Release Notes: J-Web Application Package Release 14.1X53-A1 for Juniper Networks EX Series Ethernet Switches

Release 14.1X53-A1
29 September 2014
Revision 1

Contents

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Overview

Juniper Networks EX Series Ethernet Switches are shipped with the Juniper Networks Junos operating system (Junos OS) installed.

Junos OS has the following primary user interfaces:

- Juniper Web Device Manager (J-Web) GUI
- Junos OS CLI

You can use these interfaces to access, configure, and manage your EX Series switch.

This topic provides an overview of the newly re-designed J-Web interface. For information about the CLI, see *CLI User Interface Overview*.

Supported EX Series switches

In Junos OS Release 14.1X53-D10, the J-Web interface supports EX2200, EX3200, EX3300, EX4200, EX4300, EX4500, EX4550, and EX6200 switches.

New Features for J-Web

New Distribution Model

For Junos OS Release 14.1X53-D10 and later, the J-Web interface is available in two packages:

- Platform package—Provides basic features of J-Web and is installed as part of Junos OS.
- Application package—Provides complete features of J-Web and is an installable package.

Platform Package

The Platform package of J-Web is installed as part of Junos OS that is shipped with your EX Series switch. The Platform package provides the basic features of the J-Web interface. The Platform package enables you to configure and maintain your switch.

Application Package

The Application package is not installed by default on your switch. You must download it and install it over the Platform package on your switch. The Application package provides all the features of the J-Web interface that enable you to configure, monitor, maintain, and troubleshoot your switch.

For information about installing the Application package, see Upgrading to J-Web Application Package on page 5.

The Platform package, which is installed as part of the Junos OS that is shipped with your switch, follows the Junos OS release cycle. However, the Application packages have their own release cycle which is independent of the Junos OS release cycle. This separate release cycle helps you get the latest features of J-Web by installing the latest version of the Application package, without waiting for Junos OS releases.

NOTE: The J-Web Application package is hot-pluggable. You can install it on top of the current Junos OS installation, and you need not reboot the switch after the installation.

NOTE: To determine which J-Web package you are currently using, click **Help > About**. The About window appears. If you are using a Platform package, only the Platform package details are displayed. If you are using an Application package, both the Platform package and Application package details are displayed.

If your current J-Web package is:	Then you can:
Platform package	Upgrade to the Application package.
Application package	Update to a latest version of the Application package available on the Juniper Networks server that is compatible with the Junos OS on your switch.
	NOTE: If you upgrade Junos OS on your switch, the current J-Web package is replaced with the J-Web Platform package that is associated with the upgraded Junos OS release. You can then install the latest Application package that is associated with the main release of the upgraded Junos OS, over the Platform package.

Release Compatibility

The Application packages of J-Web have their own release cycles (A1, A2, A3, and so on), which are independent of the Junos OS release cycle. An Application package is compatible only with the corresponding major release of Junos OS.

For example, the compatibility is as follows:

- Application package 14.1X53-A1 is compatible with all Junos OS Release 14.1X53-D*<x>* where *x* is 10, 15, 20, and so on.

- Application package 15.1A1 is compatible with all Junos OS Release 15.1R*<x>*, where *x* is 1, 2, 3, and so on.

The illustrates the example of the release compatibility.

Table 1: J-Web Release Compatibility Matrix

Junos OS Release	Associated J-Web Application Package Release
14.1X53-D10	Application package 14.1X53-A1
	Application package 14.1X53-A2
	Application package 14.1X53-A3
15.1R1	Application package 15.1A1
	Application package 15.1A2
	Application package 15.1A3

Any available later version of the Application package for a Junos OS release supersedes the earlier version. Thus, if Application package version 15.1A2 is available, it will supersede version 15.1A1. We recommend that you install the latest available version of the Application package.

New Features

Auto Update

The J-Web auto update feature automatically checks the Juniper Networks server for the latest update of the Application package each time you log in to J-Web. You can choose for J-Web to download the latest update and install it on your switch. Alternately, you can download it to your computer or remote server and install it on your switch.

For information about installation, see Table 2 on page 6.

Manual Update

The J-Web manual update feature enables you to manually check the Juniper Network server for the latest update of the Application package. by using the J-Web interface. You can choose for J-Web to download the latest update and install it on your switch, or you can download it to your computer or remote server and install it on your switch.

For information about installation, see Table 2 on page 6.

You can use the auto update and manual update features in the following scenarios:

- When your switch has the Platform package installed and does not have the Application package, you can upgrade to the Application package.

- When your switch has an earlier version Application package installed, and the latest version of the Application package is available on the Juniper Networks server, you can update to the latest version of the Application package.

Upgrading to J-Web Application Package

There are three ways in which you can download and install the J-Web Application package:

- Auto update

- Manual update

- CLI procedure

There is a prescribed order for the installation tasks for updating to the Application package from an earlier version or from the Platform package. See Table 2 on page 6 to determine the prescribed order of tasks for your installation.

