

# Juniper Networks

## Junos Space 1.3 Release Notes

June 2010  
Revision 1

These release notes accompany the Juniper Networks Junos Space Release 1.3. They describe the new features in this Junos Space release and list the known problems. Junos Space is a state-of-the-art network and application management tool that presents an innovative user interface through which you can provision Layer 2 Ethernet services, deploy and maintain an enterprise network, perform element management, manage the fabric itself, and streamline fault management for Junos devices.

### Contents

Network Application Platform . . . . .	2
New Features . . . . .	2
Known Issues . . . . .	3
Network Activate . . . . .	4
New Features . . . . .	4
Known Issues . . . . .	5
Ethernet Design . . . . .	5
New Features . . . . .	5
Security Design . . . . .	5
New Features . . . . .	5
Known Issues . . . . .	6
Service Now . . . . .	7
New Features . . . . .	7
Resolved Issues . . . . .	8
Known Issues . . . . .	9
Web Browser Issues . . . . .	9
Junos Compatibility . . . . .	9
Troubleshooting Junos Space . . . . .	10
Junos Space Technical Publications . . . . .	10

## Network Application Platform

The Junos Space Network Application Platform provides the essential tools the network administrator needs for automating network operations, including device discovery and management, topology visualization, deploying device images, job operation management, user account management, audit logging, and network administration. Network administration tasks include managing the Junos Space fabric (comprising one or more IP-connected nodes), database, licenses, applications, upgrades, tags, and troubleshooting.

### New Features

The Junos Space Network Application Platform includes the following new features:

- **Application Name Changes**—Junos Space application icons appear in the Application Chooser. The Junos Space 1.3 release includes the following application name changes:

Original Application Name	New Application Name
Ethernet Activator	Network Activate
Campus Builder	Ethernet Design
Security Designer	Security Design

- **Device Images Workspace**—Download a device image from the Juniper Networks Software download site to your local file system, upload it into Junos Space, and deploy it on one or more devices at once. A device image is a Juniper Networks software installation package used to upgrade or downgrade Junos from one release to another. After uploading a device image, you can stage it on a device, verify the checksum, and deploy it later. You can schedule device image staging, deployment, and validation. You can add and modify the description of a device image, and modify the series that it supports. The Device Images dashboard graphically displays platforms, device types, and the number of images installed.
- **Topology Visualization Workspace**—Discover information about network elements and their interconnections based on specified hostnames, IP addresses, IP ranges or subnets. Use View Topology to view information about discovered topologies that you can display as either a topology map or in tabular form. Junos Space provides you with a semantic zoom facility that allows you to zoom into the displayed topology map. After a certain level, you can zoom in further to expand each network device group and display individual devices and their interconnections.
- **User-Defined Private Tags**—In each manage object inventory page (for example, Manage Users or Manage Devices), you can tag objects to easily categorize and organize them for how you manage your network. Subsequently use these tags to filter multiple objects to view status or perform a bulk action on them from the Actions drawer without having to select each individually. Use the Platform > Administration > Manage Tags to view all, rename, or delete your tags. You can only see the user-defined private tags that you create to organize objects in your network. Other users can not see your tags.

- **Workspace Inventory Page New Look and Feel**—Inventory pages have a new look for managed objects. Select one or more objects in both thumbnail and tabular views by clicking the object or by clicking a check mark on the object. View managed objects with three levels of detail zoom. Zoom the slider to the far left to view minimum details and more object on the page; zoom to the far right to view full summary object details. The middle detail level is default. The inventory page displays how objects are filtered.
- **Hot-Pluggable Junos Space Applications**—The **Platform > Administration Manage Software** workspace has been removed. You can use the **Platform > Administration > Manage Applications** workspace to perform the following tasks:
  - **Add Application**—Install a new Junos Space application.
  - **Modify Platform Settings**—Modify the Platform settings.
  - **Upgrade Application**—Upgrade an existing Junos Space application while Junos Space is still running.
  - **Upgrade Platform**—Upgrade the Network Application Platform which causes an interruption of service.
  - **Uninstall Application**—Uninstall a Junos Space application while the system is still running.
- **New Audit Log Statistics Page**—View all task types that have been performed and logged in all Junos Space applications by a selected time frame in days, weeks, or months. You can display Audit Log statistics by task type in terms of user name or IP address, user, workspace, and application. View more information about audit log types, by double-clicking a slice of the pie chart. The View Audit Logs inventory page displays audit log information filtered by the statistics you selected in tabular form by user name, user IP, task, timestamp, results, description, job ID, and level 2 description. Double-click an audit log in the table to view more detailed information, including user name, user ID, application, workspace, task, timestamp, result, job ID, description, affected object detail.
- **Audit Log Convert UTC Timestamp to Local Time in Microsoft Excel**—Unzip an audit log \*.gz file. Open the extracted \*.csv file as a spreadsheet in Microsoft Excel. Then using a function, convert the Coordinated Universal Time (UTC) timestamp column entries to local time.
- **SRX Cluster Devices**—Discover and manage SRX cluster devices. In the Manage Devices inventory page, cluster devices are distinguished from standalone devices by use of a cluster icon. Junos Space also identifies the cluster peer for each managed cluster and specifies whether the device is the primary or secondary cluster device.
- **Changing Login Credentials for Managed Devices**—Change the login credentials for any device that Junos Space manages. Changing the credentials for a managed device updates the credentials in Junos Space but not on the device itself.

