

# Release Notes

Published  
2025-05-16

## Junos OS Evolved Release 23.4X100-D31

### Introduction

Use these release notes to find new and changed features and open issues for Junos OS Evolved Release 23.4X100-D31.

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



**NOTE:** Junos OS Evolved 23.4X100-D31 is a controlled release available only on the following platforms:

- QFX5130-32CD
- QFX5130E-32CD
- QFX5130-48C
- QFX5130-48CM
- QFX5220-32CD or 128C
- QFX5230-64CD
- QFX5240-OD or QFX5240-QD
- QFX5700
- QFX5700E

If you are looking for this release, contact your Juniper Networks Account Team for more information.

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# Junos OS Evolved Release Notes for QFX Series

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These release notes accompany Junos OS Evolved Release 23.4X100-D31 for QFX5130-32CD, QFX5130-48CM, QFX5220-32CD, QFX5220-128C, QFX5230-64CD, QFX5240-OD, and QFX5240-QD switches. They describe new and changed features and open issues in the hardware and software..

## What's New

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Learn about new features introduced in this release for QFX Series switches.

### EVPN

- **BGP auto-discovery underlay (RFC5549) for EVPN-VXLAN (QFX5230-64CD, QFX5240-64OD, and QFX5240-64QD)**—Simplify the EVPN-VXLAN underlay network by auto-discovering the eBGP peer neighbors using the link-local IPv6 addresses. The EVPN MAC-VRF RT2 and RT5 IPVRF EVPN-VXLAN are both supported for the overlays when running the RFC5549 BGP unnumbered in the underlay BGP. While the underlay links run the IPv6 link-local, the EVPN-VXLAN overlay can still use the IPv4 tunnel termination using the embedded advertisement.
- **Support for multicast IGMPv2v3/MLDv2 SMET in a bridged-overlay Layer 2 EVPN-VXLAN (QFX5130-32CD, QFX5130-48C, QFX5130-48CM, and QFX5700)**—A bridged overlay EVPN-

VXLAN design with these QFX models provide Ethernet bridging between leaf devices in an EVPN network. This bridge overlay extends VLANs between the leaf devices across VXLAN tunnels. Bridged overlays provide an entry-level overlay style for data center networks that require Ethernet connectivity but do not need routing services between the VLANs.

The bridged overlay EVPN-VXLAN can be a leaf-spine type of topology offering ESI-LAG multihoming or collapsed spine topology where two devices are back-to-back connected and provide the Layer 2 active/active multihoming with the ESI-LAG. The IGMP/MLD snooping in a bridged overlay constrains multicast traffic in a broadcast domain to interested receivers. In the absence of IGMP/MLD snooping, multicast traffic is treated like broadcast and is flooded in the broadcast domain. The feature supports the bridged scenario for EVPN-VXLAN where the leaves are just used for bridging purposes. The MAC-VRF instance-type with EVPN multicast related route-types RT3, RT6, RT7, and RT8 are supported with this multicast feature. Supports VLAN-based and VLAN-aware EVPN service types.

- **Multicast router interface synchronization for IGMPv2v3/MLDv2 SMET in bridged-overlay EVPN-VXLAN (QFX5130-32CD, QFX5130-48C, QFX5130-48CM, and QFX5700)**—A bridged overlay EVPN-VXLAN design with these QFX models provide Ethernet bridging between leaf devices in an EVPN network. When an external PIM router gateway is connected to a bridged-overlay pair of border-leaf in a leaf-spine EVPN-VXLAN bridged-overlay topology, or in a collapsed spine bridged-overlay through the ESI-LAG and the explicit multicast router interface is enabled to the gateway, then to support the DF/NDF logic at the ESI-LAG level, the multicast router synchronization functionality is required for the EVPN control-plane. This is needed because from the external PIM router gateway connected to the EVPN-VXLAN bridged-overlay through the ESI-LAG, the IGMP/MLD query will be hashed to any one of the member links of the bundle, so a synchronization of the state is required.

## Interfaces

- **Support optics pre-forward error correction (pre-FEC) bit error rate (BER) (QFX5220, QFX5230-64CD, QFX5240-64OD, and QFX5240-64QD)**—Pre-FEC BER provides an insight into the link quality. Pre-FEC BER and histogram can be used to forecast the link quality. This feature is enabled by default.
- **Support to display FEC histogram and statistics (QFX5230-64CD, QFX5240-64OD, and QFX5240-64QD)**—The `show interfaces interface-name` command has been enhanced to display FEC corrected and un-corrected code words counters, pre-FEC BER, and FEC histogram.

## What's Changed

There are no changes in behavior and syntax in this release for QFX Series switches.

## Open Issues

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Learn about open issues in Junos OS Evolved Release 23.4X100-D31 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.

## Interfaces and Chassis

- FEC Histogram Statistics in CLI show interface <port> extensive for a port on QFX5230-64CD does not show all 16 Bin's for a degraded link. FEC Histogram Statistics is available only for first 8 Bin's. Issue is being worked with vendor's team to understand this behavior on TH4.

## Licensing

In 2020, Juniper Networks introduced a new software licensing model. The Juniper Flex Program comprises a framework, a set of policies, and various tools that help unify and thereby simplify the multiple product-driven licensing and packaging approaches that Juniper Networks has developed over the past several years.

The major components of the framework are:

- A focus on customer segments (enterprise, service provider, and cloud) and use cases for Juniper Networks hardware and software products.
- The introduction of a common three-tiered model (standard, advanced, and premium) for all Juniper Networks software products.
- The introduction of subscription licenses and subscription portability for all Juniper Networks products, including Junos OS and Contrail.

For information about the list of supported products, see [Juniper Flex Program](#).

## 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/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

16 May 2025—Revision 2, Junos OS Evolved Release 23.4X100-D31

18 April 2025—Revision 1, Junos OS Evolved Release 23.4X100-D31

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