

Release Notes

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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 22.3R1.

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

New and Changed Features

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 the SRX1600 firewall—Starting in Junos Space Network Management Platform Release Hot Patch 23.1R1, we provide support for the SRX1600 device.
- Support for the SRX2300 firewall—Starting in Junos Space Network Management Platform Release Hot Patch 23.1R1, we provide support for the SRX2300 device.
- 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.
- Discontinued support for Network Director—Starting in Junos Space Network Management Platform Release 24.1R1, we no longer support Network Director.

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.

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

IN THIS SECTION

- [Supported Upgrade Path | 3](#)
- [Upgrade Notes | 5](#)
- [Instructions for Validating the Junos Space Network Management Platform OVA Image | 5](#)

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 3](#)
- ["Upgrade Notes" on page 5](#)
- ["Instructions for Validating the Junos Space Network Management Platform OVA Image" on page 5](#)

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	Upgrade to Junos Space Release									
Junos Space Release	20.1	20.3	21.1	21.2	21.3	22.1	22.2	22.3	23.1	24.1
20.1		Yes								
20.3			Yes							
21.1				Yes	Yes					
21.2					Yes	Yes				
21.3						Yes	Yes			
22.1							Yes	Yes		
22.2								Yes	Yes	
22.3									Yes	
23.1										Yes

Related Information

- [Upgrading Junos Space Network Management Platform Overview](#)
- [Juniper Networks Devices Supported by Junos Space Network Management Platform](#)
- [Upgrading Junos Space Network Management Platform](#)

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.

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-lsillogic
```

```
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: 64 GB
- 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 releases a compatible version of the Junos Space application.

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 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	ACX500	Junos Space Platform 14.1R2 or later
	ACX710	Junos Space 20.1R1 hot patch v1 or later
	ACX1000	Junos Space Platform 12.2 or later
	ACX1100	Junos Space Platform 12.3 or later
	ACX2000	Junos Space Platform 12.2 or later
	ACX2100	Junos Space Platform 12.3 or later
	ACX2200	Junos Space Platform 12.3 or later
	ACX4000	Junos Space Platform 13.1 or later
	ACX5048	Junos Space Platform 15.1 or later
	ACX5096	Junos Space Platform 15.1 or later
	ACX5448	Junos Space Platform 18.4 or later
BX Series	BX7000	Junos Space Platform 11.3 or later
EX Series	EX2200	Junos Space Platform 16.1 or later
	EX2300	Junos Space Platform 15.2R2 or later

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

Product Series	Model	Junos Space Platform Release
	EX2300-24MP	Junos Space Platform 18.1 or later
	EX2300-48MP	Junos Space Platform 17.2 or later
	EX3300	Junos Space Platform 11.4 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
	EX4100-F-12P	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-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
	EX4500	Junos Space Platform 12.2 or later
	EX4550	Junos Space Platform 12.2 or later
	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
	EX6210	Junos Space Platform 11.4 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
	EX9251	Junos Space Platform 18.1 or later
	EX9253	Junos Space Platform 18.2 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

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

Product Series	Model	Junos Space Platform Release
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
	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
LN Series	LN1000	Junos Space Platform 12.3 or later
	LN2600	Junos Space Platform 12.3 or later

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

Product Series	Model	Junos Space Platform Release
M Series	M7i	Junos Space Platform 16.1 or later
	M10i	
	M40e	
	M120	
	M320	
MCG Series	MCG5000	Junos Space Platform 11.3 or later
MX Series	MX5	Junos Space Platform 12.1 or later
	MX10	Junos Space Platform 11.4 or later
	MX80	Junos Space Platform 14.1 or later
	MX104	Junos Space Platform 13.2 or later
	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
	MX10003	Junos Space Platform 18.4 or later
	MX10008	Junos Space Platform 18.4 or later
	MX10016	Junos Space Platform 18.4 or later

