

Juniper Extension Toolkit Release Notes: JET 17.4

Release 17.4
July 2018
Revision R2

These release notes accompany the Juniper Extension Toolkit (JET). They describe the new and changed features, limitations, and known and resolved problems.

Applications developed using the Juniper Extension Toolkit (JET) are supported on the following platforms: ACX Series, MX80, MX104, MX240, MX480, MX960, MX2010, MX2020, vMX Series, and SRX Series Services Gateways.

JET provides a common API framework that exposes API functionality made available by the internal Junos OS daemons. Each internal daemon exposes its own APIs. All of the APIs are accessible using the gRPC framework for remote procedure calls (RPCs).

JET supports the following:

- Multiple languages for applications that run off-box
- Python for applications that run on a device running Junos OS
- Applications written in C to run on devices that do not use the JET APIs
- An event notification method that enables the applications to respond to selected system events

Contents

New and Changed Features	3
API	3
Known Issues	3
Certificates for JET	3
Errata for JET Documentation	3
Juniper Extension Toolkit API Guide	3
Third-Party Components	4
Finding More Information	4
Documentation Feedback	4
Requesting Technical Support	4
Self-Help Online Tools and Resources	5
Opening a Case with JTAC	5

Revision History	6
------------------------	---

New and Changed Features

This section describes the new features and enhancements to existing features in Juniper Extension Toolkit 17.4R1.

- [API](#)

API

- BGP Service APIs— Introduced in Junos OS Release 16.2 for working with BGP static routes. You can add, modify, delete, and query routes advertised in the BGP protocol. Each API exposes BGP NLRI and route attributes, such as AS path, communities, local preference, MED, protocol next-hop, and others. Starting in Junos OS Release 17.4 the BGP service API includes programmable BGP route server capabilities including: BGP attribute transparency, support for external BGP routes (EBGP), and the ability to inject routes into route server client RIBs. These features are supported on the IPv4, IPv6, and VPNv4 address families..
- Registration service APIs – Introduced in Junos OS Release 16.2 for client registration. The registration service APIs have been enhanced to include support for Logical systems and routing instances on applicable platforms.

Known Issues

This section contains the known behavior, system maximums, and limitations in software in the Juniper Extension Toolkit.

- [Certificates for JET](#)

Certificates for JET

Junos OS does not support ECDSA or DSA SSL certificates for JET. For secure communications with the JET service process (jsd), use RSA certificates. PR 1120453

**Related
Documentation**

- *Juniper Extension Toolkit - API Guide*
- *Juniper Extension Toolkit - Getting Started Guide*

Errata for JET Documentation

This section lists outstanding issues with the JET documentation.

- [Juniper Extension Toolkit API Guide](#)

Juniper Extension Toolkit API Guide

This guide incorrectly documents the support of CoS service APIs In *JET Service APIs Overview* section. Starting in Junos OS Release 17.3R1, CoS service IDL is not available on the JET IDL package.

Third-Party Components

This product includes third-party components. To obtain a complete list of third-party components, see [Overview for Routing Devices](#).

For a list of open source attributes for this Junos OS release, see [Open Source: Source Files and Attributions](#).

Finding More Information

For the latest, most complete information about known and resolved issues with Junos OS, see the Juniper Networks Problem Report Search application at <https://prsearch.juniper.net>.

Juniper Networks Feature Explorer is a Web-based application that helps you to explore and compare Junos OS feature information to find the correct software release and hardware platform for your network. Find Feature Explorer at <https://pathfinder.juniper.net/feature-explorer/>.

Juniper Networks Content Explorer is a Web-based application that helps you explore Juniper Networks technical documentation by product, task, and software release, and download documentation in PDF format. Find Content Explorer at <https://www.juniper.net/documentation/content-applications/content-explorer/>.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can send your comments to techpubs-comments@juniper.net, or fill out the documentation feedback form at <https://www.juniper.net/cgi-bin/docbugreport/>. If you are using e-mail, be sure to include the following information with your comments:

- Document or topic name
- URL or page number
- Software release version (if applicable)

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post sales technical support, you can access our tools and resources online or open a case with JTAC.

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <https://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://www.juniper.net/kb/>
- 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/>
- Open a case online in the CSC Case Management tool: <https://www.juniper.net/cm/>

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

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <https://www.juniper.net/cm/>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, visit us at <https://www.juniper.net/support/requesting-support.html>.

If you are reporting a hardware or software problem, issue the following command from the CLI before contacting support:

```
user@host> request support information | save filename
```

To provide a core file to Juniper Networks for analysis, compress the file with the **gzip** utility, rename the file to include your company name, and copy it to

ftp.juniper.net/pub/incoming. Then send the filename, along with software version information (the output of the **show version** command) and the configuration, to **support@juniper.net**. For documentation issues, fill out the bug report form located at <https://www.juniper.net/documentation/feedback/>.

Revision History

June 2016—Release 1.0R1 of the JET Release Notes.

July 11, 2016—Fixed text on Requesting Technical Support and updated platform list.

November 2016—Release 16.2R1 of the Jet Release Notes. Release numbering changed from 1.0 to match Junos OS Release numbering.

February 2017—Release 17.1R1 of the Jet Release Notes. Release New APIs and add features to existing APIs.

June 2017—Release 17.2R1 of the Jet Release Notes. Release New APIs and add features to existing APIs

August 2017—Release 17.3R1 of the Jet Release Notes. Release New APIs and add features to existing APIs

December 2017—Release 17.4R1 of the Jet Release Notes. Release New APIs and add features to existing APIs

July 2018—Release 17.4R1 of the Jet Release Notes. Added errata about the support of CoS service APIs

Copyright © 2018, Juniper Networks, Inc. All rights reserved .

Juniper Networks, Junos, Steel-Belted Radius, NetScreen, and ScreenOS are registered trademarks of Juniper Networks, Inc. in the United States and other countries. The Juniper Networks Logo, the Junos logo, and JunosE are trademarks of Juniper Networks, Inc. All other trademarks, service marks, registered trademarks, or registered service marks are the property of their respective owners.

Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.