

Junos Space Network Director Release 4.0R1 Release Notes

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Revision 2

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Introduction

Junos Space Network Director enables unified management of EX Series Ethernet Switches, MX Series routers, QFX Series switches, and Junos Fusion Enterprise in your network. It provides for full network life cycle management by simplifying the discovery, configuration, visualization, monitoring, and administration of large networks containing physical and virtual devices. You can download the software images for Network Director, Junos Space Management Platform, management packs, and the release notes for Network Director Release 4.0R1 by using the appropriate links on the [Junos Space—Software Download](#) page.

Release Notes for Junos Space Network Director

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These release notes accompany Network Director Release 4.0R1:

New and Changed Features

Starting with Release 4.0R1, Network Director supports the following new and changed features:

- We've introduced the VC Equipment Summary tab to display the operational status of the Virtual Chassis members.
- [Table 1 on page 4](#) lists the supported platforms for Network Director Release 4.0R1 and the corresponding qualified Junos OS releases.

Table 1: Supported Platforms and Qualified Software Versions for Network Director

Supported Platforms	Qualified Junos OS Releases
EX Series Switches	
EX2200 (standalone and Virtual Chassis)	Junos OS Release 12.3R12-S12
EX2300-24MP (Standalone and Virtual Chassis)	Junos OS Release 18.2R3-S2.9
EX3300 (standalone and Virtual Chassis)	Junos OS Release 12.3R12-S12
EX3400	Junos OS Releases 18.2R3-S2.9 and 19.4R1.10
EX4200 (standalone and Virtual Chassis)	Junos OS Release 12.3R12-S12
EX4300 (standalone)	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
EX4300 Virtual Chassis	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
EX4300-48MP	Junos OS Releases 18.4R2-S2.3, and 19.4R1.10
EX4600 (standalone and Virtual Chassis)	Junos OS Releases 18.4R2-S2.3
EX4650	Junos OS Release 18.4R2-S2.3
EX9200 (standalone and Virtual Chassis)	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
MX Series Routers	
MX240	Junos OS Release 17.3R3-S6 and 19.4R1.10
MX480	Junos OS Release 17.3R3-S6

Table 1: Supported Platforms and Qualified Software Versions for Network Director (continued)

Supported Platforms	Qualified Junos OS Releases
MX2020	Junos OS Release 19.4R1.10
QFX Series Switches	
QFX10008	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
QFX10002	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
QFX10002-60C	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
QFX5200 switches with the following product SKUs: QFX5200-48Y	Junos OS Release 18.4R2-S2.3
QFX5200 switches with the following product SKUs: QFX5200-32C-AF QFX5200-32C-AFO QFX5200-32C-DC-AFI QFX5200-32C-DC-AFO	Junos OS Release 18.4R2-S2.3
QFX5100 switches with the following product SKUs: QFX5100-48S-3AFI QFX5100-24Q-3AFI QFX5100-24Q-3AFO QFX5100-24Q-D-3AFI QFX5100-24Q-D-3AFO QFX5100-48T-AFI QFX5100-48T-AFO QFX5100-48T-DC-AFI QFX5100-48T-DC-AFO	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
QFX5110 switches with the following product SKUs: QFX5110-32Q QFX5110-48S	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10
QFX5120-48Y-8C	Junos OS Release 18.4R2-S2.3
QFX5210-64C	Junos OS Releases 18.4R2-S2.3 and 19.4R1.10

Supported Platforms

[Table 2 on page 6](#) lists Juniper Networks line cards supported by Network Director Release 4.0R1.

Table 2: Supported Line Cards

Device	Line Cards
MX240	MPC10E-10C-X
MX480	SCBE3-MX-S
	SCBE3-MX-BB
	SCBE3-MX-R
	MPC10E-15C-X
	MPC10E-10C-X
MX960	5K-AC-PSM
	HV-PSM
MX10008	JNP10008-FAN2
	JNP10008-FTC2
	JNP10K-PWR5500-AC
	JNP10K-PWR5500-DC
MX10016	JNP10016-FAN2
	JNP10016-FTC2
	JNP10K-PWR5500-DC

[Table 3 on page 7](#) lists the supported platforms for Network Director Release 4.0R1 and the corresponding qualified Junos OS releases.

NOTE: ACX710 platform is supported only in the latest hot patch versions of Junos Space Network Management Platform Release 20.1R1 and Network Director.

Table 3: Supported Platforms and Software Versions for Network Director

Supported Platforms	Qualified Junos OS Release Version
EX Series Switches	
EX2200 (standalone and Virtual Chassis)	Junos OS Releases 12.2, 12.3, 12.3R12-S10, 12.3R12-S12, 13.2X50-D10, 13.2X50-D15, 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D44.3, 14.1X53-D15, 14.1X53-D25, 15.1R1, 14.1X53-D40.8, and 14.1X53-D35, 14.1X53-D42.3 (For all the EX Series switches)
EX2200-C (standalone and Virtual Chassis)	Junos OS Releases 12.2, 12.3, 12.3R12-S10, 13.2X50-D10, 13.2X50-D15, 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D44.3, 14.1X53-D15, 14.1X53-D25, 15.1R1, 14.1X53-D40.8, and 14.1X53-D35, 14.1X53-D42.3 (For all the EX Series switches)
EX2300	Junos OS Releases 15.1X53-D50, 15.1X53-D51, 15.1X53-D52, 15.1X53-D55.5, 15.1X53-D56, 18.1R3.3, 18.2R3-S2.9, and 18.4R1.8
EX2300-48T EX2300-48P	Junos OS Releases 15.1X53-D55, 18.1R3.3, 18.2R3-S2.9, and 18.4R1.8
EX2300-24MP (Standalone and Virtual Chassis) EX2300-48MP (Standalone and Virtual Chassis)	Junos OS Releases 18.1R1, 18.1R3.3, 18.2R3-S2.9, and 18.4R1.8
EX3200 EX4500 (standalone and Virtual Chassis) Mixed , EX4500, and EX4550 Virtual Chassis EX6200 EX8200 (standalone and Virtual Chassis)	Junos OS Releases 12.2, 12.3, 13.2X50-D10, 13.2X50-D15, 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D15, 14.1X53-D25, 15.1R1, 14.1X53-D40.8, 14.1X53-D35, and 14.1X53-D42.3 (For all the EX Series switches)
EX3300 (standalone and Virtual Chassis)	Junos OS Releases 12.2, 12.3, 12.3R12-S10, 13.2X50-D10, 13.2X50-D15, 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D15, 14.1X53-D25, 15.1R1, 14.1X53-D40.8, 14.1X53-D35, 14.1X53-D42.3, (For all the EX Series switches), 15.1R7.9, and 12.3R12-S12

Table 3: Supported Platforms and Software Versions for Network Director (*continued*)

Supported Platforms	Qualified Junos OS Release Version
EX3400	Junos OS Releases 15.1X53-D50, 15.1X53-D51, 15.1X53-D52, 15.1X53-D55.5, 15.1X53-D56, 18.1R3.3, 18.4R1.8, 18.2R3-S2.9, and 19.4R1.10
EX3400-24P EX3400-24T EX3400-48P EX3400-48T	Junos OS Release 15.1X53-D55, 15.1X53-D56, 18.1R3.3, 18.4R1.8, 18.2R3-S2.9, and 19.4R1.10
EX4200 (standalone and Virtual Chassis)	Junos OS Releases 12.2, 12.3, 12.3R12-S12, 13.2X50-D10, 13.2X50-D15, 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D15, 14.1X53-D25, 15.1R1, 14.1X53-D40.8, 14.1X53-D35, 14.1X53-D42.3 (For all the EX Series switches), and 15.1R7.9
EX4300 (standalone)	Junos OS Releases 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D27, 14.1X53-D40.8, 14.1X53-D42.3, 17.3R3-S1, 18.4R1.8, 18.4R2-S2.3, and 19.4R1.10
EX4300 Virtual Chassis	<p>Junos OS Releases 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D27, 14.1X53-D40.8, 14.1X53-D42.3, 18.4R2-S2.3, and 19.4R1.10</p> <p>NOTE: The primary switch in EX4300 Virtual Chassis must be running Junos OS Release 13.2X51-D20 or later for auto Virtual Chassis Resync to work. If this is not the case, the role changes and the addition or deletion of members will not reflect in Network Director.</p>
EX4300-48MP	Junos OS Releases 18.3R1, 18.4R2-S2.3, and 19.4R1.10
EX4550 (standalone and Virtual Chassis)	Junos OS Releases 12.2, 12.3, 13.2X50-D10, 13.2X50-D15, 13.2X51-D15, 13.2X51-D20, 13.2X51-D30, 14.1X53-D15, 14.1X53-D25, 15.1R1, 14.1X53-D40.8, 14.1X53-D35, 14.1X53-D42.3 (For all the EX Series switches), and 15.1R7.9

Table 3: Supported Platforms and Software Versions for Network Director (*continued*)

