

# Release Notes

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## Release Notes 24.1

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# Introduction

Junos Space is a comprehensive network management solution that simplifies and automates management of Juniper Networks switching, routing, and security devices.

Junos Space Management Applications optimize network management by extending the breadth of the Junos Space solution for various domains in service provider and enterprise environments.

These release notes accompany Junos Space Network Management Platform Release 24.1R1, R2 and R3.



**NOTE:** The terms Junos Space Network Management Platform and Junos Space Platform are used interchangeably in this document.

## New and Changed Features

### New and Changed Features in Junos Space Network Management Platform Release 24.1R1

Junos Space® Network Management Platform Release 24.1R1 supports the following enhancements:

- We've upgraded the Junos Space host Linux OS to Rocky Linux 9.2. For more details, see [Upgrading to Junos Space Network Management Platform Release 24.1R1](#).
- Starting in Junos Space Network Management Platform Release 24.1R1, we've upgraded to MySQL v8.

- Support for SRX1600 firewall—Starting in Junos Space Network Management Platform Release Hot Patch 23.1R1, we provide support for SRX1600 firewall.
- Support for SRX2300 firewall—Starting in Junos Space Network Management Platform Release Hot Patch 23.1R1, we provide support for SRX2300 firewall.
- Support for insert command in Quick template—Starting in Junos Space Network Management Platform Release 24.1R1, we provide support for the insert command in an existing Quick template. You can use the insert command in any order or in a combination of set, insert, and delete commands.

However, the insert command supports only the after keyword.

- Decoupling of OpenNMS from Junos Space Network Management Platform—Starting in Junos Space Network Management Platform Release 24.1R1:
  - We no longer include the network monitoring software OpenNMS with Junos Space Network Management Platform. You'll need to install OpenNMS on a separate server.

However, you can integrate OpenNMS with Junos Space Network Management Platform. The integration provides the following features:

- When you add or delete any device from Junos Space Network Management Platform, the device list gets updated on the OpenNMS database.
- You can set an SNMP v3 OpenNMS IP trap target on devices managed by Junos Space Network Management Platform.
- Enables manual synchronization to avoid any discrepancy between Junos Space Network Management Platform and OpenNMS.

For more details, see [Integration of OpenNMS with Junos Space Network Management Platform](#).

- We don't support Fault Monitoring and Performance Monitoring (FMPM) nodes.



**NOTE:** Junos Space Network Management Platform Release 24.1R1 supports only non- FIPS mode.

# New and Changed Features in Junos Space Network Management Platform Release 24.1R3

Junos Space® Network Management Platform Release 24.1R3 supports the following enhancements:

- Support for SRX4700 firewall—Starting in Junos Space Network Management Platform Release 24.1R3, we provide support for SRX4700 firewall.
- Configuration comparison using templates—Starting in Junos Space Network Management Platform Release 24.1R3, we provide support to compare device configurations against templates with variables. When you execute the Compare Template Against Device job successfully, the status indicates In Sync if the device and template configurations match. If they do not match, the status shows Out of Sync.

# New and Changed Features in Junos Space Network Management Platform Release 24.1R5

Junos Space® Network Management Platform Release 24.1R5 supports the following enhancements:

- Support for SSO in the DMI Schema and Hardware Catalog.
- Support for Network Director—Junos Space Network Management Platform 24.1 R5 includes support for Network Director 7.1R2.

## Installation Instructions

Junos Space Network Management Platform Release 24.1R1 can be installed on a Junos Space Virtual Appliance.



**CAUTION:** During the Junos Space Network Management Platform installation process, do not modify the filename of the software image that you download from the Juniper Networks support site. If you modify the filename, the installation fails.



**NOTE:** Junos Space Network Management Platform Release 24.1R2 is qualified and is compatible with Security Director Release 24.1R2.

For installation instructions for a Junos Space Virtual Appliance, see the [Junos Space Virtual Appliance](#)

[Deployment Overview](#) section of the [Junos Space Virtual Appliance Installation and Configuration Guide](#).

See No Link Title for more information about the hardware supported.

# Upgrade Instructions

This section provides information about upgrading the Junos Space Network Management Platform installations running versions earlier than Release 24.1R1.

- ["Supported Upgrade Path" on page 4](#)
- ["Upgrade Notes" on page 6](#)
- ["Instructions for Validating the Junos Space Network Management Platform OVA Image" on page 6](#)



**NOTE:** You can download the supported Junos Space Network Management Platform Applications such as Security Director and Policy Enforcer whenever they are available on the download site.

## Supported Upgrade Path

[Table 1 on page 4](#) provides information about the supported upgrade path across Junos Space Network Management Platform releases.

**Table 1: Supported Upgrade Path**

| Upgrade from Junos Space Release |      |      |      |      |      |      |
|----------------------------------|------|------|------|------|------|------|
| Junos Space Release              | 21.2 | 22.1 | 22.2 | 22.3 | 23.1 | 24.1 |

**Table 1: Supported Upgrade Path (Continued)**

| Upgrade from Junos Space Release |     |     |     |     |     |     |
|----------------------------------|-----|-----|-----|-----|-----|-----|
| 21.1                             | Yes | -   | -   | -   | -   | -   |
| 21.2                             | -   | Yes | -   | -   | -   | -   |
| 21.3                             | -   | Yes | Yes | -   | -   | -   |
| 22.1                             | -   | -   | Yes | Yes | -   | -   |
| 22.2                             | -   | -   | -   | Yes | Yes | -   |
| 22.3                             | -   | -   | -   | -   | Yes | -   |
| 23.1                             | -   | -   | -   | -   | -   | Yes |



**NOTE:** Before you upgrade Junos Space Platform to Release 24.1, ensure that the time on all Junos Space nodes is synchronized. For information about synchronizing time on Junos Space nodes, see [Synchronizing Time Across Junos Space Nodes](#).

You can upgrade to Junos Space Network Management Platform 24.1R1 from the following earlier release:

- Junos Space Network Management Platform Release 23.1R1.



**CAUTION:** During the Junos Space Network Management Platform upgrade process, do not modify the filename of the software image that you download from the Juniper Networks support site. If you modify the filename, the upgrade fails.

# Supported Upgrade Path for Junos Space Network Management Platform 24.1 Releases

The below table provides information about the supported upgrade paths for Junos Space Network Management Platform 24.1 Releases.

| Junos Space Network Management Platform Release | Supported Upgrade Path for Junos Space Platform Release 24.1 |        |        |        |        |
|-------------------------------------------------|--------------------------------------------------------------|--------|--------|--------|--------|
|                                                 | 24.1R1                                                       | 24.1R2 | 24.1R3 | 24.1R4 | 24.1R5 |
| 23.1R1                                          | Yes                                                          | -      | -      | -      | -      |
| 24.1R1                                          | -                                                            | Yes    | Yes    | Yes    | Yes    |
| 24.1R2                                          | -                                                            | -      | Yes    | -      | -      |
| 24.1R3                                          | -                                                            | -      | -      | Yes    | -      |
| 24.1R4                                          | -                                                            | -      | -      | -      | Yes    |

## Upgrade Notes

- Before the upgrade, ensure that the latest backups are available in a location other than the Junos Space server. For more information about backups, see [Backing Up the Junos Space Network Management Platform Database](#).
- To upgrade to Junos Space Network Management Platform Release 24.1R1, follow the procedure mentioned in [Upgrade to Junos Space Network Management Platform Release 24.1R1](#).
- During the upgrade process, do not manually reboot the nodes if the Junos Space user interface does not come up for an extended period of time. Contact the Juniper Networks Support team for help in resolving this issue.
- After you upgrade Junos Space Platform to Release 24.1R1, all previously installed applications are disabled until the applications are upgraded to a version compatible with Junos Space Platform 24.1R1. You must upgrade the applications to releases that are compatible with Junos Space Platform Release 24.1R1, by using the Junos Space Platform UI. For information about application versions compatible with Junos Space Platform 24.1R1, see [No Link Title](#).

## Instructions for Validating the Junos Space Network Management Platform OVA Image

From Junos Space Network Management Platform Release 14.1R1 onward, the Junos Space Platform open virtual appliance (OVA) image is securely signed.



**NOTE:**

- Validating the OVA image is optional; you can install or upgrade Junos Space Network Management Platform without validating the OVA image.
- Before you validate the OVA image, ensure that the PC on which you are performing the validation has the following utilities available: tar, openssl, and ovftool (VMWare Open Virtualization Format (OVF) Tool). You can download VMWare OVF Tool from the following location: <https://my.vmware.com/web/vmware/downloads/details?productId=353&downloadGroup=OVFTOOL351>.

To validate the Junos Space Network Management Platform OVA image:

1. Download the Junos Space Platform OVA image and the Juniper Networks Root CA certificate chain file (JuniperRootRSACA.pem) from the Junos Space Network Management Platform - Download Software page at <https://www.juniper.net/support/downloads/space.html>.



**NOTE:** You need to download the Juniper Networks Root CA certificate chain file only once; you can use the same file to validate OVA images for future releases of Junos Space Network Management Platform.

2. (Optional) If you downloaded the OVA image and the Root CA certificate chain file to a PC running Windows, copy the two files to a temporary directory on a PC running Linux or Unix. You can also copy the OVA image and the Root CA certificate chain file to a temporary directory (/var/tmp or /tmp) on a Junos Space node.



**NOTE:** Ensure that the OVA image file and the Juniper Networks Root CA certificate chain file are not modified during the validation procedure. You can do this by providing write access to these files only to the user performing the validation procedure. This is especially important if you use a generally accessible temporary directory, such as /tmp or /var/tmp, because such directories can be accessed by several users.

3. Navigate to the directory containing the OVA image.
4. Unpack the OVA image by executing the following command:  
  

```
tar xf ova-filename
```

 where *ova-filename* is the filename of the downloaded OVA image.
5. Verify that the unpacked OVA image contains a certificate chain file (junos-space-certchain.pem) and a signature file (.cert extension).
6. Validate the signature in the unpacked OVF file (extension .ovf) by executing the following command: `ovftool ovf-filename`, where *ovf-filename* is the filename of the unpacked OVF file.
7. Validate the signing certificate with the Juniper Networks Root CA certificate chain file by executing the following command:

```
openssl verify -CAfile JuniperRootRSACA.pem -untrusted Certificate-Chain-File Signature-file
```

where **JuniperRootRSACA.pem** is the Juniper Networks Root CA certificate chain file, **Certificate-Chain-File** is the filename of the unpacked certificate chain file (extension .pem), and **Signature-file** is the filename of the unpacked signature file (extension .cert).

If the validation is successful, a message indicating that the validation is successful is displayed.

