

Release Notes: Junos[®] OS Release 14.1X53-D10 for the EX Series

Release 14.1X53-D10
29 September 2014
Revision 1

Contents

Junos OS Release Notes for EX Series Switches	3
New and Changed Features	3
Authentication and Access Control	3
Bridging and Learning	4
Infrastructure	4
Interfaces and Chassis	7
J-Web	7
Layer 3 Protocols	8
Network Management and Monitoring	8
Port Security	8
Changes in Behavior and Syntax	9
Known Behavior	9
J-Web	9
Known Issues	10
Class of Service	10
Interfaces and Chassis	10
J-Web	10
Layer 3 Protocols	11
Network Management and Monitoring	11
Port Security	11
Documentation Updates	12
Migration, Upgrade, and Downgrade Instructions	12
Upgrade and Downgrade Support Policy for Junos OS Releases	12
Product Compatibility	13
Hardware Compatibility	13
Third-Party Components	13
Finding More Information	14
Documentation Feedback	14

Requesting Technical Support	14
Self-Help Online Tools and Resources	15
Opening a Case with JTAC	15
Revision History	15

Junos OS Release Notes for EX Series Switches

These release notes accompany Junos OS Release 14.1X53 for the EX Series. They describe new and changed features, limitations, and known and resolved problems in the hardware and software.

You can also find these release notes on the Juniper Networks Junos OS Documentation webpage, located at <http://www.juniper.net/techpubs/software/junos/>.

- [New and Changed Features on page 3](#)
- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)
- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

New and Changed Features

This section describes the new features and enhancements to existing features in Junos OS Release 14.1X53-D10 for the EX Series.

- [Authentication and Access Control](#)
- [Bridging and Learning](#)
- [Infrastructure](#)
- [Interfaces and Chassis](#)
- [J-Web](#)
- [Layer 3 Protocols](#)
- [Network Management and Monitoring](#)
- [Port Security](#)

[Authentication and Access Control](#)

- **IPv6 for RADIUS AAA (EX Series)**—Starting with Release 14.1X53-D10, Junos OS for EX Series switches supports IPv6, along with the existing IPv4 support, for user authentication, authorization, and accounting (AAA) using RADIUS servers.

RADIUS authentication is a method of authenticating users who attempt to access the router or switch. To use RADIUS authentication on the switch, configure information about one or more RADIUS servers on the network by including one **radius-server** statement at the **[edit system]** hierarchy level for each RADIUS server.

When you configure a source address for each configured RADIUS server, each RADIUS request sent to a RADIUS server uses the specified source address.

- **Authentication**—Specify which source address Junos OS uses when accessing your network to contact an external RADIUS server for authentication. You configure the

IPv6 source address for RADIUS authentication at the **[edit system radius-server server-address source-address-inet6]** hierarchy level.

- Accounting—Specify which source address Junos OS uses when contacting a RADIUS server for sending accounting information. You configure the IPv6 source address for RADIUS authentication at the **[edit system accounting destination radius server server-address source-address-inet6]** hierarchy level.

[See [source-address-inet6](#).]

Bridging and Learning

- **RVI support for private VLANs (EX8200 switches and EX8200 Virtual Chassis)**---Starting with Junos OS Release 14.1X53-D10, you can configure a routed VLAN interface (RVI) on an EX8200 switch or EX8200 Virtual Chassis to handle the Layer 3 traffic of inter-secondary VLANs (community VLANs and isolated VLANs) in a private VLAN (PVLAN). By using an RVI to handle the routing within the PVLAN, you eliminate the need for an external router with a promiscuous port connection to perform this function.

One RVI serves the entire PVLAN domain regardless of whether the domain consists of one or more switches. After you configure the RVI, Layer 3 packets received by the secondary VLAN interfaces are mapped to and routed by the RVI.

[See [Configuring a Routed VLAN Interface in a Private VLAN \(CLI Procedure\)](#).]

