Release Notes

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Junos OS Evolved Release 22.3R3

Introduction

Use these release notes to find new and updated features, software limitations, and open issues for Junos OS Evolved Release 22.3R3.

For more information on this release of Junos OS Evolved, see Introducing Junos OS Evolved.

Table of Contents

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

IN THIS SECTION

These release notes accompany Junos OS Evolved Release 22.3R3 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

There are no new features or enhancements to existing features in this release for ACX Series routers.

What's Changed

IN THIS SECTION

Learn about what changed in these releases for ACX Series routers.

What's Changed in Release 22.3r3

IN THIS SECTION

General Routing

- **CPU utilization greater than 100% (ACX Series)** — On ACX Series routers running Junos OS Evolved, the `show system processes` command might report CPU utilization spikes greater than 100%. This kind of CPU utilization is normal behavior, and no user action is required. The CPU utilization spikes represent the sum of individual processor threads and not of the entire system CPU capacity.

  [See show system processes.]

- **Label-switched interface (LSI) delay during reboot (ACX Series)** — Rebooting ACX Series routers running Junos OS Evolved with a class-of-service routing-instance configuration might encounter errors due to a delay with the label-switched interface (LSI). LSI state information has been added to the output of the `show route instance` command to assist in the analysis of such errors.

  [See show route instance.]

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.

- **Ability to commit `extension-service file` configuration when application file is unavailable**—When you set the `optional` option at the **edit system extension extension-service application file *file-name*** hierarchy level, the operating system can commit the configuration even if the file is not available at the **/var/db/scripts/jet** file path.

  [See file (JET).]

- **Ability to restart restart daemonized applications**—Use the `request extension-service restart-daemonize-app` *`application-name`* command to restart a daemonized application running on a Junos device. Restarting the application can assist you with debugging and troubleshooting.

  [See request extension-service restart-daemonize-app.]

- **The `xmlns:junos` attribute includes the complete software version string (ACX Series, PTX Series, and QFX Series)**—The `xmlns:junos` namespace string in XML RPC replies includes the complete software version release number, which is identical to the version emitted by the `show version` command. In earlier releases, the `xmlns:junos` string includes only partial software version information.

Network Management and Monitoring

- **`operator` login class is restricted from viewing NETCONF trace files that are `no-world-readable` (ACX Series, PTX Series, and QFX Series)**—When you configure NETCONF tracing options at the `[edit system services netconf traceoptions]` hierarchy level and you restrict file access to the file owner by setting or omitting the `no-world-readable` statement (the default), users assigned to the `operator` login class do not have permissions to view the trace file.

What's Changed in Release 22.3R3-S1

IN THIS SECTION

Junos XML API and Scripting

- **Ability to commit `extension-service file` configuration when application file is unavailable**—When you set the `optional` option at the **edit system extension extension-service application file *file-name*** hierarchy level, the operating system can commit the configuration even if the file is not available at the **/var/db/scripts/jet** file path.

  [See file (JET).]

Known Limitations

There are no known limitations in hardware or software 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.

Open Issues

IN THIS SECTION

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

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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

General Routing

- A restart of DHCP takes more time because of internal issues with the SIGTERM event. PR1610229
- In ACX7509, after multiple FPC online ot offline, FPCs go to fault statePR1616227
- ACX7509- Ungraceful removal (OIR) of FPC or an FPC fault might result in PCIE MAJOR alarm **PCI Uncorrected error on dev 0000:00:03.0** which does not get cleared.PR1620197
- If an 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 works normally and the FEB becomes fully functional again.PR1671719

- ACX7100-48L :: 400g-ZR-M link is not up between ACX7100-32C and ACX7100-48L due to optics over temperature shutdown. PR1698342
- Interface command gives truncated outputs, reponse stuck and statistics is not displayed when unrelated FPC is restarted. PR1698532
- On Junos OS Evolved Platforms, any UI (user interface) set (configuration, script, license) changes done post software addition are being lost after the subsequent reboot.PR1699699
- Junos OS Evolved: ACX: [Error] RT : Cleaning up 1 ACKs without processing. Root cause: The ACKs initially not handled as they had been implemented in the PI section. Issue arises due to ACKs not being transferred to the Upper Layers for all the routes specified. PR1713005

