

Release Notes

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Junos OS Evolved Release 22.3R2

Introduction

Use these release notes to find new and updated features, software limitations, and open issues for Junos OS Evolved Release 22.3R2.

For more information on this release of Junos OS Evolved, see [Introducing Junos OS Evolved](#).

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Junos OS Evolved Release Notes for ACX7024, ACX7100-32C, ACX7100-48L, and ACX7509 Devices

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These release notes accompany Junos OS Evolved Release 22.3R2 for ACX7024, ACX7100-32C, ACX7100-48L, and ACX7509 devices. They describe new and changed features, limitations, and known and resolved problems in the hardware and software.

What's New

IN THIS SECTION

- [Junos Telemetry Interface | 1](#)

Learn about new features introduced in this release for ACX Series routers.

Junos Telemetry Interface

- **Event-driven streaming of sensor data for MPLS LSP record route objects (ACX7100-32C, ACX7509, PTX10001-36MR, PTX10003, PTX10004, PTX10008, and PTX10016)**—Junos OS Evolved Release 22.3R2 introduces ON_CHANGE notification for streaming MPLS label-switched path (LSP) record route object statistics. ON_CHANGE mode sends updates for sensor data only when data values

change. Support includes leaf nodes under the resource path `/network-instances/network-instance/mpls/signaling-protocols/rsvp-te/sessions/session/record-route-objects/record-route-object/state/`.

[See [Telemetry Sensor Explorer](#).]

What's Changed

IN THIS SECTION

- [Junos XML API and Scripting | 2](#)

Learn about what changed in this release for ACX Series routers.

Junos XML API and Scripting

- The `file copy` command supports only text-formatted output in the CLI (ACX Series, PTX Series, and QFX Series)—The `file copy` command does not emit output when the operation is successful and supports only text-formatted output when an error occurs. The `file copy` command does not support using the `| display xml` filter or the `| display json` filter to display command output in XML or JSON format in any release. We've removed these options from the CLI.

Known Limitations

IN THIS SECTION

- [General Routing | 3](#)

Learn about limitations in this release for ACX Series routers.

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

General Routing

- The syncE to PTP and syncE to 1pps noise transfer tests fail for frequencies on ACX7100-32C 1. 0.00781 HZ 2. 0.01563 HZ 3. 0.03125 HZ 4. 0.06156 HZ 5. 0.12313 HZ. [PR1611911](#)
- SyncE and Hybrid PTP is not supported on the 1G interface on ACX7024. [PR1644975](#)
- When the original flow egresses out through an aggregated Ethernet interface, the corresponding sampled sflow frame does not reflect the correct egress port number. This happens only when the flow egresses out through an aggregated Ethernet interface. For non-aggregated Ethernet egress interface, this works fine and the sflow frame reflects the correct egress port. [PR1647870](#)
- The syncE to PTP and syncE to 1pps noise transfer tests fail for frequencies 1. 0.00781 HZ 2. 0.01563 HZ 3. 0.03125 HZ 4. 0.06156 HZ 5. 0.12313 HZ. [PR1649055](#)
- The timingd restart is not supported on ACX7024. [PR1651554](#)
- ACX7024: With high scale of Layer 3 VPN VRF instances system CPU usage might continue to be high. [PR1655310](#)
- When you issue `show system processes extensive` or `show chassis routing-engine`, idle cpu usage is around 75% in ACX7024. The `evo-pfmand` process usage is in the range of 9-19%. This is because of the polling threads in `evo-pfmand`. This behaviour is common across platforms and not ACX7024 specific. The CPU usage numbers are aggravated due to low cpu in ACX7024. There won't be any functional impact because of this. [PR1656732](#)
- Due to low CPU on ACX7024, the aggregated Ethernet interface takes longer time to come up after deactivate or activate in multi-D scale set up. [PR1677809](#)
- The `request system snapshot` command is not supported on ACX7024. [PR1686610](#)
- When you issue `show system processes extensive` or `show chassis routing-engine`, it is observed that idle cpu utilization might spike upto 18-20% in ACX7024. This is because of the internal polling threads in `evo-pfmand`. This behaviour is common across platforms and not ACX7024 specific. The CPU usage numbers are aggravated due to low CPU in ACX7024. This does not have any functional impact when the system runs with high logical interface scale. [PR1689073](#)

Open Issues

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- [General Routing | 4](#)
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- [User Interface and Configuration | 5](#)

Learn about open issues in this release for ACX Series routers.