A sample of the validation procedure is as follows:

```
-bash-4.1$ ls
JuniperRootRSACA.pem space-16.1R1.3.ova
-bash-4.1$ mkdir tmp
-bash-4.1$ cd tmp
-bash-4.1$ tar xf ../space-16.1R1.3.ova
-bash-4.1$ ls
junos-space-certchain.pem space-16.1R1.3.cert
space-16.1R1.3-disk1.vmdk.gz space-16.1R1.3.mf
space-16.1R1.3.ovf
-bash-4.1$ ovftool space-16.1R1.3.ovf
OVF version: 1.0
VirtualApp: false
Name: viso-space-16.1R1.3

Download Size: 1.76 GB

Deployment Sizes:
Flat disks: 250.00 GB
Sparse disks: 4.68 GB

Networks:
Name: VM Network
Description: The VM Network network

Virtual Machines:
Name: viso-space-16.1R1.3
Operating System: rhel5_64guest
Virtual Hardware:
Families: vmx-04
Number of CPUs: 4
Cores per socket: 1
Memory: 8.00 GB

Disks:
Index: 0
Instance ID: 7
Capacity: 250.00 GB
Disk Types: SCSI-Isilogic

NICs:
```

```
Adapter Type: E1000
Connection: VM Network
```

```
Adapter Type: E1000
Connection: VM Network
```

```
Adapter Type: E1000
Connection: VM Network
```

```
Adapter Type: E1000
Connection: VM Network
```

```
-bash-4.1$ openssl verify -CAfile JuniperRootRSACA.pem -untrusted junos-space-certchain.pem
space-16.1R1.3.cert
space-16.1R1.3.cert: OK
-bash-4.1$
```

8. (Optional) If the validation is not successful, perform the following tasks:
  - a. Determine whether the contents of the OVA image are modified. If the contents are modified, download the OVA image from the Junos Space Network Management Platform - Download Software page.
  - b. Determine whether the Juniper Networks Root CA certificate chain file is corrupted or modified. If it is corrupted or modified, download the Root CA certificate chain file from the Junos Space Network Management Platform - Download Software page.
  - c. Retry the preceding validation steps by using one or both of the new files.

## Management Scalability

We recommend the following API limit for Junos Space Network Management Platform and Security Director:

- RAM: 64GB
- CPU Cores: 8
- No of API calls per minutes: 500
- Response size: ~ 500 KB



**NOTE:** The number of successful API calls and time taken to execute may vary based on the response payload. Extremely large payloads will slow down request completion process. The size of the response you receive from an API may differ based on the endpoint you call. Different endpoints return varying amounts of data depending on their intended functionality and purpose.

The number of API calls is limited to 250 requests per minute per source IP address. When you exceed the limit, Junos Space Network Management Platform blocks the IP address for a timespan of two minutes before unblocking the IP again.

## Application Compatibility



**WARNING:** Before you upgrade to Junos Space Network Management Platform Release 24.1R1, ensure that compatible versions of Junos Space applications are available for upgrade by referring to the Junos Space Application Compatibility [Junos Space Application Compatibility](#) knowledge base article. If you upgrade to Junos Space Platform Release 24.1R1 and the compatible version of a Junos Space application is not available, the current version of the Junos Space application is deactivated and cannot be used until Juniper Networks release a compatible version of the Junos Space application.



**NOTE:** Junos Space Network Management Platform Release 24.1R2 is qualified and is compatible with Security Director Release 24.1R2.

This release of Junos Space Network Management Platform supports Worldwide (ww) Junos OS Adapter adapter and the following applications.

- Security Director 24.1R1

## Supported Hardware

Junos Space Network Management Platform Release 24.1R1 can be installed on the following hardware:

- VMware ESXi server 7.0 and 8.0.



**NOTE:** Adobe Flash is no longer supported and VMware ESXi server 6.0 and 6.5 are removed.

- Kernel-based virtual machine (KVM) (Release 1.5.3-141.el7\_4.4 or later)



**NOTE:** Starting in Junos Space Network Management Platform Release 22.3R1 onward, we do not support installation on JA2500 Junos Space appliance.

For detailed information about hardware requirements, see the *Hardware Documentation* section of the [Junos Space and Applications page](#).



**NOTE:** For information about whether a Junos Space application can be installed on Junos Space Virtual Appliance, see the release notes of the specific Junos Space application release.



**NOTE:** For detailed information about hardware requirements, see [Junos Space Virtual Appliance Deployment Overview](#).

## Supported Devices

Junos Space Network Management Platform Release 24.1R1 supports the following additional Juniper Networks device and components running Junos OS:

[Table 2 on page 11](#) lists all the Juniper Networks product series and devices supported by Junos Space Network Management Platform.

**Table 2: Devices Supported by Junos Space Network Management Platform**

| Product Series | Model   | Junos Space Platform Release             |
|----------------|---------|------------------------------------------|
| ACX Series     | ACX710  | Junos Space 20.1R1 hot patch v1 or later |
|                | ACX1000 | Junos Space Platform 12.2 or later       |

**Table 2: Devices Supported by Junos Space Network Management Platform (Continued)**

| Product Series | Model       | Junos Space Platform Release         |
|----------------|-------------|--------------------------------------|
|                | ACX1100     | Junos Space Platform 12.3 or later   |
|                | ACX2100     | Junos Space Platform 12.3 or later   |
|                | ACX2200     | Junos Space Platform 12.3 or later   |
|                | ACX5448     | Junos Space Platform 18.4 or later   |
| EX Series      | EX2300      | Junos Space Platform 15.2R2 or later |
|                | EX2300-24MP | Junos Space Platform 18.1 or later   |
|                | EX2300-48MP | Junos Space Platform 17.2 or later   |
|                | EX3400      | Junos Space Platform 15.2R2 or later |
|                | EX4100-12T  | Junos Space Platform 22.3R1 or later |
|                | EX4100-24P  | Junos Space Platform 23.1R1 or later |
|                | EX4100-24T  | Junos Space Platform 23.1R1 or later |
|                | EX4100-48P  | Junos Space Platform 23.1R1 or later |
|                | EX4100-24MP | Junos Space Platform 23.1R1 or later |
|                | EX4100-48T  | Junos Space platform 22.3R1 or later |
|                | EX4100-48MP | Junos Space platform 22.3R1 or later |

**Table 2: Devices Supported by Junos Space Network Management Platform (Continued)**

| Product Series | Model        | Junos Space Platform Release         |
|----------------|--------------|--------------------------------------|
|                | EX4100-F-12P | Junos Space Platform 22.3R1 or later |
|                | EX4100-F-12T | Junos Space platform 22.3R1 or later |
|                | EX4100-F-24T | Junos Space Platform 22.3R1 or later |
|                | EX4100-F-24P | Junos Space Platform 23.1R1 or later |
|                | EX4100-F-48P | Junos Space platform 22.3R1 or later |
|                | EX4100-F-48T | Junos Space Platform 22.3R1 or later |
|                | EX4300       | Junos Space Platform 13.1 or later   |
|                | EX4300-48MP  | Junos Space Platform 18.3R1 or later |
|                | EX4400-24T   | Junos Space Platform 21.1R1 or later |
|                | EX4400-48F   | Junos Space Platform 21.1R1 or later |
|                | EX4400-48P   | Junos Space Platform 21.1R1 or later |
|                | EX4400-48T   | Junos Space Platform 21.1R1 or later |
|                | EX4400-24X   | Junos Space platform 23.1R1 or later |

**Table 2: Devices Supported by Junos Space Network Management Platform (Continued)**

| Product Series     | Model       | Junos Space Platform Release         |
|--------------------|-------------|--------------------------------------|
|                    | EX4550-40G  | Junos Space Platform 12.2 or later   |
|                    | EX4600      | Junos Space Platform 13.3 or later   |
|                    | EX4650      | Junos Space Platform 18.4 or later   |
|                    | EX6200      | Junos Space Platform 13.2 or later   |
|                    | EX9200      | Junos Space Platform 13.1 or later   |
|                    | EX9204      | Junos Space Platform 13.1 or later   |
|                    | EX9208      | Junos Space Platform 13.1 or later   |
|                    | EX9214      | Junos Space Platform 13.1 or later   |
|                    | EX4400-24P  | Junos Space Platform 21.1R1 or later |
|                    | EX4400-24MP | Junos Space Platform 21.2 or later   |
|                    | EX4400-48MP | Junos Space Platform 21.2 or later   |
| EX Virtual Chassis | EX2300-VC   | Junos Space Platform 23.1R1          |
|                    | EX3300-VC   | Junos Space Platform 15.2 or later   |
|                    | EX3400-VC   | Junos Space Platform 23.1R1          |
|                    | EX4100-VC   | Junos Space Platform 22.3R1          |
|                    | EX4200-VC   | Junos Space Platform 11.4 or later   |
|                    | EX4200-VC   | Junos Space Platform 11.4 or later   |
|                    | EX4300-VC   | Junos Space Platform 13.1 or later   |

**Table 2: Devices Supported by Junos Space Network Management Platform (Continued)**

| Product Series            | Model                         | Junos Space Platform Release         |
|---------------------------|-------------------------------|--------------------------------------|
|                           | EX4400-VC                     | Junos Space Platform 23.1R1          |
|                           | EX4550-VC                     | Junos Space Platform 13.1 or later   |
|                           | EX4600-VC                     | Junos Space Platform 16.1 or later   |
|                           | EX-XRE                        | Junos Space Platform 14.1R2 or later |
| Firefly                   | vSRX Virtual Firewall Firefly | Junos Space Platform 15.1 or later   |
| Junos Fusion              | Junos Fusion Edge             | Junos Space Platform 17.1 or later   |
| MCG Series                | MCG5000                       | Junos Space Platform 11.3 or later   |
| MX Series                 | MX204                         | Junos Space Platform 18.2 or later   |
|                           | MX240                         | Junos Space Platform 13.1 or later   |
|                           | MX480                         | Junos Space Platform 13.1 or later   |
|                           | MX960                         | Junos Space Platform 13.1 or later   |
|                           | MX10008                       | Junos Space Platform 18.4 or later   |
|                           | MX2008                        | Junos Space Platform 17.1 or later   |
|                           | MX2010                        | Junos Space Platform 12.3 or later   |
|                           | MX2020                        | Junos Space Platform 12.3 or later   |
| MX Series Virtual Chassis | MX-VC                         | Junos Space Platform 14.1 or later   |
| PTX Series                | PTX10008                      | Junos Space Platform 17.2 or later   |
|                           | PTX10016                      | Junos Space Platform 17.2 or later   |

**Table 2: Devices Supported by Junos Space Network Management Platform (Continued)**

| Product Series | Model           | Junos Space Platform Release         |
|----------------|-----------------|--------------------------------------|
| QFX Series     | QFX3000         | Junos Space Platform 12.2 or later   |
|                | QFX3500         | Junos Space Platform 12.3 or later   |
|                | QFX3600         | Junos Space Platform 13.1 or later   |
|                | QFX5110-32Q     | Junos Space Platform 17.1 or later   |
|                | QFX5110-48S     | Junos Space Platform 17.1 or later   |
|                | QFX5120-32C     | Junos Space Platform 19.4 or later   |
|                | QFX5120         | Junos Space Platform 18.4 or later   |
|                | QFX5210         | Junos Space Platform 18.4 or later   |
|                | QFX5200         | Junos Space Platform 15.1R2 or later |
|                | QFX5200-48Y     | Junos Space Platform 18.1 or later   |
|                | QFX5210-64C     | Junos Space Platform 18.1 or later   |
|                | QFX10002-36Q    | Junos Space Platform 15.1 or later   |
|                | QFX10002-36Q-DC | Junos Space Platform 15.1 or later   |
|                | QFX10002-60C    | Junos Space Platform 18.1 or later   |
|                | QFX10002-72Q    | Junos Space Platform 15.1 or later   |
|                | QFX10002-72Q-DC | Junos Space Platform 15.1 or later   |
|                | QFX10008        | Junos Space Platform 15.1R2 or later |