Supported Platforms	Qualified Junos OS Release Version
EX4600 (standalone and Virtual Chassis)	Junos OS Releases 13.2X51-D25, 14.1X53-D10, 14.1X53-D16, 14.1X53-D25, 14.1X53-D27, 14.1X53-D35, 14.1X53-D40.8, 14.1X53-D42, 17.3R3-S1.5, 18.4R1.8, and 18.4R2-S2.3
EX4650	Junos OS Releases 18.4R1.8 and 18.4R2-S2.3
Mixed EX4600 and EX4300 Virtual Chassis	Junos OS Releases 14.1X53-D25, 14.1X53-D35.3, and 18.4R2-S2.3 (For all the EX Series switches)
EX9200 (standalone and Virtual Chassis)	Junos OS Releases 16.1R1, 17.1R1.8, 17.2R1.13, 17.4R1.16, 17.3R3-S1, 18.2R1, 18.3R1.9, 18.4R2-S2.3, and 19.4R1.10
EX9251 (standalone and Virtual Chassis)	Junos OS Releases 17.3R3-S1, 18.2R1, and 18.3R1.9
EX9253 (Standalone and Virtual Chassis)	Junos OS Releases 17.3R3-S1, 18.2R1, and 18.3R1.9
MX Series Routers	
MX240	Junos OS Releases 13.2R2.4, 14.1R4, 14.2R2, 15.1R1, 17.3R3-S2.2, and 18.4R1.8
MX480	Junos OS Releases 13.2R2.4, 14.1R4, 14.2R2, 15.1R1, 17.3R3-S2, and 19.1R1.6
MX960	Junos OS Releases 13.2R2.4, 14.1R4, 14.2R2, and 15.1R1
MX80 MX104 MX960 MX2010	Junos OS Releases 14.1R4, and 15.1R1
MX240	Junos OS Releases 14.1R4, 15.1R1, 17.3R3-S6, and 19.4R1.10
MX480	Junos OS Releases 14.1R4, 15.1R1, and 17.3R3-S6
MX2020	Junos OS Releases 14.1R4, 15.1R1, and 19.4R1.10
MX204, MX10003, MX10008, MX10016	Junos OS Release 18.4R1

Table 3: Supported Platforms and Software Versions for Network Director (*continued*)

Supported Platforms	Qualified Junos OS Release Version
ACX Series Routers	
ACX710	Junos OS Release 20.2R1 NOTE: You must install the latest hot patch versions of Junos Space Network Management Platform Release 20.1R1 and Network Director.
ACX5448	Junos OS Release 18.4R1
ACX5448-D	Junos OS Release 19.2R1-S1
ACX5448-M	Junos OS Release 19.3R1
QFX Series Switches	
QFX10008	Junos OS Releases 15.1X53-D30.19, 15.1X53-D33, 15.1X53-D60.4, 15.1X53-D61.7, 15.1X53-D64.3, 17.3R3-S1.5, 18.4R1.8, 18.4R2-S2.3, and 19.4R1.10
QFX10016	Junos OS Releases 17.3R1.10, 17.3R3-S1.5, and 19.1R1.6
QFX10002-36Q switches with the following SKU: QFX10002-36Q-DC QFX10002-72Q switches with the following SKU: QFX10002-72Q-DC	Junos OS Releases 15.1X53-D61, 15.1X53-D61.7, 15.1X53-D64.3, 17.2R1.13, 18.4R2-S2.3, and 19.4R1.10
QFX10002-60C	Junos OS Releases 18.4R1, 18.4R2-S2.3, and 19.4R1.10
QFX5200 switches with the following product SKUs: QFX5200-48Y	Junos OS Releases 17.3R3-S1.5, 18.1R1, 18.4R1.8, and 18.4R2-S2.3
QFX5200 switches with the following product SKUs: QFX5200-32C-AF QFX5200-32C-AFO QFX5200-32C-DC-AFI QFX5200-32C-DC-AFO	Junos OS Releases 15.1X53-D30.5, 15.1X53-D230.3, 17.3R3-S1.5, 18.1R1, 18.4R1.8, and 18.4R2-S2.3
QFX5210 switches with the following product SKUs: QFX5210-64C	Junos OS Releases 18.1R1, 18.4R2-S3, and 19.4R1.10

Table 3: Supported Platforms and Software Versions for Network Director (*continued*)

Supported Platforms	Qualified Junos OS Release Version
QFX5100 switches with the following product SKUs: QFX5100-48S-3AFI QFX5100-24Q-3AFI QFX5100-24Q-3AFO QFX5100-24Q-D-3AFI QFX5100-24Q-D-3AFO QFX5100-48T-AFI QFX5100-48T-AFO QFX5100-48T-DC-AFI QFX5100-48T-DC-AFO	Junos OS Releases 14.1X53-D35.3, 14.1X53-D40.8, 14.1X53-D42.3, 18.4R2-S2.3, and 19.4R1.10
QFX5110 switches with the following product SKUs: QFX5110-32Q QFX5110-48S	Junos OS Releases 17.2R2.8, 17.3R1.10, 17.4R1.16, 18.1R3.3, 18.4R2-S2.3, and 19.4R1.10
QFX5120-48Y-8C	Junos OS Releases 18.4R1 and 18.4R2-S2.3
QFX5120-32C	Junos OS Releases 19.4R1
QFX3500 (standalone and Virtual Chassis) QFX3600 (standalone and Virtual Chassis) QFX5100-48S (standalone and Virtual Chassis) QFX5100-24Q (standalone and Virtual Chassis) QFX5100-96S (standalone and Virtual Chassis)	Junos OS Releases 13.2X51-D30, 14.1X53-D15, 14.1X53-D27, 14.1X53-D40, and 14.1X53-D40.8
DHCP and File Server (FTP and TFTP)	
CentOS	CentOS Release 6.10 and CentOS Release 7.6
Ubuntu	Ubuntu Release 14.04

Table 4: Layer 3 Fabrics Supported Platforms and Software Versions for Network Director

Supported Platforms	Qualified Junos OS Release Version
QFX Series Switches	

Table 4: Layer 3 Fabrics Supported Platforms and Software Versions for Network Director (continued)

Supported Platforms	Qualified Junos OS Release Version
QFX10002 as Layer 3 Fabric spine device QFX10002-36Q as Layer 3 Fabric leaf device QFX10002-72Q as Layer 3 Fabric leaf device QFX5100 as Layer 3 Fabric spine or leaf device QFX5110-32Q as Layer 3 Fabric spine or leaf device QFX5110-48S as Layer 3 Fabric leaf device EX4300 as Layer 3 Fabric leaf device	Junos OS Releases 15.1X53-D60, 15.1X53-D61.7, 15.1X53-D64.3, and 17.2R1.13 for QFX10002 Junos OS Release 17.4R1.15 for QFX10002-36Q Junos OS Release 17.4R1.15 for QFX10002-72Q Junos OS Releases 14.1X53-D35.3, 14.1X53-D40.8, and 14.1X53-D42.3 for QFX5100 Junos OS Releases 17.2R2.8, 17.3R1.10, and 17.4R1.16 for QFX5110-32Q Junos OS Releases 17.2R2.8, 17.3R1.10, and 17.4R1.16 for QFX5110-48S Junos OS Release 14.1X53-D27, 14.1X53-D40.8, and 14.1X53-D42.3 for EX4300
QFX10002 as Layer 3 Fabric spine device (in an EVPN-VXLAN configuration) QFX5100 as Layer 3 Fabric leaf device (in an EVPN-VXLAN configuration) QFX5110 as Layer 3 Fabric leaf device (in an EVPN-VXLAN configuration) QFX5200-32C-32Q as Layer 3 Fabric spine or leaf device (in an EVPN-VXLAN configuration) EX4300 as Layer 3 Fabric leaf device (in an EVPN-VXLAN configuration)	Junos OS Releases 15.1X53-D60, 15.1X53-D61.7, 15.1X53-D64.3, and 17.2R1.13 for QFX10002 Junos OS Releases 14.1X53-D35.3, 14.1X53-D40.8, and 14.1X53-D42.3 for QFX5100 Junos OS Releases 17.2R2.8, 17.3R1.10, and 17.4R1.16 for QFX5110 Junos OS Releases 15.1X53-D210 for QFX5200-32C-32Q Junos OS Release 14.1X53-D27 for EX4300

Table 5: Virtual Chassis Supported Platforms and Software Versions for Network Director

Supported Platforms	Qualified Junos OS Release Version
Virtual Chassis Fabric	Junos OS Releases 13.2X51-D20, 14.1X53-D15, 14.1X53-D27, 14.1X53-D40
Virtual Chassis Fabric (QFX5110)	Junos OS Releases 17.2R2.8, 17.3R2.10, and 17.4R1.16

Supported Junos OS Releases

The [Table 6 on page 13](#) lists the supported Junos OS Releases for Network Director 4.0R1:

Table 6: Supported Junos OS Releases

Network Director Release	Supported Junos OS Releases
4.0R1	20.1

Supported Web Browsers

The [Table 7 on page 13](#) lists the supported versions of web browsers for Network Director 4.0R1:

Table 7: Supported Web Browsers for Network Director 4.0R1

Web Browser	Supported Versions
Google Chrome	17 and later
Mozilla Firefox	14.0 and later
Microsoft Edge	9.0, 10.0, and 11.0

The recommended screen resolution is 1280 x 1024. If your screen resolution is less than the supported resolution, the Network Director UI might not be displayed properly.

Junos Space Network Management Platform Requirements

Network Director Release 4.0R1 is supported on the Junos Space Network Management Platform Release 20.1R1. You must download this release of Network Director and Junos Space Network Management Platform from [Junos Space Network Management Platform - Download Software](#) page.

Network Director is supported on a Junos Space JA2500 appliance or a Junos Space Virtual Appliance that meets the hardware requirements specified in the Junos Space documentation.

Installation Instructions

You can install Network Director on Junos Space Network Management Platform by using one of the following methods:

- Installing Network Director from Junos Space Store

- Installing Network Director by manually downloading the Network Director application image

NOTE: The preferred method to install Network Director on Junos Space Network Management Platform is by installing Network Director from Junos Space Store.

