

Release Notes: Junos Space Security Director Release 19.3R1

11 November 2019

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Introduction

The Junos Space Security Director application is a powerful and easy-to-use solution that enables you to secure your network by creating and publishing firewall policies, IPsec VPNs, Network Address Translation (NAT) policies, Intrusion Prevention System (IPS) policies, and application firewalls.

NOTE: You need IPS and application firewall licenses to push IPS policies and application firewall signatures to a device.

Release Notes for Junos Space Security Director

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New and Changed Features

This section describes the new features and enhancements to existing features in Junos Space Security Director Release 19.3R1.

- **IPS policy support for unified and standard firewall policy**—Starting in Junos Space Security Director Release 19.3, you can configure an Intrusion Prevention System (IPS) policy from the standard and unified firewall policy rules page.

NOTE:

- From Junos OS Release 18.2 and later, IPS policy publish or update is combined with firewall policy and is not an independent operation.
- In a device running Junos OS Release 18.2, you must assign the same IPS policy to all the rules in the firewall policy; otherwise, the commit fails.
- In a device running Junos OS Release 18.3 or later, you can assign different IPS policy to the rules in the firewall policy. You must set one of the IPS policies as the default policy; otherwise, the commit fails.

When you import the configuration from a device, the IPS policy is also imported along with the firewall policy.

You can import and convert the deprecated active policy CLI configuration into a new CLI configuration from Security Director. You can import the IPS policy for the deprecated active-policy for Junos OS Release 18.2 and later. After the IPS policy is imported, the rules associated with the firewall policy for the device is updated with IPS policy details as follows:

- Firewall rules having IPS ON will be set to IPS OFF and the IPS Policy value is updated with the imported IPS Policy.
 - On subsequent update from Security Director, you can see the new firewall policy CLI configuration to attach IDP and the same can be updated to device.
- **Default UTM configuration**—Starting in Junos Space Security Director Release 19.3, you can configure a default UTM configuration for web filtering, antivirus, antis spam, and content filtering profiles for devices running Junos OS Release 18.2 or later. You can configure only one default configuration on each device.

If any parameter in a UTM feature profile is not configured, then the corresponding parameter is applied from the UTM default configuration. The UTM default CLI configuration is generated as part of the unified or standard firewall policy, where the corresponding device with the default UTM configuration is assigned.

- **CentOS upgrade support**—Junos Space Security Director Release 19.3 supports Log Collector upgrade from CentOS version 6.5 to 6.8.
- **Out-of-band changes**—Starting in Junos Space Security Director Release 19.3, after selecting a device for group policy, you can click **Affected Devices** to see all the devices to which the policy is assigned.

For both group policy and device-specific policy, the icon next to the device(s) indicates the out-of-band changes.

Supported Managed Devices

Security Director Release 19.3R1 manages the following devices:

- SRX100
- SRX110
- SRX210
- SRX220
- SRX240
- SRX240H
- SRX300
- SRX320
- SRX320-POE
- SRX340
- SRX345
- SRX550
- SRX550M
- SRX650
- SRX1400
- SRX1500
- SRX3400
- SRX3600
- SRX4100
- SRX4200
- SRX5400

- SRX5600
- SRX5800
- SRX4600
- vSRX
- MX240
- MX480
- MX960
- MX2010
- MX2020
- LN1000-V
- LN2600

The following log collection systems are supported:

- Security Director Log Collector
- Juniper Secure Analytics (JSA) as Log Collector on JSA Release 2014.8.R4 and later
- QRadar as Log Collector on QRadar Release 7.2.8 and later

Supported Line Cards

Table 1 on page 6 shows the supported Juniper Networks line cards in Junos Space Security Director Release 19.3R1.

Table 1: Supported Line Cards

Device	Line Cards
SRX5800	<ul style="list-style-type: none"> • SRX5K IOC4 • SRX5K RE3 • SRX5K SCB4

Supported Junos OS Releases

Security Director Release 19.3R1 supports the following Junos OS releases:

- 10.4
- 11.4
- 12.1
- 12.1X44
- 12.1X45
- 12.1X46
- 12.1X47
- 12.3X48
- 15.1X49
- vSRX 15.1X49
- 16.1R3-S1.3
- 15.1X49-D110
- 17.3
- 17.4
- 18.1
- 18.2
- 18.3
- 18.4
- 19.1

SRX Series devices require Junos OS Release 12.1 or later to synchronize the Security Director description field with the device.