**Table 2: Devices Supported by Junos Space Network Management Platform (Continued)**

| Product Series             | Model           | Junos Space Platform Release             |
|----------------------------|-----------------|------------------------------------------|
|                            | QFX10016        | Junos Space Platform 15.1R2 or later     |
|                            | QFX5120-48YM-8C | Junos Space Platform 21.1R1 or later     |
| QFX Series Virtual Chassis | QFX-VC          | Junos Space Platform 14.1 or later       |
| SRX Series                 | SRX240H         | Junos Space Platform 14.1R1 or later     |
|                            | SRX300          | Junos Space Platform 15.1R2 or later     |
|                            | SRX320          | Junos Space Platform 15.1R2 or later     |
|                            | SRX320-PoE      | Junos Space Platform 15.1R2 or later     |
|                            | SRX340          | Junos Space Platform 15.1R2 or later     |
|                            | SRX345          | Junos Space Platform 15.1R2 or later     |
|                            | SRX380          | Junos Space 20.1R1 hot patch v1 or later |
|                            | SRX550-M        | Junos Space Platform 15.1R2 or later     |
|                            | SRX1500         | Junos Space Platform 15.1R2 or later     |
|                            | SRX1600         | Junos Space Platform 24.1R1 or later     |

**Table 2: Devices Supported by Junos Space Network Management Platform (Continued)**

| Product Series                | Model                     | Junos Space Platform Release         |
|-------------------------------|---------------------------|--------------------------------------|
|                               | SRX2300                   | Junos Space Platform 24.1R1 or later |
|                               | SRX4100                   | Junos Space Platform 16.1 or later   |
|                               | SRX4200                   | Junos Space Platform 16.1 or later   |
|                               | SRX4600                   | Junos Space Platform 17.2 or later   |
|                               | SRX5400                   | Junos Space Platform 13.2 or later   |
|                               | SRX5600                   | Junos Space Platform 18.2 or later   |
|                               | SRX5800                   | Junos Space Platform 13.3 or later   |
| Virtual SRX Series            | vSRX Virtual Firewall 3.0 | Junos Space Platform 18.2 or later   |
| Virtual route reflector (VRR) | VRR                       | Junos Space Platform 14.1R2 or later |
| WLC Series                    | WLC device                | Junos Space Platform 14.1 or later   |



**NOTE:** Ensure that you install the exact matching or closest matching of Junos OS schema on the Junos Space Platform. For more information, see [Table 3 on page 18](#).

[Table 3 on page 18](#) lists the devices supported by Junos Space Network Management Platform with compatible Junos OS Releases:

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases**

| Product Series | Model  | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version |
|----------------|--------|------------------------------------------------------|--------------------------|
| ACX Series     | ACX710 | 20.2R1                                               | 20.2R1                   |

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases (Continued)**

| Product Series | Model        | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version |
|----------------|--------------|------------------------------------------------------|--------------------------|
| EX Series      | ACX5448      | 18.3R1                                               | 18.4R1.8                 |
|                |              | 18.4R1.8 or later                                    | 18.4R1.8                 |
|                | EX2300       | 18.1R3.3                                             | 18.1R3.3                 |
|                |              | 18.4R1.8 or later                                    | 18.4R1.8                 |
|                |              | 20.4R3-Sx                                            | 20.2R3                   |
|                | EX2300-24T   | 21.4R3-S1                                            | 21.4R3-S1.5              |
|                | EX3400       | 18.1R3.3                                             | 18.1R3.3                 |
|                |              | 18.4R1.8 or later                                    | 18.4R1.8                 |
|                | EX4100-12T   | 22.3R1.12                                            | 22.3R1.12                |
|                | EX4100-24P   | 23.1R1.2                                             | 23.1R1.2                 |
|                | EX4100-24T   | 23.1R1.2                                             | 23.1R1.2                 |
|                | EX4100-24MP  | 23.1R1.2                                             | 23.1R1.2                 |
|                | EX4100-48P   | 23.1R1.2                                             | 23.1R1.2                 |
|                | EX4100-48T   | 22.3R1.12                                            | 22.3R1.12                |
|                | EX4100-48MP  | 22.3R1.12                                            | 22.3R1.12                |
|                | EX4100-F-12P | 22.3R1.12                                            | 22.3R1.12                |
|                | EX4100-F-12T | 22.3R1.12                                            | 22.3R1.12                |

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases (Continued)**

| Product Series | Model        | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version |
|----------------|--------------|------------------------------------------------------|--------------------------|
|                | EX4100-F-24P | 23.1R1.2                                             | 23.1R1.2                 |
|                | EX4100-F-24T | 22.3R1.12                                            | 22.3R1.12                |
|                | EX4100-F-48P | 22.3R1.12                                            | 22.3R1.12                |
|                | EX4100-F-48T | 22.3R1.12                                            | 22.3R1.12                |
|                | EX4300-MP    | 21.2R3.8                                             | 21.2R3.8                 |
|                | EX4650       | 21.2R3.8                                             | 21.2R3.8                 |
|                | EX4400       | 21.3R2                                               | 21.1/R1                  |
|                | EX4300       | 17.3R3-S1.5<br>18.4R1.8 or later                     | 17.3R3-S1.5<br>18.4R1.8  |
|                | EX4300-48MP  | 17.3R3-S1.5<br>18.4R1.8 or later                     | -<br>18.4R1.8            |
|                | EX4400-24P   | 21.1R1.11 or later                                   | 21.1R1.11                |
|                | EX4400-24MP  | 21.2R1.10 or later                                   | 21.2R1.10                |
|                | EX4400-48MP  | 21.2R1.10 or later                                   | 21.2R1.10                |
|                | EX4400-24T   | 21.1R1.11 or later                                   | 21.1R1.11 or later       |
|                | EX4400-48F   | 21.1R1.11 or later                                   | 21.1R1.11 or later       |

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases (Continued)**

| Product Series     | Model         | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version          |
|--------------------|---------------|------------------------------------------------------|-----------------------------------|
|                    | EX4400-48P    | 21.1R1.11 or later<br>21.4R3-S1                      | 21.1R1.11 or later<br>21.4R3-S1.5 |
|                    | EX4400-48T    | 21.1R1.11 or later                                   | 21.1R1.11 or later                |
|                    | EX4400-24X    | 22.3R1.2                                             | 22.3R1.2                          |
|                    | EX4600        | 17.3R3-S1.5<br>18.4R1.8 or later                     | 17.3R3-S1.5<br>18.4R1.8           |
|                    | EX4650        | 18.4R1.8 or later<br>20.4/R3                         | 18.4R1.8<br>20.2R3-S1             |
|                    | EX4650-48Y-8C | 21.4R3-S1                                            | 21.4R3-S1.5                       |
|                    | EX9200        | 17.3R3-S1.5<br>18.3R1.9 or later                     | 17.3R3-S1.5<br>18.3R1.9           |
|                    | EX9204        | 20.3R1.3 or later                                    | 20.3R1.3                          |
|                    | EX9208        | 20.3R1.3 or later                                    | 20.3R1.3                          |
|                    | EX9208-BASE3A | 20.4R3                                               | 17.3R3-S4                         |
|                    | EX9214        | 20.3R1.3 or later                                    | 20.3R1.3                          |
| EX Virtual Chassis | EX4200-VC     | 12.2R1 or later                                      | 15.1R7.9                          |

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases (Continued)**

| Product Series      | Model           | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version            |
|---------------------|-----------------|------------------------------------------------------|-------------------------------------|
|                     | EX3400-VC       | 20.2R2.8 or later                                    | 20.2R2.8                            |
|                     | EX4100-48T-VC   | 22.3R1.12                                            | 22.3R1.12                           |
|                     | EX4100-48MP-VC  | 22.3R1.12                                            | 22.3R1.12                           |
|                     | EX4100-F-48P-VC | 22.3R1.12                                            | 22.3R1.12                           |
| MX Series           | MX204           | 18.4R1 or later                                      | 18.4R1.8                            |
|                     | MX240           | 13.2R2.4 or later                                    | 17.3R3.9<br>18.4R1.8                |
|                     | MX480           | 13.2R2.4 or later                                    | 17.3R3-S2.2<br>17.3R3.9<br>19.1R1.6 |
|                     | MX10008         | 18.4R1.8 or later                                    | 18.4R1.8                            |
|                     | MX960           | 21.2R1.6 or later<br>21.2R1.8 or later               | 21.2R1.6<br>21.2R1.8                |
| SRX Series Firewall | SRX380          | 20.2R1                                               | 20.2R1                              |
|                     | SRX300          | 20.2R3-S2                                            | 20.2R3-S2.5                         |
|                     | SRX320          | 20.2R3-S2<br>21.2R3-S2.9                             | 20.2R3-S2.5<br>21.2R3.8             |

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases (Continued)**

| Product Series | Model          | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version |
|----------------|----------------|------------------------------------------------------|--------------------------|
|                | SRX340         | 21.2R3-S2.9                                          | 21.2R3.8                 |
|                | SRX345         | 21.2R3-S2.9                                          | 21.2R3.8                 |
|                | SRX550M        | 21.2R3-S2.9                                          | 21.2R3.8                 |
|                | SRX1500        | 21.2R1 and later                                     | 23.4R2                   |
|                | SRX1600        | 23.3R1.8                                             | 23.3R1.8                 |
|                | SRX2300        | 23.4R1.6                                             | 23.4R1.6                 |
|                | SRX4100        | 20.4R3-S1                                            | 20.2R3-S2.5              |
|                | SRX4200        | 20.4R3-S1                                            | 20.2R3-S2.5              |
|                | SRX5600        | 20.4R3-S1<br>21.2R3-S2.9                             | 20.4R3-S1<br>21.2R3.8    |
|                | SRX5800        | 20.4R3-S1<br>21.2R3-S2.9                             | 20.4R3-S1<br>21.2R3.8    |
|                | SRX550-645AP-M | 20.2R3-S2.5                                          | 20.2R3-S2.5              |
| QFX Series     | QFX5100        | 17.3R3 or later                                      | 17.3R3-S1.5<br>18.4R1.8  |

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases (Continued)**

| Product Series | Model           | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version            |
|----------------|-----------------|------------------------------------------------------|-------------------------------------|
|                | QFX5110-32Q     | 17.3R3 or later                                      | 17.3R3-S1.5<br>19.1R1.6             |
|                | QFX5110-48S     | 17.3R3-S1.5<br>19.1R1.6 or later                     | 17.3R3-S1.5<br>19.1R1.6             |
|                | QFX5120         | 18.4R1.8 or later                                    | 18.4R1.8                            |
|                | QFX5210         | 19.1R1.6 or later                                    | 19.1R1.6                            |
|                | QFX5200         | 17.3R3 or later                                      | 17.3R3.9<br>18.4R1.8                |
|                | QFX5200-32C-32Q | 21.2R3.8                                             | 21.2R3.8                            |
|                | QFX10002-36Q    | 17.3R3 or later                                      | 17.3R3-S1.5<br>19.1R1.6             |
|                | QFX10002-36Q-DC | 17.3R3 or later                                      | 17.3R3-S1.5<br>19.1R1.6             |
|                | QFX10002-60C    | 17.3R3 or later                                      | 17.3R3-S1.5<br>19.1R1.6             |
|                | QFX10002-72Q    | 17.3R3 or later<br>21.2R3.8                          | 17.3R3-S1.5<br>19.1R1.6<br>21.2R3.8 |

**Table 3: Devices Supported by Junos Space Platform with Compatible Junos OS Releases (Continued)**

| Product Series | Model           | Supported Junos Operating System (Junos OS) Releases | Qualified Schema Version |
|----------------|-----------------|------------------------------------------------------|--------------------------|
|                | QFX10002-72Q-DC | 17.3R3-S1.5 or later                                 | 17.3R3-S1.5              |
|                | QFX10008        | 17.3R3 or later                                      | 17.3R3.9<br>18.4R1.8     |
|                | QFX5120-48T-6C  | 20.2R1.10 or later                                   | 20.2R1.10                |
|                | QFX5120-48YM-8C | 20.4R1.12                                            | 20.4R1.12                |



**NOTE:** When Junos Space Platform discovers EX Series switches running Layer 2 next generation software, the device family for these devices is displayed (on the Device Management page) as junos and not as junos-ex. This behavior is currently observed on EX4300 and EX9200 switches running Layer 2 next generation software.