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

General Routing

- ACX7509: some of the interfaces from 16x100G and 20XSFP56 do not go down after evo-pfemamd restart. [PR1592388](#)
- syncE to PTP and syncE to 1pps transient response marginally fails. This happens when the servo gets the initial 100ns jump in one measurement window and the next 100ns in the next measurement window adjusting less initially. [PR1611848](#)
- On ACX7024 ::Pseudo wire setup and tear down rate might be low. This is due to system CPU limitation. [PR1659593](#)
- When TCP Main and TCP remain attached together on physical interface, it is observed that improper scheduler MAP gets configured on HQoS physical interface while sched params modification and bind are performed on same commit. This is a sequence issue from CoSD (Routing Engine) which not guaranteed at Packet Forwarding Engine side. And this applicable for all platforms. [PR1664785](#)
- If a FEB goes to fault state due to a power-fault (real or artificially triggered for testing), then the subsequent FEB offline can take a few minutes (instead of completing within a minute for a normal offline). There is no other collateral due to this. A FEB online subsequent to the delayed offline will work normally and the FEB will become fully functional again. [PR1671719](#)
- HQoS - VoQ Stats issue during scaled configuration with congestion. When a system is configured with maximum allowed TCP on an IFLs across IFD, and all VoQ traffic is congested, Its expected that,

VoQ queued counters & dropped counters won't show valid information. Reason : At some point of time, limited/No guaranteed buffer available to process further packets, Hence, packets will be dropped well before reaching VoQ. This is working as per hardware design.[PR1674669](#)

- For the BGP configuration always establish BGP neighbour over loopback address of remote device.[PR1693801](#)
- On Junos OS Evolved platforms, any UI (user interface) set (configuration, script, license) changes done post software addition were being lost after the subsequent reboot. [PR1699699](#)

EVPN

- On all platforms, MAC-IP route deletion and addition are triggered when re-ARP (Address Resolution Protocol) on MH (Multihoming) device fails in the EVPN-MPLS multihoming scenario resulting in traffic drop.[PR1691132](#)

User Interface and Configuration

- The system might ask for your password when you are trying to save configuration file.[PR1665008](#)

Resolved Issues

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Learn about the issues fixed in this release for ACX Series routers.

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

General Routing

- [interface] [ACX7509] Interfaces mapped to same BCM port group flap when any one of the interfaces speed is modified. [PR1608223](#)
- The classification-override functionality does not work for IPv6 traffic. [PR1650622](#)
- ACX7100-48L : jdhcpd core file seen on boot. [PR1658327](#)
- hwdre and evo-pfemamd applications might crash if idmd, fabtoken and hwdre are restarted immediately after a FEB offline. [PR1669130](#)
- show system alarm CLI command shows **Optics does not support configured speed** minor alarm for few 1G optics. [PR1671200](#)
- Some VPLS and L2VPN streams are dropped on the aggregated Ethernet interface after a change in MTU configuration on the aggregated Ethernet interface. [PR1671451](#)
- During the device reboot service resulting in traffic loss for hardware synchronization issues. [PR1677679](#)
- ACX7100-32C: IPv4 or IPv6 EP-Type2 intra-vni traffic fails on leaf device after loading Junos OS Evolved BO profile configurations. [PR1680253](#)
- Commit failure on Junos OS Evolved platforms post device upgrade. [PR1680266](#)
- ACX7100-32C port down when configuring speed as 10g at Junos OS Evolved 22.2R1. [PR1681560](#)
- PTP or TWAMP does not work on PM50 ports (et-0/0/0 to et-0/0/3 on ACX7024 and all ports on ACX7100-48L) if FEC74 is enabled on that port. [PR1684770](#)
- RE or FEB primary role does not switch over automatically when primary FEB is ungracefully jacked out. [PR1684982](#)
- Traffic egressing out of the Layer 3 interface is affected when configuration changes are made. [PR1687260](#)
- Traffic failure when you ping from ACX leaf to it's directly attached host. [PR1687842](#)
- Unable to appropriately failover the incoming traffic with multiple links. [PR1688773](#)
- Inconsistent clear ARP behavior leads to traffic loss to host(s). [PR1691524](#)
- LACP and LLDP protocol traffic are not be transparently forwarded across CE devices. [PR1692402](#)
- [interface] [evo_ifd]:: 400G-FR4/400G-DR4: Several additional interface flaps happening after setting mtu 9100. [PR1693701](#)

Infrastructure

- `show route forwarding-table destination` command takes long time in a scaled system for non-/32 prefixes. [PR1685545](#)