Table 2: Installation Outline

Mode of Installation	Installation Outline
Auto update	To *automatically* check and install the latest version of the J-Web Application package: 1. Click **Update Now** in the Update Available window that appears when you log in to the J-Web interface. NOTE: • The Update Available window appears only if there is a latest update available on the Juniper Networks server. • For the Update Available window to appear when you log in, the *Check for updates automatically on every login* in the Update Preference section in the *Maintain > Update J-Web* side pane must be selected. • If you choose *Update Later*, you can update to the latest J-Web Application package by clicking the orange icon next to *Update Available* on the top pane of the J-Web interface or through *Maintain > Update J-Web*. 2. If the switch is connected to the Internet, the Update J-Web window appears. Enter the authentication details and click **Update**. The Application package downloads and installs on the switch. If the switch is not connected to the Internet and your computer is connected to the Internet, download the latest version of the J-Web Application package to your computer and install it on your switch. Click **Download Application Package** in the Update J-Web window, enter authentication details, download the file to your computer, select the file, and click **Update**. NOTE: You can also download the file to your computer and update it on the switch later by clicking *Select Application Package* and selecting the location where the package is located.
Manual Update	To *manually* check and install the latest J-Web Application package: 1. Check for updates manually. Go to **Maintain > Update J-Web** in the side pane, and click **Check for updates**. If there is a latest update available on the Juniper Networks server, the Update Available window appears. 2. Click **Update Now** in the Update Available window. 3. If the switch is connected to the Internet, the Update J-Web window appears. Enter the authentication details and click **Update**. The J-Web Application package downloads and installs on the switch. If the switch is not connected to the Internet and your computer is connected to the Internet, download the latest version of the J-Web Application package to your local computer and install it on your switch. Click **Download Application Package** in the Update J-Web window, enter authentication details, download the file to your local system, select the file, and click **Update**. NOTE: You can also download the file to your computer and update it on the switch later by clicking *Select Application Package* and selecting the downloaded package location.

Table 2: Installation Outline *(continued)*

Mode of Installation	Installation Outline
CLI Procedure	1. Download the J-Web Application package and save it in the switch.
	2. Log in to the CLI and enter the operational mode.
	3. Install the package using the CLI command **request system software add** *<application package file name>*.

Software Compatibility

To access the J-Web interface for the switch, your management device requires the following software:

- Supported browsers— Microsoft Internet Explorer versions 9 or 10, Mozilla Firefox version 24 through 30, and Google Chrome version 27 through 36.

> TIP: **We recommended a screen resolution of 1440 X 900 pixels.**

- Language support—English-version browsers

Known Limitations

This section lists the known limitations in J-Web:

- For EX Series switches, in the J-Web interface, the username field on the Login screen does not accept HTML tags or the **< and >** characters. The following error message appears: **A username cannot include certain characters, including < and >**.

- When you use an HTTPS connection in the Microsoft Internet Explorer browser to save a report from certain pages in the J-Web interface, the error message **Internet Explorer was not able to open the Internet site** is displayed. This problem occurs because the **Cache-Control: no cache HTTP header** is added on the server side, and Internet Explorer does not allow you to download the encrypted file with the **Cache-Control: no cache HTTP header** set in the response from the server.

  As a workaround, refer to Microsoft Knowledge Base article 323308, which is available at *http://support.microsoft.com/kb/323308*. Alternatively, use HTTP in the Internet Explorer browser or use HTTPS in the Mozilla Firefox browser to save a file from one of these pages.

Known Issues

This following are known issues in J-Web Application package Release 14.1X53-A1.

PR Number	Problem Description

PR Number	Problem Description
994915	In the **Monitor > Interface** page, the background color of the graph changes after refresh. Workaround: Not required as it will not affect any functionality.
1006208	J-Web software does not compare for appropriateness of the Application package or restrict you from installing inappropriate Application package on top of a Platform or Application package. Workaround: Install the appropriate J-Web package.
915069	The J-Web interface does not display CLI generated certificates in the Certificate section in the Management Access Configuration page (Configure > System Properties > Management Access). Using J-Web interface you cannot create or edit certificates. Workaround: Use the CLI interface for accessing certificate related configurations.
1026308	If you uninstall the J-Web Platform package by using CLI, reinstalling the Application package will not restore J-Web. Workaround: Reinstall Junos OS software.
911551	On an EX3300 switch, if you use the J-Web user interface to request support information for all members at the same time, the switch might not be able to retrieve the information. Workaround: Request support information for each member one at a time.
959505	On EX4300 switches, the structured data format for system log messages is not supported in the J-Web interface. If system log messages are configured to be written in structured data, the event logs in J-Web will not be populated, and you will not be able to view them using **Monitor > Events** and **Alarms > View Events**. Workaround: Use the **show log** operational mode command for viewing structured-data format files.
400814	• 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. Workaround: None.
425693	In the J-Web interface, the Ethernet Switching Monitor page (**Monitor > Switching > Ethernet Switching**) might not display monitoring details if the switch has more than 13,000 MAC entries. This is a known software limitation.
525671	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.

PR Number	Problem Description
604595	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.
707671	In mixed EX4200 and EX4500 Virtual Chassis, the J-Web interface does not list the features supported by the backup or linecard members . Instead, it lists only the features supported by the master. This is a known software limitation.
777372	If a Virtual Chassis contains more than six members, the Support Information page (**Maintain > Customer Support > Support information**) might not load. This is a known software limitation.
1029736	• 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.

Related Documentation

- *Connecting and Configuring an EX Series Switch (J-Web Procedure)*

- *EX Series Switch Software Features Overview*

- *CLI User Interface Overview*