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

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

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General Routing

- Performance monitoring for 400ZR optics reporting data as suspect with reason **Int Too Short**. PR1670033
- Some VPLS and L2VPN streams are dropped on the aggregated Ethernet interface after a change in MTU configuration on the aggregated Ethernet interface.PR1671451
- The FPC can go to a fault state on certain Junos Evolved platforms after system reboot. PR1682659
- Junos OS Evolved::JDI_REG::ACX7100: DHCPv6 relay bindings are not as expected after deactivate and activate interfaces. PR1692278
- [interface] [evo_ifd] ACX7024 :: 400G-FR4/400G-DR4: Several additional interface flaps happen after setting MTU 9100. PR1693701
- L2circuit traffic with a specific source MAC address might be dropped after label processing at an LSR.PR1701308
- The port-mirroring or analyzer does not work on Junos OS Evolved based ACX platforms when hierarchical-scheduler is enabled on the analyzer output port. PR1703567
- The transit multicast traffic gets dropped on Junos Evolved ACX platforms PR1705680
- ACX7509: We see FEB 0 si5394m_1 PLL access failure alarms and application evo-pfemand fail on node Re0 after `request system application app hwdre node re0 restart`. PR1708588

User Interface and Configuration

- Test Configuration might fail even though the configuration file has valid configurations. PR1671112

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

IN THIS SECTION

These release notes accompany Junos OS Evolved Release 22.3R3 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

There are no new features or enhancements to existing features in this release for PTX Series routers.

What's Changed

IN THIS SECTION

Learn about what changed in these releases for PTX Series routers.

What's Changed in Release 22.3R3-S1

IN THIS SECTION

Junos XML API and Scripting

- **Ability to commit `extension-service file` configuration when application file is unavailable**—When you set the `optional` option at the **edit system extension extension-service application file *file-name*** hierarchy level, the operating system can commit the configuration even if the file is not available at the **/var/db/scripts/jet** file path.

  [See file (JET).]

What's Changed in Release 22.3R3

IN THIS SECTION

General Routing

- In the past inet6flow.0 was not allowed to be a primary rib in a rib-group. Starting with Release 22.3 this is now allowed.

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.

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  [See file (JET).]

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  [See request extension-service restart-daemonize-app.]

- **The `xmlns:junos` attribute includes the complete software version string (ACX Series, PTX Series, and QFX Series)**—The `xmlns:junos` namespace string in XML RPC replies includes the complete software version release number, which is identical to the version emitted by the `show version` command. In earlier releases, the `xmlns:junos` string includes only partial software version information.

Network Management and Monitoring

- **`operator` login class is restricted from viewing NETCONF trace files that are `no-world-readable` (ACX Series, PTX Series, and QFX Series)**—When you configure NETCONF tracing options at the `[edit system services netconf traceoptions]` hierarchy level and you restrict file access to the file owner by setting or omitting the `no-world-readable` statement (the default), users assigned to the `operator` login class do not have permissions to view the trace file.

Known Limitations

IN THIS SECTION

Learn about limitations in this release for PTX Series routers.

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Routing Policy and Firewall Filters

- If you have multiple except configuration then one of the rules will definitely hit. This is as per ip6tables man page explanation as follows. **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 it 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 `routing-options transport-class fallback none` is not configured - do not configure more than 10 transport-classes or advertise more than 10 distinct colors in SRTE or FlexAlgo. PR1648490

User Interface and Configuration

- On all Junos Evolved platforms configured with persist-group-inheritance, which is enabled by default from 19.4R3 onwards, might lead to mustd process crash in highly scaled configuration. PR1638847