**NOTE:** Previous versions of Junos OS releases are also supported. If you are using previous versions of Junos OS releases, you can continue to use the same versions. For a complete list of Junos OS compatibility and support information, see ["Supported Junos OS Releases" on page 25](#).

## Supported Junos OS Releases

### Supported Junos OS Releases for Junos Space Network Management Platform Release 24.1R1

Junos Space Network Management Platform Release 24.1R1 supports the following Junos OS releases:

- Junos OS Release 21.2
- Junos OS Release 22.1
- Junos OS Release 22.2

- Junos OS Release 22.3
- Junos OS Release 23.1
- Junos OS Release 24.2

## **Supported Junos OS Releases for Junos Space Network Management Platform Release 24.1R2**

Junos Space Network Management Platform Release 24.1R2 supports the following Junos OS releases:

- Junos OS Release 21.2
- Junos OS Release 22.1
- Junos OS Release 22.2
- Junos OS Release 22.3
- Junos OS Release 23.1
- Junos OS Release 24.2

## **Supported Junos OS Releases for Junos Space Network Management Platform Release 24.1R4**

Junos Space Network Management Platform Release 24.1R4 supports the following Junos OS releases:

- Junos OS Release 21.2
- Junos OS Release 22.1
- Junos OS Release 22.2
- Junos OS Release 22.3
- Junos OS Release 23.1
- Junos OS Release 24.2

# Supported Junos OS Releases for Junos Space Network Management Platform Release 24.1R5

Junos Space Network Management Platform Release 24.1R4 supports the following Junos OS releases:

- Junos OS Release 21.2
- Junos OS Release 22.1
- Junos OS Release 22.2
- Junos OS Release 22.3
- Junos OS Release 23.1
- Junos OS Release 24.2

## Changes in Default Behavior

- From Release 17.2R1 onward, Junos Space Platform does not sort configurations while comparing templates. In releases earlier than 17.2R1, Junos Space Platform sorts configurations while comparing templates, and this causes Junos Space Platform to trigger incorrect deviation reports because of a change in the order of configuration statements caused by the sorting.
- From Release 17.2R1 onward, Junos Space Platform does not support the click action in the Top 10 Active Users in 24 Hours chart. In releases earlier than 17.2R1, you can click within the chart to view details of the selected item on the corresponding page.
- From Junos Space Platform Release 17.1R1 onward, the VLAN field in reports supports both integer and string values. In releases earlier than 17.1R1, the VLAN field in reports supports only integer values, whereas the VLAN field for logical interfaces accepts both integer and string values. This mismatch causes issues in displaying VLAN information for logical interfaces in reports.

From Release 17.1R1 onward, the VLAN option in the Add Filter Criteria section of the Create Report Definition page and the filter support for the VLAN column on the View Logical Interface page are removed.

- From Junos Space Platform Release 16.1R2 onward, the upgrade-related logs at `/var/jmp_upgrade` are added to the troubleshooting logs.
- From Release 17.1R1 onward, Junos Space Platform boot menu accepts text inputs, such as reinstall, when you install the Junos Space Platform software from USB drives. In versions earlier than Release 17.1R1, the boot menu supports only numerical values. From Release 17.1R1 onward, when you do a reinstall, the software restarts and a local reboot occurs by default. Previously, you had to connect to the console and manually trigger a reboot.
- From Junos Space Platform Release 16.1R2 onward, validation messages are provided for tasks

where CSV files are used for device selection, and all devices that are listed in the CSV file are not selected when the task is performed. Validation messages are provided when devices are selected using CSV files from the following pages and dialog boxes:

- Deploy Device Image dialog box
- Deploy Satellite Device Image dialog box
- Stage Image on Device page
- Stage Image on Satellite Device page
- Remove Image from Staged Device dialog box
- Undeploy JAM Package from Device dialog box

- Verifying checksum of image on device(s) dialog box
- Stage Scripts on Device(s) page
- Disable Scripts on Device(s) page
- Execute Script on Device(s) page
- Remove Scripts from Device(s) dialog box
- Verify Checksum of Scripts on Device(s) dialog box

From Release 17.1R1 onward, validation messages are provided for the following pages and dialog boxes, too:

- Run Operation page
- Stage Script Bundle on Devices dialog box
- Enable Script Bundle on Devices page
- Disable Script Bundle on Devices page
- Execute Script Bundle on Devices dialog box
- Starting in Junos Space Network Management Platform Release 21.3R1, unicast Junos Space cluster is the default mode for Junos Space Network Management Platform.
- Starting in Junos Space Network Management Platform Release 21.3R1, the AppLogic node restarts, when the Add Node jobs for JBoss and database nodes are successful. This is not applicable for Fault Monitoring and Performance Monitoring (FMPM) node.
- While upgrading from Junos Space Network Management Platform Release 21.1R1 (with Junos Space Network Management Platform Release 21.1R1 supported applications) or Junos Space Network Management Platform Release 21.2R1 (with Junos Space Network Management Platform Release 21.1R1 supported applications) to Junos Space Network Management Platform Release 21.3R1, the deployment status is displayed only for the Junos Space Network Management Platform and not for the applications.
- Starting in Junos Space Network Management Platform Release 21.3R1, the scripts with existing Network Configuration protocol (NETCONF) Remote Procedure Calls (RPC) commands needs to be replaced with CLI commands with display xml option.
- Starting in Junos Space Network Management Platform Release 21.3R1, the AppLogic service restarts after the application upgrade or installation job is successful.

- Starting in Junos Space Network Management Platform Release 21.3R1, before initiating any operation like configuration change, configlet or template push to the device, make sure that the nodes are not in Deploying / Parsing Schema state.

## Known Behavior



**CAUTION:** To avoid a BEAST TLS 1.0 attack, whenever you log in to Junos Space through a browser tab or window, make sure that the tab or window was not previously used to access a non-HTTPS website. The best practice is to close your browser and relaunch it before logging in to Junos Space.



**NOTE:** In Junos Space Network Management Platform Release 24.1R3, the last monitoring time does not get updated post disaster recovery reset on the standby site.

- For EX Series Switches, an explicit reboot is required, using the device CLI to complete the image deployment and upgrade process.
- Starting from Junos Space Network Management Platform Release 18.1R1 onwards, to view and edit firewall policies, users must have permissions or roles corresponding to all the attributes present under the Firewall Policies and Shared Objects predefined roles. Go to Network Management Platform>Role Based Access Control>Roles to view and assign the relevant roles.
- Tag names can be alphanumeric strings. The tag name can also contain underscores, hyphens, and spaces. However, a tag name must not:
  - Exceed 255 characters
  - Start with a space
  - Contain special characters such as commas, double quotation marks, or parentheses.



**NOTE:** “Untagged” is a reserved term and, therefore, you cannot create a tag with this name.

- The right-click menu is not available on the Import Licenses (Administration > Licenses > Import License) page. You can use either the browser menu options or the keyboard shortcuts to copy and paste onto the page.

- Device-initiated connections to Junos Space can have different IP addresses from those listed in Junos Space. For example, if you use a loopback address to discover a device, you can source the SSH session of the device from its interface address (Junos OS default behavior is to select the default address) instead. This can lead to firewall conflicts.
- You might observe the following limitations on the Topology page:
  - The tooltip on the node displays the status as Active/Managed even when the node is down.
  - For an SRX Series cluster, topology links are displayed only for the primary member of the cluster and not for the secondary member.
- When unified in-service software upgrade (ISSU) is performed from the Manage Operations workflow, the Routing Engines are not rebooted. The Routing Engines must be manually rebooted for the image to be loaded.
- For LSYS (logical, nonroot) devices, when there are pending out-of-band changes on the root device, the Resolve out-of-band changes menu option is disabled for those child LSYS devices, even though Device Managed Status displays Device Changed. This is by design.
- RMA is not supported on devices running Junos OS, and devices that are not running Junos OS.
- Script Manager supports only Junos OS Release 10.x and later.
- A stage device script or image supports only devices running Junos OS Release 10.x and later.
- For unified ISSU support for both device-initiated and Junos Space-initiated dual Routing Engine connections, we strongly recommend that you configure the virtual IP (VIP) on the dual Routing Engine device. Dual Routing Engine devices without VIP configuration are not fully supported on Junos Space.
- In a single node or multiple nodes, changes to the user (for example, password, roles, and disable or enable user) take effect only at the next login.
- Looking Glass functionality is not supported on logical systems.
- For devices running Junos OS Release 12.1 or later, the following parameters do not display any data in the Network Monitoring workspace because the corresponding MIB objects have been deprecated:
  - jnxJsSPUMonitoringFlowSessIPv4
  - jnxJsSPUMonitoringFlowSessIPv6
  - jnxJsSPUMonitoringCPSessIPv4
  - jnxJsSPUMonitoringCPSessIPv6
  - jnxJsNodeSessCreationPerSecIPv4

- jnxJsNodeSessCreationPerSecIPv6
- jnxJsNodeCurrentTotalSessIPv4
- jnxJsNodeCurrentTotalSessIPv6
- For SNMPv3 traps, if more than one trap setting is configured in the `/opt/opennms/etc/trapd-configuration.xml` file, then the *security-name* attribute for the *snmpv3-user* element must be unique for each configuration entry. If a unique *security-name* attribute is not provided, then SNMP traps are not received by Network Monitoring.

The following is a sample snippet of the `/opt/opennms/etc/trapd-configuration.xml` file with two configuration entries:

```
<?xml version="1.0"?>
<trapd-configuration snmp-trap-port="162" new-suspect-on-trap="false">
  <snmpv3-user security-name="Space-SNMP-1" auth-passphrase="abcD123!" auth-protocol="MD5"/>
  <snmpv3-user security-name="Space-SNMP-2" auth-passphrase="abcD123!" auth-protocol="MD5"
    privacy-passphrase="zyxW321!" privacy-protocol="DES"/>
</trapd-configuration>
```

- On the Network Monitoring > Node List > Node page, the *ifIndex* parameter is not displayed for IPv6 interfaces if the version of Junos OS running on the device is Release 13.1 or earlier. This is because IPv6 MIBs are supported only on Junos OS Release 13.2 and later.
- When you execute a script and click the View Results link on the Script Management Job Status page, the details of the script execution results are displayed up to a maximum of 16,777,215 characters; the rests of the results are truncated.

