

Junos[®] Space Network Management Platform 13.1P5.3 Release Notes

Release 13.1P5.3
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Supported Junos Space Applications and Adapters

The Junos Space Network Management Platform supports the following Junos Space applications:

- Service Insight 13.1 P1
- Service Now 13.1 P1
- Junos Space Network Director 1.5
- Security Director 13.1P1
- WW Junos OS Adapter

Supported Devices

This release of Junos Space Network Management Platform supports the following additional Juniper Networks devices running Junos OS:

- EX4300-Copper
- EX4550-40G
- X44-D10-Minor-SW
- X45-Major 3 - SW
- TXP-3D
- WLC Device

For the complete list of supported devices, see the FAQ topic "*Which Juniper Networks Platforms Does Junos Space Network Management Platform Software Support?*".



NOTE: When Junos Space Network Management Platform discovers EX Series switches running Layer 2 next generation (L2NG) software, the device family for these devices is displayed (in the Device Management page) as “junos” and not as “junos-ex”. This behavior is currently observed on EX4300 and EX9200 switches running Layer 2 next generation software.

New Features in Release 13.1P5.3

The Junos Space Network Management Platform application includes no new features in this release.

New Features in Release 13.1P1

- **Filter based on CSV file**—A new **Filter by CSV** task is introduced on the Device Management landing page, which enables you to filter the devices using the device names provided in a CSV file. You can access this task from the Actions menu or the right-click context menu.
- **Create public tags from any landing page**—While assigning a tag (using Tag It), you can create a new public tag or convert an existing private tag to a public tag, and then assign the tag to an object. The Apply Tag page contains the newly introduced **Make Public** check box, which when selected enables you to create a public tag or convert a private tag to a public tag.

New Features in Release 13.1

- Support for the following Juniper Networks hardware devices:
 - EX4300-Copper
 - EX4550-40G
 - X44-D10-Minor-SW
 - X45-Major 3 - SW
 - TXP-3D
 - WLC Device
- **Device—device template association** — This feature allows you to view the association between devices and device templates. You can right-click a set of device templates to view the list of devices on which the device templates are applied. You can right-click a set of devices to view the list of device templates that are applied on the selected devices.
- **Subscribe to messages and notifications** — This feature allows the Junos Space applications to subscribe to messages and notifications.
- **Support for a separate IP address on a different external routing engine (XRE)** — This feature supports a dual IP address on an EX-XRE device. Junos Space immediately detects a failover based on the system log event and marks the device connection as

down. Junos Space then tries to quickly reconnect with the new backup IP address and uses this IP address for all configurations.

- **Support for device family filtering** — This feature filters configurations on the basis of device family and schema.
- **Simplified on-device system log messages** — This feature simplifies on-device system log messages to lower the CPU usage on the devices.
- **Session ID within the User Interface notification** — This feature includes the session ID which generates the notification, within the user interface notification. The user interface is refreshed only for the user who generated the notification. For other users viewing the same page, the user interface is not refreshed.
- **Resynchronize devices as "Synchronous" on Junos Space Network Management Platform** — This feature is required for reconciliation workflows. Junos Space Network Management Platform provides a synchronous EJB API. The application creates a job that includes the resynchronization of the Junos Space Network Management Platform configuration and synchronizes the Junos Space application configuration model with the Junos Space Network Management Platform configuration.
- **Routing Engine status** — This feature displays the active and backup Routing Engines on the Physical Inventory page. The Status column on the Physical Inventory page displays the status of the Routing Engine.
- **My Jobs widget enhancement** — This feature provides a way to view a specific job from the My Jobs widget. You can click the Job ID link on the My Jobs report that is accessed through the My Jobs widget. This displays only the corresponding job on the Job Management page.
- **Cancel jobs workflow enhancement** — This feature enhances the jobs workflow. The Job User can cancel only self-triggered jobs. The Job Administrator can cancel jobs triggered by all users. The custom user roles can be assigned the privileges of a Job User or a Job Administrator.
- **Updated CLI menu** — This feature provides three new configuration options on the Junos Space CLI menu. The three options are Change IP Address of Space node, Change Timezone, and Change Static Routes.
- **Auditing of job deletion** — This feature adds deleted jobs in the audit logs. You can view the audit logs on the Audit Logs workspace.
- **Device inventory enhancement** — This feature provides additional columns in the physical inventory CSV file exported from the View Physical Inventory page. The columns added under the Device hierarchy levels are Chassis, Module, Sub-module, Sub-Sub-module, and Sub-Sub-Sub-module.
- **Reporting workspace** — This feature provides a new workspace to create report definitions and reports. You can create report definitions to specify what information to retrieve from the Junos Space Network Management Platform inventory database. You can use these report definitions to generate and print reports in the CSV, and PDF formats.

