

Release Notes Release Notes for Juniper® Paragon Insights Release 4.1.0

Release 4.1.0
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These release notes accompany Juniper® Paragon Insights Release 4.1.0.

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Introduction

Juniper Paragon Insights is a highly automated and programmable device-level diagnostics and network analytics tool. It provides consistent and coherent operational intelligence across network deployments.

Paragon Insights integrates with multiple data collection methods (such as Junos telemetry interface, NETCONF, SNMP, system logging (syslog), and NetFlow). The integration helps it to aggregate and correlate large volumes of time-sensitive telemetry data, providing a multidimensional and predictive view of the network. Additionally, Paragon Insights translates troubleshooting, maintenance, and real-time analytics into an intuitive user experience. It gives network operators actionable insights into the health of an individual device and the overall network.

Installation

For information about installation procedure and requirements (software and hardware), see the [Paragon Insights Installation Guide](#).

New and Changed Features

We're pleased to announce Paragon Insights Release 4.1.0. In this section, learn about new and changed features in Paragon Insights Release 4.1.0.

Support for Scheduling User-Defined Actions

Paragon Insights Release 4.1.0 supports scheduling user-defined actions (UDAs) and notifications on the Trigger Action page. You can schedule one Trigger Action scheduler in each instance of Paragon Insights. The scheduler runs the UDAs and notifications only for the time interval set in the UDA scheduler.

[See [Modify the UDA and UDF Engines](#).]

Support for iAgent Port Ingest Configuration for Outbound SSH Connections

Paragon Insights Release 4.1.0 supports the iAgent (NETCONF) port at the ingest level for outbound SSH traffic for all device groups. If you configure ports for outbound SSH in device group configurations and ingest, then device group settings take precedence.

[See [Paragon Insights Pull-Model Ingest Methods](#).]

Support for the Server Monitoring Ingest

Paragon Insights Release 4.1.0 supports Server Monitoring sensor to collect server and host data using the third-party plug-in Node Exporter. The Node Exporter plug-in is pre-installed in all server clusters of Paragon Insights. The ingest collects data from servers and hosts to track metrics of CPU, memory, network, traffic, disk, and filesystem and writes the output to a time series database.

[See [Paragon Insights Pull-Model Ingest Methods](#).]

Support for PIN-Standard License

From Paragon Insights Release 4.1.0 onward, the Paragon Insights Standard license, PIN-Standard, replaces the HealthBot's free-tier license that was available up until HealthBot Release 3.2.0 and Paragon Insights releases 4.0.0. You need a valid license (trial or commercial) to use Paragon Insights and its features. You can add the license before or after upgrading to release 4.1.0 from earlier releases.

With this PIN-Standard license, you can use Paragon Insights to collect telemetry data, and use default or custom playbooks without any advanced features. You can also publish telemetry data externally by using Kafka and Advanced Message Queuing Protocol (AMQP) Publish.

[See [Paragon Insights Licensing Overview](#).]

Use the Grafana UI to Create Graphs and Visuals

Starting in Paragon Insights Release 4.1.0, you can use the Grafana UI to monitor the status and health of your network devices. The Grafana UI renders data from the Paragon Insights time series database (TSDB). You can view this data in the form of charts, graphs, histograms, and heat maps. The Grafana UI is an open-source visualization tool, and you can access it by selecting **Monitor > Graphs > Grafana** from the Paragon Insights UI.

[See [Grafana Overview](#).]

View and Manage Audit Logs

An audit log is a record of activities that have affected a specific operation or procedure. Audit logs contain information about tasks initiated by using the Paragon Insights GUI or APIs. With Paragon Insights Release 4.1.0, you can view and manage audit logs from the **Monitor>Audit Logs** page of the Paragon Insights UI.

[See [Manage Audit Logs](#).]

Export Audit Logs in PDF and CSV Formats

Starting in Paragon Insights Release 4.1.0, you can export audit logs in a portable document format (PDF) file and a comma-separated values (CSV) file.

[See [Manage Audit Logs](#).]

Database Name Format

The database name format in TSDB data is changed. In releases earlier than Release 4.1.0, database names were in the “*device-group:device-id*” format for device groups and “*__network:network-group-name*” format for network groups. In Release 4.1.0, all database names are prefixed with “hb-default:”. The new name formats are “hb-default:*device-group:device-id*” for device groups and “hb-default:*__network:network-group-name*” for network groups. If you access TSDB data directly in the UDA, user-defined function, or custom scripts, ensure that you edit the database name formats.

