

Release Notes: Puppet for Junos OS 1.0

Release 1.0
6 March 2014

These release notes accompany Release 1.0 of Puppet for Junos OS. They describe application documentation and known problems with the software.

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Puppet for Junos OS 1.0

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Supported Devices and Junos OS Releases

Puppet for Junos OS Release 1.0 should only be used with the devices running the Junos OS release and **jpuppet** package specified in [Table 1 on page 2](#). Puppet for Junos OS Release 1.0 can be used with later Junos OS releases with the same major release number as those listed in the table. QFX5100 switches that have the automation enhancements bundle installed do not require the jpuppet package, because the Puppet agent is integrated into the software.

Table 1: Puppet for Junos OS Supported Devices and Junos OS Releases

Device	Junos OS Release	jpuppet Package
EX4200 EX4500 EX4550	12.3R2	jpuppet-ex-1.0R1.1.tgz
MX5 MX10 MX40 MX80	12.3R2	jpuppet-mx80-1.0R1.1.tgz
MX240 MX480 MX960	12.3R2	jpuppet-mx-1.0R1.1.tgz
QFX3500 QFX3600	12.3X50-D20.1	jpuppet-qfx-1.0R1.1.tgz
QFX5100	13.2X51-D15 with enhanced automation	–

Features

Puppet for Junos OS Release 1.0 supports the following features:

- **Puppet resource types**—The netdev_stdlib Puppet module provides new Puppet resource types for configuring:
 - Physical interfaces
 - Layer 2 switch ports

- VLANs
- Link aggregation groups
- **Junos OS-specific Puppet Provider code**—The Juniper Networks `netdev_stdlib_junos` module, which you install on the Puppet master when managing devices running Junos OS, contains the Junos OS-specific Puppet Provider code that implements the resource types defined in the `netdev_stdlib` module.
- **Puppet agent and Facter run natively**—Puppet agent and Facter run natively on devices running Junos OS, distributed as a software package containing:
 - Open source Puppet agent 2.7.19
 - Ruby 1.8.7
 - Required libraries and Ruby gems
- **Configure exclusive mode**—The Puppet agent makes configuration changes under exclusive lock.
- **Reporting capabilities**
 - Configuration changes are logged with a Puppet catalog version for audit tracking.
 - Puppet report logs designate log entries specific to Junos OS processing with **source: JUNOS**.
 - Puppet report logs include tags in the log entry specifying the operation or error and its severity level.

Installation Notes

- **Puppet netdev modules**—There are two Puppet modules. The first module, `netdevops/netdev_stdlib`, includes the Puppet Type definitions for the netdev resources, and the second Puppet module, `juniper/netdev_stdlib_junos`, includes the Junos OS-specific code that implements each of the Types

Installing the `juniper/netdev_stdlib_junos` module automatically installs both modules. If you previously installed the Puppet for Junos OS Release 0.8 netdev module, you must remove the old module before installing the Puppet for Junos OS Release 1.0 netdev_stdlib_junos module in order to avoid conflicts between the modules.
- **NETCONF Ruby gem dependencies**—The NETCONF Ruby gem has dependencies on the `libxslt` and `libxml2` software libraries and the `Nokogiri` and `NET-SSH` Ruby gems. The server must have the `libxslt` and `libxml2` software libraries installed prior to installing the NETCONF Ruby gem. The `Nokogiri` and `NET-SSH` Ruby gems are installed automatically when you install the NETCONF gem.
- QFX5100 switches running Junos OS with enhanced automation have the Puppet agent integrated into the software. You do not need to install the Puppet agent on these switches, but you must configure the Junos OS user account for Puppet and start the Puppet agent process in order to use Puppet for Junos OS on these devices.

Known Limitations

This section lists known limitations with this release.

- **Puppet agent addressable memory**—The Puppet agent execution environment by default uses 64 MB of addressable memory. You can expand the usable memory to higher values depending on the device running Junos OS. See [Configuring the Puppet for Junos OS Addressable Memory](#).

Documentation and Release Notes

To obtain the most current version of all Juniper Networks® technical documentation, see the product documentation page on the Juniper Networks website at <http://www.juniper.net/techpubs/>.

If the information in the latest release notes differs from the information in the documentation, follow the product Release Notes.

Juniper Networks Books publishes books by Juniper Networks engineers and subject matter experts. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration. The current list can be viewed at <http://www.juniper.net/books>.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can provide feedback by using either of the following methods:

- Online feedback rating system—On any page of the Juniper Networks TechLibrary site at <http://www.juniper.net/techpubs/index.html>, simply click the stars to rate the content, and use the pop-up form to provide us with information about your experience. Alternately, you can use the online feedback form at <http://www.juniper.net/techpubs/feedback/>.
- E-mail—Send your comments to techpubs-comments@juniper.net. Include the document or topic name, URL or page number, and software 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 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 <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.

- Product warranties—For product warranty information, visit <http://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: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <http://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

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

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 <http://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, see <http://www.juniper.net/support/requesting-support.html>.

Revision History

6 March 2014—Revision 2, Updates for QFX5100 switches

29 March 2013—Revision 1, Puppet for Junos OS Release 1.0

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