Infrastructure

- **Licensing enhancements (EX Series)**—Starting with Junos OS Release 14.1X53-D10, licensing enhancements on EX Series switches enable you to configure and delete license keys in a Junos OS CLI configuration file. The license keys are validated and installed after a successful commit of the configuration file. If a license key is invalid, the commit fails and issues an error message. You can configure individual license keys or multiple license keys by issuing Junos OS CLI commands or by loading the license key configuration contained in a file. All installed license keys are stored in the **/config/license/** directory.

To install an individual license key in the Junos OS CLI, issue the **set system license keys key *name*** command, and then issue the **commit** command.

For example:

```
[edit]
root@switch# set system license keys key "JUNOS_TEST_LIC_FEAT aeaqeb qbmqds
  qwwsxe okyvou 6v57u5 zt6ie6 uwl3zh assvnu e2ptl5 soxawy vtfh7k axwnno m5w54j
  6z"
root@switch# commit
commit complete
```

To verify that the license key was installed, issue the **show system license** command.

For example:

```
root@switch> show system license
```

License usage:

	Licenses	Licenses	Licenses	Expiry
Feature name	used	installed	needed	
sdk-test-feat1	0	1	0	permanent

Licenses installed:

License identifier: JUNOS_TEST_LIC_FEAT

License version: 2

Features:

sdk-test-feat1 - JUNOS SDK Test Feature 1
permanent

To install multiple license keys in the Junos OS CLI, issue the **set system license keys** *key name* command, and then issue the **commit** command.

For example:

```
[edit]
root@switch# set system license keys key "key_1"
set system license keys key "key_2"
set system license keys key "key_2"
set system license keys key "key_4"
root@switch# commit
commit complete
```

To verify that the license key was installed, issue the **show system license** command.

To install an individual license key configuration in a file, issue the **cat** command:

For example:

```
[edit]
root@switch%cat license.conf
system {
  license {
    keys {
      key "JUNOS_TEST_LIC_FEAT aeaqeb qbmqds qwwsxe okyvou 6v57u5 zt6ie6
uw13zh assvnu e2ptl5 soxawy vtfh7k axwnno m5w54j 6z";
    }
  }
}
```

Load and merge the license configuration file.

For example:

```
[edit]
root@switch# load merge license.conf
load complete
```

Issue the **show | compare** command to see the configuration, and then issue the **commit** command.

For example:

```
[edit]
root@switch# show | compare
[edit system]
+ license {
+   keys {
```

```
+     key "JUNOS_TEST_LIC_FEAT aeaqeb qbmqds qwwsxe okyvou 6v57u5 zt6ie6
+     uwl3zh assvnu e2ptl5 soxawy vtfh7k axwnno m5w54j 6z";
+ }
+ }
[edit]
root@switch# commit
```

To verify that the license key was installed, issue the **show system license** command.

For example:

```
root@switch> show system license
License usage:

```

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
sdk-test-feat1	0	1	0	permanent

```

Licenses installed:
License identifier: JUNOS_TEST_LIC_FEAT
License version: 2
Features:
  sdk-test-feat1 - JUNOS SDK Test Feature 1
  permanent
```

To install multiple license keys in a file, issue the **cat** command:

For example:

```
[edit]
root@switch%cat license.conf
system
{
  license
  {
    keys
    {
      key "key_1"
      key "key_2"
      key "key_3"
      ...
      key "key_n"
    }
  }
}
```

Load and merge the license configuration file, and then issue the commit command.

For example:

```
[edit]
root@switch# load merge license.conf
load complete
[edit]
root@switch# commit
```

To verify that the license key was installed, issue the **show system license** command.

You can also delete or deactivate individual and multiple license keys in the Junos OS CLI by issuing the **delete system license keys** or **deactivate system license keys**

commands. Do not use the **request system license delete** command to delete the license keys.