Network Director cannot be installed on a system that has Connectivity Services Director already installed. Uninstall Connectivity Services Director before you install Network Director on your system.

Network Director 4.0 is compatible with the following applications:

- Cross Provisioning Platform 20.1R1
- Security Director 20.1R1
- Service Now / Service Insight 18.1R1

For more information about installing Network Director on Junos Space Network Management Platform, see [Installing Network Director](#).

For more information about overview of installing Network Director, see [Network Director Installation Overview](#).

Upgrade Instructions

You can upgrade to Network Director Release 4.0R1 from the following Network Director releases:

- Network Director 3.9R1
- Network Director 3.8R1
- Network Director 3.7R1
- Network Director 3.6R1

For more information about upgrade instructions, see [Upgrading Network Director](#).

Junos Space DMI Schema Requirements for Network Director

In most installations, Junos Space automatically matches the DMI schemas to device families. But there might be certain situations where your network uses a device for which Junos Space does not have the latest or supported schema available. In such instances, you must obtain and upload the requisite schema and set it as the default DMI schema for each device family. Set a default DMI schema for each device family to enable Junos Space to apply an appropriate schema to a device family.

If you cannot find the schema equivalent, use the latest schema from the main release or contact the Juniper Support. For example, for an EX4500 switch running Junos OS Release 13.2X51-D20, you must use the Junos OS Release 13.2X51-D20 schema. If this is not available, you can use the latest schema available from the Junos OS Release 13.2X51 releases. Use [Table 8 on page 15](#) as a guideline for the fallback schema that you can obtain and upload in Junos Space before you start working on Network Director Release 4.0R1.

EX4600 switches are grouped under Campus Switching ELS platform in Network Director even though the device family for EX4600 displays as JUNOS-QFX in the Inventory page. All Campus Switching ELS profiles can be associated with these switches.

You *must* use the QFX schema to manage this device instead of the EX ELS schema.

QFX10002-60C switches are grouped under the DataCenter ELS platform in Network Director even though the device family for QFX10002-60C is displayed as junos on the Inventory page. All DataCenter ELS profiles can be associated with these switches.

You *must* use the junos schema to manage this device instead of the junos-qfx schema.

[Table 8 on page 15](#) lists the latest DMI schema that you must obtain and upload in Junos Space before you start working on Network Director Release 4.0R1.

Table 8: DMI Schemas

Device	Name of the DMI Schema	Device Family
EX4300	JUNOS 14.1X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 18.4R1.8 JUNOS 18.4R2-S2.3 JUNOS 19.4R1.10	junos
EX4300-48MP	JUNOS 18.3R1 JUNOS 18.4R2-S2.3 JUNOS 19.4R1.10	junos
EX9200	JUNOS 16.1R1.11 JUNOS 17.1R1.8 JUNOS 17.2R1.13 JUNOS 17.3R3-S1.5 JUNOS 17.4R1.16 JUNOS 18.3R1.9 JUNOS 18.2R1 JUNOS 18.4R2-S2.3 JUNOS 19.4R1.10	junos

Table 8: DMI Schemas (continued)

Device	Name of the DMI Schema	Device Family
EX9251	JUNOS 17.3R3.9 JUNOS 18.3R1.9	junos
EX9253	JUNOS 17.3R3.9 JUNOS 18.3R1.9	junos
EX2200 (standalone and Virtual Chassis)	JUNOS 12.3R12-S10 JUNOS 12.3R12-S12 JUNOS 14.2X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 14.1X53-D44.3	junos-ex
EX2200-C (standalone and Virtual Chassis)	JUNOS 12.3R12-S10 JUNOS 14.2X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 14.1X53-D44.3	junos-ex
EX4600	JUNOS 14.1X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 17.3R3-S1.5 JUNOS 18.4R1.8 JUNOS 18.4R2-S2.3	junos-qfx
EX4650	JUNOS 18.4R1.8 JUNOS 18.4R2-S2.3	junos-qfx
EX3300 (standalone and Virtual Chassis)	JUNOS 12.3R12-S10 JUNOS 12.3R12-S12 JUNOS 14.2X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 15.1R7.8	junos-ex
EX4200 (standalone and Virtual Chassis)	JUNOS 12.3R12-S12 JUNOS 14.2X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 15.1R7.8	junos-ex

Table 8: DMI Schemas (continued)

Device	Name of the DMI Schema	Device Family
EX4550 (standalone and Virtual Chassis)	JUNOS 14.2X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 15.1R7.8	junos-ex
EX3200 EX4500 (standalone and Virtual Chassis) Mixed EX4200, EX4500, and EX4550 Virtual Chassis EX6200 EX8200 (standalone and Virtual Chassis)	JUNOS 14.2X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3	junos-ex
EX2300 EX2300-48T EX2300-48P EX2300-24MP (Standalone and Virtual Chassis) EX2300-48MP (Standalone and Virtual Chassis)	JUNOS 15.1X53-D55.5 JUNOS 15.1X53-D56 JUNOS 18.1R3.3 JUNOS 18.2R3-S2.9 JUNOS 18.4R1.8	junos
EX3400 EX3400-24P EX3400-24T EX3400-48P EX3400-48T	JUNOS 15.1X53-D55.5 JUNOS 15.1X53-D56 JUNOS 18.1R3.3 JUNOS 18.4R1.8 JUNOS 18.2R3-S2.9 JUNOS 19.4R1.10	junos
MX Series Routers MX80 MX104 MX960 MX2010 Series routers	JUNOS 15.1R1.9 JUNOS 17.3R3-S6 JUNOS 19.4R1.10	junos
MX480	JUNOS 15.1R1.9 JUNOS 17.3R3-S6	junos
MX2020	JUNOS 15.1R1.9 JUNOS 19.4R1.10	junos

Table 8: DMI Schemas (continued)

Device	Name of the DMI Schema	Device Family
MX960	JUNOS 15.1R1.9 JUNOS 19.2R1	junos
MX240	JUNOS 15.1R1.9 JUNOS 17.3R3-S6 JUNOS 19.2R1 JUNOS 19.4R1.10	junos
MX204	JUNOS 17.3R3.9 JUNOS 18.4R1.8	junos
MX480	JUNOS 17.3R3-S2 JUNOS 19.1R1.6	junos
MX204 MX10003	JUNOS 18.3	junos
MX10008 MX10016	JUNOS 18.4	junos
ACX710	JUNOS 20.2R1	junos
ACX5448	JUNOS 18.4	junos
ACX5448-D	JUNOS 19.2R1-S1	junos
ACX5448-M	JUNOS 19.3	junos
QFX10008	JUNOS 15.1X53-D30.19 JUNOS 15.1X53-D32.2 JUNOS 15.1X53-D60.4 JUNOS 15.1X53-D61.7 JUNOS 15.1X53-D64.3 JUNOS 17.3R3-S1.5 JUNOS 18.4R2-S2.3 JUNOS 19.1R1.6 JUNOS 19.4R1.10	junos-qfx

Table 8: DMI Schemas (*continued*)

Device	Name of the DMI Schema	Device Family
QFX10002	JUNOS 15.1X53-D32.2 JUNOS 15.1X53-D60.4 JUNOS 15.1X53-D61.7 JUNOS 15.1X53-D64.3 JUNOS 17.2R1.13 JUNOS 17.3R3-S1.5 JUNOS 18.4R2-S2.3 JUNOS 19.1R1.6 JUNOS 19.4R1.10	junos-qfx
QFX10016	JUNOS 17.3R1.10 JUNOS 17.3R3-S1.5 JUNOS 19.1R1.6	junos-qfx
QFX5200	JUNOS 15.1X53-D30.19 JUNOS 15.1X53-D230.3 JUNOS 18.4R2-S2.3	junos-qfx
QFX5200-48Y	JUNOS 17.3R3.9 JUNOS 18.4R1.8 JUNOS 18.4R2-S2.3	junos-qfx
QFX5200-32Q	JUNOS 15.1X53-D210 JUNOS 18.4R2-S2.3	junos-qfx
QFX5200-32C-AF QFX5200-32C-AFO QFX5200-32C-DC-AFI QFX5200-32C-DC-AFO	JUNOS 17.3R3.9 JUNOS 18.4R1.8 JUNOS 18.4R2-S2.3	junos-qfx
QFX10002-60C	JUNOS 18.4R1 JUNOS 18.4R2-S2.3 JUNOS 19.4R1.10	junos
QFX5100-48S (standalone and Virtual Chassis) QFX5100-24Q (standalone and Virtual Chassis) QFX5100-96S (standalone and Virtual Chassis)	JUNOS 14.1X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3	junos-qfx

Table 8: DMI Schemas (continued)

Device	Name of the DMI Schema	Device Family
QFX5100 switches with the following product SKUs: QFX5100-48S-3AFI QFX5100-24Q-3AFI QFX5100-24Q-3AFO QFX5100-24Q-D-3AFI QFX5100-24Q-D-3AFO	JUNOS 14.1X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 18.4R2-S2.3 JUNOS 19.4R1.10	junos-qfx
QFX5100 switches with the following product SKUs: QFX5100-48T-AFI QFX5100-48T-AFO QFX5100-48T-DC-AFI QFX5100-48T-DC-AFO	JUNOS 14.1X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3 JUNOS 18.4R2-S2.3 JUNOS 19.4R1.10	junos-qfx
QFX5110 switches with the following product SKUs: QFX5110-32Q QFX5110-48S	JUNOS 17.2R2.8 JUNOS 17.3R1.10 JUNOS 17.4R1.16 JUNOS 18.1R3.3 JUNOS 18.4R2-S2.3 JUNOS 19.4R1.10	junos-qfx
QFX5120-48Y-8C	JUNOS 18.4 JUNOS 18.4R2-S2.3	junos-qfx
QFX5120-32C	JUNOS 19.4	junos-qfx
QFX5210-64C	JUNOS 18.1R1 JUNOS 18.4R2-S3 JUNOS 19.4R1.10	junos-qfx
QFabric devices	JUNOS 14.1X53-D15 JUNOS 14.1X53-D17	junos-ql
QFX3500 (standalone and Virtual Chassis) QFX3600 (standalone and Virtual Chassis)	JUNOS 14.1X53-D35.3 JUNOS 14.1X53-D40.8 JUNOS 14.1X53-D42.3	junos-qfx

See [Setting a Default DMI Schema](#) for detailed steps for setting a default schema.