This might affect users who execute the *show configuration* command on devices with large configurations or if the output of a Junos OS operational command (executed on a device) is large.

- When you configure a Junos Space fabric with dedicated database nodes, the Junos Space Platform database is moved from the Junos Space nodes to the database nodes. You cannot move the database back to the Junos Space nodes.
- For a purging policy triggered by a cron job:
  - If the Junos Space fabric is configured with MySQL on one or two dedicated database nodes, the database backup files and log files (mainly in the `/var/log/` directory with the filenames `*.log.*`, `messages.*`, or `SystemStatusLog.*`) are not purged from the dedicated database nodes.
- If Network Monitoring receives two traps within the same second—that is, one for a trigger alarm and another for a clear alarm—then the triggered alarm is not cleared because the clear alarm is not processed by Network Monitoring.

- If you use Internet Explorer versions 8.0 or 9.0 to access the Junos Space Platform GUI, you cannot import multiple scripts or CLI Configlets at the same time.

Workaround: Use Internet Explorer Version 10.0 or later, or use a different supported browser (Mozilla Firefox or Google Chrome) to import multiple scripts or CLI Configlets at the same time.

- If you access the Junos Space Platform UI in two tabs of the same browser with two different domains selected and access the same page in both tabs, the information displayed on the page is based on the latest domain selected. To view pages that are accessible only in the Global domain, ensure that you are in the Global domain in the most recent tab in which you are accessing the UI.
- If you select the Add SNMP configuration to device check box on the Administration > Applications > Modify Network Management Platform Settings page and discover a device whose trap target is updated, clicking Resync Node from the Network Monitoring workspace does not reset the trap target for the device.
- If you clear the Add SNMP configuration to device check box on the Administration > Applications > Modify Network Management Platform Settings page, the trap target is not set for the device during device discovery and resynchronizing node operations.
- If you want to perform a global search by using partial keywords, append “\*” to the search keywords.
- To perform a partial keyword search on tags on the Tags page (Administration > Tags) or the Apply Tags dialog box (right-click a device on the Device Management page and select Tag It), append \* to the search keyword.
- Internet Explorer slows down because some scripts can take an excessive amount of time to run. The browser prompts you to decide whether to continue running the slow script. see <http://support.microsoft.com/kb/175500> for instructions on how to fix this issue.
- When you switch from Space as system of record mode to Network as system of record mode, devices with the Managed Status Device Changed or Space & Device Changed are automatically synchronized after 900 seconds. To reduce this time period, modify the Polling time period secs setting for Network Management Platform (Administration > Applications > Modify Application Settings) to a lower value such as 150 seconds.
- In Space as System of Record (SSoR) mode on Junos Space, when a new authentication key is generated, devices discovered and managed using RSA keys whose management status is Device Changed move to the Key Conflict Authentication status. To resolve the conflict on the devices and bring them back to a key-based state, upload the RSA keys manually (Devices > Upload Keys to Devices).
- The EnterpriseDefault ([uei.opennms.org/generic/trap/EnterpriseDefault](http://uei.opennms.org/generic/trap/EnterpriseDefault)) event appears on the Events page in the Network Monitoring workspace only if there is no associated event definition for a received event. To create the required event definition, compile the MIB corresponding to the object ID (OID). You can find the OID by reviewing the details of the EnterpriseDefault event.

For more information about compiling SNMP MIBs, see [Compiling SNMP MIBs](#).

- When a physical hard drive is removed from a Junos Space hardware appliance or a logical hard drive is degraded, the corresponding SNMP traps (jnxSpaceHardDiskPhysicalDriveRemoved and jnxSpaceHardDiskLogicalDeviceDegraded respectively) are generated and displayed as events in the Network Monitoring workspace. Later, when the physical hard drive is reinserted, the corresponding events (jnxSpaceHardDiskPhysicalDriveAdded and jnxSpaceHardDiskLogicalDeviceRebuilding) are generated and displayed in the Network Monitoring workspace; however, the alarms previously raised for the removal of the physical hard drive are not cleared automatically. You can clear these alarms manually, if required. The alarms for the reinsertion of the physical hard drive are automatically cleared after a few minutes because they are of the Normal type.
- If you clear the Add SNMP configuration to device check box (on the Modify Network Management Platform Settings page under Administration > Applications > Network Management Platform > Modify Application Settings) and discover devices, and subsequently select the Add SNMP configuration to device check box and resynchronize nodes (Network Monitoring > Node List > Resync Nodes), the SNMPv2 trap target is updated on the devices.
- If you discover devices with the SNMP probing enabled, the correct version of the SNMP trap target is updated on the devices for the following cases:
  - When you modify the virtual IP (VIP) address or the device management interface IP address
  - When a separate interface for device management is configured and there is a failover of the VIP node
  - When you discover devices when the Network Monitoring service is stopped and subsequently start the Network Monitoring service and resynchronize nodes (Network Monitoring > Node List > Resync Nodes)

In all other cases, the default SNMP trap target (SNMPv2) is updated on the devices. If needed, you can use the predefined SNMPv3 Configlets (CLI Configlets > CLI Configlets) to update the trap settings on the device.

- In Junos Space Platform Release 16.1R1, Network Monitoring supports only a single set of SNMPv3 trap parameters.
- In Junos Space Platform Release 16.1R1, you cannot modify the trap settings for the SNMPv3 manager on the Network Monitoring GUI. You can modify the trap settings manually in the **/opt/opennms/etc/trapd-configuration.xml** file. After modifying the trap settings manually, restart the Network Monitoring service.
- With default SNMPv3 trap settings, the discovery of devices running worldwide Junos OS (wwJunos OS devices) fails as the default SNMPv3 trap settings cannot be updated to wwJunos OS devices because wwJunos OS devices do not support privacy settings.

- The setting to manage objects from all assigned domains can be enabled globally for all users by selecting the Enable users to manage objects from all allowed domains in aggregated view check box in the Domains section of the Modify Application Settings page (Administration > Applications > Network Management Platform > Modify Application Settings). Alternatively, you can enable the setting to manage objects from all assigned domains at the user level by selecting the Manage objects from all assigned domains check box on the Object Visibility tab of the Change User Settings dialog box, which appears when you click the User Settings (gear) icon on the Junos Space banner.
- The Juniper Networks Device Management Interface (DMI) schema repository (<https://xml.juniper.net/>) does not currently support IPv6. If you are running Junos Space on an IPv6 network, you can do one of the following:
  - Configure Junos Space to use both IPv4 and IPv6 addresses and download the DMI schema by using the Junos Space Platform Web GUI.
  - Download the DMI schema by using an IPv4 client and update or install the DMI schema by using the Junos Space Web GUI.
- If you are planning on expanding the disk space for nodes in a Junos Space fabric (cluster) comprising of virtual appliances, you must first expand the disk space on the VIP node and ensure that the VIP node has come up (the status of the JBoss and MySQL services must be “Up”) before initiating the disk expansion on the other nodes in the fabric. If you fail to do this, it might cause fabric instability and you might be unable to access to the Junos Space GUI.
- In a Junos Space fabric with two or more nodes configured with both IPv4 and IPv6 addresses (dual stack), the communications between all nodes in the fabric must be enabled for both IPv4 and IPv6 addresses.
- The Network Monitoring Topology feature is not supported on Internet Explorer.
- If the network connectivity at the active disaster recovery site is down and the active site cannot connect to sufficient arbiter devices after resuming network connectivity, both sites become standby disaster recovery sites. Execute the **jmp-dr manualFailover -a** command at the VIP node of the active disaster recovery site to convert the original site to the active site and start the disaster recovery process.
- When you are discovering devices running the worldwide Junos OS (ww Junos OS devices), ensure that you wait at least 10 minutes after the Add Adapter job for the device worldwide Junos adapter has completed successfully before triggering the device discovery.
- A new pattern (requested 'commit synchronize' operation) is added to the syslog pattern in Junos Space Release 16.1R2. During the syslog registration after a device is discovered or connects back to Junos Space following a Junos Space upgrade from Release 16.1R1 to 16.1R2, the (requested 'commit synchronize' operation) pattern is added to the syslog patterns on the device. When you issue the commit synchronize command, Junos Space automatically resynchronizes only those

devices that have the (requested 'commit synchronize' operation) pattern added to the syslog patterns.

- If you are using Internet Explorer to access the Junos Space Network Platform UI and need to copy the job ID value from the Job ID field of the Job Management page, you must click outside the job ID text to start the selection.
- After you upgrade Junos Space Platform from Release 16.1R1 to 17.1R1, the Last Reboot Reason field on the Administration > Fabric > View Node Detail > Reboot Detail page shows the value as Reboot from Shell/Other instead of Space reboot after Software Upgrade.
- If the device IP could not be verified, the Add Unmanaged Devices action fails.

## Known Issues

### Known Issues in Junos Space Network Management Platform Release 24.1R1

This section lists the known issues in Junos Space Network Management Platform Release 24.1R1.

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

- When you change the VIP node IP and the device management IP, the toolkit configuration fails to update the changed IPs. [PR1791521](#)
- There are issues in the CLI console during Junos Space Network Management Platform deployment. [PR1798841](#)

- During Junos Space Network Management Platform installation, when you enter NTP server details, it shows failure in the process even when it is in progress.

Workaround: During installation process, you can choose to accept or ignore the configured NTP, DNS, and gateways. [PR1783618](#)

- When you run disaster recovery initialization on the standby site, it shows as in-progress in the runtime properties. [PR1783788](#)
- The VIP node is not associated to any other node when the primary database goes down while disaster recovery is in start state. For details, see [Reimage a Node and Add Back with the Same IP Address](#). [PR1796401](#)

- When you start disaster recovery through Junos Space Network Management Platform GUI, it triggers only in the active site.

Workaround: Log in to the CLI and while targetting the standby site, run the `jmp-dr start -s` command. [PR1793727](#)

- In two nodes disaster recovery, when you try to change the IP node, it becomes unreachable.

Workaround:

- If you want to change any of the VIP nodes, IP nodes or device management IPs in the disaster recovery setup, you must reset the disaster recovery and create them as two independent sites.
- Perform the required IP changes either through the CLI menu. Select Change Network Settings. Or, through the Junos Space Network Management Platform GUI under Administration > Fabric.

