

# Release Notes: J-Web Application Package Release 21.1A1 for EX2300, EX2300-C, EX2300-MP, EX3400, EX4300, EX4300-MP, EX4600, and EX4650 Switches

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# Introduction

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 21.1A1, the J-Web interface supports EX4650 switches as standalone switches, EX2300, EX2300-C, EX2300-MP, EX3400, EX4300, EX4300-MP, and EX4600 switches which are supported from earlier releases.

**NOTE:** You cannot connect to and perform initial configuration of EX4600 and EX4650 switches by using the EZSetup procedure from the J-Web interface; you must use EZSetup from the switch console.

To obtain more information about the components that are supported on each switch, and the special compatibility guidelines for the release, see the Hardware Guide for the switch.

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

# New Distribution Model

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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 all features of J-Web and is a separately 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 7](#).

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.

[Table 1 on page 4](#) lists the release compatibility.

**Table 1: J-Web Release Compatibility Matrix**

Junos OS Release	Associated J-Web Application Package Release
14.1X53-D10 through 14.1X53-D46	Application package 14.1X53-A2
14.1X53-D47 and later	Application package 14.1X53-A3
15.1R1	Application package 15.1A1
15.1R3	Application package 15.1A2 Application package 15.1A3

Table 1: J-Web Release Compatibility Matrix (*continued*)

Junos OS Release	Associated J-Web Application Package Release
15.1X53-D50	Application package 15.1X53-A1  <b>NOTE:</b> This release is only for EX2300, EX2300-C, and EX3400 switches.
16.1R1	Application package 16.1A1
17.1R1	Application package 17.1A1
17.2R1	Application package 17.2A1
17.3R1	Application package 17.3A1
15.1X53-D57	Application package 15.1X53-A2
17.4R1	Application package 17.4A1
18.1R1	Application package 18.1A1
18.1R2	Application package 18.1A2
18.2R1	Application package 18.2A1
18.2R1 and later and all service releases of 18.2R1 and later	Application package 18.2A2
18.3R1	Application package 18.3A1
18.4R1	Application package 18.4A1
18.4R1 and later and all service releases of 18.4R1 and later	Application package 18.4A2
19.1R1	Application package 19.1A1
19.2R1	Application package 19.2A1
19.3R1	Application package 19.3A1
19.3R1 and later and all service releases of 19.3R1 and later	Application package 19.3A2

Table 1: J-Web Release Compatibility Matrix (*continued*)

Junos OS Release	Associated J-Web Application Package Release
19.4R1	Application package 19.4A1
20.1R1	Application package 20.1A1
20.2R1	Application package 20.2A1
20.3R1	Application package 20.3A1
20.4R1	Application package 20.4A1
21.1R1	Application package 21.1A1

Any available later version of the Application package for a Junos OS release supersedes the earlier version. We recommend that you install the latest available version of the Application package.

For more information about J-Web packages, see [J-Web for EX Series Ethernet Switches](#).

## New and Changed Features

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- [What's New in J-Web Application Package Release 21.1A1 | 6](#)
- [Upgrading to J-Web Application Package | 7](#)
- [Software Compatibility | 7](#)

This section describes the features and enhancements in J-Web Application Package Release 21.1A1.

### What's New in J-Web Application Package Release 21.1A1

J-Web Application package releases support the EX4650 switches as standalone switches, EX2300, EX2300-C, EX2300-MP, EX3400, EX4300, EX4300-MP, and EX4600 switches which are supported from earlier releases.

**NOTE:** You cannot connect to and perform initial configuration of EX4600 and EX4650 switches by using the EZSetup procedure from the J-Web interface; you must use EZSetup from the switch console.

## Upgrading to J-Web Application Package

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

- 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 7](#) to determine the prescribed order of tasks for your installation.

**Table 2: Installation Outline**

Mode of Installation	Installation Outline
Manual Update	<p>To <i>manually</i> check and install the latest J-Web Application package:</p> <ol style="list-style-type: none"> <li>1. Go to <b>Maintain &gt; Update J-Web</b> in the side pane, and click <b>Select Application Package</b>.</li> <li>2. Select <b>Local File</b> in the Update J-Web window, enter authentication details, download the file to your local system, select the file, and click <b>Update</b>.</li> </ol>
CLI Procedure	<ol style="list-style-type: none"> <li>1. Download the J-Web Application package and save it in the switch.</li> <li>2. Log in to the CLI and enter the operational mode.</li> <li>3. Install the package using the CLI command <b>request system software add</b> <i>&lt;application package file name&gt;</i>.</li> </ol>

## 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 38, and Google Chrome version 27 through 43.

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

- Language support—English-version browsers.

## Known Issues and Limitations

This section lists the known issues in the J-Web Application package Release 21.1A1.

### Known Issues

[Table 3 on page 9](#) lists the PR numbers and its description that are known issues in the J-Web Application package Release 21.1A1.



