

Day One+

Juniper Support Insights on Juniper Support Portal

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Step 1: Begin

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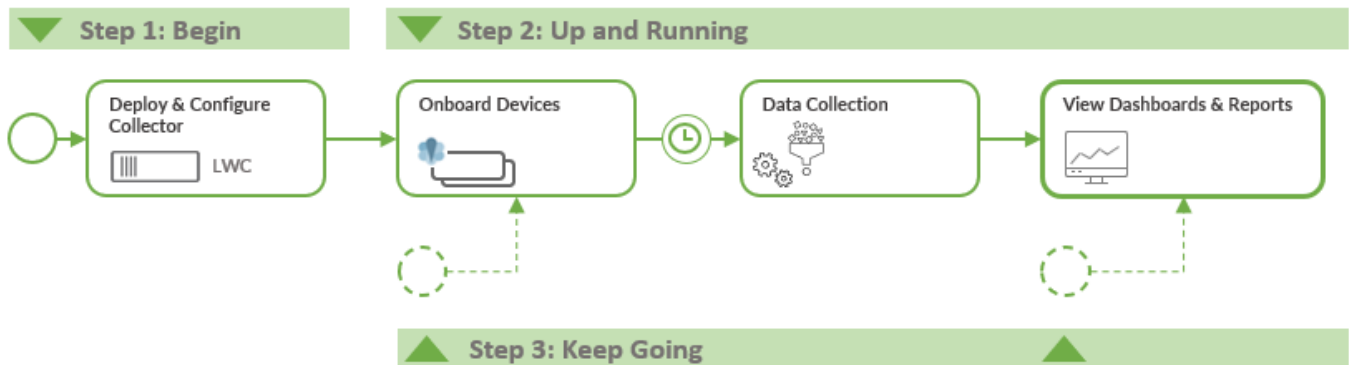
In this guide, we provide a simple, three-step path, to quickly get you up and running with the Juniper Support Insight (JSI) solution. We've simplified and shortened the installation and configuration steps.

Meet Juniper Support Insights

Juniper® Support Insights (JSI) is a cloud-based support solution that gives IT and network operations teams operational insights into their networks. JSI aims to transform the customer support experience by providing Juniper and its customers with insights that help improve the network performance and uptime. JSI collects data from Junos OS-based devices on customer networks, correlates it with Juniper-specific knowledge (such as service contract status, and End of Life and End of Support states), and then curates that into actionable insights.

At a high level, getting started with the JSI solution involves the following steps:

1. Installing and configuring a Lightweight Collector (LWC) device
2. Onboarding a set of Junos devices to JSI to initiate data collection
3. Viewing notifications about device onboarding and data collection
4. Viewing operational dashboards and reports



NOTE: This Day One+ guide assumes that you have ordered the JSI-LWC solution, which is available as part of Juniper Care support service, and that you have an active contract. If you have not ordered the solution, please contact your Juniper Account or Services teams. Accessing and using JSI is subject to the Juniper Master Procurement and License Agreement (MPLA). For general information on JSI, see [Juniper Support Insights Datasheet](#).

Install the Lightweight Collector

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The Lightweight Collector (LWC) is a data collection tool that gathers operational data from Juniper devices on customer networks. JSI uses this data to provide IT and network operations teams with actionable operational insights into the onboarded Juniper devices on customer networks.

You can install the LWC on your desktop, in a two-post or four-post rack. The accessory kit that ships in the box has the brackets you need to install the LWC in a two-post rack. In this guide, we show you how to install the LWC in a two-post rack. If you need to install the LWC in a four-post rack, you'll need to order a four-post rack mount kit.

What's in the Box?

- The LWC device
- AC power cord for your geographic location
- AC power cord retainer clip
- Two rack mount brackets
- Eight mounting screws to attach the mounting brackets to the LWC
- Two SFP modules (2 x CTP-SFP-1GE-T)
- RJ-45 cable with a DB-9 to RJ-45 serial port adapter
- Four rubber feet (for desktop installation)

What Else Do I Need?