Interfaces and Chassis

- LLDP packet drop is seen when the physical interface is configured with flexible-vlan-tagging. [PR1689391](#)

Services Applications

- ACX7100: Spikes in jitter that are larger than 5 ms for UDP plugin in PAA for high bandwidth or small packet size. [PR1680309](#)

Junos OS Evolved Release Notes for PTX10001-36MR, PTX10003, PTX10004, PTX10008, and PTX10016 Devices

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These release notes accompany Junos OS Evolved Release 22.3R2 for PTX10001-36MR, PTX10003, PTX10004, PTX10008, and PTX10016 Packet Transport Routers. They describe new and changed features, limitations, and known and resolved problems in the hardware and software.

What's New

IN THIS SECTION

- [Junos Telemetry Interface | 8](#)

Learn about new features introduced in this release for PTX Series routers.

Junos Telemetry Interface

- **Event-driven streaming of sensor data for MPLS LSP record route objects (ACX7100-32C, ACX7509, PTX10001-36MR, PTX10003, PTX10004, PTX10008, and PTX10016)**—Junos OS Evolved Release 22.3R2 introduces ON_CHANGE notification for streaming MPLS label-switched path (LSP) record route object statistics. ON_CHANGE mode sends updates for sensor data only when data values change. Support includes leaf nodes under the resource path `/network-instances/network-instance/mpls/signaling-protocols/rsvp-te/sessions/session/record-route-objects/record-route-object/state/`.

[See [Telemetry Sensor Explorer](#).]

What's Changed

IN THIS SECTION

- [Junos XML API and Scripting | 9](#)

Learn about what changed in this release for PTX Series routers.

Junos XML API and Scripting

- The `file copy` command supports only text-formatted output in the CLI (ACX Series, PTX Series, and QFX Series)—The `file copy` command does not emit output when the operation is successful and supports only text-formatted output when an error occurs. The `file copy` command does not support using the `| display xml` filter or the `| display json` filter to display command output in XML or JSON format in any release. We've removed these options from the CLI.

Known Limitations

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- [Routing Policy and Firewall Filters | 9](#)
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- [User Interface and Configuration | 10](#)

Learn about limitations in this release for PTX Series routers.

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

Routing Policy and Firewall Filters

- If you have multiple except configuration, one of the rules will definitely hit. A firewall rule specifies criteria for a packet and a target. If the packet does not match, the next rule in the chain is the examined. If the packet does match, then the next rule is specified by the value of the target, which can be the name of a user-defined chain or one of the special values `ACCEPT`, `DROP`, `QUEUE`, or `RETURN`.
[PR1701714](#)

Routing Protocols

- When you configure routing-options transport-class fallback none, do not configure more than 10 transport-classes or advertise more than 10 distinct colors in SRTE or FlexAlgo. [PR1648490](#)

User Interface and Configuration

- All Junos OS Evolved platforms configured with persist-group-inheritance enabled by default from Junos OS Evolved 19.4R3 and later might cause the mustd process to crash in a highly scaled configuration. [PR1638847](#)

Open Issues

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Learn about open issues in this release for PTX Series routers.

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

General Routing

- Changing decapsulation tunnel destination address configuration after tunnel is up might not work or handled and end up using previously configured tunnel destination address for decapsulaton. Once

system enters this state, any further configuration changes to tunnel configuration will not be handled. [PR1575724](#)