For example, to issue the **delete system license keys** command:

```
[edit]
root@switch# delete system license keys
root@switch# commit
```

Interfaces and Chassis

- **Support for aggregated Ethernet link protection enhancements (EX4500)**—Starting with Junos OS Release 14.1X53-D10, aggregated Ethernet link protection is enhanced on EX4500 switches to support a collection of Ethernet links within a LAG bundle. Link protection could previously be used to protect a single link within a LAG bundle only. The ability to provide link protection for a collection of links in a LAG bundle is provided using link protection subgroups, which are introduced as part of this feature.

[See [Configuring LACP Link Protection of Aggregated Ethernet Interfaces \(CLI Procedure\)](#).]

J-Web

- **J-Web interface available in two packages (EX2200, EX3200, EX3300, EX4200, EX4500, EX4550, EX6200)**—Prior to this release, the J-Web interface was available as a single package as part of Junos OS. Starting with Junos OS Release 14.1X53-D10, the J-Web interface is available in two packages:
 - The Platform package is installed as part of Junos OS, which provides basic functionalities of J-Web. You can use the Platform package to create a basic configuration and maintain your EX Series switch.
 - The Application package is an optionally installable package, which provides complete functionalities of J-Web that enable you to configure, monitor, maintain, and troubleshoot your switch. You must download the Application package and install it over the Platform package on your switch.

For detailed information about the J-Web packages, see [Release Notes: J-Web Application Package Release 14.1X53-A1 for Juniper Networks EX Series Ethernet Switches](#).

- **Browser support enhancements for the J-Web interface (EX2200, EX3200, EX3300, EX4200, EX4500, EX4550, EX6200)**—Starting with Junos OS Release 14.1X53-D10, the J-Web interface supports the following browsers:
 - Microsoft Internet Explorer versions 9 and 10
 - Mozilla Firefox versions 24 through 30
 - Google Chrome versions 27 through 36



TIP: For best viewing of the J-Web application, set the screen resolution to 1440 X 900.

Layer 3 Protocols

- **IS-IS protocol (EX3300)**—EX3300 switches now support the Intermediate System-to-Intermediate System (IS-IS) protocol. On EX3300 switches, the IS-IS configuration is available at the **[edit protocols]** hierarchy level.

[See [Layer 3 Protocols Supported on EX Series Switches](#).]

Network Management and Monitoring

- **Ethernet frame delay measurement (EX2200)**—Starting with Junos OS Release 14.1X53-D10, you can obtain Ethernet frame delay measurements (ETH-DM) on an EX2200 switch. You can configure Operation, Administration, and Maintenance (OAM) statements for connectivity fault management (IEEE 802.1ag) to provide on-demand measurements of frame delay and frame delay variation (jitter). You configure the feature under the **[edit protocols oam ethernet connectivity-fault-management]** hierarchy.

Port Security

- **IPv6 access security (EX2200 and EX3300)**—Starting with Junos OS Release 14.1X53-D10, IPv6 access security is supported on EX2200 and EX3300 switches with the following features: DHCPv6 snooping, IPv6 Neighbor Discovery Inspection, IPv6 source guard, and RA guard. DHCPv6 snooping enables a switch to process DHCPv6 messages between a client and a server and build a database of the IPv6 addresses assigned to the DHCPv6 clients. The switch can use this database, also known as the binding table, to stop malicious traffic. DHCPv6 includes the relay agent Remote-ID option, also known as Option 37, to optionally append additional information to the messages sent by the client towards the server. This information can be used by the server to assign addresses and configuration parameters to the client. IPv6 Neighbor Discovery inspection analyzes neighbor discovery messages, sent between IPv6 nodes on the same link, and verifies them against the DHCPv6 binding table. IPv6 source guard inspects all IPv6 traffic from the client and verifies the source IPv6 address and source MAC address against the entries in the DHCPv6 binding table. If no match is found, the traffic is dropped. RA guard examines incoming Router Advertisement (RA) messages and decides whether to forward or block them based on statically configured IPv6/MAC address bindings. If the content of the RA message does not match the bindings, the message is dropped.