Open Issues

IN THIS SECTION

- User Interface and Configuration | 13

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

- In 20.3 Junos OS Evolved, fabsopke-fchip core can be seen if fabsopke-fchip restart and SIB offline happened one after other with in the same minute. Any previous alarm will not get cleared. PR1525577
- Some of the frequencies shall be failing performance for PTP-PTP and PTP-1PPS. PR1624478
- On all devices running Junos OS Evolved, where this is a high BGP scale with flapping route and the BGP Monitoring Protocol (BMP) collector and station is very slow, the rpd process might crash due to memory pressure. PR1635143
- On PTX10003, PTX10003-160C, PTX10003-80C, PTX10008, and PTX10016 Junos OS Evolved platforms, MPLS (Multiprotocol Label Switching) FRR (Fast Reroute) convergence takes longer time when an AE (Aggregate Ethernet) interface is disabled.PR1660701
- The OpenSSL project has published security advisories for multiple vulnerabilities resolved in OpenSSL. Please Refer to https://kb.juniper.net/JSA70186 for more information.PR1661450
- Layer 2 related daemons - lacpd, ifmand, and arpd - when patched using JSU may cause the Junos OS Evolved router to not boot up. PR1676132
- When CFM configurations are present on the router, and the router is rebooted, below error logs might be seen. [Error] CTRL:CFM:: PpmCtrlProtoCfm::getSessionKey: Unknown Cfm transmit session type params0x0 ( ) There is no feature impact when this error log is seen. CFM sessions will be unaffected. The error log is not emitted consistently, and may be seen only sometimes.PR1695518
- Junos OS and Junos OS Evolved has a limitation of 255 characters for resource names. Increasing the limit will have implications on the CLI output and same changes will needed to be propagated to lower layers where the resources are served from. PR1695980
- 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

- On PTX platforms running Junos OS Evolved, modification to a firewall filter configuration can crash the evo-aftmand (Advanced Forwarding Toolkit Manager) process. This results in unexpected behaviour and occasionally the Packet Forwarding Engine(PFE) will restart.PR1705536
- With GRES on a PTX running Junos OS Evolved, the current Label Edge Router role's scaling is suggested to be at 32,000 LSPs. When the number of LSPs get closers to 60,000 entries, the LC1201 evo-aftmand-bt process might run out of memory which causes the process to exit and the FPC restarts.PR1707063
- On PTX10004, PTX10008, and PTX100016 Junos OS Evolved, hwdre core is generated when FTC(fan tray controller) is inserted. PR1724151
- Changing Decap only 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

Infrastructure

- When using a source IP address as the management interface(with RPF check set to strict on interface), the response for the ICMP ping from the peer on the management interface is dropped by the Linux kernel as it expects the path to the peer to be on the WAN side. PR1498255
- 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). Refer to https://kb.juniper.net/JSA70198 for more information. PR1636063

Network Management and Monitoring

- When maximum-password-length is configured and the user tries to configure password whose length exceeds configured maximum-password-length, there is an error and the **ok** tag is emitted. (Ideally **ok** tag should not be emitted in an error scenario.) The configuration does not get committed. PR1585855
- There is no service impact due to the failure of these test suites and these issues are not reported by any customer. These are silver creek hardening tests for Junos OS Evolved and issues raised by internal test team. PR1675251

- There is no service impact due to the failure of these test suites and these issues are not reported by any customer. These are silver creek hardening tests for Junos OS Evolved and issues raised by internal test team. PR1675452
- On Junos OS Evolved platforms, SNMP walk table (ipNetToMediaPhysAddress) is not updated when a neighbour entry is configured. PR1704878

Routing Policy and Firewall Filters

- Delete single prefix from prefix-list will cause all the prefixes to be deleted. PR1691218

Routing Protocols

- When l2cpd (in the context of xSTP) clears the entries that it has programmed on ppmd, that is when you delete xSTP configs from the box, there can be a possibility of ppmd core. If ppmd is in distributed mode then there will be no service impact, else there can be service impact as packet transmission for various protocols will happen through if ppmd is in centralized mode.PR1660299

User Interface and Configuration

- The system might ask for your password when you are thing to save configuration file.PR1665008
- Configd-streamer cores during commit of wild-carded groups related config. The core is only seen with the wild-carded configuration which is used in the reported fusion test case.PR1674890
- In Junos OS Evolved, during scaled configuration commit, Configd daemon in UI-infra is taking more time to process the commit. To optimise the processing time, most likely there will be design change required. There is no LKWR/pass instance. Also based on the configuration scale and the time taken for the commit to complete, it seems that this is a Day-1 issue.PR1701214

Resolved Issues

IN THIS SECTION

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

- The .include directives are deprecated, and support for them is removed in a future version. PR1647592
- The license might get out of sync between the primary and backup Routing Engines. PR1658869
- The traffic loop would be observed when ESI is configured on IFD. PR1672631
- LED status on backup RCB never turns on after reboot. PR1681609
- The FPC can go to a fault state on certain Junos OS Evolved PTX platforms after system reboot. PR1682659
- The fibd process will crash when a large number of interfaces are deleted and added back. PR1685995
- The fabspoked-pfe process crashes when a FATAL ERROR occurs in the Packet Forwarding Engine. PR1693697