The logical systems feature is supported only on devices running Junos OS Release 11.4 or later.

NOTE: To manage an SRX Series device by using Security Director, we recommend that you install the matching Junos OS schema on the Junos Space Network Management Platform. If the Junos OS schemas do not match, a warning message is displayed during the publish preview workflow.

Supported Policy Enforcer and Juniper Sky ATP Releases

Table 2 on page 8 shows the supported Policy Enforcer and Juniper Sky Advanced Threat Prevention (Juniper Sky ATP) releases.

Table 2: Supported Policy Enforcer and Juniper Sky ATP Releases

Security Director Release	Compatible Policy Enforcer Release	Junos OS Release (Juniper Sky ATP-supported Devices)
16.1R1	16.1R1	Junos OS Release 15.1X49-D60 and later
16.2R1	16.2R1	Junos OS Release 15.1X49-D80 and later
17.1R1	17.1R1	Junos OS Release 15.1X49-D80 and later
17.1R2	17.1R2	Junos OS Release 15.1X49-D80 and later
17.2R1	17.2R1	Junos OS Release 15.1X49-D110 and later
17.2R2	17.2R2	Junos OS Release 15.1X49-D110 and later
18.1R1	18.1R1	Junos OS Release 15.1X49-D110 and later
18.1R2	18.1R2	Junos OS Release 15.1X49-D110 and later
18.2R1	18.2R1	Junos OS Release 15.1X49-D110 and later
18.3R1	18.3R1	Junos OS Release 15.1X49-D110 and later
18.4R1	18.4R1	Junos OS Release 15.1X49-D110 and later
19.1R1	19.1R1	Junos OS Release 15.1X49-D110 and later
19.2R1	19.2R1	Junos OS Release 15.1X49-D120 and later
19.3R1	19.3R1	Junos OS Release 15.1X49-D120 and later

Supported Browsers

Security Director Release 19.3R1 is best viewed on the following browsers:

- Mozilla Firefox
- Google Chrome
- Microsoft Internet Explorer 11

Installation and Upgrade Instructions

IN THIS SECTION

- [Installing and Upgrading Security Director Release 19.3R1 | 9](#)
- [Adding Security Director Log Collector Node in Security Director Release 17.2R1 and Later | 10](#)

This section describes how you can install and upgrade Junos Space Security Director and Log Collector.

Installing and Upgrading Security Director Release 19.3R1

Junos Space Security Director Release 19.3R1 is supported only on Junos Space Network Management Platform Release 19.3R1 that can run on the following devices:

- JA2500
- Junos Space virtual appliance
- Kernel-based virtual machine (KVM) server installed on CentOS Release 7.2.1511

In Junos Space Security Director Release 19.3R1, a single image installs Security Director, Log Director, and the Security Director Logging and Reporting modules. All three applications are installed when you install the Security Director Release 19.3R1 image.

NOTE: Starting in Junos Space Security Director Release 17.2R1 onward, Log Collector version information is stored in the `/etc/juniper-release` file on Log Collector. In previous Junos Space Security Director releases, Log Collector version information is stored in the `/etc/redhat-release` file on Log Collector.

NOTE: An integrated Log Collector on a JA2500 appliance or Junos Space virtual appliance supports only 500 events per second (eps).

For more information about installing and upgrading Security Director Release 19.3R1, see [Security Director Installation and Upgrade Guide](#).

Adding Security Director Log Collector Node in Security Director Release 17.2R1 and Later

For distributed Log Collector deployment, you must add only a Log Receiver node. You can add the node directly to Security Director using admin credentials, as in the case of the JSA node. For security reasons, non-root credentials are used to add a node.



CAUTION: For Security Director Log Collector, provide the default credentials: username is admin and password is juniper123. You must change the default password by using the Log Collector CLI command `configureNode.sh` as shown in [Figure 1 on page 10](#).

Figure 1: Change Password

```
[root@LOG-COLLECTOR ~]# sh configureNode.sh
#####
Please enter your choice:
1) Configure IP Address
2) Configure Time Zone
3) Configure Name Server Settings
4) Configure NTP Settings
5) Configure eMail Settings for event notification
6) Update Log Collector database password
7) Quit

Please enter your choice: 6

Updating Log Collector database password

Please Enter New Password for db(elasticsearch) user, admin :
```

For JSA, provide the admin credentials that are used to log in to the JSA console.

