropped at the receiver. [PR1403584](#)
- SRX320 PoE devices do not support LLDP from Junos OS Release 15.1X49-D170 onward. [PR1438467](#)

J-Web

- On SRX550M and SRX1500 devices, there is no option to configure Layer 2 firewall filters from J-Web, irrespective of the device mode. [PR1138333](#)
- On SRX Series devices, adding 2000 global addresses at a time to the addresses exempted in the SSL proxy profile can cause the webpage to become unresponsive. [PR1278087](#)
- On SRX Series devices using Junos OS Release 15.1X49, a J-Web operation does not reset the idle time in the output of the show system users command. [PR1445779](#)

Platform and Infrastructure

- When an NTP server is newly added to the Junos configuration using a domain name, a DNS server IP address needs to have been already configured and committed in a previous commit. Otherwise the commit will fail due to the NTP server domain name failing to be resolved to an IP address. As a workaround, use an IP address for the NTP server configuration. [PR1411396](#)

Unified Threat Management (UTM)

- On SRX Series devices with Sophos Antivirus (SAV) configured, some files that have size larger than the max-content-size might not go into fallback state. This might occur when a protocol does not predeclare the content size. [PR1005086](#)
- On SRX550M devices using Junos OS Release 12.1X49-D30 for the enhanced Web filtering feature, performance drop is observed. [PR1138189](#)

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Open Issues

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This section lists the known issues in hardware and software in Junos OS Release 15.1X49-D230.

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

Flow-Based and Packet-Based Processing

- MPLS EXP classifier not working on VLAN tagged interfaces. [PR1028006](#)
- On SRX300, SRX320, SRX340, SRX345, and SRX550M devices, for logical interface scaling without per-unit-scheduler configured, the total number of logical interfaces is limited to 2048. With per-unit-scheduler configured on the physical interface, the total number of logical interfaces is limited to the CoS scheduler subunit upper limit of 2048. So, the maximum number of logical interfaces for per-unit-scheduler should be 2048 minus the number of physical interfaces that are up. With at least one logical interface up, the maximum number is 128. [PR1138997](#)
- On SRX550M devices, upgrade fails when you upgrade from Junos OS Release 15.1X49-D30 to a later release without using the no-validate option. [PR1237971](#)
- On SRX Series devices, sometimes the time range slider does not work for all events and individual events in Google Chrome and Firefox browsers. [PR1283536](#)
- SNMP fails while polling data across custom routing instances on the SRX300 line of devices. [PR1352311](#)
- VPN tunnels flap after a group is added or deleted in edit private mode in a clustered setup. [PR1390831](#)
- T1 interfaces go down if Password Authentication Protocol (PAP) RADIUS authentication is configured. [PR1402612](#)
- The kernel memory usage represented as "temp" via 'show system virtual-memory' may constantly increase when Integrated Routing and Bridging (IRB) is configured with multiple underlay physical interfaces, and one interface flaps. This memory leak can affect running daemons (processes), leading to an extended Denial of Service (DoS) condition. Refer to <https://kb.juniper.net/JSA11004> for more information. [PR1407000](#)
- An MTU change after a CFM session is brought up can impact Layer 2 Ethernet ping (loopback messages). If the new MTU is lower than the original value, then Layer 2 Ethernet ping fails. [PR1427589](#)

Interfaces and Chassis

- On SRX series device, pp0 IPv6 direct route and default route generated by RA does not work even if the route is populated in the routing table. [PR1495839](#)

J-Web

- On SRX Series devices, the dashboard widget applications ThreatMap and Firewall Top Denies initially show no data available even when the device has a large amount of data. Refresh the individual widgets to show the data. [PR1282666](#)
- On SRX Series devices, the CLI terminal does not work for Google Chrome versions later than version 42. You can use the Internet Explorer version 10 or 11 or Firefox version 46 browser to use the CLI terminal. [PR1283216](#)

Network Management and Monitoring

- SNMP queries for LAG MIB tables while LAG child interface is flapping may cause mib2d to grow in size and eventually crash with a core file. Mib2d restarts and recovers by itself. [PR1062177](#)

Platform and Infrastructure

- On SRX Series devices running FreeBSD 6.0-based Junos OS, when a USB flash drive with a mounted file system is physically detached by a user, the system might panic. The issue is resolved with FreeBSD 10 and later (upgraded FreeBSD). [PR695780](#)
- When using third-party certificate chain for the Web authentication redirect page, for the HTTP REST API, or for J-Web access, which contains at least one intermediate CA certificate, the SRX Series device does not send the intermediate certificate to the client. [PR1408921](#)

Routing Policy and Firewall Filters

- In a rare case, a specific domain is not resolved by the SRX Series device when using the DNS address book. This is because the DNS library resolver fails to identify the pointer with a big offset in the compressed DNS name. [PR1471408](#)

VPNs

- On vSRX instances, if multiple traffic selectors are configured for a peer with IKEv2 reauthentication, only one traffic selector is rekeyed at the time of IKEv2 reauthentication. The VPN tunnels of the remaining traffic selectors are cleared without immediate rekeying. New negotiation of these traffic selectors is triggered through other mechanisms such as traffic or by peer. [PR1287168](#)
- IKE SA does not get cleared and shows very long lifetime. This happens if the peer suddenly changes IP address and starts a new negotiation. [PR1439338](#)

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This section lists the issues fixed in hardware and software in Junos OS Release 15.1X49-D230. For information about resolved issues in Junos OS Release 15.1X49-D10 through Junos OS Release 15.1X49-D220, refer to the [Release Notes](#) listed in the Release 15.1X49 section.

