Release Notes: Junos Space Security Director Release 17.2R2

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Introduction

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

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

Release Notes for Junos Space Security Director

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, NAT policies, IPS policies, and application firewalls.

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

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Supported Managed Devices

Security Director Release 17.2R2 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
- vSRX
- MX240
- MX480
- MX960
- MX2010
- MX2020
- LN1000-V
- LN2600

The supported log collection systems are:

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

Supported Junos OS Releases

- Security Director Release 17.2R2 supports the following Junos OS branches:

  - 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
- 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 on devices running Junos OS Release 11.4 or later.

NOTE: Before you can manage an SRX Series device by using Security Director, we recommend that you have the exact matching Junos OS schema installed on the Junos Space Network Management Platform. If there is a mismatch, a warning message is displayed during the publish preview workflow.

Supported Policy Enforcer and Sky ATP Releases

Table 1 on page 4 shows the supported Policy Enforcer and Sky Advanced Threat Prevention (Sky ATP) releases.

Table 1: Supported Policy Enforcer and Sky ATP Releases

Security Director Release	Compatible Policy Enforcer Release	Junos OS Release (Sky ATP Supported Devices)
16.1R1	16.1R1	Junos 15.1X49-D60 and later
16.2R1	16.2R1	Junos15.1X49-D80 and later
17.1R1	17.1R1	Junos15.1X49-D80 and later

Table 1: Supported Policy Enforcer and Sky ATP Releases *(continued)*

Security Director Release	Compatible Policy Enforcer Release	Junos OS Release (Sky ATP Supported Devices)
17.1R2	17.1R2	Junos15.1X49-D80 and later
17.2R1	17.2R1	Junos15.1X49-D110 and later
17.2R2	17.2R2	Junos15.1X49-D110 and later

Supported Browsers

Security Director Release 17.2R2 is best viewed on the following browsers:

- Mozilla Firefox
- Google Chrome
- Microsoft Internet Explorer 11

Installation and Upgrade Instructions

This section contains the procedures to install and upgrade Junos Space Security Director and Log Collector.

- Installing and Upgrading Security Director Release 17.2R2 on page 5
- Adding Security Director Log Collector Node in Security Director Release 17.2R1 and Later on page 6

Installing and Upgrading Security Director Release 17.2R2

Junos Space Security Director Release 17.2R2 is supported only on Junos Space Network Management Platform Release 17.2R1 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 17.2R2, 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 17.2R2 image.

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

NOTE: Integrated Log Collector on a JA2500 appliance or Junos Space virtual appliance supports only 500 eps.

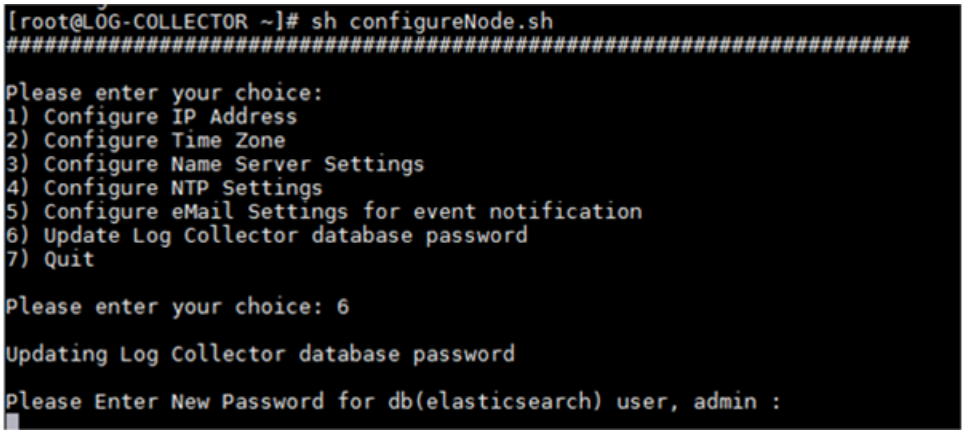
For more information about installing and upgrading Security Director Release 17.2R2, see Security Director Installation and Upgrade Guide.

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

The Security Director Log Collector node is no longer a special node in Space fabric. 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.

From Security Director Release 17.2R1 onward, use admin/juniper123 as default credentials to add the Security Director Log Collector node to Security Director. You can change the default password by using the Log Collector CLI command **configureNode.sh** as shown in Figure 1 on page 6.