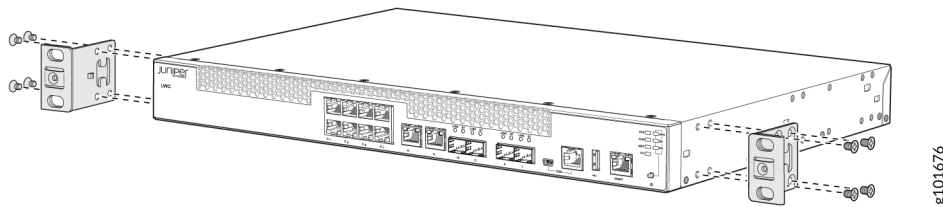
- Someone to help you mount the LWC in the rack.
- Four rack mount screws to secure the mounting brackets to the rack
- A number 2 Phillips (+) screwdriver

Mount a Lightweight Collector on Two Posts in a Rack

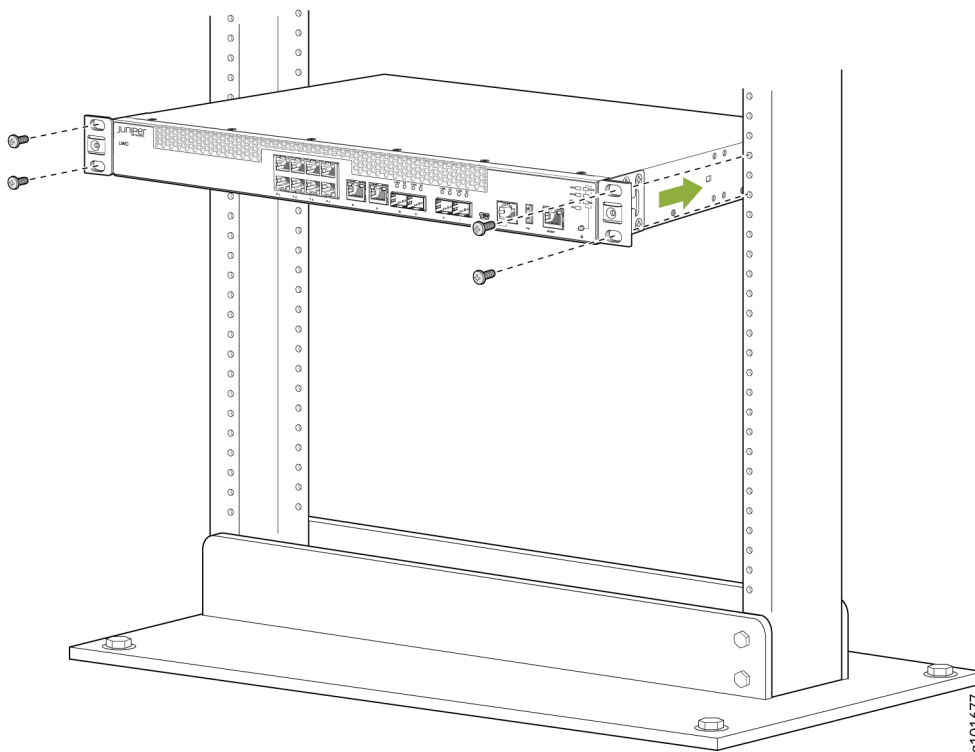
You can mount a Lightweight Collector (LWC) on two posts of a 19-in. rack (either a two-post or a four-post rack).

Here's how to mount the LWC on two posts in a rack:

1. Place the rack in its permanent location, allowing adequate clearance for airflow and maintenance, and secure it to the building structure.
2. Remove the device from the shipping carton.
3. Read [General Safety Guidelines and Warnings](#).
4. Attach the ESD grounding strap to your bare wrist and to a site ESD point.
5. Secure the mounting brackets to the sides of the LWC using eight screws and the screwdriver. You'll notice there are three locations on the side panel where you can attach the mounting brackets: front, center, and rear. Attach the mounting brackets to the location that best suits where you want the LWC to sit in the rack.