You configure DHCPv6 snooping, IPv6 Neighbor Discovery Inspection, and IPv6 source guard at the **[edit ethernet-switching-options secure-access-port vlan *vlan-name*]** hierarchy level. You configure RA guard at the **[edit ethernet-switching-options secure-access-port interface *interface-name*]** hierarchy level.

[See [Port Security Overview](#).]

Related Documentation

- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)

- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

Changes in Behavior and Syntax

There are no changes in default behavior and syntax in Junos OS Release 14.1X53-D10 for EX Series switches.

Related Documentation

- [New and Changed Features on page 3](#)
- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)
- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

Known Behavior

The following are changes in known behavior in Junos OS Release 14.1X53-D10 for the EX Series.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online [Junos Problem Report Search](#) application.

- [J-Web](#)

J-Web

- In the J-Web interface, you cannot commit some configuration changes in the Ports Configuration page or the VLAN Configuration page because of the following limitations for port-mirroring ports and port-mirroring VLANs:
 - A port configured as the output port for an analyzer cannot be a member of any VLAN other than the default VLAN.
 - A VLAN configured to receive analyzer output can be associated with only one interface.

This is a known software limitation. [PR400814](#)

- In the J-Web interface for EX4500 switches, the Ports Configuration page (Configure > Interfaces > Ports), the Port Security Configuration page (Configure > Security > Port Security), and the Filters Configuration page (Configure > Security > Filters) display features that are not supported on EX4500 switches. This is a known software limitation. [PR525671](#)

- The J-Web interface does not support role-based access control; it supports only users in the super-user authorization class. So a user who is not in the super-user class, such as a user with view-only permission, is able to launch the J-Web interface and is allowed to configure everything, but the configuration fails on the switch, and the switch displays access permission errors. This is a known software limitation. [PR604595](#)

Related Documentation

- [New and Changed Features on page 3](#)
- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)
- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

Known Issues

This section lists the known issues in hardware and software in Junos OS Release 14.1X53-D10 for the EX Series.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online [Junos Problem Report Search](#) application.

- [Class of Service](#)
- [Interfaces and Chassis](#)
- [J-Web](#)
- [Layer 3 Protocols](#)
- [Network Management and Monitoring](#)
- [Port Security](#)

[Class of Service](#)

- On EX4550 switches, 128-byte packets are dropped if the CPU is at 97 percent load or greater. Packets of different sizes are not dropped under these conditions. [PR862767](#)

[Interfaces and Chassis](#)

- On EX Series switches, if you configure an IPv4 GRE interface on an IPv6 interface, the GRE tunnel might not work properly. In this case, traffic is not forwarded through the tunnel. [PR1008157](#)

[J-Web](#)

- In the **Maintain > Update J-Web** page, **Select Application package > Update J-Web > local file** does not work in Microsoft IE9 and later releases, due to default security options set on IE9 and later releases. As a workaround, increase the security level:

Method 1:

1. Navigate to **Internet Options > Security**.
2. Select the zone **Local intranet**.
3. Click the custom level button.
4. Disable the option **Include local directory Path when uploading file to the server** in the **Settings > miscellaneous** section.
5. Repeat Steps 3 and 4 for the zone **Internet**.

Method 2:

- Navigate to **Internet Options > Security > Custom level...** and set **Reset custom settings** to **Medium-High** or **High**. This automatically disables the option **Include local directory Path when uploading file to the server** under the **Settings > miscellaneous** section.