When the required IPs are changed, both setups are stable, and disaster recovery is recreated between the sites. [PR1792583](#)

- During disaster recovery operation, if any operation is running at the back-end during database restart, Fail in load selections data window appears. You must select OK and continue. [PR1789812](#)

## Resolved Issues

### Resolved Issues in Junos Space Network Management Platform Release 24.1R1

This section lists the issues fixed in Junos Space Network Management Platform Release 24.1R1:

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

- Purging jobs fail with An error occurred while purging the information from JobInstance and its reference tables error. [PR1788172](#)
- When user sets Out of Sync filter for Managed Status in the Device Inventory Report the system fails to generate any result. [PR1787517](#)
- After upgrading to Junos Space Network Management Platform Release 22.2R1 hot patch v3, when user cancels the Modify Template window without any changes, the Last Modified By name changes to the current user and the Last Update Time changes to the current time. Templates created on older versions also increment the latest version number. [PR1785850](#)
- Multiple jobs are stuck in-progress state. [PR1781356](#)
- After **jmp-dr** starts, there is high network traffic on both active and standby sites and database logs display 1062 error repetitively. [PR1779392](#)
- Large fileHandleLeak.log is caused by large number of python processes. [PR1778019](#)
- The user is unable to filter jobs from the job list. [PR1773076](#)
- Disaster recovery fails to synchronize sites. [PR1769758](#)
- The quick template with variable objects does not function as in the earlier schema versions. [PR1767487](#)
- Junos Space Network Management platform goes into maintenance mode frequently and displays Junos space is starting up, please wait message. [PR1765032](#)
- Adding more devices to an existing model device takes longer than usual to open. [PR1744314](#)
- When user takes longer time to response after starting the CLI command, the system displays Forgot a callback but don't know where? Use NODE\_DEBUG=fs error. [PR1742472](#)
- After running the vulnerability scan, the following vulnerability is displayed for JA2500 ssh-weak-message-authentication-code-algorithms.  
[PR1731041](#)
- The VIP node failover did not work as expected. [PR1729124](#)
- Management sessions are not in line with the GUI data. [PR1706934](#)
- The user receives an unexpected SNMP restart from all nodes and is unable to use Junos Space Network Management Platform. [PR1704320](#)
- Parallel requests to OpenNMS fails with 500 error. [PR1699620](#)
- The user receives 1000 configuration files through API request, but GUI shows more nodes. [PR1670255](#)
- After upgrading to Junos Space Network Management Platform 23.1R1, the database status shows Out of Sync because of MySQL disk space utilization.

Workaround:

1. Log in to Junos Space Network Management Platform CLI.

2. Edit the `/var/chroot/mysql/etc/ my.cnf` file, to add: `expire_log_days=3`
3. Restart MySQL service using the following command: `service mysqld restart`

[PR1748467](#)

- Resynchronization with the network fails with `java.nio.channels.ClosedChannelException` error. [PR1740818](#)
- When you upload PKCS12 format certificate, Junos Space Network Management Platform displays an error. [PR1739065](#)
- Deleted devices continue to appear in the Network Monitoring node list even after deletion. [PR1735659](#)
- The database purging policy gets stuck in Junos Space Network Management Platform resulting in no data backup. [PR1734126](#)
- When you try to discover a device using the FIPS mode or SNMP, it fails with `SNMPv3 AuthType should be SHA1 when the server is in FIPS mode` error message. [PR1732817](#)
- The configuration does not match the device in Junos Space Network Management Platform, even after resynchronization with the network. [PR1732590](#)
- While the user changes domains in the Device Management page and Job Management page, an error is displayed. [PR1731540](#)
- Starting in Junos Space Network Management Platform Release 22.3R1, user fails to upgrade ACX1100 and ACX2200 devices as the no-copy option is unavailable and the devices do not have sufficient space to hold copies of the software. [PR1717146](#)
- Junos Space Network Management Platform displays the device status as in-sync besides an option to resolve Out-of-Band (OOB) changes. [PR1661072](#)
- Junos Space Network Management Platform GUI shows incorrect number of nodes under Network Monitoring. [PR1659947](#)

## Resolved Issues in Junos Space Network Management Platform Release 24.1R2

This section lists the issues fixed in Junos Space Network Management Platform Release 24.1R2:

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

- The user is unable to assign a template to a device in Junos Space Network Management Platform. [PR1771300](#)

- When you apply a configlet on Junos Space Network Management Platform Release 24.1R1 through a North Bound Interface (NBI), the response received is empty with Status Code: 406. [PR1813422](#)
- Wrong description for part no. 750-070866 in Junos Space Network Management Platform inventory. [PR1832358](#)
- Crond service is unstable in Junos Space Network Management Platform. It restarts multiple times with several missing data. [PR1832921](#)
- The command `jmp-dr toolkit watchdog status disable-automatic-failover duration 0` fails to disable the automatic failover permanently. [PR1838157](#)
- SNMPD services stop on all Junos Space nodes after you perform jmp-dr manual failover. [PR1838492](#)
- The jmp-heartbeat service fails to check for the gateways in Network Manager files. [PR1840313](#)
- After upgrading to Junos Space Network Management Platform Release 24.1R1 Hot Patch v2, the Junos Space Network Management Platform GUI login takes longer than usual. [PR1840293](#)
- Audit template fails to perform as expected. [PR1831947](#)
- The compare template shows incorrect output. [PR1835395](#)
- When the user runs a curl on a slax script, the curl command does not give an output. [PR1822448](#)
- The management sessions in Junos Space Network Management Platform GUI are inconsistent and shows incorrect data. [PR1842159](#)
- Disaster Recovery fails to perform as expected. [PR1833673](#)
- When the user clicks the Save Filter option, Junos Space Network Management Platform GUI does not respond. [PR1814883](#)

## Resolved Issues in Junos Space Network Management Platform Release 24.1R3

This section lists the issues fixed in Junos Space Network Management Platform Release 24.1R3:

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

- Wrong description for part no. 750-070866 in Junos Space Network Management Platform inventory. [PR1832358](#)
- When you run Show ESSM PPPoE L2TP Sessions script against any Broadband Network Gateway (BNG) device in the ICEAAA workspace, the system displays an error. [PR1837248](#)

- Incorrect values appear on the Resolve Variables page. [PR1838384](#)
- When you send a query with `/api/space/`, the response returns an empty list with no services in Junos Space Network Management Platform Release 24.1R1. [PR1846772](#)
- In Junos Space Network Management Platform Release 24.1R3, the system fails to detect when the eth3 cable is down and does not move the connection to another space node. [PR1847832](#)
- When you send an API query using a tag on a device, the system shows HTTP 500 internal server error. [PR1849998](#)
- Security Director application image fails to update in Junos Space Network Management Platform Release 24.1R2.15 FIPS enabled setup with an error message. [PR1861079](#)
- The user is unable to upgrade the Junos firmware image from 23.4R2.13 to 23.4R2-S2.1 in the primary node of an SRX chassis cluster. The upgrade fails with an error. [PR1851757](#)
- Junos Space Network Management Platform GUI fails to collect logs as expected. [PR1846111](#)

## Resolved Issues in Junos Space Network Management Platform Release 24.1R4

This section lists the issues fixed in Junos Space Network Management Platform Release 24.1R4:

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

- VIP failover behavior is not working as expected when one node is suddenly removed and booted. [PR1836910](#)
- Showing wrong/previous interface description when we change service name in configlet. [PR1868430](#)
- When a device is put into RMA or deleted from Space, the DMI sessions remain active on the Space node. [PR1826249](#)
- The system displays an 'Internal Server Error' for parallel configlet jobs on a specific device when they exceed a processing time of 5 minutes. [PR1874081](#)

## Resolved Issues in Junos Space Network Management Platform Release 24.1R5

This section lists the issues fixed in Junos Space Network Management Platform Release 24.1R5:

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

- Junos Space 24.1R4 HPv1: SSH sessions stuck between devices and application node when the eth0 interface fails on a node with or without app logic master. [PR1894676](#)
- Junos Space CLI Configlet- Description value reverts back to default value i.e. "empty". [PR1899328](#)
- Scheduled Reboot job for a device shows no information regarding the device under Job Management. [PR1892468](#)
- Junos Space Disaster Recovery (DR) auto failover does not work. [PR1870409](#)
- Junos Space unable to deploy image on MX304 device. [PR1899375](#)
- Junos Space 24.1R4 HP1 shows multiple java.lang.NullPointerExceptions in log file. [PR1908931](#)
- Junos Space 24.1R4 HP1 shows too many entries for "Dmi Schema info" Schema Errors in server.log file. [PR1909077](#)
- Junos Space 24.1R4 shows Message "Save Execute Script parameters failed" after executing a Script. [PR1886730](#)

## Hot Patch Releases

### Junos Space Network Management Platform 24.1R1 Hot Patch Release

This section describes the installation procedure and resolved issues in Junos Space Network Management Platform Release 24.1R1 hot patches.

During hot patch installation, the script performs the following operations:

- Blocks the device communication.
- Stops JBoss, JBoss-dc, and watchdog services.
- Backs up existing configuration files and Enterprise Application Archive (EAR) files.
- Updates the Red Hat Package Manager (RPM) files.
- Restarts the watchdog process, which restarts JBoss and JBoss-dc services.
- Unblocks device communication after restarting the watchdog process for device load balancing.

## Installation Instructions

Perform the following steps in the CLI of the JBoss-VIP node only:

1. Download the Junos Space Platform 24.1R1 Patch vX from the [download site](#).

Here, X is the hot patch version. For example, v1, v2, and so on.

2. Copy the Space-24.1R1-Hotpatch-vX.tgz file to the /home/admin location of the VIP node.

3. Verify the checksum of the hot patch for data integrity:

```
md5sum Space-24.1R1-Hotpatch-vX.tgz.
```

4. Extract the Space-24.1R1-Hotpatch-vX.tgz file:

```
tar -zxvf Space-24.1R1-hotpatch-vX.tgz
```

5. Change the directory to Space-24.1R1-Hotpatch-vX.

```
cd Space-24.1R1-Hotpatch-vX
```

6. . Execute the patchme.sh script from the Space-24.1R1-Hotpatch-vX folder:

```
sh patchme.sh
```

The script detects whether the deployment is a standalone deployment or a cluster deployment and installs the patch accordingly.

A marker file, /etc/.Space-24.1R1-Hotpatch-vX, is created with the list of Red Hat Package Manager (RPM) details in the hot patch.

**NOTE:**

- We recommend that you install the latest available hot-patch version, which is the cumulative patch.
- Set the SSH option “ServerAliveInterval” to a minimum value of 300, when connecting to the Applogic VIP through SSH to apply the hotpatch.

Sample command: `ssh admin@x.x.x.x -o ServerAliveInterval=300`

## Resolved Issues

Table 6 on page 44 lists the resolved issues in Junos Space Network Management Platform Release 24.1R1 hot patch.