For information about how to add the Log Collector node to Security Director, see [Security Director Installation and Upgrade Guide](#).

Loading Junos OS Schema for SRX Series Devices

You must download and install correct Junos OS schema to manage SRX Series devices. To download the correct schema, from the Network Management Platform list, select **Administration > DMI Schema**, and click **Update Schema**. See [Updating a DMI Schema](#).

DMI Schema Compatibility for Junos OS Service Releases

The following tables explain how the Junos Space Network Management Platform chooses Device Management Interface (DMI) schemas for devices running Junos OS Service Releases.

If a Junos OS Service Release is installed on your device with a major release version of a DMI schema installed on Junos Space Network Management Platform, then Junos Space chooses the latest corresponding major release of DMI schemas, as shown in [Table 3 on page 11](#).

Table 3: Device with Service Release and Junos Space with FRS Release

Junos OS Version on Device	Junos Space DMI Schemas Installed	Junos Space Default Version	Junos Space Version Chosen for Platform
18.4R1-S1	18.4R1.8 18.3R1.1 18.2R1.1	18.2R1.1	18.4R1.8

If a Junos OS Service Release is installed on your device without a matching DMI schema version in Junos Space Network Management Platform, then Junos Space chooses the default DMI schema version, as shown in [Table 4 on page 11](#).

Table 4: Device with Service Release and Junos Space without matching DMI Schema

Junos OS Version on Device	Junos Space DMI Schemas Installed	Junos Space Default Version	Junos Space Version Chosen for Platform
18.4R1-S1	18.3R1.1 18.2R1.1	18.2R1.1	18.2R1.1

If more than one version of the DMI schemas are installed in Junos Space Platform for a single Junos OS Service Release version, Junos Space chooses the latest version of the DMI schema, as shown in [Table 5 on page 12](#).

Table 5: Device with Service Release and Junos Space with more than one DMI Schemas

Junos OS Version on Device	Junos Space DMI Schemas Installed	Junos Space Default Version	Junos Space Version Chosen for Platform
18.4R1-S1	18.4R1.8 18.4R1.7 18.4R1.6 18.3R1.1	18.3R1.1	18.4R1.8

If a Junos OS Service Release is installed on your device without a corresponding DMI schema version in Junos Space Network Management Platform, then Junos Space chooses a default DMI schema version, as shown in [Table 6 on page 12](#).

Table 6: Device with Service Release and Junos Space without more DMI Schemas

Junos OS Version on Device	Junos Space DMI Schemas Installed	Junos Space Default Version	Junos Space Version Chosen for Platform
18.4R1.1	18.3R1.1 18.2R1.1	18.2R1.1	18.2R1.1

For information about Junos OS compatibility, see [Junos OS Releases Supported in Junos Space Network Management Platform](#).

Management Scalability

The following management scalability features are supported in Security Director:

- By default, monitor polling is set to 15 minutes and resource usage polling is set to 10 minutes. This polling time changes to 30 minutes for a large-scale data center setup such as one for 200 SRX Series devices managed in Security Director.

NOTE: You can manually configure the monitor polling on the **Administration > Monitor Settings** page.

- Security Director supports up to 15,000 SRX Series devices with a six-node Junos Space fabric. In a setup with 15,000 SRX Series devices, all settings for monitor polling must be set to 60 minutes. If monitoring is not required, disable it to improve the performance of your publish and update jobs.

- To enhance the performance further, increase the number of update subjobs thread in the database. To increase the update subjobs thread in the database, run the following command:

```
#mysql -u <mysql-username> -p <mysql-password> sm_db;
mysql> update RuntimePreferencesEntity SET value=20 where
name='UPDATE_MAX_SUBJOBS_PER_NODE' ;
mysql> exit
```

NOTE: For mysql username and password, contact Juniper Support.

Table 7 on page 13 shows the supported firewall rules per policy that are processed concurrently.

Table 7: Supported Firewall Rules per Policy

Number of Device Rules Processed Concurrently	JBoss Node Count	Memory	Platform OpenNMS Function	Log Collector	Hard Disk
5,000–7,000	1	64 GB of RAM	Enabled	Dedicated node	Any
15,000	1	64 GB of RAM	Off or dedicated node	Dedicated node	Any
40,000	2	64 GB of RAM per node	Off or dedicated node	Dedicated node	Any
100,000	2	64 GB of RAM per node	Off or dedicated node	Dedicated node	SSD required

NOTE: If you use a database dedicated setup (SSD hard disk VMs) for the deployment mentioned in Table 7 on page 13, the performance of publish and update is better compared to the performance in a normal two-node Junos Space fabric setup.