- **Activate or deactivate elements in the configuration** — This feature allows you to activate or deactivate a specific configuration element on the device through the Device Configuration Editor.
- **Switch to Key-based authentication** — This feature allows you to switch authentication for devices from credentials-based authentication to key-based authentication. You can switch to key-based authentication using the Device Access > Modify Authentication workflow. You can resolve key conflicts for devices that cannot be authenticated by changing the key when the device is down. You can resolve key conflicts using the Device Access > Resolve Key Conflict workflow.
- **Switch to Credential-based authentication** — This feature allows you to switch authentication for devices from key-based authentication to credentials-based authentication. You can switch to key-based authentication using the Device Access > Modify Authentication workflow.
- **Configuration Guides** — This feature introduces Configuration Guides to modify the device configuration. You can use these hot-pluggable Configuration Guides to configure basic device configuration and other security-related configuration. Changes made using multiple Configuration Guides are processed as a single change request. You can also approve, reject, or deploy the changes configured using Configuration Guides.
- **CLI Configlets** — This feature introduces a new workspace to create and modify CLI Configlets and Configuration Views. You can use the CLI Configlets to simplify and speed up the creation and deployment of configuration change templates by using native CLI commands. This feature enables operators to use Junos OS CLI templates through a centralized Junos Space GUI and apply the configuration to the appropriate device. The Template variables and actual attributes can be automatically populated through the GUI, and the chosen CLI Configlet can be deployed on to the device. You can create Configuration Views and use these Configuration Views to see the configuration details in a customized manner. The two types of Configuration Views are Form View and Grid View.
- **Loopback address for unmanaged devices** — This feature allows you to configure and view a loopback address for devices that are not managed by Juniper Networks.
- **Configuring password expiry** — You can set the duration in months in the newly added field, “Time interval for password expiry in months” (Platform > Applications > Network Management Platform > Modify Application Settings > Password), after which the passwords of all Junos Space locally authenticated users expire. Setting this field to 0 (zero) means that the passwords never expire.
- **Limiting concurrent user sessions** — You can set the maximum number of concurrent UI sessions that should be allowed for a user, both globally (Platform > Applications > Network Management Platform > Modify Application Settings > User > Maximum concurrent UI sessions per user) and at the user level (Platform > Users > User Accounts > Create User > Maximum concurrent UI sessions).
- **Disabling the scripts** — You can disable scripts before staging them on to the devices by clearing the newly added check box, “Enable Scripts.” You can perform this action from “Images and Scripts > Scripts > Stage Scripts on Devices,” “Images and Scripts > Operations > Create Operation > Script > Stage,” or “Images and Scripts > Script bundles > Stage on Devices.”

- **Enabling and disabling the scripts within a script bundle** — After you stage a script bundle, you can enable or disable the scripts within the script bundle on one or more devices simultaneously using the newly added “Enable Script Bundle on Devices” or “Disable Script Bundle on Devices” option (Platform > Images and Scripts > Script bundles > Actions).
- **Viewing the devices to which the scripts within the script bundle are associated** — View the devices on which the scripts within a script bundle are staged using the newly added “View Device Association” option (Platform > Images and Scripts > Script bundles > Actions).
- **Configuring certificate-based authentication** — Junos Space Network Management supports certificate-based authentication in addition to the default password-based authentication. You can install the necessary custom certificates on the Junos Space server to enable certificate-based authentication.
- **Running older versions of the scripts** — You can now select and run an older version of a script on a device. You can perform this action from “Images and Scripts > Scripts > Stage Scripts on Devices,” “Images and Scripts > Scripts > Execute Script on Device(s),” “Images and Scripts > Operations > Create Operation > Script > Stage,” or “Images and Scripts > Script bundles > Create/Modify Script Bundle.”
- **Backing up and restoring the Network Monitoring database** — You can now back up with this feature and restore the Network Monitoring database, in addition to the default MySQL database. With this feature even if the system crashes, you can add a new system (RMA) and restore the configuration that previously existed in the crashed system, from the backup file.
- **Global search** — This feature allows a user to perform a full-text search for objects within Junos Space Network Management Platform. In Junos Space Release 13.1 or later, you can search through device inventory, physical inventory, software inventory, physical interfaces, logical interfaces, and tag categories. For example, you can type “srx” to view a list of devices that belong to the SRX Series platform. For the list of objects that you can search, see the “Global Search” section in the Junos Space Network Management Platform User Guide.
- **Password settings enhancements** — Under Platform > Applications > Network Management Platform > Modify Application Settings > Password:
 - Setting the “Number of previous passwords [that] cannot be reused” field to 0 (zero) allows users to reuse even their previous passwords.
 - Setting the “Number of unsuccessful login attempts” field to 0 (zero) prevents users from being locked out due to login failures.
 - Setting the “Time interval for lockout in hours” field to 0 (zero) prevents users from being locked out even for a minor duration due to login failures.
 - Setting the “Time interval for password expiry notification in months” field to 0 (zero) prevents Junos Space Network Management Platform from notifying users about the password expiry.
 - The following fields have been moved to “Advanced Settings” on the Password page:

- At least one lowercase character
 - At least one number not in the last position
 - At least one special character not in the last position
 - At least one uppercase character
 - No more than three repetitive characters
 - Not repeat of the user ID
 - Not reverse of the user ID
- **REST APIs for changing device login information** — REST APIs help you change the login information for a large number of devices.
 - **REST APIs for device templates** — Use REST APIs to deploy and undeploy device templates to and from multiple devices. You can input one or more device templates in REST APIs, which in turn display all devices that contain the configuration exposed by the device templates. You can use REST APIs to audit device templates: enter the show out-of-sync configuration command to expose devices that are out of synchronization with the device templates.
 - **Topology support** — From Topology, you can view nodes that contain faults, number of faults, and fault details per node. You can also acknowledge or clear outstanding alarms.
 - **Enhanced monitoring** — Enhanced monitoring of Junos Space hardware and software system faults, support for SNMP V3 forwarding, and capability to start and stop SNMP agents on fabric nodes are provided.
 - **View Alarm History** — View the alarm history for selected alarms to see details about previous alarms and events that map to the corresponding node, interface, and UEI.
 - **Remote authentication support for Network Monitoring users** — A Junos Space remote user with the FMPM manager role can enter a username and password to access the Network Monitoring workspace.
 - **Alarm notifications for Junos Space applications** — By default, the alarms generated by managed devices in the Junos Space Network Management Platform are sent to Network Monitoring. To enable alarm notification for supported Junos Space applications, you can configure basic and advanced filters so that generated alarms that match the filtering conditions you specify in the alarmNotificationConf.xml file are forwarded to the designated applications.
 - **Installation, uninstallation, and upgrade enhancements:**
 - The job summary in the Job management workspace displays reasons, if any, for the installation or uninstallation failure of an application.
 - If you are upgrading from Junos Space Network Management Platform Release 13.1 to a later version, you are provided with the option to back up the database before the upgrade.

- When you upgrade or install Junos Space, the installation progress dialog box now displays the deployment status of JBoss and various other applications as the system goes through a restart after the upgrade.
- **JUISE Integration with Junos Space** — When you install or upgrade to Junos Space Release 13.1 or later, by default, JUNOS User Interface Scripting Environment (JUISE) is also installed. JUISE allows you to execute a script on a remote device directly from the Junos Space server. Prior to Junos Space Network Management Platform Release 13.1, you had to discover and stage the script on the device before executing the script. The JUISE version that is installed with Junos Space Release 13.1 is juise-0.3.10-1.
- **Subobject access control** — This feature allows an administrator to restrict user access to specific components within a device instead of providing full access to the device.

Operational Notes

- Junos Space Network Management Platform 13.1P5.3 is mandatory for Junos Space Network Director version 1.5 users. This version of Junos Space Network Management Platform contains enhancements to support the proper operation of Junos Space Network Director 1.5.
- You can upgrade Junos Space Network Management Platform to version 13.1P5.3 only from the Junos Space Network Management Platform 13.1R1.6 version or the Junos Space Network Management Platform 13.1P1.14 version.
- Do not use the word “global” in the name of a permission label. Using “global” in the name of a permission label bypasses the permission label restrictions configured in Junos Space Network Management Platform. If the word “global” is used in the name of the permission label, users will be allowed to view unauthorized content in the search results.
- If you want to perform a global search or a device ILP search using partial keywords, append “*” to the search keywords.
- Upgrading Junos Space Network Management Platform version from 13.1B1 to 13.1R1.6 is not supported. If you are running Junos Space Network Management Platform version 13.1B1 (beta code), it is recommended to do a fresh install instead of an upgrade.
- If you are currently using Security Director version 12.2 with Junos Space Network Management Platform version 12.3P2.8, you should not directly upgrade the Junos Space Network Management Platform version to 13.1. Please read and understand <http://kb.juniper.net/KB27572> prior to making any upgrade decisions.
- When you upgrade Junos Space Network Management Platform from version 12.3 to 13.1, only predefined user roles are automatically migrated; custom user roles are not migrated. The super user can modify the permissions after upgrading to version 13.1. If a custom user role had “Edit Device Configuration” enabled in version 12.3, this permission is transferred to “View/Edit Configuration” after upgrading to version 13.1. However, the “View Active Configuration” privilege that is newly added in version 13.1 should be manually enabled or disabled for a user role. Hence, it is recommended that you review the permissions for the “View/Edit Configuration” and “View Active Configuration” privileges after upgrading Junos Space Network Management Platform to version 13.1. (PR/893315)

- The Job Manager role is renamed Job User role in Junos Space Network Management Platform Release 13.1. In the Junos Space Network Management Platform releases prior to 13.1, the predefined role for Job Manager had privileges to cancel jobs of any user. The predefined Job User role in the Junos Space Network Management Platform release 13.1 does not have privileges to cancel jobs of any user but has privileges to cancel its own job.
- Job Administrator privileges are required to cancel auto-generated Resynch Network Elements jobs.
- Internet Explorer slows down because some scripts may take an excessive amount of time to run. The browser prompts the user to decide whether to continue running the slow script. Refer to <http://support.microsoft.com/kb/175500> to fix this issue.
- When you switch from "Space as system of record" mode to "Network as system of record" mode, devices with the "Managed Status: 'Device Changed' or 'Space & Device Changed'" status are automatically synchronized after a period of 900 seconds. To reduce this time period, modify the "Polling time period secs:" setting for Network Management Platform on "Administration > Applications > Modify Application Settings" to a lower value such as 150 seconds.
- In Space as System of Record (SSoR) mode on Junos Space, when a new authentication key is generated, devices discovered and managed using RSA keys whose management status is Device Changed move to a status of Key Conflict Authentication. To resolve the conflict on the devices and bring them back to a key-based state, upload keys manually (Devices > Upload Keys to Devices).
- Devices not using system log (BX, MCG5000) are not supported in Space as System of Record (SSoR) mode.
- When Junos Space Network Management Platform discovers EX Series switches running Layer 2 next generation (L2NG) software, the device family for these devices is displayed (in the Device Management page) as "junos" and not as "junos-ex". This behavior is currently observed on EX4300 and EX9200 switches running Layer 2 next generation software.