**Table 6: Resolved Issues in Junos Space Network Management Platform Release 24.1R1 Hot Patch**

| PR                        | Description                                                                                                                                                                                                                                                                                                                  | Hot Patch Version |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1758864</a> | <p>The max_log_file_action is not set to ROTATE by default. Hence, the audit file logs are not purged and <code>/var/log/audit</code> is completely filled.</p> <p>Workaround: You can set the value for max_log_file_action in <code>/etc/audit/auditd.conf</code> file as ROTATE or KEEP_LOGS as per your requirement.</p> | v2                |
| <a href="#">PR1791603</a> | Last monitoring time for nodes fail to update on the fabric page.                                                                                                                                                                                                                                                            | v2                |

**Table 6: Resolved Issues in Junos Space Network Management Platform Release 24.1R1 Hot Patch (Continued)**

| PR                        | Description                                                                                                                                                       | Hot Patch Version |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1808536</a> | The Junos Space Network Management Platform GUI is stuck and doesn't load. Displays appmgt is waiting for opennms to complete application initialization message. | v2                |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                       |    |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <a href="#">PR1814543</a> | The REST API for Junos Space Network Management Platform Release 21.2R1 is not in accordance with Junos Space Network Management Platform Release 24.1R1.                                                                                                                                                                                                                                             | v2 |
| <a href="#">PR1815872</a> | When you access Junos Space Network Management Platform 24.1R1 GUI through a browser, the ICEAAA session gets terminated with Your session has been terminated by the Administrator message.                                                                                                                                                                                                          | v2 |
| <a href="#">PR1816840</a> | Services fail when deployed with a single Jboss node in Junos Space Network Management Platform. Works when Jboss is started on the second load balancer.                                                                                                                                                                                                                                             | v2 |
| <a href="#">PR1817241</a> | While performing Test Connection in Junos Space Network Management Platform, it gets stuck with Testing.... Please wait... message.                                                                                                                                                                                                                                                                   | v2 |
| <a href="#">PR1817571</a> | <p>Gateway of eth3 interface changes to eth0 interface post installtion of Junos Space Network Management Platform.</p> <p>Workaround: When you are using a different netmask from that of eth0 interface:</p> <ol style="list-style-type: none"> <li>1. You must manually update the correct netmask from the GUI.</li> <li>2. Save and let the node reboot after the patch installation.</li> </ol> | v2 |

**Table 6: Resolved Issues in Junos Space Network Management Platform Release 24.1R1 Hot Patch (Continued)**

| PR                        | Description                                                                                                                                  | Hot Patch Version |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1817824</a> | Initial database backup in Junos Space Network Management Platform fails with Failed to backup configuration files error message.            | v2                |
| <a href="#">PR1819181</a> | Device re-synchronization in ICEAAA Manager fails when the user is not assigned to Global domain in Junos Space Network Management Platform. | v2                |

|           |                                                                                                                                                                                                                                             |    |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| PR1821198 | When eth0 interface fails on the App Logic master node, the SSH connection between the devices and the failed node does not get disconnected. Whereas the actual App Logic master node function is replaced by another node in the cluster. | v2 |
| PR1822500 | jmp-firewall takes longer than usual to restart in Junos Space Network Management Platform Release 24.1R1.                                                                                                                                  | v2 |
| PR1822712 | While editing the user group, the number of assigned users disappears in Junos Space Network Management Platform.                                                                                                                           | v2 |

**Table 6: Resolved Issues in Junos Space Network Management Platform Release 24.1R1 Hot Patch**  
(Continued)

| PR        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Hot Patch Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| PR1822987 | <p>Incorrect RAM configuration in <b>host.xml.slave</b>.</p> <p><b>NOTE:</b> To change the RAM size from the default calculated values:</p> <ol style="list-style-type: none"> <li>a. Navigate to the file located at <b>/usr/local/jboss/domain/configuration/host.xml.slave</b>.</li> <li>b. Under jvm name="platform", locate jvm-options.</li> <li>c. Change the following values within the jvm-options: <pre>xml &lt;option value="- XX:PermSize=&lt;existing value&gt;"/&gt; &lt;option value="-XX:MaxPermSize=&lt;new value&gt;"/&gt;</pre> </li> </ol> | v2                |
| PR1822993 | Script management and job management requests are different on application nodes when the API calls are made without specifying any header in Junos Space Network Management Platform Release 24.1R1.                                                                                                                                                                                                                                                                                                                                                           | v2                |

|                           |                                                                                       |    |
|---------------------------|---------------------------------------------------------------------------------------|----|
| <a href="#">PR1826265</a> | The scripts used to resolve device synchronization issue do not work as expected.     | v2 |
| <a href="#">PR1828027</a> | Multiple DMI sessions are not visible in Junos Space Network Management Platform GUI. | v2 |
| <a href="#">PR1832791</a> | The default gateway for eth3 is empty after the initial setup is complete.            | v2 |

**Table 6: Resolved Issues in Junos Space Network Management Platform Release 24.1R1 Hot Patch**  
(Continued)

| PR                        | Description                                                                                                                                                           | Hot Patch Version |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1687708</a> | The user is unable to upgrade the QFX5200-32C-32Q device from Junos Space Network Management Platform.                                                                | v1                |
| <a href="#">PR1779130</a> | Device discovery fails in Junos Space Network Management Platform when you configure the eth3 interface, and the device status shows connecting in Device Management. | v1                |

## Junos Space Network Management Platform 24.1R2 Hot Patch Release

This section describes the installation procedure and resolved issues in Junos Space Network Management Platform Release 24.1R2 hot patches.

During hot patch installation, the script performs the following operations:

- Blocks the device communication.
- Stops JBoss, JBoss-dc, and watchdog services.
- Backs up existing configuration files and Enterprise Application Archive (EAR) files.
- Updates the Red Hat Package Manager (RPM) files.

- Restarts the watchdog process, which restarts JBoss and JBoss-dc services.
- Unblocks device communication after restarting the watchdog process for device load balancing.

## Installation Instructions

Perform the following steps in the CLI of the JBoss-VIP node only:

1. Download the Junos Space Platform 24.1R2 Patch vX from the [download site](#).

Here, X is the hot patch version. For example, v1, v2, and so on.

2. Copy the Space-24.1R2-Hotpatch-vX.tgz file to the /home/admin location of the VIP node.

3. Verify the checksum of the hot patch for data integrity:

```
md5sum Space-24.1R2-Hotpatch-vX.tgz.
```

4. Extract the Space-24.1R2-Hotpatch-vX.tgz file:

```
tar -zxvf Space-24.1R2-hotpatch-vX.tgz
```

5. Change the directory to Space-24.1R2-Hotpatch-vX.

```
cd Space-24.1R2-Hotpatch-vX
```

6. . Execute the patchme.sh script from the Space-24.1R2-Hotpatch-vX folder:

```
sh patchme.sh
```

The script detects whether the deployment is a standalone deployment or a cluster deployment and installs the patch accordingly.

A marker file, /etc/Space-24.1R2-Hotpatch-vX, is created with the list of Red Hat Package Manager (RPM) details in the hot patch.



### NOTE:

- We recommend that you install the latest available hot-patch version, which is the cumulative patch.

- Set the SSH option “ServerAliveInterval” to a minimum value of 300, when connecting to the Applogic VIP through SSH to apply the hotpatch.

Sample command: `ssh admin@x.x.x.x -o ServerAliveInterval=300`

## Resolved Issues

Table 7 on page 50 lists the resolved issues in Junos Space Network Management Platform Release 24.1R2 hot patch.

**Table 7: Resolved Issues in Junos Space Network Management Platform Release 24.1R2 Hot Patch**

| PR                        | Description                                                                                                                                                | Hot Patch Version |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1861079</a> | Security Director application image fails to update in Junos Space Network Management Platform Release 24.1R2.15 FIPS enabled setup with an error message. | v1                |

## Junos Space Network Management Platform 24.1R3 Hot Patch Release

This section describes the installation procedure and resolved issues in Junos Space Network Management Platform Release 24.1R3 hot patches.

During hot patch installation, the script performs the following operations:

- Blocks the device communication.
- Stops JBoss, JBoss-dc, and watchdog services.
- Backs up existing configuration files and Enterprise Application Archive (EAR) files.
- Updates the Red Hat Package Manager (RPM) files.

- Restarts the watchdog process, which restarts JBoss and JBoss-dc services.
- Unblocks device communication after restarting the watchdog process for device load balancing.

## Installation Instructions

Perform the following steps in the CLI of the JBoss-VIP node only:

1. Download the Junos Space Platform 24.1R3 Patch vX from the [download site](#).

Here, X is the hot patch version. For example, v1, v2, and so on.

2. Copy the Space-24.1R3-Hotpatch-vX.tgz file to the /home/admin location of the VIP node.

3. Verify the checksum of the hot patch for data integrity:

```
md5sum Space-24.1R3-Hotpatch-vX.tgz.
```

4. Extract the Space-24.1R3-Hotpatch-vX.tgz file:

```
tar -zxvf Space-24.1R3-hotpatch-vX.tgz
```

5. Change the directory to Space-24.1R3-Hotpatch-vX.

```
cd Space-24.1R3-Hotpatch-vX
```

6. . Execute the patchme.sh script from the Space-24.1R3-Hotpatch-vX folder:

```
sh patchme.sh
```

The script detects whether the deployment is a standalone deployment or a cluster deployment and installs the patch accordingly.

A marker file, /etc/Space-24.1R3-Hotpatch-vX, is created with the list of Red Hat Package Manager (RPM) details in the hot patch.



### NOTE:

- We recommend that you install the latest available hot-patch version, which is the cumulative patch.

- Set the SSH option “ServerAliveInterval” to a minimum value of 300, when connecting to the Applogic VIP through SSH to apply the hotpatch.

Sample command: `ssh admin@x.x.x.x -o ServerAliveInterval=300`

- You must install Junos Space Network Management Platform Release 24.1R3 HPv1 only on Junos Space Network Management Platform Release 24.1R3.

## Resolved Issues

Table 8 on page 52 lists the resolved issues in Junos Space Network Management Platform Release 24.1R3 hot patch.

**Table 8: Resolved Issues in Junos Space Network Management Platform Release 24.1R3 Hot Patch**

| PR                        | Description                                                                                                                                             | Hot Patch Version |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1860312</a> | When the user switches to a different window in Junos Space Network Management Platform, the delete user functionality gets disabled under User Groups. | v1                |
| <a href="#">PR1860367</a> | Junos Space Network Management Platform sends authentication requests to TACAS for a local user.                                                        | v1                |
| <a href="#">PR1860507</a> | SSH connection to the nodes fails with an error in Junos Space Network Management Platform Release 24.1R2.                                              | v1                |
| <a href="#">PR1849459</a> | The scripts used to perform checks on the MX Series Router do not work as expected.                                                                     | v1                |

**Table 8: Resolved Issues in Junos Space Network Management Platform Release 24.1R3 Hot Patch**  
(Continued)

| PR                        | Description                                                                                                                                                                              | Hot Patch Version |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1864861</a> | Junos Space Network Management Platform Release 24.1R3 fails to display the Summary and End Time details for Put Device in RMA State type jobs. It directly shows the status as Success. | v1                |
| <a href="#">PR1826265</a> | The scripts used to resolve device synchronization issue do not work as expected.                                                                                                        | v1                |
| <a href="#">PR1849459</a> | The scripts used to perform checks on the MX Series Router do not work as expected.                                                                                                      | v2                |
| <a href="#">PR1874673</a> | The slax script NE Support - Disable All Access Interfaces.slax inserted additional authorization in the result output.                                                                  | v2                |
| <a href="#">PR1875604</a> | The slax script NE_FPC_collect_and_restart.slax included unexpected output in the result.                                                                                                | v2                |
| <a href="#">PR1876027</a> | The slax script NE_RE-Master-Restart-local.slax added additional authorization strings into the output payload.                                                                          | v2                |

## Junos Space Network Management Platform 24.1R4 Hot Patch Release

This section describes the installation procedure and resolved issues in Junos Space Network Management Platform Release 24.1R4 hot patches.

During hot patch installation, the script performs the following operations:

- Blocks the device communication.

- Stops JBoss, JBoss-dc, and watchdog services.
- Backs up existing configuration files and Enterprise Application Archive (EAR) files.
- Updates the Red Hat Package Manager (RPM) files.
- Restarts the watchdog process, which restarts JBoss and JBoss-dc services.
- Unblocks device communication after restarting the watchdog process for device load balancing.