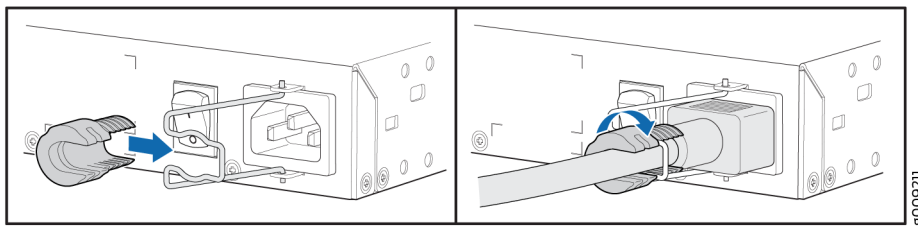
6. Lift the LWC and position it in the rack. Line up the bottom hole in each mounting bracket with a hole in each rack rail, making sure the LWC is level.



7. While you're holding the LWC in place, have a second person insert and tighten the rack mount screws to secure the mounting brackets to the rack rails. Make sure they tighten the screws in the two bottom holes first and then tighten the screws in the two top holes.
8. Check that the mounting brackets on each side of the rack are level.

Power On

1. Attach a grounding cable to earth ground and then attach it to the Lightweight Collector's (LWC's) grounding points.
2. Turn off the power switch on the LWC rear panel.
3. On the rear panel, insert the L-shaped ends of the power cord retainer clip into the holes in the bracket on the power socket. The power cord retainer clip extends out of the chassis by 3 inches.
4. Insert the power cord coupler firmly into the power socket.
5. Push the power cord into the slot in the adjustment nut of the power cord retainer clip. Turn the nut until it is tight against the base of the coupler and the slot in the nut is turned 90° from the top of the device.



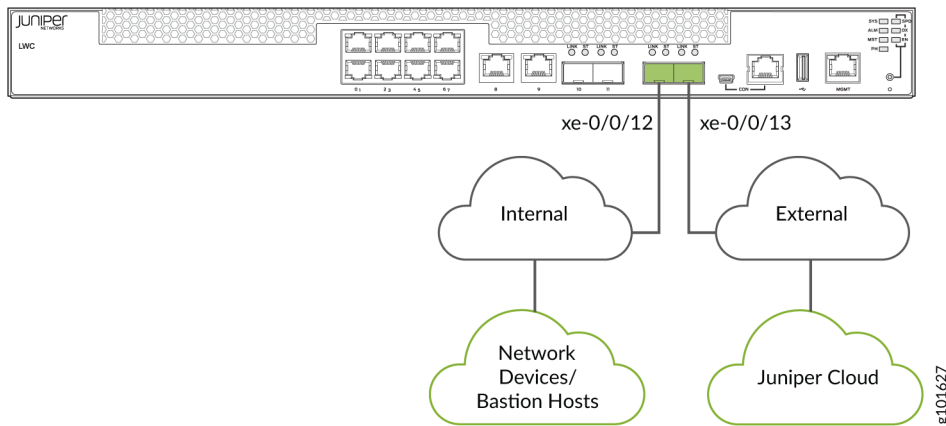
6. If the AC power source outlet has a power switch, turn it off.
7. Plug in the AC power cord to the AC power source outlet.
8. Turn on the power switch on the LWC's rear panel.
9. If the AC power source outlet has a power switch, turn it on.
10. Verify that the power LED on the LWC front panel is green.

Connect the Lightweight Collector to the Networks

The Lightweight Collector (LWC) uses an internal network port to access the Juniper devices on your network, and an external network port to access Juniper Cloud.

Here's how to connect the LWC to the internal and external network:

1. Connect the internal network to the 1/10-Gigabit SFP+ port **0** on the LWC. The interface name is xe-0/0/12.
2. Connect the external network to the 1/10-Gigabit SFP+ port **1** on the LWC. The interface name is xe-0/0/13.