Known Limitations



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

- In a cluster node configuration, if failover occurs, the details of remote users are not available in the Network Monitoring workspace or the `/opt/opennms/users.xml` file. The user details are updated only after the remote user logs back in to the Junos Space user interface.
- When a remote user with the FMPM Manager role uses the API to access Junos Space Network Management Platform, the user details are not updated in the `/opt/opennms/users.xml` file.

- You may observe the following limitations with the topology feature:
 - Node tooltip always displays Status as Active/Managed even though the node is down.
 - If you deploy new services when on the topology page, you may not be able to view these new services. You need to log out and log in to Junos Space to view these services in the Services section of the topology.
 - Information about Service Elements is not displayed when a service is expanded in the Services section in the topology.
 - Information related to the service is not removed from the topology when the associated devices are removed.
 - For SRX cluster, topology links are displayed only for the primary member of the cluster and not for the secondary member.
- When Unified ISSU is performed from the Manage Operations workflow, the Routing Engines are not rebooted. The Routing Engines must be manually rebooted for the image to be loaded.
- If there are pending out-of-band changes (Device Managed Status: Device Changed) and, from Config Editor, a change request is created and deployed (Device Managed Status: Both Changed), the deployment fails. This is appropriate and expected behavior, since pending out-of-band changes must be resolved first. Note that the Device Managed Status does not change back from Both Changed to Device Changed because the failed change request is saved in the Junos Space database and can be redeployed.
- For LSYS (logical, nonroot) devices, when there are pending out-of-band changes on the root device, the Resolve out-of-band changes menu option is disabled for those child LSYS devices, even though Device Managed Status is shown as Device Changed. This is by design.
- Network Monitoring does not support Alarms/Performance Management using SNMPv3.
- RMA is not supported for SRX Series clusters, devices running WW Junos OS, and non-Junos OS devices.
- Script Manager supports only Junos OS Release 10.x and later.
- Stage device script or image supports only devices running Junos OS Release 10.x and later.
- For unified ISSU support for both device-initiated and Junos Space-initiated dual Routing Engine connections, we strongly recommend that you configure the Virtual IP (VIP) on the dual Routing Engine device. Dual Routing Engine devices without VIP configuration are not fully supported on Junos Space.
- In a single node or multiple nodes, changes to the user (for example, password, roles, and disable or enable user) will take effect only on the next login.
- Looking Glass functionality does not support ScreenOS or logical systems.

Outstanding Issues

The following issues are still outstanding in the Junos Space Network Management Platform Release 13.1P5.3. For each entry, the identifier following the description is the tracking number in the Juniper Networks Problem Report (PR) tracking system.

- Switching from X509 Certificate to Credential-based auth mode resets the user password to the default password "juniper123". (PR/905497)
- Using X509 Certificate auth mode with a smart card slows down the system tremendously. (PR/905515)
- X509 Client Certificate authentication does not apply to the NBI. (PR/905555)
- Zombie user from the former standby node appears after a switchover of the Junos Space nodes. (PR/858198)
- Login to the single node Junos Space setup, navigate to Administration >> Fabric page, and right-click on the node and select restart SNMP. SNMP restarts successfully but the following message appears in the user interface "Failed to Start/Stop SNMP." (PR/919424)
- Devices with the connection-type "Reachable Device initiated" do not connection back after performing disaster recovery. (PR/919433)
- User receives an email from ?root@host? from the disaster recovery setup. (PR/919436)
- Exporting an audit log to get all the records of the audit log does not work if the audit log has some filters enabled. (PR/917443)
- On the Topology page, the Group functionality does not work since the right-click menu options are not available. (PR/914476)
- The FMPM special node contains irrelevant rpms installed. (PR/883610)
- Disaster recovery feature does not work with the fabric containing the FMPM node. (PR/892577)
- Changing the network settings using the CLI menu does not work for the FMPM node. (PR/893184)
- The SPACE-PLATFORM-MIB does not differentiate the space node and fmpm node. (PR/909382)
- Global search results display incorrect count for some search queries. For some global search queries like 'SRX AND NOT "650"', the correct search results are shown but the counts are incorrect in the search results panel. (PR/899296)
- Global search option is displayed for Junos Space applications such as Security Director and Network Activate. Global search option is currently supported only on Junos Space Network Management Platform. Global search option is not supported on Junos Space applications. (PR/912743)
- The utilization report for the device interface does not show any statistics. (PR/884326)

- The aggregation links between EX Series Switches and SRX 3600 cannot be discovered using the topology discovery feature. (PR/880569)
- In a multi-node fabric, SNMP v2 settings configured in the Fabric > SNMP Manager page are not updated properly in the /opt/opennms/etc/snmp-config.xml file.

