

JNU 1.3J1 Release Notes

Release 1.3J1
June 2014
Revision 1

These release notes accompany JNU Release 1.3. They describe new features and known issues with the software.

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New Features

The following features have been added to JNU Release 1.3.

Support for JNU Controllers

Table 1 on page 2 shows the support for JNU Controllers in JNU 1.3J1.

Table 1: JNU Controllers Support in JNU 1.3J1

Platforms Supported in Port-extender Mode

MX80, MX240, and MX480 Universal Edge routers

Support for JNU Satellites

Table 2 on page 2 shows the support for JNU Satellites in JNU 1.3J1.

Table 2: JNU Satellites Support in JNU 1.3J1

Platforms Supported in Port-extender Mode

EX4200, EX4500, and QFX3500 Series switches

Support for Junos OS

Table 3 on page 2 shows the support for Junos OS Releases in JNU 1.3J1.

Table 3: Junos OS Support in JNU 1.3J1

Platform	Junos OS Release
ACX1000 and ACX2000 Universal Access Routers	12.2R2.4, 12.3R1.7
EX4200, EX4500, EX4550, EX3200, EX3300, and EX6200 Ethernet Switches	12.2R2.4, 12.3R1.7
EX9000 Ethernet Switches	12.3R1.7
MX Series 3D Universal Edge routers	12.3R5
QFX3500 device	12.1X49-D1.2 (no MC-LAG support), 12.2X50-D20.4, 12.3X50-D10.3 (MC-LAG support),

Initializing JNU Mode on the Controller

After you install the JNU software, you need to initially configure and initialize the MX Series controller. The initialization process creates a JNU management plane configuration on the controller and places it in a configuration group called `jnu-controller-mgmt`. The management plane configuration involves interfaces, internal routing-instance,

virtual-switch bridging, SNMP, system logs, NTP, and NAT in the main instance of the configuration.

As part of the initialization process, the JNU configuration is committed on the controller.

When you initialize the controller and the satellite devices, you must be logged in to the controller or satellite as the root user. The initialization process creates a user account called `jnuadmin`, which the controller uses to log in to the satellites. After the initialization process is complete, log in to the controller using the `jnuadmin` user account.

To initially configure the controller enter the **request jnu controller** command:

```
user@jnu1-ctr1r> request jnu controller
```

Initializing JNU Mode on the Satellite Device

When you initialize the satellite device, the software creates a management configuration on the device that allows the controller to configure and manage the satellite. When you run the satellite initialization process, the controller connects to the satellite and copies JNU code elements that are based on scripting technology to the satellite.

Before you initialize the satellite device, you must configure a root (superuser) password by including the **root-authentication** statement at the **[edit system]** hierarchy level. When you initialize the satellite devices, you must be logged in to the satellite as the root user.

To initialize a satellite device enter the following command on the satellite device:

```
user@jnu-satellite1> request jnu satellite
```

After the satellite is assigned an address from the controller, it also retrieves the JNU management configuration from the controller by parsing the `hostname.config` file that the satellite attempts to obtain. After the satellite initialization is completed, the JNU management plane between the controller and the satellite is active and running.

Support for JNU Port-Extender Mode

Starting with JNU Release 1.3J1, you can use the embedded, in-built Junos OS CLI interface as the mechanism to enable the JNU application on controller and satellites, and also to activate the port-extender mode on these devices. By using the Junos OS configuration statements at the corresponding hierarchy levels, you can configure port-extender features and interfaces in the same manner in which you configure other types of interfaces or applications on a device running Junos OS. You need not be familiar with SLAX or use configuration templates to handle JNU operations. In this release, only the port-extender mode of operation is supported and the feature-rich or non-port-extender mode is not supported. As a result, when you enable the JNU mode on a device, it automatically enables the port-extender mode on the device.

You can configure a satellite interface to function as the extended interface and host it on a controller by using the `port-extender` statement at the **[edit interfaces]** hierarchy level. You can also define the attributes of the satellite extended interface using the options available at the **[edit interfaces port-extender interface-name]** hierarchy level. You can configure only logical interfaces and not physical interfaces to be extended and housed on the controller from the satellite. After the port-extender interfaces are defined,

the JNU application builds the internal 802.1q-tunneling configuration to be applied on the satellite and the corresponding controller logical interfaces automatically.



NOTE: Until JNU Release 1.3R2, you could use the predefined configuration templates or free-form settings to define and manage the satellite interfaces that required to be anchored on the controller. You could not configure the extended satellite interfaces using the Junos OS CLI statements.

New and Updated Commands

The following commands are new or have been updated in JNU 1.3J1 Release:

- *show chassis hardware jnu device all*
- *show interfaces*
- *show port-extenders*
- *show satellites*
- *show version jnu device all*

Known Issues in JNU Release 1.3

This section lists the known issues in JNU Release 1.3.

JNU Documentation and Release Notes

For a list of related JNU documentation, see http://www.juniper.net/techpubs/en_US/release-independent/jnu/jnu-index.html.

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

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

June 2014—Revision 1, JNU Release 1.3J1

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