

JunosV App Engine Release Notes

Release 12.3
1 March 2013
Revision 2

These release notes accompany Release 12.3R2 of the JunosV App Engine. They describe the features and the documentation of the JunosV App Engine and known problems.

JunosV App Engine provides a simpler, faster, and less expensive way to integrate the management, control, and data layers of third-party applications with Junos. JunosV App Engine enables these applications to run in their native environments without requiring porting to Junos. The applications are installed on a Juniper Networks M Series, MX Series, or T Series router and deployed on the VSE appliance to run in a guest OS in a virtualized environment.

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General Feature Descriptions

JunosV App Engine Host Base OS package—This software contains the boot file and the boot server. This information is deployed to the VSE device from the router tethered to the VSE device.

Based on the Juniper router platform (M/MX/T series), DHCP functionality might require a separate software license. If you encounter a message to this effect, use the e-mail address that has been provided to you for contacting Junos SDK Developer Support.

Platforms Applications Can Run On

Applications, the JunosV App Engine Host Base OS software, and configuration is deployed to a VSE device from either a M Series, MX Series, or T Series router.

Version Compatibility

As of Junos OS Release 12.3, Junos applications will install on Junos only if the application is built with the same release as the Junos OS Release on which the application is being installed. For example, an application built with Release 12.3R2 will only install on Junos OS Release 12.3R2 and will not install on Junos OS Release 12.3R1 or Junos OS Release 12.3R3 or Junos OS Release 13.1R1.

Outstanding Issues

This section lists outstanding issues with this release of the JunosV App Engine platform. (In the previous release, these issues were notated in the Junos SDK and JunosV App Engine combined release notes.) If there is an identifier following the description, it is the tracking number in our bug database.

- When you use the **request virtual-engine {offline | reboot | service} compute-cluster *cluster-name* compute-node *compute-node-name*** operational commands, type the compute cluster element before the compute node. In this case, the command completion feature works. If you type the compute node before the compute cluster, command completion does not work. [728180]
- New VMs created are active even after secondary memory is exhausted and sdk-vmmd is not responding. The VMs are active but fail to login to a newly created VM. [PR 792237]
- If TFTP is configured before the **app-engine** statement, an error message is displayed when it should not be displayed. [PR 808652]
- Validation fails when existing UI extension configuration is present and any package is installed. The workaround is either of the following:
 - Deactivate and commit any UI extension configuration, install package, and then reactivate the configuration deactivated earlier.
 - Use "no-validate" when installing a new package in the presence of existing UI extension configuration.

[PR 845832]

- When installing the jvae software with the **request system software add** command, a message is displayed:

WARNING: The software that is being installed has limited support.

Ignore this message. It is not the case that the software has limited support. [PR 830525]

Issues Fixed Since Last Release

The following issues have been recently resolved. (In the previous release, these issues were notated in the Junos SDK and JunosV App Engine combined release notes.)

- If a package (Routing and System APIs, Services APIs, or Remote APIs) is installed and if it results in restarting of the CLI, the JunosV App Engine appliance will reboot. [PR 788585]
- When packages are installed on the router there are warning messages concerning PPOE. There is no impact to functionality. [PR 807551]
- Release 12.3B2 did not support MX80 router in the restarting of virtual machines (VMs). In a scenario with two compute nodes each with one VM: When the VM on one node is deactivated, the VM on another node is also respawned. When the VM on the first node is activated again, both it and the other VM on the other node go down and do not get activated. In a single compute node scenario where there are multiple running VMs, if one VM is restarted, the other VM also goes down and comes back. [PR 822534]
- When the guest OS packaged is installed, the following error messages appear:

/packages/mnt/sample-jvae-app-ve-12.3I20120829_1435_root/pkg/manifest: 2:
Must specify a 'role' keyword entry in manifest at

/packages/mnt/sample-jvae-app-ve-12.3I20120829_1435_root/pkg/manifest: 3:
Must specify a 'role' keyword entry in manifest at

/packages/mnt/sample-jvae-app-ve-12.3I20120829_1435_root/pkg/manifest: 4:
Must specify a 'role' keyword entry in manifest at

/packages/mnt/sample-jvae-app-ve-12.3I20120829_1435_root/pkg/manifest: 5:
Must specify a 'role' keyword entry in manifest at

These messages have no impact on functionality. [PR 727174]

JunosV App Engine Documentation and Release Notes

The JunosV App Engine documentation is available online and downloadable. The technical publications home page for the JunosV App Engine is at the following URL:

http://www.juniper.net/techpubs/en_US/release-independent/junosv-app-engine/

Table 1: JunosV App Engine Documentation

Documentation Piece	Description
JunosV App Engine tutorial	Takes the user through how to deploy and configure a sample application to run on the VSE device.
<i>JunosV App Engine Administration Guide</i>	This documentation available in PDF and HTML includes: <ul style="list-style-type: none">• Topics on configuring the JunosV App Engine platform.• Summaries of configuration statements used to configure the JunosV App Engine platform.• Summaries of operational commands used to monitor the JunosV App Engine platform.

If the information in the latest release notes differs from the information in the documentation, follow the *JunosV App Engine 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/>.

Juniper Networks supports a technical book program to publish books by Juniper Networks engineers and subject matter experts with book publishers around the world. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration using the Junos operating system (Junos OS) and Juniper Networks devices. In addition, the Juniper Networks Technical Library, published in conjunction with O'Reilly Media, explores improving network security, reliability, and availability using Junos OS configuration techniques. All the books are for sale at technical bookstores and book outlets around the world. 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 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.

- 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: <https://www.juniper.net/alerts/>
- 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

1 March 2013—Initial version of 12.3R2 release notes.

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