Workaround: Provide the IP address and set the “community” string manually for nodes in the Network Monitoring > Admin section. (PR/909643)

- When you generate a report in CSV format, the columns are misaligned in the generated report. (PR/907518)

Workaround: Generate the report in PDF format.

- RSA-based authentication does not work on QFabric devices. (PR/895887)
- When you deploy a configuration on a device, the job details do not show the summary of configuration pushed to the device. The summary of the configuration is shown on the View Configuration Change Log page. (PR/895824)
- The Generated Reports page can be viewed even if the View Generated Report privilege is not selected for a custom user role. (PR/889084)
- The Encapsulation column in the Physical interface report cannot be filtered. (PR/891829)
- The Reports dashboard displays information about system health. It does not display information about reports or report definitions. (PR/892172)
- Although the Auto-resync Device check box is not disabled in Space as System of Record (SSoR) mode, automatic resynchronizing of devices is not supported in this mode. (PR/813078)
- Configlets cannot be created on the CLI Configlets > Configlets > Create CLI Configlet page if you are accessing the Junos Space user interface through Internet Explorer version 9. (PR/889181)
- A domain name cannot be set up for a QFabric device through the Basic Setup Wizard. (PR/895442)
- Script execution on a device fails if the device returns a warning message. (PR/856224)
- Scripts cannot be executed on the physical inventory of an SRX Series cluster. (PR/865274)
- Modifications for customized attributes on the Configuration page are not retained. (PR/894863)
- When you select a device from the topology layout, the filtered view of the alarms specific to the selected device is not displayed. All alarms are displayed. (PR/895262)
Workaround: To display the filtered list of alarms in Topology > Alarm Widget, click on any column header in the alarm widget after selecting the device.
- When group settings are applied on the device, these settings are not displayed in the Basic Setup Wizard. (PR/884068)
- When a node is set up as “Inactive” in the device configuration, the Basic Setup Wizard incorrectly displays the node as “Active”. (PR/884074)

- In the Basic Setup Wizard, a configuration made without saving to Consolidate Configuration is recorded in the audit log. (PR/894140)
- The option to select multiple devices for "Resolve Out-of-Band Changes" is disabled even if all the selected devices are in the "Device Changed" state. This is because one or more of the selected devices that are in the "Device Changed" state have the "Resolve Out-of-Band Changes" option disabled. For example, when both the primary and secondary nodes of a cluster are discovered in the same or different discovery jobs, one of the nodes frequently goes into the "Device Changed" state, but the Resolve Out-of-Band Changes option is disabled. (PR/894552)

Workaround: Identify the device that is in the Device Changed state and has the Resolve Out-of-Band Changes option disabled. Perform an empty commit operation in CLI mode. The Resolve Out-of-Band Changes option for this device should be enabled on the Junos Space user interface.

- Global search does not support some special characters (+, !, ~). Global search does not support special characters such as "+," "~," and "!" for private tags, public tags, and other fields. The device management search does not support special characters such as "+," "~," and "!" for public tags. (PR/893289)
- When you modify the SNMP node settings on the **Fabric SNMP settings** page, you need to update the /opt/opennms/etc/snmp-config.xml file manually with the new SNMP node settings. (PR/881120)
- The **Sort-By** field takes precedence over the **Group-By** field in a generated report. This displays inaccurate data in the generated report. (PR/888510)
- When you upgrade the Junos Space Network Management Platform from 12.3 to 13.1, the SNMPv3 settings are preserved and migrated if only one SNMP manager is configured. If there are multiple SNMP managers configured, you need to re-configure the SNMPv3 settings manually after upgrade. (PR/888710)
- If you change the Authentication mode through the CLI using the setSpaceAuthMode script, this change is not displayed in the user settings on the Junos Space user interface. (PR/888220)
- The last row of the page is truncated for all generated reports. (PR/889088)
- In CLI mode, the Junos Space authentication mode does not change to password based when you modify the Junos Space authentication mode by using the setSpaceAuthMode script from the non-VIP node. (PR/892630)
- The string filter using the **starts with** operator does not work for all reports. (PR/892360)
- You cannot filter a report using the date and time filter as expected. (PR/891797)
- Some events are lost in the alarm history when duplicate events are received from different service interfaces of the same device. (PR/891369)
- The LmSensors and UCD-SNMP MIB should be compiled by default in Network Monitoring to monitor hardware parameters such as fan, temperature, and voltage of the Junos Space appliance. (PR/893557)

