

Release Notes

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Junos OS Evolved Release 22.2R3

Introduction

Use these release notes to find new and updated features, software limitations, and open issues for Junos OS Evolved Release 22.2R3.

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 ACX7100-32C, ACX7100-48L, and ACX7509 Devices

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These release notes accompany Junos OS Evolved Release 22.2R3 for 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

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

What's Changed in Release 22.2R3-S1

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Junos XML API and Scripting

- **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](#).]

What's Changed in Release 22.2R3

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Interfaces and Chassis

- An optics configuration mismatch alarm may be triggered when there is a discrepancy between the configured speed of an interface and the supported speed of the optic. This alarm indicates that the optic installed in the specified FPC is incompatible with the speed configured on the interface.

Juniper Extension Toolkit (JET)

- **Python 3 is the default and only Python version for executing Juniper Extension Toolkit Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing Juniper Extension Toolkit (JET) scripts written in Python. Python 2.7 is no longer supported.

for executing JET scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

[See [Understanding Python Automation Scripts for Junos Devices](#).]

Junos XML API and Scripting

- **Python 3 is the default and only Python version for executing commit, event, op, and SNMP Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing commit, event, op, and SNMP scripts written in Python. Python 2.7 is no longer supported for executing these types of scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

[See [Understanding Python Automation Scripts for Junos Devices](#).]

Network Management and Monitoring

- **Python 3 is the default and only Python version for executing YANG action and translation Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing YANG action and translation scripts written in Python. Python 2.7 is no longer supported for executing YANG action and translation scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

[See [Understanding Python Automation Scripts for Junos Devices](#).]

- **Support for the `junos:cli-feature` YANG extension (ACX Series, PTX Series, and QFX Series)**—The `cli-feature` YANG extension identifies certain CLI properties associated with some command options and configuration statements. The Junos YANG modules that define the configuration or RPCs include the `cli-feature` extension statement, where appropriate, in schemas emitted with extensions. This extension is beneficial when a client consumes YANG data models, but for certain workflows, the client needs to generate CLI-based tools.

[See [Understanding the Junos DDL Extensions YANG Module](#).]

User Interface and Configuration

- **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.
- The `show system directory-usage` command assumes the current working directory is always `/usr/sbin`. If you want to run the command inside another directory, you must include the full directory path in

the command. This command references the directory you currently have open. The command output displays the absolute path of the directory so you can easily see you are in the correct directory.

[See [show system directory-usage](#).]

Known Limitations

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Learn about known 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

- SyncE and Hybrid PTP is not supported on the 1G interface on ACX7024. [PR1644975](#)
- The syncE to PTP and syncE to 1pps noise transfer tests will 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 timing restart is not supported on ACX7024. [PR1651554](#)
- ACX7024: With high scale of L3VPN VRF instances system CPU usage might continue to be high. [PR1655310](#)
- In scaled setup, limited CPU power on ACX7024 is causing out of order events in the system and leading to these error messages. There will be no service impact due to these error messages. [PR1671111](#)

Open Issues

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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

- In ACX7509 devices, after multiple FPC online or offline, FPCs are going to fault state. [PR1616227](#)
- It is non impacting message in journal logs, without any functional impact. [PR1647592](#)
- On ACX7024 ::Pseudo Wire setup and tear down rate might be low, due to system CPU limitation. [PR1659593](#)
- 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](#)

EVPN

- On all Junos OS Evolved platforms that support EVPN-MPLS (Ethernet Virtual Private Networks - Multiprotocol Label Switching) services, during switchover or I2-learning restart, some EVPN next hops are not correctly associated with routing-instance in RE (Routing Engine) impacting the traffic forwarding. [PR1633344](#)

- On performing Graceful Routing Engine switchover on ACX7509 platform with EVPN services, some logical interfaces are missing. The logical interfaces come up post reboot. [PR1646722](#)

Services Applications

- A Paragon Active Assurance (PAA) Test Agent running on the ACX7100 and ACX7509 might report significant jitter spikes, sometimes exceeding 40ms in latency measurements, even in an idle system. These spikes might originate from the device and do not necessarily represent actual network latency. The data plane forwarding performance is not affected by this issue. [PR1680309](#)