## Known Issues

The Junos Space 1.3 includes the following known issues:



NOTE: Junos Space does not support direct upgrades from Junos Space Release 1.0 to Release 1.3. For complete information about upgrading to the latest version of Junos Space, see *Upgrading Junos Space Software* in Junos Space user documentation.

- Delay in page redraw is observed when viewing 100 items per page at zoom level 3 because of caching. [PR 533730]
- During upgrade some permissions errors display in error.log. However these permissions errors do not affect the upgrade and can be ignored. [PR 526934]
- When you attempt to deploy a device image on an EX4200 device, while a device image deployment on that same device is in progress, the second instance of image deployment fails. The error message does not state why image deployment failed. [PR 530366]
- The Platform icon is the last icon to appear in Application Chooser when you install Junos Space 1.3. When you upgrade Junos Space from releases 1.1 and 1.2 to 1.3, the Platform icon does not appear last. However, the icon works properly to launch the Platform user interface.

## Network Activate

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### New Features

The Network Activate application supports the following new features:

- **Advanced Settings for VPLS services**—The following attributes provide advanced connectivity among UNI endpoints across the network:
  - **Tunnel services**—Enable tunnel services to specify that traffic for particular VPLS routing instances be forwarded to specific virtual tunnel (VT) interfaces, allowing you to load-balance VPLS traffic among all the available VT interfaces on the router.
  - **Local switching**—In local switching mode, you can terminate multiple Layer 2 circuit pseudowires at a single VPLS mesh group.
- **Fast-Reroute-Priority**—When a path is rerouted after a link failure by using the fast reroute feature, the router repairs the affected next hops by switching them from the active label switched path (LSP) to the standby LSP. You can use the fast reroute-priority to specify the order in which the router repairs next hops and restores traffic convergence for VPLS routing instances. You can configure high, medium, or low fast reroute priority to prioritize specific VPLS routing instances for faster convergence and traffic restoration.
- **Label Block Size**—VPLS MPLS packets have a two-label stack. The outer label is used for normal MPLS forwarding in the service provider's network. If BGP is used to establish VPLS, the inner label is allocated by a PE router as part of a label block.

One inner label is needed for each remote VPLS site. Four label block sizes are supported.

- **Connectivity Type**—You can configure the VPLS routing instance to take down or maintain its VPLS connections depending on the status of the interfaces configured for the VPLS routing instance.

## Known Issues

The Network Activate software includes no known issues in the Junos Space 1.3 release.

## Ethernet Design

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### New Features

The Junos Space Ethernet Design application provides you with a workflow enabling you to simultaneously configure and manage multiple Junos devices within a network. The Junos Space Ethernet Design application presents the following new features:

**Applying port profiles to Aggregate (AE) Ports**—Enables you to apply port profiles to aggregate (AE) ports. An aggregate (AE) port or bundle is a set of physical interfaces that are grouped logically to function as a single interface in order to increase throughput. Using Junos Space Ethernet Design, you can apply port profiles to an AE bundle thereby configuring all the ports in an AE bundle with a specific network connection role in a single workflow.

**Support for EX8200 Ethernet Switches**—Supports chassis based modular switches, specifically Juniper Networks EX8208 and EX8216 Ethernet switches, for port profile provisioning.

**Locating End Hosts**—Enables you to view endpoint device information such as IP and MAC addresses of the end hosts, port names, and connected switch information.

**Viewing Spare Network Ports**—Enables you to view information about the switch ports that are available for configuration in the network. The View Free Ports page displays port information such as, the name and IP address of devices with the free ports, the port ID, port name, MAC address, port speed, and descriptions of the ports.