- When the VIP and Node-IP are modified using the menu options in the CLI, the devices are moved to the sync-failed state. (PR/889572)
- When adding unmanaged devices by using a CSV file, enter **N/A** in the loopback address column if you do not want to add a valid loopback address. (PR/893424)
- The following columns cannot be filtered on the Device Inventory Report: IP address, Connection status, AIS install and Event profile, Connection type, and Schema version. (PR/892074)
- Fabric-node SNMP settings that are configured through the Fabric SNMP Settings page are not updated in the /opt/opennms/etc/snmp-config.xml file. (PR/888071)
- Global search returns zero hits for a user with Permission Label restrictions. (PR/889280)
- The Internet Explorer browser may display issues such as script errors, longer response times, and slower refresh times. (PR/882729)
- Partial-search keywords do not work in global search and the device management search. (PR/885014)
- When the VIP and Node-IP settings are modified using the CLI menu options, all the device are moved into the sync-failed state. (PR/889572)
- Unified ISSU support or CLI-command modification is needed from TXP-3D. (PR/880614)
- The Switch Option and Dynamic profile options are not supported in the device configuration but is enabled in Junos Space due to the device (LN2600) schema issue. (PR/850531)
- The “When” option is not supported in the device configuration but is enabled in Junos Space due to the device (LN2600) schema issue. (PR/849396)
- The iptable of the Junos Space server does not work if a TACACS server is used for user authentication. (PR/843248)
- Device Discovery fails if the tags mentioned in the CSV file are the private tags in Junos Space. (PR/860854)
- Topology layout does not display the link associated with a peer-to-peer service between a Juniper Networks device and an unmanaged device. (PR/836790)
- Although M Series, MX Series, and ACX Series devices do not support PPP as an encapsulation type, configuration editor in Junos Space Network Management Platform allows you to configure the PPP encapsulation. (PR/833612)
- For a Junos Space initiated connection, the Platform > Manage Devices inventory page fails to switch to the new master Routing Engine on the dual Routing Engine on a Junos OS device. (PR/563648)
- Old SNMP trap targets are not removed from the device when the network settings on the Junos Space appliance are modified. (PR/689042)
- The LSYS feature does not support deletion of both root and LSYS at the same time. Delete them one at a time. (PR/754683)

- The RMA feature does not currently work for devices running WW Junos OS. (PR/791987)
- Users without Assign/Unassign Template permissions are allowed to add and delete templates from the View Assigned Shared Objects wizard. (PR/816788)

Resolved Issues in Release 13.1P5.3

The following are the issues that have been resolved in Junos Space Network Management Platform Release 13.1P5.3. The identifier following the description is the tracking number in the Juniper Networks Problem Report (PR) tracking system.

- In the device ILP, search based on a column name fails if the column name has letters in upper case. (PR/912347)
- Using Global Search, search based on a column name by appending "*" in the search does not work. (PR/913045)

Resolved Issues in Release 13.1P1

The following are the issues that have been resolved in Junos Space Network Management Platform Release 13.1P1. The identifier following the description is the tracking number in the Juniper Networks Problem Report (PR) tracking system.

- If you disable the network monitoring service and upgrade to Release 13.1, then you are unable to start the network monitoring service after the upgrade. (PR/900660)
- /var/backups/csync2 keeps all copies of Network Monitoring rrd files and fills up the disk space. (PR/895784)

Workaround: Remove all files in /var/backups/csync2.

- After you modify a LSYS device configuration using the Configuration Editor, the LSYS configuration displays incorrect values. (PR/895416)
- On the **Edit Columns/filters** page, when you create a report definition, the **Sort-By** list does not work until you use the **Group-By** list. (PR/893482)
- You cannot use the string filter with the "equal" operator on the Audit Trail and Job Inventory Report types as expected. (PR/892360)
- You cannot use the string filter with the "starts with" operator for all Report types as expected. (PR/892355)
- The generated reports do not contain details about unmanaged devices. (PR/891790)
- On the View Report Definition page, the filter criteria is not displayed correctly. (PR/889547)
- When you generate a report through a report definition with filters containing enumerating values, exceptions are displayed. (PR/889454)
- If you select the Recurrent check box to generate reports recurrently, Junos Space Network Management Platform does not check whether the current time is earlier than the start time. (PR/889091)

- In a report definition, the integer, and date and time filters are not validated properly. (PR/888766)
- If you use multiple filters including the tag filter when creating a report definition, the rows pertaining to filters other than the tag filter are not displayed when you open the report definition again, even though you saved the report definition. (PR/888735)
- Jobs related to the Generate Report task cannot be purged on the Job Management page. (PR/887374)
- When you double-click a report definition or a generated report to view its details, a blank screen is displayed. (PR/883952)
- Log message and description are displayed in alarms and events list page. (PR/869151)
- When you add a device with VLANs to the Junos Space server, the VLAN table is not populated. (PR/867040)

Resolved Issues in Release 13.1

The following are the issues that have been resolved in Junos Space Network Management Platform Release 13.1. The identifier following the description is the tracking number in the Juniper Networks Problem Report (PR) tracking system.