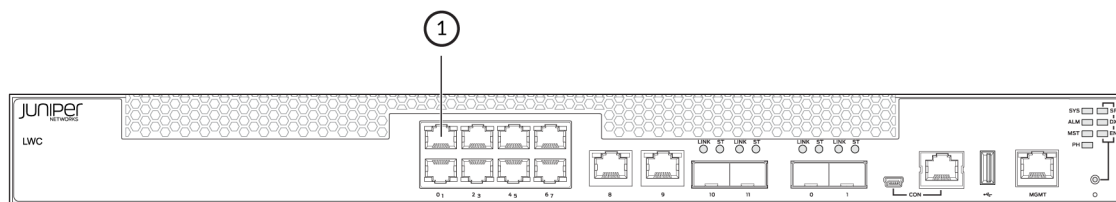
Configure the Lightweight Collector

Before you configure the Lightweight Collector (LWC), refer to the [Internal and External Network Requirements](#).

We've preconfigured the LWC to support IPv4 and Dynamic Host Configuration Protocol (DHCP) on both the internal and external network ports. When you power on the LWC after completing the required cabling, a zero touch experience (ZTE) process to provision the device is initiated. Successful completion of the ZTE results in the device establishing IP connectivity on both the ports. It also results in the external port on the device establishing connectivity to Juniper Cloud via discoverable reachability to the Internet. If the device fails to automatically establish IP connectivity and reachability to the Internet, you must configure the LWC device manually, by using the LWC captive portal.

Here's how to configure the LWC device manually, by using the LWC captive portal:

1. Disconnect your computer from the Internet.
2. Connect the computer to the port ge-0/0/0 on the LWC (labeled as **1** in the image below) using an Ethernet cable (RJ-45). The LWC assigns an IP address to the Ethernet interface of your computer through DHCP.



3. Open a browser on your computer and enter the following URL to the address bar: <https://cportal.lwc.jssdev.junipercloud.net/>.

The **JSI Data Collector** login page appears.

4. Enter the LWC serial number in the **Serial Number** field and then click **Submit** to log in.

On successful login, the **JSI Data Collector** page appears.

JSI Data Collector

Configure your Collector Connection Status ❌ Juniper Cloud Disconnected ❌ Not Provisioned

External Network

IP Type: Unsupported Value
 Source: Unsupported Value
 IP Address (VM):
 IP Address (LWC):
 Subnet Mask:
 Gateway:
 DNS Server: Not configured

Connection Status

❌ Gateway Disconnected
 ❌ DNS Disconnected

Active Proxy

IP Address:
 Port:

Internal Network

IP Type: Unsupported Value
 Source: Unsupported Value
 IP Address:
 Subnet Mask:
 Gateway:
 DNS Server: Not configured

Connection Status

❌ Gateway Disconnected
 ❌ DNS Disconnected

Instructions

Internal & External Networks

If any Connection Status (Internal or External) is red, click edit to modify the settings of that section until all Connection Status turns to green, at this point Juniper Cloud Connected Status will also be green and you may close this window and proceed with device onboarding.

Troubleshooting

Download the Light Request for Support Information (RSI) and Open a Tech Case in the Juniper Support Portal and attach the Light RSI file.

DOWNLOAD LIGHT RSI

File Format: .json*

In some cases, the Support Agent may request an Extensive RSI file. In such instances, you will need to re-enter the Captive Portal to download the Extensive RSI file here and upload to your Tech Case.

DOWNLOAD EXTENSIVE RSI

File Format: .json*

Reboot Collector

Press the button below to reboot the Collector. Confirm by pressing the button a second time within 30 seconds.

REBOOT

Shutdown Collector

Press the button below to shutdown the Collector. Confirm by pressing the button a second time within 30 seconds.

SHUTDOWN

NOTE: If the default DHCP configuration on the LWC is successful, the captive portal shows the LWC's connection status as connected, and populates the fields in all the configurations sections appropriately. Click **Refresh** to refresh the current connection states.