User Interface and Configuration

- The system might ask for your password when you try 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 flapping when any one of the interfaces speed is modified. [PR1608223](#)
- ACX7100-48L : jdhcpd core seen on boot. [PR1658327](#)
- The hwdre and evo-pfemamd applications might crash if idmd, fabtoken and hwdre are restarted immediately after a FEB offline. [PR1669130](#)
- Some VPLS and L2VPN streams are dropped on the aggregated Ethernet (AE) interface after a change in MTU configuration on the AE interface. [PR1671451](#)
- Failover ID is not initialized during the device reboot service resulting in traffic loss. [PR1677679](#)
- Commit failure on Junos OS Evolved platforms post device upgrade. [PR1680266](#)
- ACX7100-32c port down when configuring speed as 10g at version 22.2R1. [PR1681560](#)
- The RE/FEB primary role will not switchover automatically when primary FEB is ungracefully jacked out. [PR1684982](#)
- Traffic egressing out of the Layer 3 interface will be affected when configuration changes are made. [PR1687260](#)
- Traffic failure when pinging from ACX leaf to it is 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](#)
- Sometimes when the access interface is deactivated and reactivated in quick succession DHCPv6 packets get dropped in the Routing Engine. It does not recover automatically, the DHCP process has to be restarted to recover from this situation. [PR1692278](#)
- LACP and LLDP protocol traffic will not be transparently forwarded across the CE devices. [PR1692402](#)

Infrastructure

- The 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 (IFD) is configured with flexible-vlan-tagging.
[PR1689391](#)

User Interface and Configuration

- Test Configuration might fail even though the configuration file is having valid configurations.
[PR1671112](#)

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 22.2R3 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

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

Juniper Extension Toolkit (JET)

- **Python 3 is the default and only Python version for executing Juniper Extension Toolkit Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing Juniper Extension Toolkit (JET) scripts written in Python. Python 2.7 is no longer supported for executing JET scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

[See [Understanding Python Automation Scripts for Junos Devices](#).]

Junos XML API and Scripting

- **Python 3 is the default and only Python version for executing commit, event, op, and SNMP Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing commit, event, op, and SNMP scripts written in Python. Python 2.7 is no longer supported for executing these types of scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

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[See [Understanding the Junos DDL Extensions YANG Module](#).]

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What's Changed in Release 22.2R3-S1

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Junos XML API and Scripting

- **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](#).]

What's Changed in Release 22.2R3

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General Routing

- An optics configuration mismatch alarm may be triggered when there is a discrepancy between the configured speed of an interface and the supported speed of the optic. This alarm indicates that the optic installed in the specified FPC is incompatible with the speed configured on the interface.

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- In Junos OS Evolved releases prior to 22.4R1, the `show system directory-usage` command assumes the current working directory is always `/usr/sbin`. If you want to run the command inside another directory, you must include the full directory path in the command. Starting in Junos OS Evolved Release 22.4R1, this command references the directory you currently have open. The command output displays the absolute path of the directory so you can easily see you are in the correct directory.

See [[system directory-usage.](#)]

Known Limitations

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Learn about known 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 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 SR-TE or flexible algorithm. [PR1648490](#)

User Interface and Configuration

- On all Junos platforms configured with persist-group-inheritance, which is enabled by default from Junos OS Evolved 19.4R3 onwards, might lead to mustd process crash in 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 decap only tunnel destination address configuration after tunnel is up might not work and end up using previously configured tunnel destination address for decapsulation. Once system enters this state any further configuration changes to tunnel configuration are not handled. [PR1575724](#)
- NPU and IFL sensors path not programmed on AFT and Junos OS Evolved based LC. [PR1610766](#)
- Several warning messages show up while the RPD process restarts during performing GRES on a system running Junos OS Evolved. [PR1612487](#)
- Some of the frequencies shall fail performance for PTP-PTP and PTP-1PPS. [PR1624478](#)
- [timing] [ptp] PTX10008 SynE-PTP & SyncE-1pps noise transfer test : Few input test frequencies are expected to fail. [PR1624502](#)
- When per-interface egress and per-sid egress SR sensor statistics are configured using the CLI commands below, the (pushed) MPLS label length does not get included in the output/Tx octets field that gets exported from the sensor.

```
set protocols isis source-packet-routing sensor-based-stats per-interface-per-member-link
egress
set protocols isis source-packet-routing sensor-based-stats per-sid egress
```

[PR1646799](#)

- 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](#)
- GNOI API SetPackage through remote download is not supported. [PR1665185](#)