## Security Design

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### New Features

The Junos Space Security Design application is a powerful but easy-to-use solution that allows you to design a security topology that represents your physical network, create IPSec VPNs on different sections of your network to provide appropriate security on the network, and create security policies that define a set of rules to permit, deny or reject communication between security domains. The Junos Space Security Design application presents the following new features:

- **VPN Proposal**—The VPN proposal creation wizards allow you to create re-usable VPN proposals. Each VPN proposal holds a set of IKE proposals and IPSec proposals used to create an IPSec VPN. VPN proposals are stored in the Junos Space database and can be re-used to create multiple IPSec VPNs. This circumvents the need to create a VPN proposal all over again for every VPN you create.
- **VPN Profile**—The VPN profile creation wizards allow you to create re-usable VPN profiles. Each VPN profile comprises of a VPN proposal, the IKE/IPSec settings and the connectivity parameters needed to design a VPN. VPN profiles are stored in the Junos Space database and can be re-used to create multiple IPSec VPNs. This circumvents the need to create a VPN profile all over again for every VPN you create.
- **Security Topology Designer**—The Security Topology Designer whiteboard allows you to design your logical topology by inter-relating your networks, devices governing these networks, and the addresses used by these networks. This provides a graphical view of your entire network. You can use this security topology to design site-to-site, and hub-and-spoke IPSec VPNs.
- **IPSec VPN Design**—The IPSec VPN Designer allows you to create site-to-site and hub-and-spoke VPNs on your security topology. You can also view the placement of the VPN in the security topology to get a better view of the security the VPN provides. The VPNs can then be provisioned on the devices of your choice.
- **Security Policy Objects**—You can create security policy-related objects like security domains, addresses, applications, and policy profiles. These objects are stored in the Junos Space database and can be re-used with multiple security policies. This makes the security policy design more structured and avoids the need to create security policy-related objects during the whiteboard-based security policy design.
- **Security Policy Designer**—The Security Policy Designer whiteboard allows you to create security policies between multiple security domains. You can associate the applications hosted by a security domain and the addresses associated with the security domain on-the-fly. You can distinguish the rules that are inherited from the security domain from the ones added during policy creation.

## Known Issues

- If you delete VPN or security policy configurations from Junos Space and the security devices on which these VPN or security policy configurations are provisioned, and try to provision a new VPN or security policy configuration to these security devices, the new VPN or security policy configurations will not be provisioned to these devices. Workaround: To create a new VPN or security policy configuration on a security device after deleting an old VPN or security policy configuration, delete the configuration from the device and from Junos Space. Delete and add the security device to Junos Space. [PR 529769]
- While creating a VPN profile in the Main mode, if an IKE Identity type other than the IP address is used, any VPN which uses this VPN profile will not be successfully provisioned. Workaround: Always select IP Address as the IKE Identity type while creating a VPN profile. [PR 530857]

- If you create a VPN profile in the Aggressive mode with the IKE Identity type as User@hostname, and modify the VPN profile using the modify VPN workflow, the changes won't take effect if you click Finish in the first screen of the Modify VPN wizard. Workaround: Click the Finish button in the second or third screen of the Modify VPN wizard. [PR 530859]
  - While creating a security policy between two domains using Policy Designer, if you edit a rule using the Advanced Settings tab, enable the Redirect or Reverse Redirect option, and use this Redirection option explicitly for this rule, the Redirection-related changes will not be pushed to the device when the security policy is provisioned. Workaround: For any changes with respect to the Redirection options, create a policy profile with the intended Redirection options and use this policy profile with the security policy for which you want specific Redirection options configured, instead of modifying the rule to incorporate the Redirection options. However, all rules in the security policy will use the Redirection options used in the policy profile. [PR 530934]
  - While creating a VPN, if you disassociate an address object from a device and associate it to another device, the endpoint marking for the VPN may not be correct. For example, the VPN may still mark the device from which the address object was disassociated as the endpoint. [PR 531839]
  - Deleting a device used in a VPN in Junos Space, and modifying that VPN by adding another device will cause a Null Pointer exception when the VPN is provisioned. Workaround: In addition to deleting the device from Junos Space, delete the VPN configuration which uses this device in Junos Space. Create a new VPN configuration and provision it.
- We recommend that you unmark a device as endpoint using the Modify VPN workflow before deleting the device in Junos Space. You should then add another device as endpoint, save the VPN, and provision it. [PR 531841]

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## Service Now

### New Features

Service Now includes the following new features:

- **Service Now Partner Proxy mode**—If you are a qualified Juniper partner, you can use Service Now features for partners. These features allow you to manage multiple end customer Service Now applications from a single point. The additional features include, adding end customers, submitting end customers' incidents to JSS on behalf of the end customer, and updating cases created by an end customer. A secure https connection is established between the Service Now applications of the partner and the end customer, and between the partner and JSS. After you activate the partner proxy mode, the following new features will be enabled:

- **Specifying a global organization**—As a Service Now partner, using Service Now in Partner Proxy mode, you can specify an organization as the global organization that is associated to all end customer organizations. This global organization helps validate the end customer organizations with JSS. Cases from end customers are opened with Juniper under the site id used for the global organization.
- **Adding connected members**—As a Service Now partner, you can add multiple end customers and connect them to your Service Now application. End customer Service Now appliances are called Connected Members. Connecting multiple end customers helps you manage several Service Now applications from a single point.
- **Updating end customer cases**—As a Service Now partner, you can update end customer case by either resolving the case without the support of JSS or by submitting the case to JSS on behalf of the end customer. You can also modify case details like the case status, synopsis, and the problem description of the case.
- **Assigning messages to end customers**—As a Service Now partner, you can assign multiple messages sent by JSS to an end customer. You can also view the list of messages assigned to a particular end customer. The Assign Message also displays the list of connected members to whom the message is assigned along with the status.
- **Service Now end customer mode**—For customers getting support services (including Service Now) from a Juniper partner, you can use Service Now in end customer mode. In the end customer mode, once your connection with the partner is active, your Service Now application is managed by a partner. The connection between the applications of a partner and an end customer is via secure https. You connect to a partners' Service Now application by specifying the partners' IP address or domain and a name and password supplied by the partner. As an end customer you can add a single organization and device group. While in the standard mode JMBs are submitted to JSS, in the end customer JMBs are submitted to the partner. The partner sends case updates to the end customer by either resolving the case without any aid from JSS or by submitting the case to JSS on behalf of the end customer.
- **Modifying incident synopsis**—Service Now allows you to add your text to the synopsis of an incident before submitting the incident to JSS.
- **Support for new version of XSD**—Service Now supports the new version of XSD for JMB processing.

## Resolved Issues

- Service Now users who submit cases may see the message **Success - LIC-4004-WARN - Device doesn't have appropriate Service Contract level, but request to open case is accepted. Contact Juniper or Juniper Partner to add device to the appropriate Service Contract.** even though the device is already included in an appropriate service contract. In addition, JSS will reject iJMBs sent from this device. [PR/494769]
- Junos Space 1.2 introduces a firewall that blocks Service Now e-mail or SNMP notifications and communication through a proxy server. The firewall is enabled on Junos Space appliances by default. As a workaround, please make sure the firewall is disabled on all the nodes of the Space Fabric when using Service Now e-mail or SNMP



notifications, or when using Service Now through a proxy. For the procedure to disable the firewall, please refer the **Changing Network and System Settings** section in the JA 1500 Junos Space Appliance and Junos Space Virtual Appliance Installation Guides. [PR/510899]

## Known Issues

- The connected members displayed on the **Manage Organizations** page will not receive dynamic notifications when Service Now operates in the partner proxy mode. [PR/526175]

## Web Browser Issues

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The Junos Space user interface runs on only Mozilla Firefox versions 3.0 through 3.6 and Internet Explorer version 7 and later.

Security Design supports only Mozilla Firefox versions 3.5 and 3.6.

## Junos Compatibility

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- Specific Junos releases and versions that fully support Junos Space 1.3 Platform are limited to the following:
  - Junos Release 9.3R4
  - Junos Release 9.4R3, R4
  - Junos Release 9.5R2, R3
  - Junos Release 9.6R1, R2
  - Junos Release 10.0R1, R2
  - Junos Release 10.1R1
  - Junos Release 10.2R1
- Specific Junos releases and versions that fully support Junos Space 1.3 Network Activate are limited to the following:
  - Junos Release 9.3R4
  - Junos Release 9.4R3, R4
  - Junos Release 9.5R2, R3
  - Junos Release 9.6R1, R2
  - Junos Release 10.0R1, R2
  - Junos Release 10.1R1
  - Junos Release 10.2R1

- Specific Junos releases and versions that fully support Junos Space 1.3 Service Now are limited to the following:
  - Junos Release 9.0 and later
- Specific Junos releases and versions that fully support Junos Space 1.3 Ethernet Design are limited to the following:
  - Junos Release 9.6R1, R2, R3, R4
  - Junos Release 10.0R1, R2, R3
  - Junos Release 10.1R1, R2
  - Junos Release 10.2R1
- Specific Junos releases and versions that fully support Junos Space 1.3 Security Design are limited to the following:
  - Junos Release 10.2R1

## Troubleshooting Junos Space

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For information about troubleshooting Junos Space, see:

[http://www.juniper.net/techpubs/en\\_US/junos-space1.3/topics/concept/junos-space-troubleshoot-overview.html](http://www.juniper.net/techpubs/en_US/junos-space1.3/topics/concept/junos-space-troubleshoot-overview.html)

## Junos Space Technical Publications

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Junos Space technical documentation is available as online help and on the Web in HTML format and in pdf format. The Web-based documentation is maintained after the final build of the online help, and should be used where discrepancies exist between the help and the Web-based documentation.