The **JSI Data Collector** page displays configuration sections for the following:

- **External Network**—Lets you configure external network port that connects the LWC to the Juniper's Cloud. Supports DHCP and static addressing. The External Network configuration is used to perform device provisioning.
 - **Internal Networks**—Lets you configure the internal network port that connects the LWC to the Juniper devices on the network. Supports DHCP and static addressing.
 - **Active Proxy**—Lets you configure the active proxy IP address as well as the port number if your network infrastructure controls access to the Internet through an active proxy. You need not configure this element if you are not using an active proxy.
5. Click the **Edit** button under the element that needs to be updated.

You need to modify the fields in:

- The **Internal Network** and **External Network** sections if their connection states indicate that they are disconnected.
- The **Active Proxy** section if you are using an active proxy.

NOTE:

- The IP addresses assigned to the internal and external network ports must be allocated from different subnets for both DHCP and static configurations.
- External Network requires two IP addresses while the internal network requires only one IP address.

6. After modifying the fields, click **Update** to apply the changes and return to the homepage (the JSI Data Collector page).

If you want to discard your changes, click **Cancel**.

If the LWC connects to the gateway and DNS successfully, the respective configuration element (internal or external network section) on the JSI Data Collector homepage shows the connection status as **Gateway Connected** and **DNS Connected** with green tick marks against them.

The JSI Data Collector homepage displays the **Connection Status** as:

- **Juniper Cloud Connected** if the external connectivity to the Juniper Cloud is established and the active proxy (if applicable) settings are correctly configured.
- **Cloud Provisioned** if the device is connected to Juniper Cloud and has completed the Zero Touch Experience (ZTE) process. After the Cloud connection status becomes **Juniper Cloud Connected**, it takes about 10 minutes for the provision status to become **Cloud Provisioned**.

The following image shows how the JSI Data Collector page appears when the LWC is connected successfully.

The screenshot displays the JSI Data Collector configuration interface. At the top, the title 'JSI Data Collector' is followed by a status bar showing 'Connection Status' with green checkmarks for 'Juniper Cloud Connected' and 'Cloud Provisioned'. The main configuration area is divided into two sections: 'External Network' and 'Internal Network'. Each section contains fields for IP Type, Source, IP Address (VM), IP Address (LWC), Subnet Mask, Gateway, and DNS Server, along with 'EDIT' and 'C' (Cancel) buttons. To the right of each network section is a 'Connection Status' box showing 'Gateway Connected' and 'DNS Connected' with green checkmarks. Below the network sections is an 'Active Proxy' section with fields for 'Hostname / IP Address' and 'Port', both currently set to 'Not Configured', and 'CANCEL' and 'UPDATE' buttons. On the right side of the page, there are three panels: 'Instructions' (with sub-sections for 'Internal & External Networks' and 'Troubleshooting'), 'Reboot Collector', and 'Shutdown Collector'. The 'Reboot Collector' panel has a 'REBOOT' button, and the 'Shutdown Collector' panel has a 'SHUTDOWN' button.

If the LWC does not connect to the cloud, click **Download Light RSI** to download the light RSI file, create a Tech Case in the Juniper Support Portal, and attach the downloaded RSI file to the case.

In some cases, the Juniper support engineer might ask you to attach the Extensive RSI file to the case. To download it, click the **Download Extensive RSI**.

The Juniper support engineer might ask you to reboot the LWC for troubleshooting. To reboot the LWC, click **REBOOT**.

If you want to shut down the LWC, click **SHUTDOWN**.

Step 2: Up and Running

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Now that you've deployed the Lightweight Collector (LWC), let's get you up and running with Juniper Support Insights (JSI) on Juniper Support Portal!

Access Juniper Support Insights

To access Juniper Support Insights (JSI), you must register on the [User Registration](#) portal. You also require a user role (Admin or Standard) assigned. To get a user role assigned, contact [Juniper Customer Care](#) or your Juniper Services team.