DMI Schema Compatibility for Junos OS Service Releases

The [Table 9 on page 21](#) explains how the Device Management Interface (DMI) schemas are chosen for devices running Junos OS Service releases for the following conditions:

- Device with Service Release and Junos Space with FRS Release
- Device with Service Release and Junos Space without matching DMI Schema
- Device with Service Release and Junos Space with more than one DMI Schemas
- Device with Service Release and Junos Space with more than one DMI Schemas

Table 9: DMI Schema Compatibility for Junos OS Service Releases

Junos OS Version on Device	Junos Space DMI Schemas Installed	Junos Space Default Version	Junos Space Version Chosen for Platform
Device with Service Release and Junos Space with FRS Release			
18.4R1-S1	18.4R1.8 18.3R1.1 18.2R1.1	18.2R1.1	18.4R1.8
Device with Service Release and Junos Space without matching DMI Schema			
18.4R1-S1	18.3R1.1 18.2R1.1	18.2R1.1	18.2R1.1
Device with Service Release and Junos Space with more than one DMI Schemas			
18.4R1-S1	18.4R1.8 18.4R1.7 18.4R1.6 18.3R1.1	18.3R1.1	18.4R1.8
Device with Service Release and Junos Space with more than one DMI Schemas			
18.4R1.1	18.3R1.1 18.2R1.1	18.2R1.1	18.2R1.1

In Junos Space Network Management Platform Release 20.1R1, no new Junos OS releases are supported. For information about Junos OS compatibility for releases up to and including Junos Space Platform Release 20.1R1, see [Junos OS Releases Supported in Junos Space Network Management Platform](#).

Operational Notes on General Interface Use

- You can log in directly to Network Director without logging in to the Network Management Platform first. To do so, use the URL:

```
https://<junos-space-host>/networkdirector
```

The default username and password is the administrator's username and password.

- Deployment of configurations to QFX5100 switches from Network Director is possible only after you run the following commands by using the CLI of the QFX5100 switch:

```
[edit]
```

```
user@switch# set system extensions providers juniper license-type juniper deployment-scope  
commercial
```

```
user@switch# set system extensions providers chef license-type juniper deployment-scope  
commercial
```

Port Details to Discover and Manage Devices for Network Director

This section describes the prerequisites for installing the Network Director 4.0R1.

To discover and manage devices for Network Director, the following protocol ports must be open between the Junos Space Network Management Platform server and the devices:

Table 10: Port Details

Ports	Scope
22	<p>Enables SSH connections</p> <p>If you have changed the SSH port to a port other than port 22 on your Network Management Platform, you must change the SSH ports on your managed devices to the port that the Network Management Platform uses.</p>

Table 10: Port Details (*continued*)

Ports	Scope
10162	Configures SNMP traps Network Director receives traps from managed devices on this port. (After you install Network Director, use Network Director to configure SNMP on your devices to send traps to Network Director on this port).
21 (TCP) and 69 (UDP)	Uploads the software image and configuration file to the FTP server
8282	Connects to the DLE
8774, 9696, 9292, 8777, 35357, and 8776	Access OpenStack and VMware NSX APIs.

You can verify that the ports are open to the devices by logging in to the Network Management Platform CLI and executing the **nmap** command. For example, to verify that port 8889 is open to a controller, enter:

```
root@space# nmap <controller-ip-address> -p 8889
```

Operational Notes on Device Discovery and Management

- The administrator username that you specify for discovering the OpenStack server must have admin privileges and must belong to an admin tenant in the OpenStack server.
- In a data center network, changes that you make to a vCenter network are dynamically updated in Network Director. However, changes that are made on an OpenStack network require you to wait for the periodic synchronization job to run or you must perform a manual resynchronization for the changes to be updated in Network Director.
- While discovering a CPE switch for a QFabric system, we recommend that you use the root user credentials.
- You must run the following command on all the switches that are connected to a vCenter server for LLDP discovery to work.

```
user@switch# set protocols lldp port-id-subtype interface-name
```

Known Behavior

This section lists the known behavior in Network Director Release 4.0R1.

- OpenNMS is disabled automatically when Network Director is installed in Junos Space Network Management Platform 19.3R1. This is applicable only for a fresh installation.
- When you discover devices in Network Director for the first time, the syslog pattern BR_INFRA_DEVICE is pushed into the device for JUNOS and JUNOS-QFX device families.
- The following alarms are cleared automatically when the corresponding clear event is received, and are available as part of the clear alarm list.
 - FanFailureAlarm
 - TemperatureAlarm
 - HardDiskFailedAlarm
 - PMonOverloadSetAlarm
 - DomAlertSetAlarm
 - POE Power usage High
 - VccpPortAlarm and VccpMemberAlarm
 - PowerSupplyFailureAlarm and PowerSupplyInputFailureAlarm
 - CosFabricQueueOverflowAlarm and CosWanQueueOverflowAlarm
 - FRUPowerOffAlarm, FRUFailedAlarm, and FRUOfflineAlarm
 - CollUnavailableDestAlarm, CollFlowOverloadAlarm, and CollMemoryUnavailableAlarm
 - JdhcpLocalServerIfLimitExceededAlarm and Jdhcpv6LocalServerIfLimitExceededAlarm
 - FabricPowerSupplyFailure, FabricFanFailure, FabricTemperatureAlarm, FabricFruPowerOffAlarm, FabricFruFailedAlarm, and FabricFruOfflineAlarm
- Sometimes the CMEventAttributes table grows to several GBs and consumes disk space. To overcome this, execute the following steps after installing Network Director 3.8R1 or after upgrading Network Director to 3.8R1:
 1. Log in into Network Director.
 2. Go to **Preference -> Fault -> Additional Setting**.
 3. Modify the **Number of Days** to keep the alarm and event or alarm.

Modify the Number of Days such that it triggers a purge event that clears all existing alarms and events. This is a one time activity.
 4. Click **OK**.

If the alarms are not purged, truncate the tables CMEvent, CMEventAttributes, CMAAlarm, CMAAlarmAttributes using the following steps. This clears the tables of all existing alarms and events. You can view any new alarms and events generated thereafter in Network Director. The alarms will be purged as expected after you perform this procedure.

1. Take a backup of the current database.
2. Stop the jboss server using the following commands:

```
service jmp-watchdog stop
service jmp-firewall stop
service jboss stop
service jboss-dc stop
```

3. Run the following mysql commands one after that other:

```
SET FOREIGN_KEY_CHECKS=0;
TRUNCATE TABLE CMEvent;
TRUNCATE TABLE CMEventAttributes;
TRUNCATE TABLE CMAAlarm;
TRUNCATE TABLE CMAAlarmAttributes;
SET FOREIGN_KEY_CHECKS=1;
```

4. Start the jboss server using the following command:

```
service jmp-watchdog start
```

5. After jboss has started execute the following steps:

1. Log in into Network Director.
2. Go to **Preference -> Fault -> Additional Setting**.
3. Modify the **Number of Days** to keep the alarm and event or alarm.

Modify the Number of Days such that it triggers a purge event that clears all existing alarms and events. This is a one time activity.

4. Click **OK**.

- For EX4300 satellite devices to be part of a Junos Fusion Enterprise, ensure that you use *U-Boot 2011.12-00062-gf837a99 (Jul 11 2014 - 13:47:59)* and *FreeBSD/PowerPC U-Boot bootstrap loader 2.4* as the boot loader, with PoE firmware version 2.6.3.92.1, and 10G PIC-2 ports as cluster ports.
- When defining your network configuration in quick templates by using a particular command, ensure that you define the subcommands individually. Stating subcommands as a single command causes errors. For example, the commands **set snmp location sunnyvale** and **set snmp contact admin@example.com** are valid when defined individually. However, if you combine these commands into the single command

set snmp location sunnyvale contact admin@example.com, schema validation treats the last command **contact** as an extra entry and causes an error.