Figure 1: Change Password



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 Releases

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

Management Scalability

The following management scalability features are supported on 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 your publish or update job performance.
- To enhance the performance further, increase the update subjobs thread number in the database. To increase the update subjobs thread in the database, run the following command:

```
#mysql -pnetscreen
mysql> update RuntimePreferencesEntity SET value=20 where
name='UPDATE_MAX_SUBJOBS_PER_NODE';
mysql> exit
```

Table 2 on page 7 shows the supported firewall rules per policy processed concurrently.

Table 2: 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	32 GB of RAM	Enabled	Dedicated node	Any
15,000	1	32 GB of RAM	Off or dedicated node	Dedicated node	Any
40,000	2	32 GB of RAM per node	Off or dedicated node	Dedicated node	Any
100,000	2	32 GB of RAM per node	Off or dedicated node	Dedicated node	SSD required

NOTE: If you use the database dedicated setup (SSD hard disk VMs) for the deployment mentioned in the table above, the performance of publish and update is better compared with the normal two-node Junos Space fabric setup.

New and Changed Features

This section describes the new features and enhancements to existing features in Junos Space Security Director Release 17.2R2.

- **Commit check—**You can verify the syntax of the configuration changes for firewall, NAT, IPS, VPN, and APBR before the configuration is pushed to the security devices.
- **Policy enforcement for private cloud with Juniper Contrail—**You can enable policy enforcement through threat remediation on a private cloud managed by Contrail. To enable policy enforcement, create a Contrail connector with Policy Enforcer.
- **Policy enforcement for public cloud with AWS—**You can enable the policy enforcement on endpoints or resources on the Amazon public cloud. To enable policy enforcement, create a connector to collect the required information about Amazon cloud and apply the corresponding action for threat remediation, from the virtual private cloud (VPC) to the endpoint level.
- **Third-party switch support—**Threat mitigation now supports ForeScout CounterACT in addition to HP Aruba ClearPass and Cisco ISE.

Known Behavior

This section contains the known behavior and limitations in Junos Space Security Director Release 17.2R2.

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

  To disable OpenNMS:

  1. Select **Network Management Platform** > **Administration** > **Applications**.

     The Applications page appears.

  2. Right-click **Network Management Platform** and select **Manage Services**.

     The Manage Services page appears.

  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 the Junos Space Network Management Platform and Security Director are already installed on a JA2500 or virtual machine.

- The *Enable preview and import device change* option is disabled by default. To enable this option, select **Network Management Platform** > **Administration** > **Applications**. Right-click **Security Director** and select **Modify Application Settings**. Under 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 the Security Director user interfaces are launched within 20 minutes, and the devices reconnects to the 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** is not sufficient.
- After installing the Policy Enforcer Release 17.1 OVA image, you must manually start the following service commands:

```
service sd_event_listener start
service ssh_listener start
```

- If 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 17.1R2 and Policy Enforcer Release 17.1R2, log in to the Policy Enforcer server by using SSH and run the following command:

  cd /var/lib/nsxmicro

  ./migrate_devices.sh

  This script migrates the existing Release 17.1R1 vSRX VMs in NSX Manager into the currently compatible Release 17.1R2.

- If the NSX server SSL certificate has expired or changed, communication between Security Director and NSX Manager does not work, thereby impacting the functionality of the NSX Manager, such as sync NSX inventory, security group update, and so on.

  You must refresh the NSX SSL certificate by performing the following steps:

  1. Log in to Policy Enforcer by using SSH.
  2. Run the command:

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

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

Known Issues

This section lists the known issues in Security Director Release 17.2R2.

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

- Grid column filter does not work for Internet Explorer 11. PR1161079
- Cluster devices are discovered in different domains. PR1162407
- After you upgrade Security Director, the custom column is not visible in the firewall rule grid. PR1256789

- You must manually synchronize NSX with the vCenter server to view the latest restart or power off status. PR1285312
- The global search for a dynamic address group does not work as expected. PR1285893
- Any Service Groups notification sent from NSX to Security Director triggers an RPC update job for each vSRX device, instead of a single job with all the related vSRX devices. PR1288407
- If there is a change in the login password of NSX Manager, vCenter, or Junos Space, then use the Edit NSX Manager page in Security Director to modify the login password information. Otherwise, synchronization of NSX Manager and dynamic address groups update fails.PR1291965
- If NSX is integrated with Security Director, several login and logout entries are observed in the audit log. PR1291972
- If you delete an NSX service, the associated firewall or IPS policies created by Security Director are also deleted. If you need a copy of the NSX-created group firewall or IPS policies, you must clone them manually before deleting the NSX service. PR1291974
- As Security Director is not aware of the IDP licenses installed on the NSX Manager with vSRX VM, you must perform the full probe during the installation of the IDP signature. PR1291977
- If the Policy Enforcer VM is down or the NSX services are down when there is a change in the service group membership in NSX, you cannot trigger an event to vSRX to poll for the latest service group members from the feed server. PR1295882