- Sometimes the BGP and RSVP sessions remain down after quick arpd process disable and enable. Whenever you encounter such scenario, system can be recovered from erroneous state by executing the restart routing gracefully command. [PR1665362](#)
- Routing daemon crashes but does not have impact on rest of the NSR support. [PR1561059](#)
- Several warning messages gets generated while the RPD process restarts during GRES. [PR1612487](#)
- Some of the frequencies might fail performance for PTP-PTP and PTP-1PPS. [PR1624478](#)
- Below is the expected performance for this 21.4. Profile Freq (Hz) NoiseTransfer_0_00391_Results PASS PASS NoiseTransfer_0_00781_Results FAIL FAIL NoiseTransfer_0_01563_Results FAIL FAIL NoiseTransfer_0_03125_Results FAIL FAIL NoiseTransfer_0_06156_Results FAIL FAIL NoiseTransfer_0_12313_Results FAIL FAIL NoiseTransfer_0_24625_Results PASS PASS NoiseTransfer_0_4925_Results PASS PASS NoiseTransfer_0_985_Results PASS PASS NoiseTransfer_1_985_Results PASS PASS NoiseTransfer_3_985_Results PASS PASS NoiseTransfer_7_985_Results PASS PASS [PR1624502](#)
- When you configure the set protocols isis source-packet-routing sensor-based-stats per-interface-per-member-link egress and set protocols isis source-packet-routing sensor-based-stats per-sid egress per-interface egress and per-sid egress SR sensor status using the cli commands, the (pushed) MPLS label length does not get included in the output/Tx octets field that gets exported from the sensor. [PR1646799](#)
- On all Junos OS Evolved platforms, the license might get out of synchronised between primary and backup Routing Engine after the addition or deletion of licenses. [PR1658869](#)
- GNOI API SetPackage through remote download is not supported. [PR1665185](#)
- For PTX10001-36MR, show system applications error command is not available. [PR1682045](#)
- FPC going to fault state with Major alarm - Power Failure on upgrading. [PR1682659](#)
- On PTX10004, PTX10008, and PTX10016 devices, the status panel LED (power supplies, fans, sibs, line cards, control boards) might be Unlit OFF after the system power-cycle, system reboot, and Routing Engine switchover. [PR1697503](#)
- When using the proprietary subscribe RPC for telemetry, the **isis/levels** keyword is missing from the jkey output for leaf lists. [PR1698192](#)
- On Junos OS Evolved Platforms, any UI (user interface) set (configuration, script, license) changes made post software addition gets lost after the subsequent reboot. [PR1699699](#)

Infrastructure

- A Use After Free vulnerability in the kernel of Juniper Networks Junos OS Evolved allows an unauthenticated, network-based attacker to cause a Denial of Service (DoS). [PR1636063](#)

Juniper Extension Toolkit (JET)

- Client streaming RPCs have a way to close the stream from their end by calling `closeSend()`. The expected behavior is to convey to the server (PRPD) that the client is done sending the requests and the server should close the stream when it is done sending all the responses. This does not result in terminating the transport (grpc channel) but results in closing of the grpc transport. [PR1667855](#)

Network Management and Monitoring

- When you configure `maximum-password-length` and try to configure password whose length exceeds configured `maximum-password-length`, an error message is generated along with `ok` tag. The configuration does not get committed. [PR1585855](#)
- When you poll `jnxCos mib` at a very high rate and if response from FPCs (evo-aftmand) get delayed (takes around 1 minute) then the `snmpd-subagent` process might generate core file. [PR1683517](#)

Routing Protocols

- When you enable the IS-IS authentication key-chain having multiple keys between routers, the IS-IS adjacency goes up since both routers have the same key active. When you manually change the system time in such a way that routers have different keys active in the key chain, the IS-IS adjacency must go down. [PR1572441](#)
- When `I2cpd` (in the context of xSTP) clears the entries that has programmed on the `ppmd` process. When you delete xSTP configurations from the device, there can be a possibility of the `ppmd` process generating core file. If the `ppmd` process is in distributed mode, there will be no service impact else there can be service impact as packet transmission for various protocols through if the `ppmd` process is in centralized mode. [PR1660299](#)

User Interface and Configuration

- The system might ask for password when you save the configuration file. [PR1665008](#)
- Committing the wild-carded groups related configuration causes the configd-streamer process to generate core files, which is used in the reported fusion test case. [PR1674890](#)

Resolved Issues

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Learn about the issues fixed in this release for PTX Series routers.

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

General Routing

- Auto RP base verification fails with multiple RPs with the same group range. [PR1634982](#)
- IPv6 master-only IP address does not move to the new primary Routing Engine after a switchover. [PR1648371](#)
- The classification-override functionality does not work for the IPv6 traffic. [PR1650622](#)
- Junos OS Evolved on all PTX devices does not support GNOI rpc KillProcess. [PR1655652](#)