- Network Director does not support Junos Space domains and subdomains. Do not assign devices to domains and subdomains in Junos Space.
- EX4300 switch running Junos OS Release 14.1X53-D10 or 14.1X53-D15 cannot be managed using Network Director.
- In Location View, if you assign all the members of a Virtual Chassis to buildings or floors, then none of the Device level tasks are available. We recommend that you assign the entire logical device—the Virtual Chassis—to any given location.
- When an EX4300 switch is used as a member switch in a QFX5100 mixed mode Virtual Chassis, Network Director does not consider the configurations that you make on DCBX and Device Count fields, and configuration commits fail.
- If QFX3500, QFX3600, or EX4300 Virtual Chassis are running releases earlier than Junos OS Release 13.2X51-D20, any changes made to the Virtual Chassis, such as adding or deleting members or changing the role of members, might not reflect in Network Director.
- Deploying a Fabric profile that has the same name as an already deployed Fabric profile, but a different Fabric ID, removes the interface association of the first Fabric profile from the device. Therefore, do not deploy Fabric profiles with the same name on a device.
- With QFabric systems that are running Junos OS releases earlier than Release 13.1X50-D20, the Control Plane Topology does not work if the CPE switches are used in Virtual Chassis mode. If you need assistance with an earlier release, contact Juniper Networks support.
- Nonstop software upgrade (NSSU) for EX8200 Virtual Chassis might not work as expected.
- The Access profile configuration and the port security configuration that are part of the Port profile configuration might not work on EX9200 switches running Junos OS Release 12.3R2.5.
- Bandwidth utilization value for VCP and aex interfaces might not be displayed in the Topology View.
- Network Director might not display:
 - Unprovisioned members added to a Virtual Chassis.
 - The *Not Present* status for members removed from a Virtual Chassis.
- For Data Center Switching ELS Port profile, a profile assignment might fail for channelized interfaces in a port range even when the channelized interfaces in that port range are available on the devices.
- The Validate Pending Configuration task does not validate the unsupported configurations on data center devices.
- In the manual mode, when out-of-band changes are resynchronized, the conflicting CR might not be listed for quick templates.
- In the Edit Layer 3 Fabric workflow, the deployment status might display as Failed for replaced or deleted QFX5100 or EX4300 switches (running Junos OS Release 13.2X51-Dnn) even if the configuration is

successfully deployed on the device. Also, it might take more than 10 minutes for the device status to be updated in the Edit Layer 3 Fabric job.

- During a cluster switchover, if a backup configuration job or a device discovery job is running in Network Director, the switchover status might display as In progress even after the switchover is complete.
- In a Junos Fusion setup, you might need to assign two aggregation devices for an auto-profile policy. For example, if a satellite device has 65 ports, then you might need to add two aggregation devices as

AD1: ge-65/0/1 - ge-65/0/10 and AD2 : ge-65/0/1 - ge-65/0/10. To assign both the aggregation devices, select the aggregation devices at the group level and do not select the satellite device.

- When editing a MACsec profile that is already deployed in Network Director, you can modify all the configuration parameters in the MACsec profile, except the Connection Association Name and MACsec mode.
- The resynchronization job for the MX Series device fails if the VLAN ID for the device is configured as none from the device CLI.
- You cannot modify the configuration for a Layer 3 Fabric from Network Director if the Layer 3 Fabric was created using the brownfield process during device discovery in Network Director.
- When viewing real-time traffic analysis on a particular port, if Network Director configures the **sflow** command on the device, the command is deleted when you close the Real Time window. Similarly, if a third-party tool sets the **sflow** configuration on a particular port to view real-time traffic analysis on the port, the **sflow** configuration is removed when you close the Traffic Analysis page.
- Network Director does not support cold migration of virtual machines. Cold migration is the migration of a virtual machine that is powered off.
- When the port statistics counters on a device are reset either manually or during an image upgrade, the traffic widgets might show incorrect values for some time. If this happens, wait for 2 to 3 poll intervals, after which the issue resolves itself.

Known Issues

This section lists the known issues in Network Director Release 4.0R1.

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

- Port profile deployment fails for ACX5448-M when the Trust DHCP option is selected.
[PR1462460]
- After deploying the ESI-LAG configuration on devices, an LACP configuration is created on the LAG interfaces of the client switch.

Workaround: Remove the LACP configuration by using the Quick Template option.

To remove the LACP configuration:

1. In the Build mode, on the Tasks pane, click **Wired > Manage Quick Templates**.

The Create Quick Template page appears.

2. On the Create Quick Templates page, enter values for configuring the quick template as follows:

- Name—Name for the quick template.
- Description—Description of the quick template.
- Device Family—Select the device family based on the client switch.
- OS Version—Select the OS version running on the client switch
- CLI Commands—Enter the following command:

```
delete interfaces Aggregated-interface-name aggregated-ether-options lacp active
```

where, *Aggregated-interface-name* is the aggregated interface (ae) on the client switch on which the ESI-LAG is configured.

3. Click **Save** to save the quick template.

The Manage Quick Templates page appears.

4. On the Manage Quick Templates page, select the quick template and click **Apply** to deploy the quick template to all the client switches in the ESI-LAG.

The Apply Quick Template widget appears.

5. Follow the widget to deploy the quick template and delete the LACP configuration on the LAG ports of the client switches.

[PR1369326]

- When devices configured with ESI-LAG are resynchronized, a redundant ESI-LAG is created with the same logical number as the existing ESI-LAG.

Workaround: The redundant LAG does not cause any issues to the existing ESI-LAG and can be ignored.

The redundant ESI-LAG should not be deleted or modified until the existing ESI-LAG is present in Network Director. Once the LAG configuration is deleted, the redundant ESI-LAG should be manually deleted from Network Director.

[PR1368675]

- Unable to revert changes when a deployed ESI-LAG is deleted and then the delete operation is discarded. [PR1366966]
- When an LLDP connection exists between the peers and the peers and client on which ESI-LAG is configured, the port details do not autopopulate in the Peer To Peer Settings table and the Client To Peer Settings table. [PR1363878]
- In the Pre-Deployment Edit workflow for an ESI-LAG configuration, the following issues are seen:
 - Unable to modify Virtual Switch Name in the routing instance.
 - In the Client to Peer table, unable to edit peer ports.

[PR1368165]

- Network Director does not allow deleting an access profile when RADIUS and LDP are configured. Deleting the access profile results in an error. [PR1365125]
- In a port profile, link mode settings should be filtered out for xe interfaces on EX9200 and QFX5100 devices as starting in Junos OS Release 17.1R1, xe interfaces do not support link mode. [PR1357626]
- After you upgrade Network Director from Release 2.5 to Release 3.0, the VMware vRealize Operations (vROps) stops receiving data from Network Director.

Workaround: After upgrading to Network Director Release 3.0, open the vROps user interface and delete the Network Director adapter, add the Network Director adapter afresh, and try again.

[PR1232254]

- If you open Network Director in multiple tabs of the same browser window, autorefresh works only for the latest tab.

Workaround: For autorefresh to work on all sessions, use different browsers. [PR978137]

- Network Director promotes duplicate VLAN profiles to VLAN with VRRP profiles when you make out-of-band changes to a device.

Workaround: Delete the unassigned profile from Network Director. [PR1120850]

- With Microsoft Internet Explorer 11, the View Virtual Network Connectivity page in the Datacenter View might not display the Zoom In, Zoom Out, and Refresh icons.

Workaround: Scroll to the left of the screen to use the Zoom In, Zoom Out, and Refresh icons.

[PR1098365]

- When you create a Zero Touch Provisioning (ZTP) profile, you are unable to add a default route or gateway address.

Workaround:

1. Open the *dhcpd.conf* file on the DHCP server.
2. Add an entry for **option routers**, between the **subnet** and **option subnet-mask** entries of the appropriate subnet, and specify the gateway IP address as shown in the example below:

An example code snippet:

```
subnet 10.222.210.0 netmask 255.255.254.0{
option routers 10.222.210.1;
option subnet-mask 255.255.254.0;
```

3. Restart the dhcpd service from the Junos Space console by issuing the **service dhcpd restart** command.
[PR1103325]

- After you make out-of-band changes on authentication details that are part of a VRRP profile, refreshing the configuration does not create a new profile.

Workaround: Make the out-of-band changes as part of the VRRP profile, deploy the VRRP profile, and resynchronize the configuration from Network Director. [PR1100717]

- All the saved changes (not deployed) on the Manage IP connectivity page are lost after you add a new device to the data center.

Workaround: Before adding a new device to the data center, deploy all the changes that you made in the Manage IP Connectivity page. [PR1109046]

- After you deploy a policy from Network Director, if you clear the policy options and remove the corresponding Route Filters, only the association of the policy with BGP is deleted. The policy as such is not deleted from the device.

Workaround: None available at present. [PR1109827]

- If you have VRRP version 3, after you edit an already deployed Device Common Settings profile and deploy the changes, the deployment fails. This occurs because Network Director appends the VRRP version 3 configuration also to the changed configuration, whereas only the changed configuration must be deployed.

Workaround: Disable VRRP version 3 or make VRRP configuration compatible with version 3.
[PR1118766]

- In the Manage IP Connectivity workflow, if you opted not to resynchronize devices that are Out of Sync, then all new Save or Deploy operations might fail with the following message Manage IP Connectivity Fails.

Workaround: Synchronize the devices once prompted. [PR1119978]

- Deleting configuration files in Junos Space for devices also removes the baseline for the devices.

Workaround: None available at present. [PR1107121]

- If an image upgrade job and a cluster fail job runs simultaneously, the image upgrade job status might show as Success, but the image might not have been upgraded.

Workaround: Retry the image upgrade after cluster failover is complete. [PR1109072]

- Device might continue to remain in the Synchronising state after some deployments.

Workaround: Initiate a manual resynchronization for the devices using the Resynchronize Device Configuration task. [PR1111410]

- During ZTP, device autodiscovery might fail if the device takes long time to reboot after upgrading to the new image.

Workaround: Discover the device manually if autodiscovery failed after ZTP. [PR1114186]

- Conversion of two standalone satellite devices to a three member cluster might fail causing the status of one member to be displayed as provision down.