[PR1029736](#)

Layer 3 Protocols

- On EX3300 switches, when there are multiple open Telnet or SSH sessions, the switch could become unresponsive. [PR1029340](#)

Network Management and Monitoring

- On EX2200 switches, remote MEP flaps might occur every 30 to 200 seconds due to processing delays and lead to iterator delay measurement statistic resets. All delay system measurements remain valid when this issue is experienced. As a workaround, use an iterator count of less than 30. [PR1005819](#)

Port Security

- When DHCP snooping is enabled and when 1000 IPv4 and 500 IPv6 DHCP bindings happen simultaneously, the software forwarding daemon (sfid) might create a core file. There could be a traffic impact due to the core file's creation. [PR1019136](#)
- Static IPv6 snooping can be configured but does not take effect. [PR1028544](#)

Related Documentation

- [New and Changed Features on page 3](#)
- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)
- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

Documentation Updates

There are no errata or changes in Junos OS Release 14.1X53-D10 for the EX Series switches documentation.

Related Documentation

- [New and Changed Features on page 3](#)
- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)
- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

Migration, Upgrade, and Downgrade Instructions

This section contains upgrade and downgrade policies for Junos OS for the EX Series. Upgrading or downgrading Junos OS can take several hours, depending on the size and configuration of the network.

For information on software installation and upgrade, see the [Installation and Upgrade Guide](#).

- [Upgrade and Downgrade Support Policy for Junos OS Releases on page 12](#)

Upgrade and Downgrade Support Policy for Junos OS Releases

Support for upgrades and downgrades that span more than three Junos OS releases at a time is not provided, except for releases that are designated as Extended End-of-Life (EEOL) releases. EEOL releases provide direct upgrade and downgrade paths—you can upgrade directly from one EEOL release to the next EEOL release, even though EEOL releases generally occur in increments beyond three releases.

You can upgrade or downgrade to the EEOL release that occurs directly before or after the currently installed EEOL release, or to two EEOL releases before or after. For example, Junos OS Releases 10.0, 10.4, and 11.4 are EEOL releases. You can upgrade from Junos OS Release 10.0 to Release 10.4 or even from Junos OS Release 10.0 to Release 11.4. However, you cannot upgrade directly from a non-EEOL release that is more than three releases ahead or behind. For example, you cannot directly upgrade from Junos OS Release 10.3 (a non-EEOL release) to Junos OS Release 11.4 or directly downgrade from Junos OS Release 11.4 to Junos OS Release 10.3.

To upgrade or downgrade from a non-EEOL release to a release more than three releases before or after, first upgrade to the next EEOL release and then upgrade or downgrade from that EEOL release to your target release.

For more information about EEOL releases and to review a list of EEOL releases, see <http://www.juniper.net/support/eol/junos.html>.

For information on software installation and upgrade, see the [Installation and Upgrade Guide](#).

**Related
Documentation**

- [New and Changed Features on page 3](#)
- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)
- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

Product Compatibility

- [Hardware Compatibility on page 13](#)

Hardware Compatibility

To obtain information about the components that are supported on the devices, and special compatibility guidelines with the release, see the Hardware Guide for the product.

To determine the features supported on EX Series switches in this release, use the Juniper Networks Feature Explorer, a Web-based application that helps you to explore and compare Junos OS feature information to find the right software release and hardware platform for your network. Find Feature Explorer at:

<http://pathfinder.juniper.net/feature-explorer/>

**Related
Documentation**

- [New and Changed Features on page 3](#)
- [Changes in Behavior and Syntax on page 9](#)
- [Known Behavior on page 9](#)
- [Known Issues on page 10](#)
- [Documentation Updates on page 12](#)
- [Migration, Upgrade, and Downgrade Instructions on page 12](#)
- [Product Compatibility on page 13](#)

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:

<http://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:

<http://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:

<http://www.juniper.net/techpubs/content-applications/content-explorer/>.

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 at the Juniper Networks Technical Documentation 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 <https://www.juniper.net/cgi-bin/docbugreport/>.
- **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 JNASC support contract, or are covered under warranty, and need postsales 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/customers/support/downloads/710059.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 located at <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, visit us at <http://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/cgi-bin/docbugreport/>.

Revision History

29 September 2014—Revision 1, Junos OS for the EX Series, Release 14.1X53-D10

Copyright © 2014, 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.