- Routes in RIB and FIB table might go out of synchronization on all Junos Evolved platforms and cause a traffic impact. [PR1658426](#)
- Traffic loss due to long MPLS reroute local convergence time on the aggregated Ethernet interface flaps. [PR1660701](#)
- The aftmand process crashes upon updating the configurations on the FTI tunnels. [PR1663417](#)
- The icmpd application might crash and generate a core post assert being raised. [PR1669088](#)
- The hwdre and evo-pfemad applications might crash if the idmd, fabtoken, and hwdre applications restarts immediately after a FEB offline. [PR1669130](#)
- The fabspoked-pfe process might crash while executing the cli commands for fabric statistics. [PR1669435](#)
- On the PTX10004, PTX10008, and PTX10016 devices, the evo-aftmand-bt.fpc process generates corefile. [PR1672512](#)
- The traffic loop would be observed when you configure ESI on IFD. [PR1672631](#)
- Reporting-interval in the show jvision sensor info command gets stuck at 65000 when configured reporting rate is changed from 65000 to 68000. [PR1673476](#)
- CoS drop occurs for priority traffic on some PTX devices. [PR1673738](#)
- LSP link-protection observes longer packet drops post P2MP LSP switchover. [PR1675282](#)
- GNOI rpc status displays incorrect permission value. [PR1676942](#)
- Unexpected storage media consumption caused by system application log. [PR1677295](#)
- The Routing Engine reboots and rpd crashes if the volume of zookeeper logs is high. [PR1678880](#)
- The gnoi-system process generates core file during ping requests. [PR1680004](#)
- Destination mask length reported in Sflow exported packet is lesser compared to the value seen in the show route forwarding-table destination command. [PR1680040](#)
- Commit fails on Junos OS Evolved platforms post device upgrade. [PR1680266](#)
- LED status on backup RCB never turns on after reboot. [PR1681609](#)
- Junos OS Evolved PTX devices reboots in a specific scenario. [PR1682898](#)
- Query does not return any value from the database while validating sync_response. [PR1683552](#)
- The Application ztp fail on node Re0 major alarm gets generated about one day later post system defaults. [PR1683964](#)

- The fibd process crashes when a large number of interfaces gets deleted and added back. [PR1685995](#)
- On PTX10000 devices, the PSM fault state not recoverable. [PR1669323](#)
- The queue-counters-queued-bytes-rate for network-class does not get within the range with cos mru 9200 configuration. [PR1691957](#)
- CBC-FPGA and RE-FPGA firmware upgrades fail. [PR1692186](#)
- On the PTX10004, PTX10008, and PTX100016 devices, the CM major errors alarm does not get generated for pre_init_pll_programming failure with faulty Packet Forwarding Engine. [PR1693511](#)
- Interfaces went down and manually restarts FPC4 triggered the fabspoked-pfe-fpc4 core. [PR1693697](#)
- CM alarm does not get triggering for the Packet Forwarding Engine going into the Fault state. [PR1693710](#)
- The line cards remains in the Present state post reboot. [PR1695952](#)
- On the PTX10008 and PTX100016 devices, the LC status LED MIB jnxLEDDescr.3.7.x.0.0 returns undefined 0 value due to read error. [PR1696500](#)
- On the PTX10008 devices, the BGP sessions flaps. [PR1697099](#)
- On the PTX10008 devices, FTC FPGA minimum supported firmware version mismatch alarm gets generated upon re-seating FTC. [PR1698209](#)
- On the PTX10004, PTX10008, PTX100016 devices, the SNMP jnxLEDState mib returns 4(red) value even when BITS LED is unlit/off. [PR1698919](#)

Infrastructure

- The show route forwarding-table destination command takes long time in a scaled system for non-/32 prefixes. [PR1685545](#)
- When a syslog is generated and transported to a log collector over an IPv6 connection, processes like eventd might crash. [PR1703823](#)

Interfaces and Chassis

- On PTX10003 devices, when you restart FPC3 or PFE0 on FPC3, the wedge gets detected on other FPCs. [PR1679346](#)
- LLDP packet drops when you configure the physical interface (IFD) with flexible-vlan-tagging. [PR1689391](#)
- The link-local address does not get generated for the loopback interface. [PR1695502](#)

Network Management and Monitoring

- Interface physical IP address gets assigned to the SNMP trap source address after chassis restart although you configure the source-address lo0 under trap-options. [PR1690850](#)

Routing Policy and Firewall Filters

- Error messages get generated when you commit the firewall filter configuration with family inet6 with next-header and no payload-protocol. [PR1674893](#)
- The aftmand process might crash. [PR1683361](#)
- Filter with payload-protocol cannot be attached to the lo0 egress interface. [PR1703169](#)

User Interface and Configuration

- FPC ungracefully restarts when the cda-bt process crashes. [PR1655441](#)
- The BFD session fails to come up when you configure the Routing Engine filter with apply-path. [PR1698347](#)

Junos OS Evolved Release Notes for QFX5130-32CD, QFX5220, and QFX5700 Devices

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These release notes accompany Junos OS Evolved Release 22.3R2 for QFX5130-32CD, QFX5220-32CD, QFX5220-128C, and QFX5700 switches. They describe new and changed features, limitations, and known and resolved problems in the hardware and software.