Workaround: Execute the following command by using the CLI of the aggregation device: `run request chassis satellite reboot fpc-slot fpc-slot-number`. [PR1200371]

- The EX9200 device is not identified as an aggregation device in Junos Fusion setup and the link up job is not triggered.

Workaround: Configure SNMP on EX9200 devices to identify it as an aggregation device. [PR1186656]

- If two MC-LAG peer devices are brown fielded with different device models and if the IP address of any one of the MC-LAG devices matches the IP address of a Peer device of another MC-LAG device, then the Manage MC-LAG page might display MC-LAG pairing with a different model.

Workaround: Ensure that MC-LAG peer device has a unique ICCP local IP address in the network. [PR1116833]

- In the Dashboard View, the data for the last one hour is displayed in grey color after the filter criteria is applied for one hour.

Workaround: None available at present. [PR1058767]

- Network Director does not support IPv6 topology discovery.

Workaround: None available at present. [PR1204972]

- Network Director might not be able to discover virtual machine tags for vCenter Version 6.0, if there is no description for tags or categories.

Workaround: Upgrade to vCenter Version 6.0 Update 1 or later and try again. [PR1186865]

- Brownfield fails if both the **apply-groups** and the interface description CLI are present under the **interface-range** stanza. This type of configuration is mostly seen for QFabric CPE.

Workaround: Delete the **apply-groups** configuration under the **interface-range** stanza and specify the groups configuration directly under the **interface-range** stanza.

For example in the QFabric CPE configuration, do the following:

1. Delete the **apply-groups** configuration under the interface ranges **Node_Device_Interfaces** and **Interconnect_Device_Interfaces**:

```
user@device#delete interfaces interface-range Node_Device_Interfaces apply-groups qfabric-int
```

```
user@device#delete interfaces interface-range Interconnect_Device_Interfaces apply-groups
qfabric-int
```

2. Specify the configuration under the groups qfabric-int directly within the **interface-range** stanza:

```
user@device#set interfaces interface-range Node_Device_Interfaces mtu 9216
user@device#set interfaces interface-range Node_Device_Interfaces unit 0 family
ethernet-switching port-mode access vlan members qfabric
user@device#set interfaces interface-range Interconnect_Device_Interfaces mtu 9216
user@device#set interfaces interface-range Interconnect_Device_Interfaces unit 0 family
ethernet-switching port-mode access vlan members qfabric
```

3. Commit the changes:

```
user@device#commit
```

[PR1125950]

- In the Datacenter Connectivity View, the zoom pane that appears at the bottom right might not highlight the area that is zoomed.

Workaround: None available at present. [PR1100350]

- If you physically connect a new Virtual Chassis leaf member before adding the leaf member from Network Director, the leaf member might not be mapped to Layer 3 Fabrics as expected.

Workaround: Plug and play is not supported for Virtual Chassis leaf members. Therefore, before you physically connect the Virtual Chassis members, make sure that you add the Virtual Chassis leaf members by using the Layer 3 Fabric wizard. [PR1098910]

- While editing Layer 3 Fabric profiles (Port, VLAN, and Device profiles) users are not warned by any notification that changing Layer 3 Fabric profile configurations might impact the Layer 3 Fabric functionality.

Workaround: After the profiles are modified, you can discard the changes from the Deploy task. [PR1058811]

- For Layer 3 Fabrics, if a plug-and-play leaf device is added and mapped to the Fabric, the Cabling page in the Edit Layer 3 Fabric workflow might not update the cabling plan for that leaf in the graph and grid views.

Workaround: When you edit the Layer 3 Fabric, modify the description in the Fabric Requirements page and then navigate to the Cabling page. The Cabling page updates the proper cabling plan for the plug-and-play leaf device. [PR1058827]

- In the manual mode, when out-of-band changes are resynchronized, the conflicting CR might not be listed for quick templates.

Workaround: None available at present. [PR1046833]

- In the Edit Layer 3 Fabric workflow, the deployment status might display as Failed for replaced or deleted QFX5100 or EX4300 switches (running Junos OS Release 13.2X51-Dxx) even if the configuration is successfully deployed on the device. Also, it might take more than 10 minutes for the device status to be updated in the Edit Layer 3 Fabric job.

Workaround: None available at present. [PR1061773]

- When you create the first data center in Network Director, the View pane might not be updated dynamically with the data center components and devices.

Workaround: Navigate to any other View and then return to the Datacenter View. [PR1061337]

- Discovery of a QFabric device that has some system log messages in the **default-log-messages** file might trigger multiple resynchronization jobs.

Workaround: Clear the system log messages in the **default-log-messages** file before discovery. The CLI command for clearing default log messages is **clear log default-log-messages**. [PR1027051]

- Network Director does not perform Virtual Chassis resynchronization for standalone devices when the device status changes from DOWN to UP or when Network Director restarts.

Workaround: Delete and rediscover the devices from Network Director. [PR1001626]

- In Topology View, Network Director does not display LAG details between QFabric and other devices.

Workaround: None available at present. [PR967224]

- For wired devices, you are unable to specify the SNMP community string from Network Director. However, the Refresh Discovery task from Topology View requires the SNMP community string to be configured on the device to proceed with the refresh discovery task.

Workaround: Use the CLI to configure the required community string on the device before you use the Refresh Discovery task. [PR1014926]

- If you associate a hierarchical Data Center switching or Campus switching ELS CoS profile that has Priority Flow Control configuration with an interface of an EX4300 switch that is part of an EX4600 Virtual Chassis, QFX Virtual Chassis, or Virtual Chassis Fabric, the deployment fails.

Workaround: Clone the CoS profile, remove the PFC settings from the cloned profile, and associate the cloned profile with the EX4300 interfaces. [PR1017364]

- When a device is removed from one Virtual Chassis or Virtual Chassis Fabric and added to another Virtual Chassis or Virtual Chassis Fabric respectively, the show virtual-chassis status output command from Network Director might not display the expected information for that member in either the Virtual Chassis or the Virtual Chassis Fabric.

Workaround: Before you discover that member from Network Director, recycle that member in the Virtual Chassis or Virtual Chassis Fabric in which the member device information is not displayed. [PR970798]

- If the IP address of space nodes change after installing Network Director, the Layer 3 Fabric configuration might still retain the old IP address of space nodes as the SNMP trap target.

Workaround: Log in to Junos Space console and select the (Debug) run shell option. Run the following commands at the shell prompt:

- `python2.7 /opt/configure_for_ND.py -ndvip <VIP> -nodeip <node management ip> -restport 20080 -traptgt <node management ip> -dbuser <DB user> -dbpass <DB password> -ndtrapport 10162`
- If there is a device management interface configured, run the same command using device management ip option as follows:
`python2.7 /opt/configure_for_ND.py -ndvip <VIP> -nodeip <device management ip> -restport 20080 -traptgt <device management ip> -dbuser <DB user> -dbpass <DB password> -ndtrapport 10162`
- If it is a cluster environment, the command needs to be run on each node. The argument `-traptgt` must be repeated the same number of times as the number of nodes present. Assuming there are four nodes, run the following command on each of the four nodes:
`python2.7 /opt/configure_for_ND.py -ndvip <VIP> -nodeip <node management ip> -restport 20080 -traptgt <node1 management ip> -traptgt <node2 management ip> -traptgt <node3 management ip> -traptgt <node4 management ip> -dbuser <DB user> -dbpass <DB password> -ndtrapport 10162`
- If it is a cluster environment and each node has a device management interface configured, the command needs to be run on each node. The argument `-traptgt` must be repeated the same number of times as the number of nodes present. Assuming there are four nodes, run the following command on each of the four nodes.
`python2.7 /opt/configure_for_ND.py -ndvip <VIP> -nodeip <device management ip> -restport 20080 -traptgt <node1 device management ip> -traptgt <node2 device management ip> -traptgt <node3 device management ip> -traptgt <node4 device management ip> -dbuser <DB user> -dbpass <DB password> -ndtrapport 10162`

NOTE: Junos Space Network Director discovers a virtual chassis device as a standalone device when the **openclos** service is not executing properly. Therefore, when you modify the IP address of a Junos space node, restart the **openclos** service after you execute the `/opt/configure_for_ND.py` script.

[PR1062066]

- Unable to close Details window under Monitor mode.

Workaround: Press **Esc** to close the Details window. [PR1117428]

- Monitor widgets such as Status, Resource Utilization, Power, and Fan details display no data when a few devices are deleted and re-discovered from Network Director.

Workaround: None available at present. [PR1122181]

- The Client Sessions and Session Trend widgets might not show any data when a Virtual Chassis member is assigned under Location View or Custom Group View.

Workaround: Assign the Virtual Chassis logical device as a whole under Location View or Custom Group View. [PR1012400]

- Running a VM to VM flow analysis might fail or show latency values as 0/0/0 if there are other flows on the VMs being analyzed.

Workaround: None available at present. [PR1062477]

- When a QFabric node device alias is changed, Historical Monitoring data will be lost and port entries might be duplicated.

Workaround: Delete QFabric from Network Director and rediscover the node devices. [PR926912]

- Network Director does not display alarms at the member or node level for a Virtual Chassis or a Virtual Chassis Fabric.

Workaround: Select the Virtual Chassis or the Virtual Chassis Fabric device in Logical View to view the alarms. [PR991298]

- After you upgrade Network Director from Release 2.5 to Release 3.0, you might not be able to add QFX-5200 and QFX5100-24Q switches as leaf devices under Layer 3 Fabrics.

