

Release Notes

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Juniper® Paragon Insights 4.3.0

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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](#).

For more information on rules and telemetry sensors supported in a Junos OS and Junos OS Evolved software release for a specific hardware platform, see [Telemetry Sensor Explorer](#).

New and Changed Features

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We're pleased to announce Paragon Insights Release 4.3.0. In this section, learn about new and changed features in Paragon Insights Release 4.3.0.

Configure pre-action and post-action tasks in rules

Starting with Paragon Insights Release 4.3.0, you can configure pre-action and post-action tasks to execute action engine workflows in rules. Pre-action and post-action tasks are configurations applied to devices in device groups through playbooks. Both pre-action and post-action tasks automate the execution of action engine workflows. Use pre-action tasks to make Paragon Insights execute action engine workflows at the start of playbook instantiation. With post-action tasks, you can use the action engine workflows to remove the additional configurations in devices that you added through the pre-action tasks.

[See [Paragon Insights Rules and Playbooks](#).]

Track IFA devices on the Ingest Settings page

Starting with Paragon Insights Release 4.3.0, you can assign the device name and device ID of the Inband Flow Analyzer (IFA) devices on the **Settings > Ingest > IFA Devices** page. Paragon Insights maps the device name to the respective device ID and displays the device name when you monitor the end-to-end path of IFA devices in a flow.

[See [Understand Inband Flow Analyzer 2.0](#).]

Enhancements to ease the use of the Resources page

Starting with Paragon Insights Release 4.3.0, you can perform the following additional tasks on the Resources page:

- Upload, download, and clone resources.
- Rearrange the sequence of the configured dependency terms. Paragon Insights executes terms in the order in which you arrange them.

- View a visual representation of the dependency configuration before you save the configuration.
- Use the reset icon to restore the visual panel display to the default view.
- Change the position of resources on the visual panel and retain the changes when you navigate out of the Resources page.
- Save filters as favorites.

[See [About the Resources Page](#).]

Display a timeline view of device and network KPI data

Starting with Paragon Insights Release 4.3.0, you can view a timeline of device and network KPI data (time inspector view) for **DEVICE** and **NETWORK** entity types. In earlier releases, Paragon Insights supports the time inspector view only for the **DEVICE GROUP** entity type.

[See [Monitor Device and Network Health](#).]

Upgrade license key to new format

Starting with Paragon Insights Release 4.3.0, you must upgrade the existing license key format to the new format. You can generate a new license key by using the Juniper Agile Licensing Portal.

[See [View, Add, or Delete Paragon Insights Licenses](#).]

View prepopulated graphs from Grafana UI

Starting with Paragon Insights Release 4.3.0, you can view prepopulated graphs for CPU usage, disk reads, disk writes, and available memory on the Grafana dashboard. You can view a prepopulated graph of one or more nodes in a cluster.

[See [Monitor Network Device Health Using Grafana](#).]

Resolved Issues

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The following issues are resolved in Paragon Insights Release 4.3.0.

Redis connection inactivity timeout

When Redis connection timeouts for inactivity were not set, TCP connections were not cleared, and Celery would hang and not pick new jobs.

Known Issues

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This section lists the known issues in Paragon Insights Release 4.3.0.

Offline Installation on CentOS

Paragon Insights Release 4.3.0 does not support offline installation on CentOS platforms.

Upgrade on RHEL

Upgrading to Paragon Insights Release 4.3.0 fails on RHEL 8.2 and 8.3 platforms.

Workaround: Delete the **healthbot_iagent.tar.gz** file from the **/var/local/healthbot/docker_images** directory and retry upgrade.

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 install Paragon Insights afresh. To migrate your data from Paragon Insights Release 2.x (Docker Compose) to Release 3.x (Kubernetes) or Release 4.x (Kubernetes), follow the [Migration from Paragon Insights Release 2.x to 3.x](#) procedure. 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

You must re-create any user credentials that were present before upgrade from Release 3.x after you upgrade from Release 3.x to Release 4.x. This issue does not arise if you are upgrading from Release 4.x.

Dashboard configuration settings

After you upgrade from Paragon Insights Release 3.x to Release 4.x, the dashboard configurations that you have saved in the earlier versions of Paragon Insights are not available. This problem doesn't exist if you are upgrading from Release 4.x.

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.

TSDB ports

The time series database (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 if you need to run a query to the TSDB directly (and not through APIs), the TSDB port must be exposed.

TSDB service does not spin up on a new node

In the absence of a time series database (TSDB) HA replication, if a Kubernetes worker node running a TSDB pod goes down, even though there is capacity in the pod, the TSDB service is not spun up on a new node. This is because a huge volume of data would need to be transferred to the new node.

Workaround: In the event of a failure of the server or storage hosting a TSDB instance, you can rebuild the server or damaged component.

Microservices connection to PostgreSQL fails

Microservices fail to connect to PostgreSQL as PostgreSQL does not accept any connections during the primary role switchover. This is a transient state.

Workaround: Ensure that the microservices connect to PostgreSQL after the primary role switchover is complete.

Issues with Add New Workflow and Edit Workflow pages

- Even though you click **Cancel**, the changes that you have made while editing a task will be saved.
- You cannot reuse the name of a step that you have already deleted.

- An error message will not be displayed even when you add a step with empty entries and click **Save and Deploy**.

Workaround: There is no known workaround.

Update to the License Management page of the GUI

SKU Name is removed from the **Added Licenses** section of the **License Management** page.

Revision History

October, 2022—Paragon Insights Release 4.3.0

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