Configure and Monitor Action Workflows (Beta)

Paragon Insights Release 4.1.0 supports action-workflow monitoring (Beta). An action workflow is an action engine that you can use to configure a set of tasks. In earlier releases, you can configure user-defined actions (tasks), but you cannot monitor or restart a failed action. With this release, you can configure new action workflows, monitor existing action workflows, and manage multiple action-workflow instances in the Paragon Insights UI.

[See [Understanding Action Workflows](#).]

Resolved Issues

The following issues are resolved in Paragon Insights Release 4.1.0:

Outbound SSH Does Not Work as Expected

In Paragon Insights Release 4.0.0, Outbound SSH might not work as expected, and the firewall might continue to block the connection.

Invalid URL in Generated Reports

In a multinode setup, the generated reports that you receive on e-mail ID do not contain a valid URL for you to access the **Reports** page in the GUI. The valid URL for accessing the reports is <https://Virtual IP Address:8080/health-report-management/reports>.

Restore IAM Configuration

While upgrading from release 3.x to 4.x, before you restore the IAM configuration (users, user roles, and user groups), you must manually clean up the data related to the existing IAM configuration. Otherwise, the restore operation fails because of a conflict of data between the IAM configuration in the backup file and the existing IAM configuration. You will face no issues while restoring from release 4.0.0 to 4.1.0.

RBAC Limitations

The role-based access control (RBAC) feature provided either read-only or read-write access to all pages for any user except the hbadm user in earlier releases. This release removes this limitation by providing page-level access control with the User Management/Role page.

Known Issues

This section lists the known issues in Paragon Insights Release 4.1.0.

Upgrade from Release 2.x to Release 4.x

If you are using Paragon Insights Release 2.x and want to upgrade to Release 3.x or Release 4.x with a multinode (Kubernetes) installation, you must do a fresh installation. To migrate your data from Paragon Insights Release 2.x (Docker Compose) to Release 3.x (Kubernetes) or Release 4.x (Kubernetes) follow the procedure here: [Migration from Paragon Insights Release 2.x to 3.x](#). This issue does not arise if you are upgrading from Release 3.x to Release 4.x.

Upgrade from Release 3.2 (Docker Compose) to Release 4.x

You cannot use the existing setup if you upgrade from Release 3.2 (Docker Compose) to Release 4.x. We recommend that you do not upgrade from Release 3.2 (Docker Compose) to Release 4.x.

User Credentials from Older Releases

Any user credentials present before upgrade from 3.x must be re-created after upgrade from release 3.x to Release 4.x. This issue does not arise if you are upgrading from Release 4.0.0 to or Release 4.1.0.

General Workflow Tasks

In the **Configuration > Workflows > Add New Workflow** page, the list of tasks in the **Entry Task** and **Exit Task** drop-down lists in the **General** tab, are not getting updated to reflect the current tasks that are created or deleted in the **Tasks** tab.

Paragon Insights CLI

We don't provide documentation support for the Paragon Insights CLI. Contact a Juniper Networks representative for support.

Deploy Playbooks

If you deploy playbook instances back-to-back, the deployment may fail because of a database error. This is a rare scenario. As this is a timing issue, you can redeploy or roll back the configuration.

GUI for Sensor Precedence and Multiple Active Sensors

Currently, there is no GUI for the sensor precedence and multiple active sensors features. You cannot use the GUI rule editor to write or edit the rules using these features. You can write rules in the **.rule** file and upload the file to Paragon Insights.

Dashboard Configuration Settings

After you upgrade from Paragon Insights Release 3.x to release 4.1.0, the dashboard configurations that you have saved in the earlier versions of Paragon Insights are not available. This problem doesn't exist for users upgrading from 4.0.0.

TSDB Ports

The TSDB port is exposed by default in Paragon Insights. If you need to shut down the TSDB port for security reasons, you can use the **healthbot tsdb stop-services** command. External API queries to TSDB do not need the TSDB port to be exposed. However, if you use external tools such as Grafana, or you need to run a query to the TSDB directly (and not through APIs), the TSDB port must be exposed.

Requesting Technical Support

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

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

Self-Help Online Tools and Resources

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

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

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

Creating a Service Request with JTAC

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

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

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

Revision History

October, 2021—Paragon Insights Release 4.1.0

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