Workaround: None available at present. [PR1235922]

- 100-Gigabit Ethernet ports are shown as 40-Gigabit Ethernet ports in the Convert Ports page unless explicitly set in device.

Workaround: Set the ports with 100-Gigabit transceivers in the device by using the command: `set chassis fpc 0 pic 0 port 8 speed 100G` and commit the configuration. Wait for the device to be in sync. The Convert Ports page now shows the port correctly as a 100-Gigabit Ethernet port. [PR1234853]

- Network Director deletes the configuration for ports for which auto-speed detection is disabled in Port Conversion.

Workaround: None available at present. [PR1228275]

- The Deploy Configuration page lists all devices for Port Conversion.

Workaround: Use the Device Selection page to only those devices for which you want to convert ports. [PR1227932]

- Port Conversion pushes the configuration to incorrect FPCs if the renumbering member ID command is used in the configuration for devices that support VC and VCF configurations.

Workaround: None available at present. [PR1227497]

- Network Director might not validate port groups in Port Conversion for QFX10002 and QFX10008 switches.

Workaround: None available at present. [PR1228276]

- After you upgrade Network Director from Release 2.5 to Release 3.0, incorrect roles are displayed for some of the users.

Workaround: Roles and tasks are not deleted after the upgrade and only additional tasks are added. Delete these additional tasks after the upgrade. [PR1231329]

- Unable to create Layer 3 fabrics as Zero Touch Provisioning (ZTP) is not supported on Centos 7.2.1511 and DHCP 4.2.5.

Workaround: Use the following versions for ZTP support:

- Ubuntu 14.04
- Centos 6.10

[PR1235928]

- VLANs that are not configured with Layer 3 interfaces are mapped to spine devices.

Workaround: None available at present. [PR1237441]

- Device LAG ports configuration is not supported in EVPN-VXLAN.

Workaround: Use the multi-home LAG option to configure device LAG ports. [PR1236498]

- Layer 3 Fabric configured using CLI and discovered in Network Director is not used to create an overlay fabric. You can use the Layer 3 fabric created in Network Director to create an overlay fabric.
- Overlay Fabric (EVPN-VXLAN) configured using CLI is not supported in Network Director.
- Ports that are involved in EVPN-VXLAN is not configured through port profile. Else, it renders EVPN-VXLAN defunct.

- For IP Fabrics you cannot configure network address as start address.

Workaround: Use a valid network IP address in the subnet. [PR1233532]

- Editing a tenant and assigning ports to a new leaf device, results in failed deployment.

Workaround: Create a new IP fabric device and assign ports to the device before you edit a tenant and deploy it. [PR1232167]

- The Auto assigned option is not deleted if you remove a Port profile association that is assigned by auto policy and manually assign the same option.

Workaround: None available at present. [PR1202439]

- After you delete a port association from Port profile, the LLDP does not show which device is connected when you issue the command delete interface interface-name.

Workaround: Assign a Port profile to a port manually or by using quick template, to configure unit 0 on the interface. [PR1223305]

- After adding a cascade port, the satellite cluster is not added to the aggregation devices when the link up event is triggered.

Workaround:

1. Connect the device directly to a cascade port on the aggregation device.
2. Configure the port as a cascade port.
3. Refresh the topology and verify the configuration generated on the device.
4. After the resync fusion inventory job is triggered, check the tree to see whether the cluster is added to the Enterprise Fusion setup.

[PR1228613]

- If you add more than one port to a Port profile that is associated to the extended Port profiles, the deployment fails.

Workaround: After the deployment fails, edit the prompted Port profile and deploy the changes again.

[PR1237763]

- The tree view is not correctly displayed when there is more than one cluster with the same name in the tree view.

Workaround:

1. Make sure only ICCP and ICL devices are connected, and refresh the topology.

The link up event is triggered only for redundancy satellite devices, and not for FPC satellite devices.

2. Connect single-home satellite device or a cluster devices to one of the aggregation device in a multi-host setup and refresh the topology.

The link up event generates the configuration for different FPC devices.

[PR1225525]

- Monitoring cannot be disabled for aggregation devices at the group level.

Workaround: None available at present. [PR1213805]

- The configuration for orchestration for ELS devices fails if you select the interface mode as access or if you do not configure an interface mode.

Workaround: Log in to the device and set interface mode as trunk for the interface and then configure orchestration for that interface. [PR1235223]

- The Port Conversion page displays for EX4600 switches even though the port conversion is not supported for these devices.

Workaround: Do not select EX4600 devices for port conversion. [PR1226676]

- Adding leaf to an existing multihome LAG, editing the multihome ae inetrface, or deleting an existing leaf from the LAG are not supported in an overlay network.

Workaround: None available at present. [PR1206683]

- After an upgrade to Network Director 3.0, earlier versions of APIs are listed.

Workaround: Right-click on the APIs and select Uninstall to remove the earlier versions. [PR1229453]

- The quick template functionality is not supported in Junos Fusion Enterprise devices.

Workaround: None available at present. [PR1239050]

- In a medium-scale Junos Fusion setup where five Junos Fusion systems each with 100 Satellite Devices are managed, incorrect monitoring data is displayed.

Workaround: In a Junos Fusion setup where 5 Junos Fusion systems each with 100 Satellite Devices are managed, change the number of parallel requests by setting the system property to 5 from default value 25.

To change the parallel requests value:

1. Open a debug (command) prompt by using the Junos Space Settings Menu.
2. Navigate to `/usr/local/jboss/domain/configuration/host.xml`
3. Under `<jvm-options>`, change the option value `<option value="-Dmonitoring.simultaneous.request=5"/>`
4. Restart the jboss process.

service jboss restart

[PR1239748]

- When large number of devices are discovered in Network Director, some of the device status is shown as Down in Network Director even though their status is shown as UP in Junos Space Management Platform.

Workaround: Delete devices that are incorrectly shown as Down in Network director and re-discover the devices in Network Director. [PR1207914]

- In large-scale environments, some of the devices cannot be monitored after the device discovery.

Workaround: Restart the JBoss server for the monitoring features to work properly in standalone and cluster setups:

To restart the JBoss server in a standalone setup:

1. Stop the watchdog, domain controller, and JBoss services on the standalone node.

service jmp-watchdog stop

```
service jboss-dc stop
```

```
service jboss stop
```

2. Start the watchdog service.

```
service jmp-watchdog start
```

NOTE: Starting the watchdog service restarts the JBoss and domain controller services as well.

To restart the JBoss server in a cluster setup:

1. Stop the services on the secondary node.

```
service jmp-watchdog stop
```

```
service jboss stop
```

2. Stop the services on the primary node (You can find the VIP hosted node at Space > Fabric).

```
service jmp-watchdog
```

```
stop service jboss-dc
```

```
stop service jboss stop
```

3. Start the watchdog service on the primary node.

```
service jmp-watchdog start
```

4. Start the watchdog service on the secondary node.

```
service jmp-watchdog start
```

[PR1165010]

- The Port status and the power supply status is not shown in a cluster setup when two satellite devices are configured as member nodes.

Workaround: None available at present. [PR1223602]

- The overlay fabric configuration does not get deleted when you remove an IP fabric from the Selected section of the Edit Overlay Fabric page. However, the overlay fabric configuration gets deleted if the overlay is deleted from the from the Manage Overlay Fabric page.

Workaround: None available at present. [PR1234916]

- ESXi server does not work on ports that have only one VLAN configured. When a tenant overlay fabric is configured such that one of the ports is configured with only one VLAN, native VLAN ID is set to the ID of the only VLAN configured on the interface. This allows Bare Metal Servers (BMS) to use untagged packets. For an ESXi server to work on such ports, the native VLAN ID needs to be removed.

Workaround: Deploy a template by using the command `delete interface native-vlan-id` for those interfaces where one VLAN is configured and tagged packets are sent. ESXi server uses tagged packets by default. [PR1234899]

- Duplicate Port profiles are shown in Network Director after you upgrade Network Director from:
 - Release 2.5R1 to Release 3.0R1 or 3.0R2
 - Release 2.5R2 to Release 3.0R1 or 3.0R2

Workaround: Delete all the unassigned profiles that are generated as duplicate Port profiles. You can identify duplicate Port profiles from the profile name. A duplicate Port profile name is suffixed with a number. For example, `iSCSI_918`. [PR1246846]

- High CPU utilization is observed in the EX2200, EX2300, EX3400, EX3300, or EX4200 devices when these devices are managed and monitored in Network Director.

Workaround: Increase the poll interval from default 10 mins to 40 or 50 mins for the categories `PortTrafficMonitorCollector` and `EquipmentMonitorDeviceStatusCollector` under monitor settings.

To increase the poll interval:

1. Navigate to **Preferences > Monitoring > Monitoring Settings**.

The Preferences page displays the monitoring settings.

2. In the **Poll Interval (in mins)** field, enter the poll interval for the categories `PortTrafficMonitorCollector` and `EquipmentMonitorDeviceStatusCollector`.
3. Click **OK**.

NOTE: The poll interval for both the categories should be the same.

If increasing poll interval does not reduce the CPU usage, disable monitoring for affected devices.

To disable monitoring for the devices:

1. Navigate to **Preferences > Monitoring > Device Settings**.

The Preferences page displays Enable/Disable Collection for devices in a tabular format.

2. From the table, select the check box that corresponds to the device for which you want to disable the monitoring.
3. Click **Disable**.
4. Click **OK**.

[PR1285504]

- In a Junos Fusion Data Center setup, if the alias name of the satellite device does not match on both the aggregation devices, Network Director does not show the monitoring data for the satellite devices.