Known Behavior

This section contains the known behavior and limitations in Junos Space Security Director Release 19.3R1.

- You must disable OpenNMS before installing the integrated Log Collector.

To disable OpenNMS:

1. Select **Network Management Platform > Administration > Applications**.
2. Right-click **Network Management Platform**, and select **Manage Services**.
3. Select **Network Monitoring**, and click the Stop Service icon.

The network monitoring service is stopped, and the status of OpenNMS is changed to Disabled.

NOTE: You must ensure that Junos Space Network Management Platform and Security Director are already installed on a JA2500 appliance or Junos Space virtual appliance.

- The **Enable preview and import device change** option is disabled by default.

To enable this option:

1. Select **Network Management Platform > Administration > Applications**.
2. Right-click **Security Director**, and select **Modify Application Settings**.
3. From Update Device, select the **Enable preview and import device change** option.

- If you restart the JBoss application servers manually in a six-node setup one-by-one, the Junos Space Network Management Platform and Security Director user interfaces are launched within 20 minutes, and the devices reconnect to Junos Space Network Management Platform. You can then edit and publish the policies. When the connection status and the configuration status of all devices are UP and IN SYNC, respectively, click **Update Changes** to update all security-specific configurations or pending services on SRX Series devices.

- To generate reports in the local time zone of the server, you must modify `/etc/sysconfig/clock` to configure the time zone. Changing the time zone on the server by modifying `/etc/localtime` does not generate reports in the local time zone.

- If the vSRX VMs in NSX Manager are managed in Security Director Release 17.1R1 and Policy Enforcer Release 17.1R1, then after upgrading to Security Director Release 19.3R1 and Policy Enforcer Release 19.3R1, you must migrate the existing vSRX VMs in NSX Manager from Policy Enforcer Release 17.1R1 to Release 19.3R1.

To migrate the existing vSRX VMs:

1. Log in to the Policy Enforcer server by using SSH.

2. Run the following commands:

```
cd /var/lib/nsxmicro
./migrate_devices.sh
```

- If the NSX Server SSL certificate has expired or changed, communication between Security Director and NSX Manager fails, thereby impacting the functionality of NSX Manager, such as sync NSX inventory and security group update.

To refresh the NSX SSL certificate:

1. Log in to Policy Enforcer by using SSH.

2. Run the following command:

```
nsxmicro_refresh_ssl --server <<NSX IP ADDRESS>>--port 443
```

This script fetches the latest NSX SSL certificate and stores it for communication between Security Director and NSX Manager.

- In a setup where other applications are installed in Junos Space Network Management Platform along with Security Director, the JBoss PermSize must be increased from 512m to 1024m in the `/usr/local/jboss/domain/configuration/host.xml.slave` file. Under `<jvm name="platform">`, change the following values in the `<jvm-options>` tag:

```
<option value="-XX:PermSize=1024m"/>
```

```
<option value="-XX:MaxPermSize=1024m"/>
```

- When you import addresses via CSV, a new address object is created by appending `a_1` to the address object name if the address object is already present in Security Director.

Known Issues

This section lists the known issues in Security Director Release 19.3R1.

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

- When you import multiple devices with default IPS policies simultaneously, only one default IPS policy is imported. The default IPS policy of other devices are not imported. [PR1470335](#)

Workaround: If default IPS policies are configured, import devices individually.

OR

If you want to simultaneously import multiple devices with default IPS policies, create and update default IPS policy from Standard/Unified Policies > Global Options > IDP Default.

- An object conflict is seen while importing web filter profiles with duplicate name though the values are same. [PR1420341](#)

Workaround: Select either Overwrite with Imported Value or Keep Existing Object to avoid duplicate objects.

- Unified IPS support for LSYS device is not provided. [PR1465554](#)
- Security Director does not support routing instance and proxy profile in antivirus pattern update for UTM default configuration. [PR1462331](#)
- Unable to delete custom users and roles. [PR1466720](#)

Workaround: Custom users and roles can be deleted from Junos Space Network Management Platform.