- Sometimes BGP and RSVP sessions remain down after quick arpd process disable and enable. Whenever customer encounter such scenario, system can be recovered from erroneous state by executing `restart routing gracefully` in CLI. [PR1665362](#)
- Layer 2 related daemons - lacpd, ifmand, and arpd - when patched using JSU might cause the Junos OS Evolved router to not boot up. [PR1676132](#)
- Junos OS Evolved has a limitation of 255 characters for resource names. Increasing the limit has implications on the CLI output and same changes are needed to be propagated to lower layers where the resources are served from. [PR1695980](#)
- This issue is seen during CLI triggered onlining of the Packet Forwarding Engine, that is, when request `chassis fpc slot slot-id pfe pfe-id restart` is executed. Please use the workaround provided. [PR1699323](#)
- On Junos OS Evolved Platforms, any UI (user interface) set (configuration, script, license) changes done post software addition are lost after the subsequent reboot. [PR1699699](#)
- SNMP mib `jnxOperatingState runningAtFullSpeed` does not work on PTX10004 or PTX10008 or PTX10016 Junos OS Evolved platforms. [PR1701983](#)
- On PTX10004 or PTX10008 or PTX10016 Junos OS Evolved platforms, when offlined FPC is removed from chassis, `show chassis craft-interface` CLI shows **Fail** for removed FPC. [PR1706601](#)

Interfaces and Chassis

- Sometimes 400G-ZR link does not come up when changed to channelized mode. Workaround (when issue is seen): Perform `joji` over the interface using below CLI:

```
test picd optics fpc_slot <fpc slot> pic_slot <pic slot> port <port num> cmd oir_enable
test picd optics fpc_slot <fpc slot> pic_slot <pic slot> port <port num> cmd remove
test picd optics fpc_slot <fpc slot> pic_slot <pic slot> port <port num> cmd insert
test picd optics fpc_slot <fpc slot> pic_slot <pic slot> port <port num> cmd oir_disable
```

[PR1646915](#)

Network Management and Monitoring

- When `maximum-password-length` is configured and user tries to configure password whose length exceeds configured `maximum-password-length`, error is thrown, along with error `oktag` is also emitted. (Ideally `ok`

tag should not be emitted in an error scenario.) The configuration does not get committed.[PR1585855](#)

- When jnxCos mib is polled at a very high rate and if response from FPCs (evo-aftmand) is delayed (takes around 1 minute) then snmpd-subagent might generate a core file. [PR1683517](#)

Routing Policy and Firewall Filters

- On all Junos OS Evolved platforms, when nested firewall filters are applied as input-list and the sum of length of filter and term names exceed 124, firewalld process might crash and generate alarms. The filter might not get published and might result in traffic being handled incorrectly.[PR1651411](#)
- On all Junos OS Evolved PTX Series platforms, when firewall filter with family inet6 is configured with source-port or destination-port and has next-header and no payload-protocol, error messages are observed causing the filter fail to install.[PR1674893](#)

Routing Protocols

- On all Junos and Junos OS Evolved platforms, when configuring the network instance for openconfig, an error might be observed while executing a commit if the configured network instance type is "default_instance" but the instance name is not default.[PR1644421](#)
- When l2cpd (in the context of xSTP) clears the entries that it has programmed on pppmd, that is, when you delete xSTP configurations from the box, there can be a possibility of pppmd core. If pppmd 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 via if pppmd is in centralized mode.[PR1660299](#)
- On PTX Series routers enabled with BGP Labeled Unicast family, the rpd process might crash if the IBGP-LU peer is enabled before the EBGP-LU peer, and in the same sequence, the BGP-LU configuration is removed.[PR1669514](#)

User Interface and Configuration

- The system might ask for your password when you are trying to save configuration file.[PR1665008](#)
- Configd-streamer generates core files during commit of wild-carded groups related configuration. The core file is only seen with the wild-carded configuration 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

- IPv6 primary-only IP address does not move to the new primary Routing Engine after a switchover. [PR1648371](#)
- After configuring rpf-check on lag interface, lag interface goes down. [PR1652623](#)
- GNOI rpc KillProcess not supported. [PR1655652](#)
- Routes in RIB and FIB table might go out of sync on all Junos OS Evolved platforms and causes a traffic impact. [PR1658426](#)
- The license might get out of sync between primary and backup Routing Engine. [PR1658869](#)
- Traffic loss due to long MPLS re-route local convergence time on aggregated Ethernet flap. [PR1660701](#)
- The aftmand process crashes upon updating the configurations on the FTI tunnels. [PR1663417](#)
- hwdre and evo-pfemand applications might crash if idmd, fabtoken and hwdre are restarted immediately after a FEB offline. [PR1669130](#)

