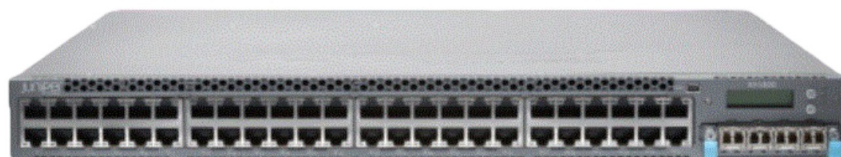


Contents [[hide](#)]

- [1 Juniper Networks EX Series Ethernet Switches](#)
- [2 Introduction](#)
- [3 Supported EX Series Switches](#)
- [4 Distribution Model](#)
- [5 New and Changed Features](#)
- [6 Software Compatibility](#)
- [7 Known Issues and Limitations](#)
- [8 FAQ](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)

JUNIPER®

Juniper Networks EX Series Ethernet Switches



Specifications

- **Supported Models:** EX2300, EX2300-C, EX2300-MP,
 - EX3400, EX4100, EX4100-F, EX4300-48MP, EX4400, EX4400-24X, and the
 - EX4400-EM-1C uplink module for EX4400 and EX4400-24X switches

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.

RELATED DOCUMENTATION

Supported EX Series Switches | 1

Supported EX Series Switches

In J-Web Application Package 23.2A3 which aligns with Junos OS Release 23.2R2, the J-Web interface supports the following models: EX2300, EX2300-C, EX2300-MP, EX3400, EX4100, EX4100-F, EX4300-48MP, EX4400, EX4400-24X, and the EX4400-EM-1C uplink module for EX4400 and EX4400-24X switches, which were also supported in earlier releases.

NOTE: You cannot connect to and perform initial configuration of the 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://apps.juniper.net/feature-explorer/>.

RELATED DOCUMENTATION

Distribution Model | 2

Distribution Model

IN THIS SECTION

Release Compatibility | 3

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.

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**— Provides all features of J-Web and is a separately installable 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 Upgrading to J-Web Application Package.
- 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.

- 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
21.4R1	Application package 21.4A1
22.2R1	Application package 22.2A1

22.4R1	Application package 22.4A1
23.2R1	Application package 23.2A1
23.2R1	Application package 23.2A2
23.2R2	Application package 23.2A3

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.

RELATED DOCUMENTATION

New and Changed Features | 4

New and Changed Features

IN THIS SECTION

- What's New in J-Web Application Package Release 23.2A3 | 5
- Upgrading to J-Web Application Package | 5
- Software Compatibility | 6

This section describes the features and enhancements in J-Web Application Package Release 23.2A3.

What's New in J-Web Application Package Release 23.2A3

In J-Web Application Package 23.2A3 which aligns with Junos OS Release 23.2R2, the J-Web interface supports the following models: EX2300, EX2300-C, EX2300-MP, EX3400, EX4100, EX4100-F, EX4300-48MP, EX4400, EX4400-24X, and the EX4400-EM-1C uplink module for EX4400 and EX4400-24X switches, which were also supported in earlier releases.

NOTE: You cannot connect to and perform initial configuration of the 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 6 to determine the prescribed order of tasks for your installation.

Table 2: Installation Outline

Mode of Installation	Installation Outline
Manual Update	<p>To manually check and install the latest J-Web Application package:</p> <ol style="list-style-type: none">1. Go to Maintain > Update J-Web in the side pane, and click Select Application Package.2. Select Local File in the Update J-Web window, enter authentication details download the file to your local system, select the file, and click Update.
CLI Procedure	<ol style="list-style-type: none">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 and request system software add <i><application package file name></i>.

Software Compatibility

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

- Supported browsers—Mozilla Firefox and Google Chrome.

NOTE:

- We recommended a screen resolution of 1440 X 900 pixels.
- Microsoft ended Internet Explorer support in June 2022. Therefore, starting with Junos OS Release 22.4R1 or later, J-Web user interface is not supported in Internet Explorer.
- Language support—English-version browsers.

RELATED DOCUMENTATION

Known Issues and Limitations | 7

Known Issues and Limitations

IN THIS SECTION

- Known Issues | 7
- Known Limitations | 10

This section lists the known issues in the J-Web Application package Release 23.2A3.

Known Issues

Table 3 on page 8 lists the PR numbers and its description that are known issues in the J-Web Application package Release 23.2A3.

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"> • For Junos OS Release 20.3R1 and earlier releases, the following pages will not load correctly: • Monitor > System View > Process Details • Monitor > Interfaces • Monitor > Power over Ethernet • Monitor > Service > DHCP > Server • Monitor > Service- > DHCP > Relay • Monitor > Switching > IGMP Snooping • Monitor > Virtual Chassis • Monitor > Security > Port Security • Monitor > Routing > OSPF Information • For Junos OS Release 20.4R1 and later releases, the following pages will not be supported: • Monitor > System View > Process Details • Monitor > Power over Ethernet • Monitor > Service- > DHCP > Relay • Monitor > Switching > IGMP Snooping • Monitor > Virtual Chassis • Monitor > Security > Port Security • Monitor > Routing > OSPF Information
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PR Number	Problem Description
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	<ul style="list-style-type: none"> • For Junos OS Release 20.4R1 and later releases, the following pages will be supported. However, the Flash components are removed. • Monitor > Interfaces • Monitor > Service > DHCP > Server
1029736	<p>In the Maintain > Update J-Web page, Select Application package > Update J-Web, 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:</p> <p>Method 1:</p> <ol style="list-style-type: none"> 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 Step 3 and Step 4 for the zone Internet. <p>Method 2:</p> <p>Navigate to Internet Options > Security > Custom level... and set Reset custom settings to Medium-High or High. This automatically disables the option <i>Include local directory Path when uploading file to the server</i> under Settings > miscellaneous section.</p>

1810275	For Junos OS Release 23.2A2, in J-Web, we've deprecated the feature to Install Junos OS Upgrade package from a remote server, which was available at Maintain > Update Junos.
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Known Limitations

Table 4 on page 10 lists the PR numbers and its description that are known limitations in the J-Web Application package Release 23.2A3.

Table 4: Known Limitations

PR Number	Problem Description
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.
604595	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.

1026308	<ul style="list-style-type: none"> • 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.
1006208	<ul style="list-style-type: none"> • 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.

PR Number	Problem Description
915069	<ul style="list-style-type: none"> • 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.

400814	<ul style="list-style-type: none"> • 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	<p>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.</p>
866976	<ul style="list-style-type: none"> • 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 Success, even if the laptop is disconnected from the switch. • Workaround: Reconnect your laptop to the switch and commit the changes again.

RELATED DOCUMENTATION

New and Changed Features | 4


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FAQ

Q: Can I use the J-Web interface to configure EX4650 switches?

A: No, you must use the switch console for initial configuration of EX4650 switches as EZSetup is not supported via J-Web interface for this model.

Documents / Resources

	Juniper Networks EX Series Ethernet Switches [pdf] Instruction Manual EX2300, EX2300-C, EX2300-MP, EX3400, EX4100, EX4100-F, EX4300-48MP, EX4400, EX4400-24X, EX4400-EM-1C, EX Series Ethernet Switches, EX Series, Ethernet Switches, Switches
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References

- [User Manual](#)

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NETWORKS

Ethernet Switches, EX Series, EX Series Ethernet Switches, EX2300, EX2300-C, EX2300-MP, EX3400, EX4100, EX4100-F, EX4300-48MP, EX4400, EX4400-24X, EX4400-EM-1C, JUNIPER NETWORKS, Switches

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