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

Product Series	Model	Junos Space Platform Release
	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	PTX1000	Junos Space Platform 17.1 or later
	PTX3000	Junos Space Platform 13.2 or later
	PTX5000	Junos Space Platform 12.3 or later
	PTX10008	Junos Space Platform 17.2 or later
	PTX10016	Junos Space Platform 17.2 or later
	PTX10001-20C	Junos Space Platform 18.3R1 or later
QFX Series	QFX3000	Junos Space Platform 12.2 or later
	QFX3000-G	Junos Space Platform 12.2 or later
	QFX3000-M	Junos Space Platform 12.2 or later
	QFX3500	Junos Space Platform 12.3 or later
	QFX3600	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
	QFX5100	Junos Space Platform 13.2 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	SRX100	Junos Space Platform 11.4 or later
	SRX110H-VB	Junos Space Platform 13.1 or later
	SRX210	Junos Space Platform 13.1 or later
	SRX220	Junos Space Platform 13.1 or later
	SRX240	Junos Space Platform 13.1 or later
	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

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

Product Series	Model	Junos Space Platform Release
	SRX345	Junos Space Platform 15.1R2 or later
	SRX380	Junos Space 20.1R1 hot patch v1 or later
	SRX550	Junos Space Platform 15.1R2 or later
	SRX550-M	Junos Space Platform 15.1R2 or later
	SRX650	Junos Space Platform 13.1 or later
	SRX1400	Junos Space Platform 16.1 or later
	SRX1500	Junos Space Platform 15.1R2 or later
	SRX1600	Junos Space Platform 24.1R1 or later
	SRX2300	Junos Space Platform 24.1R1 or later
	SRX3400	Junos Space Platform 14.1R1 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

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

Product Series	Model	Junos Space Platform Release
	SRX5400	Junos Space Platform 13.2 or later
	SRX5600	Junos Space Platform 18.2 or later
	SRX5800	Junos Space Platform 13.3 or later
	SRX3600	Junos Space Platform 13.3 or later
Virtual SRX Series	vSRX Virtual Firewall 3.0	Junos Space Platform 18.2 or later
T Series	T4000	Junos Space Platform 12.2 or later
Virtual MX Series	vMX	Junos Space Platform 15.1 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 21](#).

[Table 3 on page 21](#) 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 or later	18.4R1.8 18.4R1.8
	EX2200	12.3R12-S10 14.1X53-D44.3 or later	12.3R12-S10 14.1X53-D44.3
	EX2300	18.1R3.3 18.4R1.8 or later 20.4R3-Sx	18.1R3.3 18.4R1.8 20.2R3
	EX2300-24T	21.4R3-S1	21.4R3-S1.5
	EX3300	12.3R12-S10 15.1R7.9 or later	12.3R12-S10 15.1R7.9
	EX3400	18.1R3.3 18.4R1.8 or later	18.1R3.3 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

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
	EX4100-48MP	22.3R1.12	22.3R1.12
	EX4100-F-12P	22.3R1.12	22.3R1.12
	EX4100-F-12T	22.3R1.12	22.3R1.12
	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	17.3R3-S1.5
		18.4R1.8 or later	18.4R1.8
	EX4300-48MP	17.3R3-S1.5	-
		18.4R1.8 or later	18.4R1.8
	EX4400-24P	21.1R1.11 or later	21.1R1.11
	EX4400-24MP	21.2R1.10 or later	21.2R1.10

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
	EX4400-48MP	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
	EX4400-48P	21.1R1.11 or later 21.4R3-S1	21.1R1.11 or later 21.4R3-S1.5
	EX4400-48T	21.1R1.11 or later	21.1R1.11 or later
	EX4400-24X	22.3R1.2	22.3R1.2
	EX4500	15.1R7.9 or later	15.1R7.9
	EX4550	15.1R7.9 or later	15.1R7.9
	EX4600	17.3R3-S1.5 18.4R1.8 or later	17.3R3-S1.5 18.4R1.8
	EX4650	18.4R1.8 or later 20.4/R3	18.4R1.8 20.2R3-S1
	EX4650-48Y-8C	21.4R3-S1	21.4R3-S1.5
	EX9200	17.3R3-S1.5 18.3R1.9 or later	17.3R3-S1.5 18.3R1.9