- CMIS CX : Telemetry : various component level sensor path for FAN, FABRIC, FAN, POWER_SUPPLY, STORAGE, STORAGE, BOOT_LOADER, BIOS, OPERATING_SYSTEM, LINECARD, TRANSCEIVER not working. PR1694612
- The line cards will remain in PRESENT state post reboot. PR1695952
- The VLAN-id mapping is incorrect in sflow scenario on PTX Junos OS Evolved platforms. PR1696413
- License key is not installed after upgrade. PR1696879
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved : LED on "Status Panel" is Unlit OFF. PR1697503
- PTX10008 Junos OS Evolved: FTC FPGA minimum supported firmware version mismatch alarm gets generated upon re-seating FTC. PR1698209
- CMIS CX : CMIS CX : Telemetry : subscription to path /components/component[name='Routing Engine0:bootloader']/state/location/ and /components/component[name='Routing Engine0:bootloader']/state/parent/ not working. PR1701239
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved: SNMP mib jnxOperatingState not working for runningAtFullSpeed. PR1701983
- Junos OS Evolved - fibd object-info anomalies observed@net::juniper::addrwatch::AddrWatchNotify. PR1704379
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved: GARP is not sent from new master Routing Engine's management interface upon RE switchover. PR1705245
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved: When offlined FPC is removed from chassis, `show chassis craft-interface` CLI shows `Fail` for removed FPC. PR1706601
- PTX10008 Junos OS Evolved: When PSM (JNP10K-PWR-AC2) is switched off and "OK LED" is unlit off, but jnxLEDState mib shows green(2). PR1708892
- The rpd and rpd-agent crash are observed after the reboot of primary Routing Engine or Switchover. PR1711265
- Observed vmcore while executing MTS (scripr profile: ospf_db_protection_mts_001.robot_BRACKLA.... #bad_area_nosemaphore, #uio_dma_buf_ops_release, #task_work_run). PR1711964
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved: SNMP trap jnxFruOnline is raised when JNP10K-PWR-DC2 PSM(single power input) is powered off by button press. PR1713462
- On PTX10001-36MR the VXLAN tunnel termination functionality impacted with global configuration not enabled. PR1713640

- SSD failure resulting in File System errors does not perform primary role switch in timely manner and results in an operational outage. PR1715345
- The Zookeeper session fails on primary Routing Engine and reboots RE twice. PR1716059
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved PTX10008 "LINE CARDS" LED on Status Panel is Lit ON in Green right after FPC is inserted although FPC is Present state. PR1716276
- "Jexpr: NhList:- List Token: xxxx" and "Jexpr: NhList:- Calling update@pos: xx updated token" might be seen when IPv6 next-hop is created. PR1716510
- Interface on PTX1001-36MR router remains down with QSFP-100GBASE-SR4 optics. PR1716518
- Junos OS Evolved:REG:PTX10001-36MR :: observing syslog error in tunnel scripts. PR1718540
- System calls for shutdown after Routing Engine switchover. PR1720259
- Unnecessary **resiliencyd** messages appear for trap codes. PR1720264
- Junos OS Evolved PTX platforms fail to relearn MAC after interface MAC limit is reached. PR1721708
- Unstable interface statistic (ingress) going up and down. PR1723808
- Junos OS Evolved: 400GZR: Not able to tune 400G ZR optics to 1554.54nm. PR1725763
- Traffic drop under strict-priority queue before low priority queue. PR1732461
- Few protocol sessions remain down after quick arpd process disable and enable. PR1665362

Infrastructure

- The wrong source address will be used in egress packets. PR1696056
- When a syslog is generated and transported to a log collector over an IPv6 connection, processes like eventd might crash. PR1703823
- SYN-ACK and subsequent TCP session packets generated by Routing Engine will have incorrect DSCP value. PR1703955

Interfaces and Chassis

- The link-local address is not generated for loopback interface. PR1695502

- Few applications fail to start after image upgrade on PTX10003 platforms. PR1705725
- PTX10003-160C : Router rebooted without any logs. No core-dump. PR1706688
- VRRP primary does not respond to Neighbor Solicitation from opposite device to virtual-link-local-address. PR1714831
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved PTX10008 `show interfaces media|extensive|brief|detail` CLI show `Down` state when CFMD brings IFD down.PR1722201
- PTX10004, PTX10008, and PTX100016 Junos OS Evolved `Device flags` in `show interfaces` CLI is `Present Running Down` when CFMD brings IFD down. PR1724286