- PTX10K Scapa : PSM fault state not recoverable [PR1669323](#)
- Fragment frames errors are seen on the 400G interface. [PR1671065](#)
- The traffic loop is observed when ESI is configured on physical interface. [PR1672631](#)
- Reporting-interval in show jvision sensor info is stuck at 65000 when configured reporting rate is changed from 65000 to 68000. [PR1673476](#)
- CoS drops seen for priority traffic on some PTX Series platforms. [PR1673738](#)
- Unexpected storage media consumption caused by system application log. [PR1677295](#)
- Routing Engine reboot, rpd crash, etc. can be seen if the volume of zookeeper logs is high on Junos OS Evolved platforms. [PR1678880](#)
- gnoi-system generates core file during ping requests. [PR1680004](#)
- Destination mask length reported in Sflow exported packet is lesser compared to the value seen in show route forwarding-table destination . [PR1680040](#)
- Commit failure on Junos OS Evolved platforms post device upgrade. [PR1680266](#)
- LED status on backup RCB never turns on after reboot. [PR1681609](#)
- Junos OS Evolved PTX Series devices can reboot in a specific scenario. [PR1682898](#)
- Query returned nothing from the database while validating sync_response. [PR1683552](#)
- PTX Series Junos OS Evolved : Major alarm **Application ztp fail on node Re0** appears about one day later post system zeroize. [PR1683964](#)
- [CATS]:[JDI_EVO_REG]:[COS]:queue-counters-queued-bytes-rate for network-class is not within the range with cos mru 9200 configuration. [PR1691957](#)
- CBC-FPGA and RE-FPGA firmware upgrades fail. [PR1692186](#)
- CM major errors alarm not raised for pre_init_pll_programming failure with faulty Packet Forwarding Engine on PTX10004 or PTX10008 or PTX10016 Junos OS Evolved platforms. [PR1693511](#)
- CM alarm is not triggered for Packet Forwarding Engine goes into fault state [PR1693710](#)
- The line cards remain in PRESENT state post reboot. [PR1695952](#)
- The VLAN mapping is incorrect in sflow scenario on PTX Series Junos OS Evolved platforms. [PR1696413](#)
- PTX10004/ PTX10008/ PTX10016 Junos OS Evolved : LC Status LED MIB jnxLEDDescr.3.7.x.0.0 returns undefined 0 value due to read error. [PR1696500](#)

- License key is not installed after upgrade. [PR1696879](#)
- BGP sessions get flapped. [PR1697099](#)
- PTX10004/8/16 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](#)
- PTX10004/PTX10008/PTX10016 Junos OS Evolved : SNMP jnxLEDState mib returns 4 (red) value even when BITS LED is unlit/off. [PR1698919](#)

Class of Service (CoS)

- The host outbound traffic drop is seen on all Junos OS Evolved platforms due to a race condition between class-of-service host-outbound-traffic and forwarding-class configuration update. [PR1692542](#)

Infrastructure

- show route forwarding-table destination command takes long time in a scaled system for non-/32 prefixes. [PR1685545](#)
- SYN-ACK and subsequent TCP session packets generated by Routing Engine have incorrect DSCP value. [PR1703955](#)

Interfaces and Chassis

- On Junos Evolved PTX10003, when FPC3 or PFE0 on FPC3 is restarted, the wedge is detected on other FPCs. [PR1679346](#)
- LLDP packet drop is seen when the physical interface is configured with flexible-vlan-tagging. [PR1689391](#)
- The link-local address is not generated for loopback interface. [PR1695502](#)

Network Management and Monitoring

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

Routing Policy and Firewall Filters

- The SCUor DCU firewall filter match does not work as expected. [PR1699138](#)

User Interface and Configuration

- FPC ungracefully restarts when cda-bt process crashes. [PR1655441](#)
- The BFD fails to come up when Routing Engine filter is configured 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 22.2R3 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

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

What's Changed in Release 22.2R3-S1

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Junos XML API and Scripting

- **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](#).]

What's Changed in Release 22.2R3

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Interfaces and Chassis

- An optics configuration mismatch alarm may be triggered when there is a discrepancy between the configured speed of an interface and the supported speed of the optic. This alarm indicates that the optic installed in the specified FPC is incompatible with the speed configured on the interface.

Juniper Extension Toolkit (JET)

- **Python 3 is the default and only Python version for executing Juniper Extension Toolkit Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing Juniper Extension Toolkit (JET) scripts written in Python. Python 2.7 is no longer supported for executing JET scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

[See [Understanding Python Automation Scripts for Junos Devices](#).]

Junos XML API and Scripting

- **Python 3 is the default and only Python version for executing commit, event, op, and SNMP Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing commit, event, op, and SNMP scripts written in Python. Python 2.7 is no longer supported for executing these types of scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

[See [Understanding Python Automation Scripts for Junos Devices](#).]