- When out-of-band changes are imported to logical system (LSYS) device, the job is created for the root device along with the LSYS device, although changes are made only in the LSYS device. [PR1448667](#)
- The newly created first rule of a rule group always moves to the previous rule group when out-of-band changes are imported. [PR1451550](#)

Workaround: Manually move the imported rule to the appropriate rule group.

- You must not import a device with UTM traffic-options because Security Director throws a delta which causes update to fail. [PR1419135](#)

Workaround: Delete traffic-options from the UTM profiles.

- Import fails when a device is imported with UTM custom objects alone without a UTM policy. [PR1447779](#)

Workaround: Delete the UTM custom objects if they are not used in a policy or assign a UTM policy.

- Port range search of services in firewall rule page does not work. [PR1442093](#)
- Update fails for unified policies when an SSL proxy profile that is set as global in a device is not used in any policy for that device. [PR1407389](#)
- Junos Space Security Director fails to import VPN if a device uses master password encryption because VPN preshared key with \$8\$ format is not supported. [PR1416285](#)
- Junos Space Security Director generates wrong CLI commands for deleting advanced policy-based routing (APBR) rules. [PR1417708](#)
- A policy analysis report with a large number of rules cannot be generated. [PR1418125](#)

- When a column filter is used, the deselect all and clear all options sometimes do not clear selected items. [PR1424112](#)
 - The Show Unused option is removed for URL categories. [PR1431345](#)
- For known issues in Policy Enforcer, see [Policy Enforcer Release Notes](#).

Resolved Issues

This section lists the issues fixed in Security Director and Policy Enforcer Release 19.3R1.

For the most complete and latest information about resolved Security Director and Policy Enforcer issues, use the Juniper Networks online [Junos Problem Report Search](#) application.

- Issue when cloning a predefined report definition. [PR1449442](#)
- The source-except option in IPS policies does not work. [PR1449494](#)
- Unable to delete unused items. [PR1445707](#)
- Unable to search for any rule description from the global search. [PR1441200](#)
- Import of firewall policy fails. [PR1459349](#)
- Update job takes a long time to complete. [PR1455111](#)
- Unable to create application firewall policies. [PR1451118](#)
- Service object merge function does not work. [PR1428132](#)
- The Find Usage option for shared objects does not work. [PR1450774](#)
- Exact hit-count report is not generated. [PR1434244](#)
- Traffic log search by policy name fails if the policy name has a special character. [PR1456719](#)
- VPN configuration update fails. [PR1459910](#)
- An error occurs during an import device configuration job. [PR1438257](#)
- Search does not work. [PR1442082](#)
- Search of services does not work. [PR1458357](#)
- When publishing and updating a NAT policy, the destination port is deleted. [PR1448887](#)
- Dynamic application information is lost. [PR1447346](#)
- Destination port is not shown when publishing and updating a NAT policy. [PR1453195](#)
- Unable to rename objects. [PR1437619](#)
- Description search of firewall rules does not work if the search string is a combination of numerals and alphabets. [PR1441200](#)

- Unable to import IPS policies from devices with Junos OS version 18.2R1 or later. [PR1411089](#)
- Unable to import UTM configuration from devices with Junos OS version 18.2R1 or later. [PR1431759](#)
- Devices without unified support can be assigned under unified policies. [PR1407283](#)
- Failure seen in preview after upgrade. [PR1463926](#)
- An issue with Install Signatures schedule job. [PR1450479](#)
- Unable to import URL global device profiles. [PR1459427](#)
- Unable to edit Show Top Records value in report definition. [PR1463934](#)
- Numeric values are appended to VPN names. [PR1453628](#)

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>.

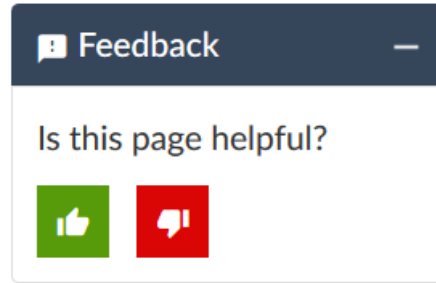
Juniper Networks Feature Explorer is a Web-based application that helps you to explore and compare Junos Space Network Management Platform and Junos Space Management Applications feature information to find the correct software release and hardware platform for your network. Find Feature Explorer at: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

11 November, 2019—Revision 1—Junos Space Security Director Release 19.3R1.

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