- The version of the Apache server used in Junos Space has security vulnerabilities. (PR/828709)
- The version of Oracle MySQL used in Junos Space has security vulnerabilities. (PR/854846)
- JUISE should be manually set up on the Junos Space Appliance to execute scripts locally. (PR/865331)
- Viewing the script execution results when the job is in progress displays an error. (PR/855599)
- The Execute script and Apply configlet parameter lists differ in functionality and appearance. (PR/861106)
- Sensitive information is cached to disk in Junos Space. (PR/873310)
- Junos Space does not provide access to the JMX-Console in the JBoss application server. (PR/879976)
- In Junos Space, the files containing data and configuration information are not access protected. (PR/884180)
- Junos Space stores sensitive data in the browser cookies. (PR/879977)
- In Junos Space, the Apache Cassandra packages are not updated to the current patch level provided by the vendor. (PR/879989)
- In Junos Space, secure file transfer using SFTP has the following drawbacks:
 - Gateway ports are activated.
 - X11 forwarding is not used in a controlled manner.
 - SSH agent forwarding is not prohibited on the server side.

- Tunnel devices are used.
- Host-based authentication via rhosts and shosts is used.
- Authentication information is forwarded. (PR/879993)
- Junos Space does not close remote user sessions automatically after 15 minutes of inactivity. (PR/880263)
- In Junos Space, the private keys for SSH users are not stored in a secure location. (PR/882763)
- In Junos Space, the public keys for SSH users are not stored in a secure location. (PR/884362)
- User sessions and system services are not protected against cross-site scripting (XSS) issues. (PR/884469)
- Junos Space has more local user accounts than the recommended number of user accounts to avoid security vulnerabilities. (PR/884485)
- Junos Space does not support X.509 certificates to avoid replay tickets and improper use of authentication tickets. (PR/884506)
- Junos Space falls back to the default administrative user if the login attempts by other users fail. (PR/878852)
- When a customized user role with no privileges is assigned to a user to delete a fabric node, the user is able to delete the fabric node. (PR/865074)
- When you delete a route-filter address in a firewall, an error message is displayed. (PR/880256)
- Hardware alarms are not generated or displayed in Network Monitoring. (PR/888166)
- A user with Configuration File Management and Device Manager roles cannot view device configuration files. (PR/879058)
- When you cancel a job (with sub-jobs) that is not completing execution, you cannot view the job results of the sub-jobs. (PR/868113)
- A Junos Space user with all the Configuration File Management roles cannot view the saved device configuration files. (PR/878206)
- When you enable or disable a user, all private tags that are assigned to the user are removed. (PR/879057)
- JBoss uses 100% of the CPU. (PR/877748)
- Junos Space server does not include the NAS-IP attribute or NAS-Identifier in the Access-Request packet in the RADIUS request. (PR/877791)
- When SNMP health-monitoring settings are configured on a device, you cannot deploy the device template to the device as expected. (PR/876476)
- Devices are not synchronized with the Junos Space Network Management Platform. (PR/872972)
- Updating a device template to a device shows 100% success even though the deployment fails. (PR/874950)

- When you try to view the details of a script bundle using the View Script Bundle Details menu item, the "No such action: grid has not been registered in Jx.JxAction.ACTION_TYPES" error message is shown. (PR/871420)
- Templates with device-specific values in a CSV file do not work when you try to apply a single-column value to more than two fields. (PR/868592)
- Discovering an SRX Series device with multiple LSYS devices and pushing policy updates to these LSYS devices as a single job displays a Java exception. (PR/870710)
- In the Detailed Jobs view when you double-click a finished job, job details such as job ID, job name, date, and time are not displayed. (PR/861635)
- The Compare Scripts page has cosmetic issues. (PR/861552)
- A REST API user with a "read-only" role can execute configuration change requests. (PR/863804)
- You cannot stage a device image by using tags. (PR/864897)
- The pop-up window for scheduling the deployment or validation of a consolidated configuration is incorrectly formatted. (PR/863791)
- Image transfer through SCP fails if the device is managed through key-based authentication. (PR/863430)
- The Upload keys job shows 100% success even though you encounter failures when you upload keys to some devices. (PR/863434)
- The super user in Junos Space Network Management Platform cannot modify the details of the super user. (PR/862856)
- You cannot sort the "hostname" column on the Staging device images page as expected. (PR/861170)
- Script modification fails and displays a "no changes" error. (PR/861100)
- On the Device Management page, a user who does not have privileges to work on tags can create, delete, modify, and untag tags. (PR/860454)
- When you are trying to modify a tag description on the Device Management page, right-clicking and selecting Modify Tag, and selecting the existing description removes the description from the Description field. (PR/860400)
- If special characters are present in the password of the administrator, the /opt/jmp-geo/restore/script/restore.sh script fails. (PR/856712)
- After you replace an FPC card on a router, the FPC card is not listed in the sorted order but displayed at the end of the list of FPC cards. (PR/858337)
- When you work on Junos Space Network Management Platform using two tabs of the same browser, after you perform some activity on the second tab, the first tab does not work properly and the second tab displays "logged out due to inactivity". (PR/856498)
- When you view the physical inventory of an MX960 router on the Junos Space Network Management Platform, the physical inventory pages displays SRX5800 instead of MX960. (PR/856421)