Network Management and Monitoring

- **Python 3 is the default and only Python version for executing YANG action and translation Python scripts (ACX Series, PTX Series, and QFX Series)**—Junos OS Evolved supports only Python 3 for executing YANG action and translation scripts written in Python. Python 2.7 is no longer supported for executing YANG action and translation scripts, and we've deprecated the `language python` statement at the `[edit system scripts]` hierarchy level.

[See [Understanding Python Automation Scripts for Junos Devices](#).]

- **Support for the `junos:cli-feature` YANG extension (ACX Series, PTX Series, and QFX Series)**—The `cli-feature` YANG extension identifies certain CLI properties associated with some command options and configuration statements. The Junos YANG modules that define the configuration or RPCs include the `cli-feature` extension statement, where appropriate, in schemas emitted with extensions. This extension is beneficial when a client consumes YANG data models, but for certain workflows, the client needs to generate CLI-based tools.

[See [Understanding the Junos DDL Extensions YANG Module](#).]

User Interface and Configuration

- **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.
- The `show system directory-usage` command assumes the current working directory is always `/usr/sbin`. If you want to run the command inside another directory, you must include the full directory path in the command. This command references the directory you currently have open. The command output displays the absolute path of the directory so you can easily see you are in the correct directory.

[See [show system directory-usage](#).]

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

IN THIS SECTION

- [General Routing | 24](#)
- [Routing Protocols | 25](#)
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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 QFX5700 ungraceful removal (OIR) of FPC or an FPC fault may result in a PCIE MAJOR alarm "PCI Uncorrected error on dev 0000:00:03.0" which does not get cleared. The only way to clear this alarm is reboot of the device. There are 2 situations in which this alarm can be seen: 1. FPC is faulty: In rare FPC fault cases, the PCI Uncorrected error alarm may be seen along with FPC going to a Fault state as indicated by the 'show chassis fpc' command. This will be accompanied by other FPC Major alarms. Once the faulty FPC is replaced with a good one, the alarm will still be seen, and a reboot is required to clear this alarm. Post identification of the fault and FPC replacement, this alarm is harmless, and FPC state can be confirmed via the 'show chassis fpc' command. 2. Ungraceful OIR: The ungraceful removal of FPCs is not recommended on QFX5700. This operation may result in PCI Uncorrected Error alarm. Please use one of the following two methods to do a graceful FPC OIR removal: a. Execute the "request chassis fpc slot slot #> offline" command from the CLI. b. Press the Offline Button for 1 second on the FPC to offline the FPC. Once the FPC is gracefully offlined both LEDs - PWR and STS will go off. The FPC can be removed at this point. [PR1620197](#)
- Layer 2 related daemons - lacpd, ifmand, and arpd - when patched using JSU might cause the Junos OS Evolved devices to not boot up. [PR1676132](#)
- The links are not coming up between two TD4 devices when Auto-negotiation is enabled for DAC cables. Available work-around for this issue is to configure the following set of CLI command on both sides of the links, set interfaces <interface> ether-options no-auto-negotiation. [PR1680009](#)

- On QFX5220-128C, system reboot from CLI, log related to system reboot event might not appear in message log or CLI show log messages | match SYSTEM_REBOOT_EVENT. Users can see the log in journalctl logs. [PR1696668](#)

Routing Protocols

- On Junos OS 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

- [General Routing | 25](#)
- [User Interface and Configuration | 26](#)

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

- Post ZTP QFX5220 needs a reboot for routes to be seen in mgmt_junos.inet.0 table. [PR1672097](#)

- On Junos Evolved OS QFX platforms, VLAN tag of transit IGMP report will be removed when igmp-snooping is enabled. [PR1687475](#)

User Interface and Configuration

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

Upgrade Your Junos OS Evolved Software

Products impacted: 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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- [Creating a Service Request with JTAC | 29](#)

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/content/dam/www/assets/resource-guides/us/en/jtac-user-guide.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://prsearch.juniper.net/>
- Find product documentation: <https://www.juniper.net/documentation/>
- Find solutions and answer questions using our Knowledge Base: <https://supportportal.juniper.net/s/knowledge>
- 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://supportportal.juniper.net/s/knowledge>
- Join and participate in the Juniper Networks Community Forum: <https://www.juniper.net/company/communities/>
- Create a service request online: <https://supportportal.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://support.juniper.net/support/requesting-support/>
- 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

28 March 2025—Revision 4, Junos OS Evolved Release 22.2R3

10 August 2023—Revision 3, Junos OS Evolved Release 22.2R3

20 July 2023—Revision 2, Junos OS Evolved Release 22.2R3

29 March 2023—Revision 1, Junos OS Evolved Release 22.2R3

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