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

Application Layer Gateways (ALGs)

- On SRX Series devices with chassis cluster, when the H.323 ALG is enabled and having the H.323 traffic passing through the device, an RG1 failover might generate core files and FPC0 restart on both the nodes. [PR1516612](#)

Chassis Clustering

- On SRX4100 and SRX4200 devices with chassis cluster in transparent mode, when a failover occurs for RG1, the interface on the new secondary node is getting flapped as expected to let the switch update its MAC address table. [PR1490291](#)
- IP monitoring on SRX4100 and SRX4200 device might fail in the rare event that a chassis internal connection between Routing Engine and Packet Forwarding Engine is temporarily down after RGO failover. [PR1502462](#)

Flow-Based and Packet-Based Processing

- On SRX Series devices, when the GRE or IP-IP tunnel is used, if some interface change events happen (such as, interface flapping), traffic drop might be seen. [PR1500091](#)
- On SRX Series devices, a node of chassis cluster might stop passing traffic. The traffic forwarding can be restored by a manual failover to node 1. [PR1528898](#)

Interfaces and Chassis

- On SRX320, SRX340, SRX345, SRX380, and SRX550M devices with an LTE Mini-Physical Interface Module (Mini-PIM), the LTE connection might drop and fail to auto recover because of firmware issue. [PR1520879](#)

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Documentation Updates

There are no errata or changes in Junos OS Release 15.1X49-D230 for the SRX Series documentation.

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Migration, Upgrade, and Downgrade Instructions

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

Upgrade and Downgrade Support Policy for Junos OS Releases and Extended End-Of-Life 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.

You can upgrade or downgrade to the EEOL release that occurs directly before or after the currently installed EEOL release, or to two EEOL releases before or after. For example, Junos OS Releases 12.3X48, 15.1X49, 17.3, and 17.4 are EEOL releases. You can upgrade from Junos OS Release 15.1X49 to Release 17.3 or from Junos OS Release 15.1X49 to Release 17.4. However, you cannot upgrade directly from a non-EEOL release that is more than three releases ahead or behind.

Upgrade from Junos OS Release 17.4 to successive Junos OS Release, is supported. However, you cannot upgrade directly from a non-EEOL release that is more than three releases ahead or behind.

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

For information about software installation and upgrade, see the [Installation and Upgrade Guide for Security Devices](#).

For information about ISSU, see the [Chassis Cluster User Guide for Security Devices](#).

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

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 <https://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

- **Feature Explorer**—Juniper Networks Feature Explorer helps you in exploring software feature information to find the right software release and product for your network. <https://apps.juniper.net/feature-explorer/>
- **PR Search Tool**—Keep track of the latest and additional information about Junos OS open defects and issues resolved. prsearch.juniper.net.
- **Hardware Compatibility Tool**—Determine optical interfaces and transceivers supported across all platforms. apps.juniper.net/hct/home

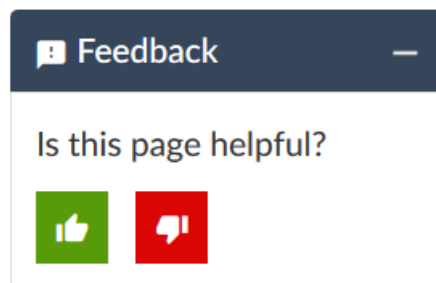
NOTE: To obtain information about the components that are supported on the devices, and the special compatibility guidelines with the release, see the Hardware Guide for the product.

- **Juniper Networks Compliance Advisor**—Review regulatory compliance information about [Common Criteria](#), [FIPS](#), [Homologation](#), [RoHS2](#), and [USGv6](#) for Juniper Networks products. apps.juniper.net/compliance/.

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 system**—Click TechLibrary Feedback, on the lower right of any page on the [Juniper Networks TechLibrary](#) site, and do one of the following:



- Click the thumbs-up icon if the information on the page was helpful to you.
- Click the thumbs-down icon if the information on the page was not helpful to you or if you have suggestions for improvement, and use the pop-up form to provide 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 post sales technical support, you can access our tools and resources online or open a case with JTAC.

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales 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 <https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <https://support.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: <https://support.juniper.net/support/>
- Search for known bugs: <https://kb.juniper.net/>
- Find product documentation: <https://www.juniper.net/documentation/>
- Find solutions and answer questions using our Knowledge Base: <https://kb.juniper.net/>
- Download the latest versions of software and review release notes: <https://support.juniper.net/support/downloads/>
- Search technical bulletins for relevant hardware and software notifications: <https://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <https://forums.juniper.net>
- Open a case online in the CSC Case Management tool: <https://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://entitlementsearch.juniper.net/entitlementsearch/>

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 <https://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 <https://support.juniper.net/support/requesting-support/>.

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/documentation/feedback/>.

Revision History

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