Table 3: Known Issues

PR Number	Problem Description
NA	<p>Adobe Flash Player support ended on December 31, 2020. Therefore:</p> <ul style="list-style-type: none"> <li>• For Junos OS Release 20.3R1 and earlier releases, the following pages will not load correctly: <ul style="list-style-type: none"> <li>• Monitor &gt; System View &gt; Process Details</li> <li>• Monitor &gt; Interfaces</li> <li>• Monitor &gt; Power over Ethernet</li> <li>• Monitor &gt; Service &gt; DHCP &gt; Server</li> <li>• Monitor &gt; Service- &gt; DHCP &gt; Relay</li> <li>• Monitor &gt; Switching &gt; IGMP Snooping</li> <li>• Monitor &gt; Virtual Chassis</li> <li>• Monitor &gt; Security &gt; Port Security</li> <li>• Monitor &gt; Routing &gt; OSPF Information</li> </ul> </li> <li>• For Junos OS Release 20.4R1 and later releases, the following pages will not be supported: <ul style="list-style-type: none"> <li>• Monitor &gt; System View &gt; Process Details</li> <li>• Monitor &gt; Power over Ethernet</li> <li>• Monitor &gt; Service- &gt; DHCP &gt; Relay</li> <li>• Monitor &gt; Switching &gt; IGMP Snooping</li> <li>• Monitor &gt; Virtual Chassis</li> <li>• Monitor &gt; Security &gt; Port Security</li> <li>• Monitor &gt; Routing &gt; OSPF Information</li> </ul> </li> <li>• For Junos OS Release 20.4R1 and later releases, the following pages will be supported. However, the Flash components are removed. <ul style="list-style-type: none"> <li>• Monitor &gt; Interfaces</li> <li>• Monitor &gt; Service &gt; DHCP &gt; Server</li> </ul> </li> </ul>
959505	<p>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 is not populated, and you are unable to view them using <b>Monitor &gt; Events</b> and <b>Alarms &gt; View Events</b>.</p> <p>Workaround: Use the <b>show log</b> operational mode command for viewing structured-data format files.</p>

Table 3: Known Issues (*continued*)

PR Number	Problem Description
1029736	<ul style="list-style-type: none"> <li>In the <b>Maintain &gt; Update J-Web</b> page, Select <b>Application package &gt; Update J-Web</b>, local file does not work in Microsoft IE9 and later releases, because of the default security options set on these browsers. As a workaround, increase the security level:</li> </ul> <p>Method 1:</p> <ol style="list-style-type: none"> <li>1. Navigate to <b>Internet Options &gt; Security</b>.</li> <li>2. Select the zone <b>Local intranet</b>.</li> <li>3. Click the <b>custom level</b> button.</li> <li>4. Disable the option <b>Include local directory Path when uploading file to the server</b> in the <b>Settings &gt; miscellaneous</b> section.</li> <li>5. Repeat Step 3 and Step 4 for the zone <b>Internet</b>.</li> </ol> <p>Method 2:</p> <ul style="list-style-type: none"> <li>Navigate to <b>Internet Options &gt; Security &gt; Custom level...</b> and set <b>Reset custom settings</b> to <b>Medium-High</b> or <b>High</b>. This automatically disables the option <i>Include local directory Path when uploading file to the server</i> under <b>Settings &gt; miscellaneous</b> section.</li> </ul>

### Known Limitations

[Table 4 on page 11](#) lists the PR numbers and its description that are known limitations in the J-Web Application package Release 21.1A1.

Table 4: Known Limitations

PR Number	Problem Description
1513612	<p>For Junos OS release 18.X and 19.X and its service releases, the auto update option is not supported.</p> <p>Where X is R1, R2, R3, and R4.</p> <p><b>NOTE:</b> To disable the auto update information, go to <b>Maintain &gt; Update J-Web</b> page and clear the <b>Check for updates automatically on every login</b> check box under Update Preference.</p> <p>To <i>manually</i> check and install the latest J-Web Application package:</p> <ol style="list-style-type: none"> <li>1. Go to <b>Maintain &gt; Update J-Web</b> in the side pane, and click <b>Select Application Package</b>.</li> <li>2. Select <b>Local File</b> in the Update J-Web window, enter authentication details, download the file to your local system, select the file, and click <b>Update</b>.</li> </ol>
777372	<p>If a Virtual Chassis contains more than six members, the Support Information page (<b>Maintain &gt; Customer Support &gt; Support information</b>) might not load. This is a known software limitation.</p>
604595	<p>The J-Web interface does not support role-based access control; it supports only users in the super-user authorization class. Therefore, a user who is not in the superuser 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 configurations fail on commit, and the switch displays access permission errors. This is a known software limitation.</p>
1026308	<p>If you uninstall the J-Web Platform package by using CLI, reinstalling the Application package will not restore J-Web.</p> <p>Workaround: Reinstall Junos OS software.</p>
1006208	<p>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.</p> <p>Workaround: Install the appropriate J-Web package.</p>
915069	<p>The J-Web interface does not display CLI generated certificates in the Certificate section in the Management Access Configuration page (<b>Configure &gt; System Properties &gt; Management Access</b>). Using J-Web interface you cannot create or edit certificates.</p> <p>Workaround: Use the CLI interface for accessing certificate related configurations.</p>

Table 4: Known Limitations (*continued*)

PR Number	Problem Description
400814	<ul style="list-style-type: none"> <li>• 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:               <ul style="list-style-type: none"> <li>• A port configured as the output port for an analyzer cannot be a member of any VLAN other than the default VLAN.</li> <li>• A VLAN configured to receive analyzer output can be associated with only one interface.</li> </ul> </li> </ul> <p>This is a known software limitation.</p> <p>Workaround: None.</p>
425693	<p>In the J-Web interface, the Ethernet Switching Monitor page (<b>Monitor &gt; Switching &gt; Ethernet Switching</b>) might not display monitoring details if the switch has more than 13,000 MAC entries. This is a known software limitation.</p>
866976	<p>When you try to commit your changes to the switch from your laptop by using the EZsetup procedure, the status of the commit operation is displayed as <b>Success</b>, even if the laptop is disconnected from the switch.</p> <p>Workaround: Reconnect your laptop to the switch and commit the changes again.</p>

## SEE ALSO

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[Connecting and Configuring an EX Series Switch \(J-Web Procedure\)](#)


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[EX Series Switch Software Features Overview](#)


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[CLI User Interface Overview](#)