  Workaround: Perform one of the following actions to trigger events to vSRX instances:

  - Modify the description of the service group when the services or Policy Enforcer VM is down.
  - Log in to the vSRX device by using the SSH command and execute the following command:

    request security dynamic-address update address-name *Dynamic-Address-Name*

- If you directly go to the summary page of setup wizard, the summary page might appear blank. As a workaround, follow each step in the guided setup. PR1309366
- After upgrading to Security Director Release 17.1R2 and Policy Enforcer Release 17.1R2 from Security Director Release 17.1R1, when you add a new NSX Manager, intermittently the dynamic address groups are not seen in the firewall rule source and destination address.

  Workaround: Perform the following steps:

  1. Restart the NSX microservice by using the **service nsxmicro restart** command in Policy Enforcer.
  2. Perform a manual synchronization of NSX Manager from the user interface.

     You should now see all the dynamic address groups in the source and destination addresses of a firewall rule. PR1310322

- When you install the Junos OS Release 17.4 schema on a Junos space server, publish or update operations might fail on SRX Series platforms when UTM custom objects are present as part of the configuration.

  Workaround: Restart JBoss. PR1330089

- Application firewall OCR fails when the **OVER WRITE** option is selected.

  Workaround: You can choose the RE_NAME option and proceed with the rollback or import. PR1324941

- When you try to add device-specific values for child domains in variable addresses or zones, the changes are not saved in the user interface. PR1330389

- NAT pool is not shown in the OCR screen if the used address has conflicts. PR1330392

- The metadata feed server requires manual restart of the secmgt-skyatp-proxy service when Security Director is installed or upgraded. PR1330400

  Workaround: After Security Director Release 17.2R1 is installed or upgraded, restart the following services manually:

  - service secmgt-skyatp-proxy stop
  - service secmgt-skyatp-proxy start

- NAT policy fails to be imported into Security Director. PR1340682

- In the Threat Prevention Policy page, triggering a rule analysis may throw an error like this: An error occurred while triggering the rule analysis. Please try again later. PR1331439

  Workaround 1: Click the Update Required or View Analysis link after some time. It will successfully trigger the rule analysis.

  Workaround 2: If the problem persists, select **Configure** > **Firewall Policy** > **Policies**. Select the device and click **Publish & Update**. After this, try threat prevention policy push by clicking the Update Required or View Analysis link.

For known issues in Policy Enforcer, see Policy Enforcer Release Notes.

Resolved Issues

This section lists the issues fixed in Security Director Release 17.2R2.

For the most complete and latest information about resolved Security Director defects, use the Juniper Networks online Junos Problem Report Search application.

- The Top Compromised hosts widget in the dashboard might not list all the realms. PR1262410

- The uploaded schema tar must be in the following folder structure: **/dmi/<device-type>/releases/<schema-version>/**. Otherwise, even though the installation is successful, the schema loading fails and the Modify Configuration page does not load. PR1268413

- If you add NSX Manager and deploy the Juniper Networks services before Security Director installs the IDP signatures, the vSRX device is discovered. However, you must

install the IDP signature offline, create the IDP policy, and assign the vSRX VMs in NSX Manager. PR1291979

- Disenrolling the site in the infected custom feed does not remove the firewall filters from the switch for IP addresses that are in the custom feed. PR1309819
- Some Security Director dashboard preferences, such as dashboard widget selections, are not saved across multiple Space fabric nodes. They must be configured independently on each node. PR1299082
- The application search function in Security Director does not display any data. PR1307017

Documentation Errata

This section lists the errata in Security Director Release 17.2R2 documentation [PR1332378]:

- The Version text is repeated in the title bar of the What's New panel in the Security Director 17.2R2 user interface.

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: https://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: https://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: https://www.juniper.net/documentation/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 rating system—On any page of the Juniper Networks TechLibrary site at https://www.juniper.net/documentation/index.html, simply click the stars to rate the content, and use the pop-up form to provide us with information about your experience. Alternately, you can use the online feedback form at https://www.juniper.net/documentation/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/
- Open a case online in the CSC Case Management tool: https://www.juniper.net/cm/

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

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at https://www.juniper.net/cm/.
- 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://www.juniper.net/support/requesting-support.html.

Revision History

27 March, 2018—Junos Space Security Director Release 17.2R2.