- You may view incorrect formatting on the pop-up window used to schedule a deploy or validate operation on a consolidated configuration. (PR/856420)
- When you use the search option on the View Device Configuration and Edit Device Configuration pages in Junos Space Network Management Platform, an internal error is displayed. (PR/856078)
- Template modification raises "java.lang.NullPointerException". (PR/856045)
- Pushing a Junos Space Network Management Platform template to an MX-480 devices shows that the push is successful but the template details are not pushed to the device. (PR/854632)
- If the template that is created through a template definition uses a plain-text password for root authentication and is assigned to a device using the Consolidated Configuration page, the validation fails on the Manage Consolidated Configuration page. (PR/850317)
- Creating a statement on a security device fails in Junos Space Network Management Platform if two security zones and security contexts are created on the security device, each being different cases. (PR/853245)
- When you modify the network settings on one of the nodes in a two-node Junos Space setup and try to reboot the modified node from the Junos Space user interface, both nodes are rebooted. (PR/852413)
- After upgrading Junos Space Network Management Platform from version 12.2 to 12.3, none of the devices are SNMP polled in the Network Monitoring workspace. (PR/849988)
- The CLI Configlet page displays paging problems. (PR/846732)
- You cannot delete SRX Series and SRX LSYS devices from Junos Space Network Management Platform. (PR/844615)
- In a two-node Junos Space setup, the status for both the Junos Space servers is shown as UP(VIP), UP, and UP(Master) for both nodes and go into the split-brain mode, when iptables is enabled on both Junos Space servers. (PR/839813)
- The **Group by this field** option causes the list of interfaces on the Physical Interfaces column to disappear. (PR/878462)

Workaround: Reset the Physical Interfaces view and disable and enable the user.

- When you try to select devices on a single page to export configuration files, the Internet Explorer browser prompts you to stop the Junos Space script because it slows down the browser. (PR/879791)
- Update on an SRX Series cluster failure with an error message that states "statement creation failed". (PR/860118)
- Devices go out of sync with Junos Space after upgrading the setup to Junos Space Network Application Platform Release 12.2. (PR/836025)
- SRX Series devices go out of sync with Junos Space after upgrading the setup to Junos Space Network Application Platform Release 12.3R1.3.
- Junos Space may establish multiple stale SSH sessions. The sessions may not be disconnected. (PR/845930)

- If eth3 is configured on Junos Space, wwJunos devices cannot be discovered and managed. (PR/836500)
- When switching from the Space as system of record (SSOR) mode to the Network as system of record (NSOR) mode, devices do not resync automatically. (PR/842578)
- Network Monitoring component can run out of memory on Junos Space. This can impact the Network Monitoring and Manage Devices workspaces. (PR/843903)
- When the Junos Space server on a single node is rebooted, it may not reboot until about 10 minutes after starting the jmp-opennms service. (PR/839277)
- When a user who does not have access to the Network Monitoring workspace logs in to Junos Space and right-clicks a device and selects Device Monitoring in the Device Management workspace, the user is logged out. (PR/849748)
- The Device Discovery job is marked as SUCCESS even when the device is not reachable. (PR/842960)
- When the password of a wwdevice that is managed by Junos Space is changed, there may be an increase in Stale file descriptors. (PR/860624)
- Device discovery using wwadaptor fails with errors. (PR/839245)
- When a database is backed up, the Auditlog tables are not backed up. (PR/855400)
- A Junos Space device does not recognize an MX Series base software release in order to push it to the managed device. (PR/848642)
- When working with the user or root passwords, if the consolidated configurations are viewed, the passwords are shown in plain text. (PR/854051)
- Pagination does not work properly on the Image Management landing page if there are a large number of devices. (PR/855403)
- When performing the search operation in Junos Space using Internet Explorer 8, the filter is not visible properly. (PR/859299)
- When using Junos Space on Internet Explorer 8, session termination does not show the message "Your session has been terminated by the Administrator". (PR/858316)
- When discovering devices using SNMP probe fails, the device discovery job shows SUCCESS. (PR/856813)

Junos OS Compatibility

For compatibility information, see the FAQ *"What Junos Releases Are Supported in Different Junos Space Applications?"*.

Related Documentation

- *Junos Space Frequently Asked Questions*

Junos Space Documentation and Release Notes

For a list of related Junos Space documentation, see <http://www.juniper.net/techpubs/>.

If the information in the latest release notes differs from the information in the documentation, follow the *Junos Space Release Notes*.

To obtain the most current version of all Juniper Networks® technical documentation, see the product documentation page on the Juniper Networks website at <http://www.juniper.net/techpubs/>.

Juniper Networks supports a technical book program to publish books by Juniper Networks engineers and subject matter experts with book publishers around the world. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration using the Junos operating system (Junos OS) and Juniper Networks devices. In addition, the Juniper Networks Technical Library, published in conjunction with O'Reilly Media, explores improving network security, reliability, and availability using Junos OS configuration techniques. All the books are for sale at technical bookstores and book outlets around the world. The current list can be viewed at <http://www.juniper.net/books>.

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 JNASC 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 <http://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: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <http://kb.juniper.net/InfoCenter/>

- Join and participate in the Juniper Networks Community Forum:
<http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

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

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 <http://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 <http://www.juniper.net/support/requesting-support.html>.

Revision History

25 October 2013—Revision 1

15 July 2014—Revision 2, Added note about supported devices

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