## Installation Instructions

Perform the following steps in the CLI of the JBoss-VIP node only:

1. Download the Junos Space Platform 24.1R4 Patch vX from the [download site](#).

Here, X is the hot patch version. For example, v1, v2, and so on.

2. Copy the Space-24.1R4-Hotpatch-vX.tgz file to the /home/admin location of the VIP node.
3. Verify the checksum of the hot patch for data integrity:

```
md5sum Space-24.1R4-Hotpatch-vX.tgz.
```

4. Extract the Space-24.1R4-Hotpatch-vX.tgz file:

```
tar -zxvf Space-24.1R4-hotpatch-vX.tgz
```

5. Change the directory to Space-24.1R4-Hotpatch-vX.

```
cd Space-24.1R4-Hotpatch-vX
```

6. . Execute the patchme.sh script from the Space-24.1R4-Hotpatch-vX folder:

```
sh patchme.sh
```

The script detects whether the deployment is a standalone deployment or a cluster deployment and installs the patch accordingly.

A marker file, /etc/.Space-24.1R4-Hotpatch-vX, is created with the list of Red Hat Package Manager (RPM) details in the hot patch.



### NOTE:

- We recommend that you install the latest available hot-patch version, which is the cumulative patch.

- Set the SSH option “ServerAliveInterval” to a minimum value of 300, when connecting to the Applogic VIP through SSH to apply the hotpatch.  
  
Sample command: `ssh admin@x.x.x.x -o ServerAliveInterval=300`
- You must install Junos Space Network Management Platform Release 24.1R4 HPv1 only on Junos Space Network Management Platform Release 24.1R4.

# New and Changed Features in Junos Space Network Management Platform Release 24.1R4 Hot Patch

Junos Space® Network Management Platform Release 24.1R4 Hot Patch supports the following enhancements:

Support for Network Director—Starting in Junos Space Network Management Platform 24.1 R4 hot patch V2, we provide support for ND7.1R2.

## Resolved Issues

[Table 8 on page 52](#) lists the resolved issues in Junos Space Network Management Platform Release 24.1R4 hot patch.

**Table 8: Resolved Issues in Junos Space Network Management Platform Release 24.1R4 Hot Patch**

| PR                        | Description                                                                                                   | Hot Patch Version |
|---------------------------|---------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1868484</a> | Some API endpoints return different response versions when the accept header is not specified in the request. | v1                |
| <a href="#">PR1871764</a> | The Junos Space image deployment command for an EX Virtual Chassis fails with 'No packages added' error.      | v1                |

|                           |                                                                                                                            |    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|----|
| <a href="#">PR1886727</a> | The Exec RPC and Configlet functions do not accept HTML content within the request body.                                   | v1 |
| <a href="#">PR1842395</a> | JBoss fails to start up after the eth0 interface is disconnected and subsequently reconnected to the previous VIP address. | v1 |
| <a href="#">PR1894490</a> | Space: Unable to establish connection with device (DeviceId: #####). because all channels are busy                         | v2 |

# Junos Space Network Management Platform 24.1R5

## Hot Patch Release

This section describes the installation procedure and resolved issues in Junos Space Network Management Platform Release 24.1R5 hot patches.

During hot patch installation, the script performs the following operations:

- Blocks the device communication.

- Stops JBoss, JBoss-dc, and watchdog services.
- Backs up existing configuration files and Enterprise Application Archive (EAR) files.
- Updates the Red Hat Package Manager (RPM) files.
- Restarts the watchdog process, which restarts JBoss and JBoss-dc services.
- Unblocks device communication after restarting the watchdog process for device load balancing.

## Installation Instructions

Perform the following steps in the CLI of the JBoss-VIP node only:

1. Download the Junos Space Platform 24.1R5 Patch vX from the [download site](#).

Here, X is the hot patch version. For example, v1, v2, and so on.

2. Copy the Space-24.1R5-Hotpatch-vX.tgz file to the /home/admin location of the VIP node.
3. Verify the checksum of the hot patch for data integrity:

```
md5sum Space-24.1R5-Hotpatch-vX.tgz.
```

4. Extract the Space-24.1R5-Hotpatch-vX.tgz file:

```
tar -zxvf Space-24.1R5-hotpatch-vX.tgz
```

5. Change the directory to Space-24.1R4-Hotpatch-vX.

```
cd Space-24.1R5-Hotpatch-vX
```

6. . Execute the patchme.sh script from the Space-25.1R4-Hotpatch-vX folder:

```
sh patchme.sh
```

The script detects whether the deployment is a standalone deployment or a cluster deployment and installs the patch accordingly.

A marker file, /etc/Space-24.1R5-Hotpatch-vX, is created with the list of Red Hat Package Manager (RPM) details in the hot patch.



### NOTE:

- We recommend that you install the latest available hot-patch version, which is the cumulative patch.

- Set the SSH option “ServerAliveInterval” to a minimum value of 300, when connecting to the Applogic VIP through SSH to apply the hotpatch.

Sample command: `ssh admin@x.x.x.x -o ServerAliveInterval=300`

- You must install Junos Space Network Management Platform Release 24.1R5 HPv1 only on Junos Space Network Management Platform Release 24.1R5.

## Resolved Issues

Table 9 on page 59 lists the resolved issues in Junos Space Network Management Platform Release 24.1R5 hot patch.

**Table 9: Resolved Issues in Junos Space Network Management Platform Release 24.1R5 Hot Patch**

| PR                        | Description                                                                                                | Hot Patch Version |
|---------------------------|------------------------------------------------------------------------------------------------------------|-------------------|
| <a href="#">PR1912708</a> | Template Deploy job fails, but still, the template version on the device matches the failed job.           | v1                |
| <a href="#">PR1894227</a> | Space reports the status "Device Change" after performing RG0 failover on SRX device running junOS 24.4R1. | v1                |
| <a href="#">PR1920652</a> | Schema URL does not update to the new link after upgrading to Space 24.1R5.                                | v2                |
| <a href="#">PR1918825</a> | Device auto resync does not work in Space.                                                                 | v2                |
| <a href="#">PR1924563</a> | Timeout and Sync failure on multiple devices.                                                              | v2                |

|                           |                                                                                                                       |    |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|----|
| <a href="#">PR1908962</a> | Line-ID search does not work if the user no API access permission.                                                    | v2 |
| <a href="#">PR1931635</a> | Junos Space 24.1R5 , cannot connect to DMI schema server through Proxy.                                               | v3 |
| <a href="#">PR1923009</a> | After Device in clustes failover, Network Management Platform show device as unknown in manage status.                | v3 |
| <a href="#">PR1893745</a> | In Junos Space Network Management Platform Release 24.1R4, the timeframe filter shows empty result in Job management. | v3 |
| <a href="#">PR1905590</a> | The NE Support- Clean Up Sync Failed Device.slax script fails to generate any output.                                 | v3 |
| <a href="#">PR1955711</a> | Device status remains in InSync after making changes on device CLI.                                                   | v4 |
| <a href="#">PR1952121</a> | Security Director has conflicts on VPN site to site when installing DMISchema.                                        | v4 |
| <a href="#">PR1956549</a> | Incorrect primary node displayed after SRX4600 chassis cluster failover.                                              | v4 |
| <a href="#">PR1929610</a> | Firewall policies rules are not working as expected in configuration.                                                 | v4 |
| <a href="#">PR1941958</a> | Security Director does not install firewall policy rule to local Firewall.                                            | v4 |

# Revision History

| Release                                                     | Release Date               | Updates                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Junos Space Network Management Platform 24.1R5 Hotpatch v4  | 16 July, 2026—Revision 16  | Added Resolved Issues                                                                                                                                                                                                                                                                           |
| Junos Space Network Management Platform 24.1R5 Hotpatch v3. | 26 March, 2026—Revision 15 | Added Resolved Issues                                                                                                                                                                                                                                                                           |
| Junos Space Network Management Platform 24.1R5 Hotpatch v2. | 29 Jan, 2026—Revision 14   | Added Resolved Issues                                                                                                                                                                                                                                                                           |
| Junos Space Network Management Platform 24.1R5 Hotpatch v1. | 6 Nov, 2025—Revision 13    | Added Resolved Issues                                                                                                                                                                                                                                                                           |
| Junos Space Network Management Platform 24.1R5.             | 30 Sep, 2025—Revision 12   | Updated the following: <ul style="list-style-type: none"> <li>• New and Changed Features section</li> <li>• Supported Junos Os Releases</li> <li>• Added Resolved Issues</li> <li>• Replaced PR 1898921 with PR1894490 in Junos Space Network Management Platform 24.1R4 Hotpatch V2</li> </ul> |
| Junos Space Network Management Platform 24.1R4 Hotpatch v2. | 22 Sep, 2025—Revision 11   | Added Resolved Issues and New and Changed Features.                                                                                                                                                                                                                                             |
| Junos Space Network Management Platform 24.1R4 Hotpatch v1. | 2 July, 2025—Revision 10   | Added Resolved Issues                                                                                                                                                                                                                                                                           |
| Junos Space Network Management Platform 24.1R4.             | 29 May, 2025—Revision 9    | Added Resolved Issues                                                                                                                                                                                                                                                                           |

|                                                             |                              |                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Junos Space Network Management Platform 24.1R3 Hotpatch v2. | 05 May, 2025—Revision 8      | <p>Updated the following:</p> <ul style="list-style-type: none"> <li>• Added Resolved Issues in the Hot Patch</li> <li>• PR1793725 removed from 24.1R1 Known Issue</li> <li>• PR1862025 removed from 24.1R3 Known Issue</li> <li>• PR1836787 removed from 24.1HPv2 Known Issue</li> </ul> |
| Junos Space Network Management Platform 24.1R3 Hotpatch v1. | 13 March, 2025—Revision 7    | Added Resolved Issues in the Hot Patch                                                                                                                                                                                                                                                    |
| Junos Space Network Management Platform 24.1R2 Hotpatch v1. | 11 February, 2025—Revision 6 | Added a Resolved Issue in the Hot Patch                                                                                                                                                                                                                                                   |
| Junos Space Network Management Platform 24.1R3.             | 3 February, 2025—Revision 5  | <p>Updated the following:</p> <ul style="list-style-type: none"> <li>• New and Changed Features section</li> <li>• Added Resolved Issues</li> <li>• Added Known Issues</li> <li>• Removed EOled devices under Supported Devices section.</li> </ul>                                       |

**(Continued)**

| Release                                                     | Release Date                  | Updates                                                                                                                       |
|-------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Junos Space Network Management Platform 24.1R2.             | 7 November, 2024—Revision 4   | Added Resolved Issues                                                                                                         |
| Junos Space Network Management Platform 24.1R1 Hotpatch v2. | 19 September, 2024—Revision 3 | Added the following in the Hot Patch: <ul style="list-style-type: none"> <li>Resolved issues</li> <li>Known issues</li> </ul> |
| Junos Space Network Management Platform 24.1R1 Hotpatch v1. | 28 June, 2024—Revision 2      | Added Resolved Issues                                                                                                         |
| Junos Space Network Management Platform 24.1R1.             | 25 April, 2024—Revision 1     | Initial Release Notes                                                                                                         |

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