What's New

There are no new features or enhancements to existing features in this release for QFX Series switches.

What's Changed

IN THIS SECTION

- [Junos XML API and Scripting | 18](#)

Learn about what changed in this release for QFX Series routers.

Junos XML API and Scripting

- The `file copy` command supports only text-formatted output in the CLI (ACX Series, PTX Series, and QFX Series)—The `file copy` command does not emit output when the operation is successful and supports only text-formatted output when an error occurs. The `file copy` command does not support using the `| display xml` filter or the `| display json` filter to display command output in XML or JSON format in any release. We've removed these options from the CLI.

Known Limitations

There are no known limitations in hardware or software in this release for QFX Series switches.

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

Open Issues

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Learn about open issues in this release for QFX Series switches.

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

General Routing

- On QFX5700M, 400G DAC flap might be seen after OIR, FPC restart, device reboot enabling or disabling interface. [PR1618488](#)

- The links do not come up between two TD4 devices when auto-negotiation is enabled for DAC cables. Workaround: Configure the `set interfaces interface ether-options no-auto-negotiation` command on both side of the links.

[PR1680009](#)

Routing Protocols

- On Junos Evolved platforms like QFX5130 and QFX5700, traffic issues are observed if the number of multicast routes is more than the supported scale for the OISM (Optimized Inter Subnet Multicast) feature.[PR1671901](#)

User Interface and Configuration

- The system might ask for your password when you are trying to save configuration file.[PR1665008](#)

Resolved Issues

IN THIS SECTION

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Learn about the issues fixed in this release for QFX Series switches.

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

General Routing

- On QFX5130-32CD and QFX5700 platforms, IPv6 neighborships fail to establish if IPv6 loopback filters are configured. [PR1671730](#)
- Post ZTP QFX5220 needs a reboot for routes to be seen in mgmt_junos.inet.0 table. [PR1672097](#)
- QFX5700 or QFX5130 : EVPN VXLAN OSPF and BGP sessions over IRB do not work. [PR1688681](#)

User Interface and Configuration

- QFX5220: ISSU is not successful on a device loaded with Junos OS Evolved 22.3- ssh failure after ISSU. [PR1679476](#)
- Show commands might not work after ISSU upgrade. [PR1692409](#)

Upgrade Your Junos OS Evolved Software

Products impacted: ACX7024, ACX7100-32C, ACX7100-48L, ACX7509, PTX10001-36MR, PTX10003, PTX10004, PTX10008, PTX10016, QFX5130-32CD, QFX5220-32CD, QFX5220-128C, and QFX5700.

Follow these steps to upgrade your Junos OS Evolved software:

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. In the Find a Product box, enter the Junos OS platform for the software that you want to download.
3. Select Junos OS Evolved from the OS drop-down list.
4. Select the relevant release number from the Version drop-down list.
5. In the **Install Package** section, 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 a Juniper Networks representative.
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.

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.

For more information about software installation and upgrade, see [Software Installation and Upgrade Overview \(Junos OS Evolved\)](#). For more information about EOL releases and to review a list of EOL releases, see <https://support.juniper.net/support/eol/software/junosevo/>.

Finding More Information

- **Feature Explorer**—Juniper Networks Feature Explorer helps you to explore 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.
<https://prsearch.juniper.net/InfoCenter/index?page=prsearch>
- **Hardware Compatibility Tool**—Determine optical interfaces and transceivers supported across all platforms.

<https://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](#).

<https://pathfinder.juniper.net/compliance/>

Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active Juniper Care or Partner Support Services 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://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: <https://www.juniper.net/customers/support/>
- Search for known bugs: <https://prsearch.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://www.juniper.net/customers/csc/software/>

- Search technical bulletins for relevant hardware and software notifications: <https://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <https://www.juniper.net/company/communities/>
- Create a service request online: <https://myjuniper.juniper.net/>

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

Creating a Service Request with JTAC

You can create a service request with JTAC on the Web or by telephone.

- Visit <https://myjuniper.juniper.net/>
- 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, see <https://support.juniper.net/support/requesting-support/>.

Revision History

10 August 2023—Revision 5, Junos OS Release 22.3R2

23 March 2023—Revision 4, Junos OS Release 22.3R2

2 March 2023—Revision 3, Junos OS Release 22.3R2

23 February 2023—Revision 2, Junos OS Release 22.3R2

2 February 2023—Revision 1, Junos OS Release 22.3R2

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