Workaround: Configure the same alias name for the satellite device on both the aggregation devices.

[PR1293816]

- After the IP Fabric provisioning is successfully completed, auto discovery of IP fabric is not getting triggered in Network Director. This is observed when the eth3 interface IP address is changed on Junos Space sever after Junos Space installation.

Workaround: Modify the eth3 IP address in the .conf files that are pushed to the TFTP server when provisioning the IP Fabric. This ensures that new eth3 interface IP address is used by Network Director while discovering the IP Fabric. [PR1293526]

- In Network Director Wired Device Common Settings, you cannot disable the DHCP relay on a device.

Workaround: To disable the DHCP relay on a device, access the device by using the CLI and remove the DHCP relay config stanza from the device. [PR1290375]

- In Network Director Wired Device Common Settings, you cannot delete the profile login settings relay on a device.

Workaround: To delete the profile login from a device, access the device by using the CLI and remove the Profile Login configuration stanza from the device. [PR1291978]

- When the Connection Association Key and Confirm Connection Association Key are edited in a MACsec profile, the MACsec profile does not show the state as Pending Deployment.

Workaround: Edit some other attribute in the MACsec profile along with the Connection Association Key and Confirm Connection Association Key for the MACsec profile to show the state as Pending Deployment. [PR1295679]

- Duplicate filter profiles promoted on upgrade from Network Director 3.5 to Network Director 3.6. [PR1422843]

Resolved Issues

The following issues are resolved in Network Director Release 4.0R1:

- In Network Director, sysDeviceStatusUp and sysDeviceStatusDown alarms are generated incorrectly for the devices. [PR1426098]
- Network Director creates duplicate VLAN profiles for existing or imported devices and assigns these duplicates VLAN profiles to the devices. Network Director also unassigns the VLAN profiles originally created by the customers. [PR1483519]
- In the Network Director UI, the **Copy to Alternate Slice** option does not work in Device View > Deploy > Image Management > Deploy Images to Devices. [PR1484805]
- When you log in to the Network Director UI, a NullPointerException window opens on the home page of Network Director. [PR1488196]

Hot Patch Releases

This section describes the installation procedure, supported platforms, and resolved issues in Network Director Release 4.0R1 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 the watchdog process is restarted for device load balancing.

NOTE: You must install the hot patch on Network Director 4.0R1.36 or on any previously installed hot patch. The hot patch installer backs up all the files that are modified or replaced during hot patch installation.

Installation Instructions

NOTE: To support ACX710 platform, you must install the latest hot patch versions of Junos Space Network Management Platform Release 20.1R1 and Network Director. To install Junos Space Network Management Platform Release 20.1R1 hot patch version, see [Junos Space Network Management Platform Release 20.1R1](#).

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

1. Download the Network Director 4.0R1 Patch vX from the [Downloads](#).
X is the hot patch version. For example, v1, v2, and so on.
2. Copy the **ND-4.0R1-hotpatch-vX.tgz** file to the **/home/admin** folder of the VIP node.
3. Verify the checksum of the hot patch:
md5sum ND-4.0R1-hotpatch-vX.tgz.
4. Extract the **ND-4.0R1-hotpatch-vX.tgz** file:
tar -zxvf ND-4.0R1-hotpatch-vX.tgz
5. Change the directory to **ND-4.0R1-hotpatch-vX**:
cd ND-4.0R1-hotpatch-vX
6. Execute the **patchme.sh** script from the **ND-4.0R1-hotpatch-vX** folder:
sh patchme.sh

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

A marker file **/etc/.ND-4.0R1-hotpatch-vX** is created with the list of RPMs that are fixed in the hot patch.

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

Supported Platforms in the Network Director Release 4.0R1 Hot Patches

Table 11 on page 44 lists the supported platforms in Network Director Release 4.0R1 hot patches.

Table 11: Supported Platforms in the Network Director Release 4.0R1 Hot Patches

Supported Platforms	Qualified Junos OS Release Version	Hot Patch Version
ACX710	Junos OS Release 20.2R1	v1

Resolved Issues in the Network Director Release 4.0R1 Hot Patches

Table 12 on page 44 lists the resolved issues in Network Director Release 4.0R1 hot patches.

Table 12: Resolved Issues in the Network Director Release 4.0R1 Hot Patches

PR	Description	Hot Patch Version
PR1520261	The user is unable to deploy the image from Network Director for ACX710 Platform.	v6
PR1492287	The user is unable to install the QFX10002 Platform image from Network Director because the rpc command for image installation is different.	v6
PR1523110	When you create a port Profile with Campus family in ACX710, you are unable to set speed value to device.	v6
PR1490369	Resync device job fails with an error message "Reconciliation failed with error while parsing logical system".	v1
PR1502230	Unable to resynchronize device on Network Director.	v1

NOTE: If the hot patch contains a user interface fix, you must clear the Web browser's cache for the latest changes to take effect.

Documentation Updates

This section lists the errata and changes in Network Director Release 4.0R1 documentation.

Network Director Release 4.0R1 online Help has the following documentation errata:

- Context-sensitive help is not available for the following pages of Monitor mode.
 - Tasks > Show PoE Information Table
 - Tasks > Show Routing Table

However, you can access the documentation for these pages from the [Network Director 4.0R1 documentation site](#) or by clicking the online **Help** button in the Network Director home page.

Third-Party Integration

- **Juniper Networks Data Center Switching Management Pack for vROps**—VMware vRealize Operations (vROps) is a component of VMware's vRealize suite of products. vROps provides an integrated, single pane of glass view into the performance, capacity, and configuration management capabilities of VMware vSphere, physical and cloud environments.

Juniper Networks Data Center Switching Management Pack for vROps is a plugin from Juniper Networks that you can install and integrate with vROps. Once installed, the management pack obtains all the necessary monitoring data from Juniper Networks devices and displays the data in vROps.

- **Juniper Networks plugin for VMware vCenter**—You can discover and manage VMware vCenter servers by using Network Director. Network Director enables you to visualize and perform certain management tasks on the vCenter servers. If you primarily use the VMware vSphere to manage your virtual network and want to view details about the Juniper Networks devices that are connected to your virtual network, you can do so by installing the Juniper Networks plugin for VMware vCenter. After you install and configure this plugin on the vCenter server, you can start viewing data about the connected Juniper Networks devices by using the following widgets:
 - **Physical Networking widget**—To open this widget, select a **Host** in the vSphere user interface and select **Summary**. This widget displays the virtual NIC that the host connects to, the physical switch

and the port number that the virtual switch uses to connect to the physical network, and the VLAN that is configured on the physical switch port.

- vMotion History widget—To open this widget, select a virtual machine in the vSphere user interface and select **Summary**. This widget displays the vMotion history of the selected virtual machine along with details of the Juniper Networks switches that were involved in the vMotion.

You can download the Juniper Networks Data Center Switching Management Pack for vROps and the Juniper Networks plugin for VMware vCenter from the [Download Software](#) page. See the [Juniper Networks Data Center Switching Management Pack for vROps documentation](#) and README file that is included in the Juniper Networks plugin for VMware vCenter zip file for detailed steps on installing the plugin.

Finding More Information

For the latest, most complete information about known and resolved issues with Junos Space Network Management Platform and Junos Space Management Applications, see the Juniper Networks Problem Report Search application at: <http://prsearch.juniper.net>.

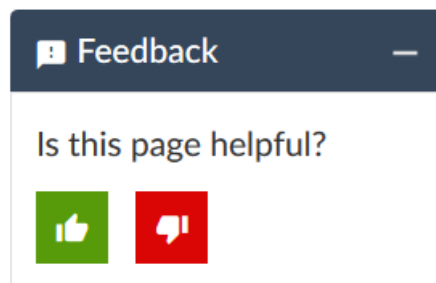
Juniper Networks Feature Explorer is a Web-based application that helps you to explore and compare Junos Space Network Management Platform and Junos Space Management Applications feature information to find the correct software release and hardware platform for your network. Find Feature Explorer at: <http://pathfinder.juniper.net/feature-explorer/>.

Juniper Networks Content Explorer is a Web-based application that helps you explore Juniper Networks technical documentation by product, task, and software release, and download documentation in PDF format. Find Content Explorer at: <http://www.juniper.net/techpubs/content-applications/content-explorer/>.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can provide feedback by using either of the following methods:

- Online feedback system—Click TechLibrary Feedback, on the lower right of any page on the [Juniper Networks TechLibrary](#) site, and do one of the following:



- Click the thumbs-up icon if the information on the page was helpful to you.
- Click the thumbs-down icon if the information on the page was not helpful to you or if you have suggestions for improvement, and use the pop-up form to provide feedback.
- E-mail—Send your comments to techpubs-comments@juniper.net. Include the document or topic name, URL or page number, and software version (if applicable).

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <https://www.juniper.net/customers/support/>
- Search for known bugs: <https://prsearch.juniper.net/>
- Find product documentation: <https://www.juniper.net/documentation/>

- Find solutions and answer questions using our Knowledge Base: <https://kb.juniper.net/>
- Download the latest versions of software and review release notes: <https://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <https://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <https://www.juniper.net/company/communities/>
- Create a service request online: <https://myjuniper.juniper.net>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://entitlementsearch.juniper.net/entitlementsearch/>

Creating a Service Request with JTAC

You can create a service request with JTAC on the Web or by telephone.

- Visit <https://myjuniper.juniper.net>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <https://support.juniper.net/support/requesting-support/>.

Revision History

12 January, 2022—Revision 2, Junos Space Network Director Release 4.0R1.

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