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
	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
<i>EX Virtual Chassis</i>	EX4200-VC	12.2R1 or later	15.1R7.9
	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 18.4R1.8
	MX480	13.2R2.4 or later	17.3R3-S2.2 17.3R3.9 19.1R1.6
	MX10003	18.4R1.8 or later	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
	MX10008	18.4R1.8 or later	18.4R1.8
	MX10016	18.4R1.8 or later	18.4R1.8
	MX960	21.2R1.6 or later 21.2R1.8 or later	21.2R1.6 21.2R1.8
SRX Series	SRX380	20.2R1	20.2R1
	SRX300	20.2R3-S2	20.2R3-S2.5
	SRX320	20.2R3-S2 21.2R3-S2.9	20.2R3-S2.5 21.2R3.8
	SRX340	21.2R3-S2.9	21.2R3.8
	SRX345	21.2R3-S2.9	21.2R3.8
	SRX550M	21.2R3-S2.9	21.2R3.8
	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

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
	SRX5600	20.4R3-S1 21.2R3-S2.9	20.4R3-S1 21.2R3.8
	SRX5800	20.4R3-S1 21.2R3-S2.9	20.4R3-S1 21.2R3.8
	SRX550	20.2R3-S2	20.4R3-S1
	SRX550-645AP-M	20.2R3-S2.5	20.2R3-S2.5
QFX Series	QFX5100	17.3R3 or later	17.3R3-S1.5 18.4R1.8
	QFX5110-32Q	17.3R3 or later	17.3R3-S1.5 19.1R1.6
	QFX5110-48S	17.3R3-S1.5 19.1R1.6 or later	17.3R3-S1.5 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 18.4R1.8
	QFX5200-32C-32Q	21.2R3.8	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
	QFX10002-36Q	17.3R3 or later	17.3R3-S1.5 19.1R1.6
	QFX10002-36Q-DC	17.3R3 or later	17.3R3-S1.5 19.1R1.6
	QFX10002-60C	17.3R3 or later	17.3R3-S1.5 19.1R1.6
	QFX10002-72Q	17.3R3 or later 21.2R3.8	17.3R3-S1.5 19.1R1.6 21.2R3.8
	QFX10002-72Q-DC	17.3R3-S1.5 or later	17.3R3-S1.5
	QFX10008	17.3R3 or later	17.3R3.9 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 29](#).

Supported Junos OS Releases

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

- Junos OS Release 20.3
- Junos OS Release 21.1
- Junos OS Release 21.2
- Junos OS Release 21.3
- Junos OS Release 22.1
- Junos OS Release 22.2
- Junos OS Release 22.3
- Junos OS Release 23.1
- Junos OS Release 24.1

Table 4: Release History

Release value	Description
24.1	Junos OS Release 24.1
23.1	Junos OS Release 23.1
22.3	Junos OS Release 22.3

Table 4: Release History *(Continued)*

Release value	Description
22.2	Junos OS Release 22.2
22.1	Junos OS Release 22.1
21.3	Junos OS Release 21.3
21.2	Junos OS Release 21.2
21.1	Junos OS Release 21.1
20.3	Junos OS Release 20.3

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.

- 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 ww 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 rest 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) 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

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](#)
- The user session gets terminated by the administrator when the disaster recovery initialization is in progress on the standby site. [PR1793725](#)
- 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 backend during database restart, Fail in load selections data window appears. You must select **OK** and continue. [PR1789812](#)
- Last monitoring time for nodes fail to update on the fabric page. [PR1791603](#)

Resolved Issues

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 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 Forgor 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](#)

Hot Patch Releases

IN THIS SECTION

- [Installation Instructions | 42](#)
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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 via SSH to apply the hotpatch.

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

Resolved Issues

[Table 5 on page 43](#) lists the resolved issues in Junos Space Network Management Platform Release 24.1R1 hot patch.

Table 5: Resolved Issues in Junos Space Network Management Platform Release 24.1R1 Hot Patch

PR	Description	Hot Patch Version
PR1687708	The user is unable to upgrade the QFX5200-32C-32Q device from the Junos Space Network Management Platform.	v1

Table 5: Resolved Issues in Junos Space Network Management Platform Release 24.1R1 Hot Patch
(Continued)

PR	Description	Hot Patch Version
PR1779130	Device discovery fails in the Junos Space Network Management Platform when you configure the eth3 interface, and the device status shows connecting in Device Management .	v1

Revision History

25 April, 2024—Revision 1-Junos Space Network Management Platform 24.1R1.

28 June, 2024—Revision 2-Junos Space Network Management Platform 24.1R1 Hotpatch v1.

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