Network Management and Monitoring

- snmp-subagent cored at #0 0x00007f54fa7a525d. PR1683517

Routing Policy and Firewall Filters

- The SCU/DCU firewall filter match will not work as expected. PR1699138

User Interface and Configuration

- FPC ungracefully restarts when cda-bt process crashes. PR1655441

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

IN THIS SECTION

These release notes accompany Junos OS Evolved Release 22.3R3 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

Learn about what changed in these releases for QFX Series routers.

What's Changed in Release 22.3R3-S1

IN THIS SECTION

Junos XML API and Scripting

- **Ability to commit `extension-service file` configuration when application file is unavailable**—When you set the `optional` option at the **edit system extension extension-service application file *file-name*** hierarchy level, the operating system can commit the configuration even if the file is not available at the **/var/db/scripts/jet** file path.

  [See file (JET).]

What's Changed in Release 22.3R3

IN THIS SECTION

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.

- **Ability to commit `extension-service file` configuration when application file is unavailable**—When you set the `optional` option at the **edit system extension extension-service application file *file-name*** hierarchy level, the operating system can commit the configuration even if the file is not available at the **/var/db/scripts/jet** file path.

  [See file (JET).]

- **Ability to restart restart daemonized applications**—Use the `request extension-service restart-daemonize-app *application-name*` command to restart a daemonized application running on a Junos device. Restarting the application can assist you with debugging and troubleshooting.

  [See request extension-service restart-daemonize-app.]

- **The `xmlns:junos` attribute includes the complete software version string (ACX Series, PTX Series, and QFX Series)**—The `xmlns:junos` namespace string in XML RPC replies includes the complete software version release number, which is identical to the version emitted by the `show version` command. In earlier releases, the `xmlns:junos` string includes only partial software version information.

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- **`operator` login class is restricted from viewing NETCONF trace files that are `no-world-readable` (ACX Series, PTX Series, and QFX Series)**—When you configure NETCONF tracing options at the `[edit system services netconf traceoptions]` hierarchy level and you restrict file access to the file owner by setting or omitting the `no-world-readable` statement (the default), users assigned to the `operator` login class do not have permissions to view the trace file.

Known Limitations

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

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Open Issues

IN THIS SECTION

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

- QFX5700 - Ungraceful removal (OIR) of FPC or an FPC fault might result in PCIE major alarm **PCI Uncorrected error on dev 0000:00:03.0** which does not get cleared. PR1620197

- Layer 2 related daemons - lacpd, ifmand, and arpd - when patched using JSU might cause the Junos Evolved router to not boot up.PR1676132
- On Junos OS Evolved QFX series platforms, all BGP (Border Gateway Protocol) flaps (due to many physical interfaces flapping) and Junos OS Evolved application crash (evo-pfemand) when Junos telemetry interface (Interface Logical) sensor is periodically streamed and the logical interface is deleted.PR1709859

Routing Protocols

- On Junos Evolved platforms 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

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

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General Routing

- QFX Junos OS Evolved : Transit NTP packets are trapped to CPU. PR1661855

- JDI-RCT:IPCLOS:QFX5130-32CD:400G DAC link does not come up. The vendor shell shows speed as 12.4G instead of 400g. PR1680009
- QFX5220-128C: System reboot related log message SYSTEM_REBOOT_EVENT might not be displayed in `show log messages | match SYSTEM_REBOOT_EVENT`. PR1696668
- VRRPv3 node sends a neighbor advertisement with the wrong virtual MAC. PR1708712
- LAG does not load balance as expected when it is configured as a VXLAN gateway.PR1713599
- Unequal traffic distribution on the fabric links. PR1718113
- The ECMP routing table does not get updated when underlay Layer 3 interface link flaps in EVPN-VXLAN scenario. PR1720399
- The VRF route leaks do not happen for the routes learned on the aggregated Ethernet interface in the EVPN-VXLAN MAC-VRF routing-instance. PR1722109

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

IN THIS SECTION

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

16 November 2023—Revision 3, Junos OS Release 22.3R3

20 July 2023—Revision 2, Junos OS Release 22.3R3

16 June 2023—Revision 1, Junos OS Release 22.3R3