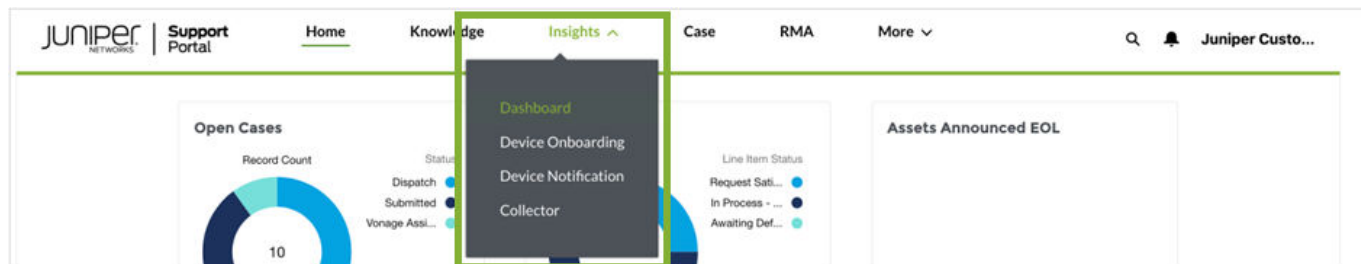
JSI supports the following user roles:

- **Standard**—The Standard users can view the device onboarding details, operational dashboards, and reports.
- **Admin**— The Admin users can onboard devices, perform JSI management functions, view the operational dashboards and reports.

Here's how to access JSI:

1. Log in to Juniper Support Portal (supportportal.juniper.net) by using your Juniper Support Portal credentials.
2. On the **Insights** menu, click:

- **Dashboards** to view of a set of operational dashboards and reports.
- **Device Onboarding** to perform device onboarding to initiate data collection.
- **Device Notifications** to view notifications about device onboarding, data collection, and errors.
- **Collector** to view the details of the LWC associated with the account.



View the Lightweight Collector Connection Status

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- [View the Connection Status on the Captive Portal | 10](#)

You can view the Lightweight Collector (LWC) connection status on the following portals:

- Juniper Support Portal
- The LWC captive portal. The captive portal provides a more detailed view, and has options that let you change the LWC configuration settings and perform troubleshooting.

View the Connection Status on Juniper Support Portal

Here's how to view the LWC connection status on Juniper Support Portal:

1. On Juniper Support Portal, click **Insights** > **Collector**.
2. Check the summary table to see the Connection Status of the LWC. The status should be shown as **Connected**.
If the status is shown as **Disconnected**, check if the LWC is installed and the two ports are cabled correctly. Ensure that the LWC fulfills the Internal and External Network Requirements as specified in the [LWC Platform Hardware Guide](#). In particular, ensure that the LWC meets the Outbound Connectivity Requirements.

View the Connection Status on the Captive Portal

See ["Configure the Lightweight Collector" on page 6](#) for more information.

Onboard Devices

You'll need to onboard devices to initiate a periodic (daily) data transfer from the devices to the Juniper Cloud. Here's how to onboard devices in a JSI setup that uses an LWC:

NOTE: You must be an admin user to onboard a device.

Here's how to onboard devices to JSI:

1. On Juniper Support Portal, click **Insights > Device Onboarding**.
2. Click **New Device Group**. The following image represents the device onboarding page with some sample data filled in.

The screenshot displays the Juniper Cloud Device Onboarding interface, divided into three main sections: Device Group, Credentials, and Connections.

Device Group (Status: Success):

- Device Group** (Info icon):
 - Name**: Data Center Device Group
 - Description**: (Empty text area)
- Device List** (Info icon):
 - IP Address**: 192.0.2.0, 192.0.2.1
 - Upload Target URL**: (Empty text area)
 - Upload Files** button and "Or drop files" text.
 - [Download Sample CSV File](#) link.
- Collector Name**: DD1120AN0169
- Site ID**: 00000050001

Credentials (Status: Success):

- Add Credential** (Active) | Existing Credentials
- Selected Credential**: testuser
- Credential Name**: testuser
- Select Credential Type**:
 - ☒ User Name / Password
 - ☐ SSH Key
- User Name**: mypassword
- Password**: (Masked with dots)
- [Back to list](#) button.

Connections (Status: Success):

- Add Connection** (Active) | Existing Connections | Existing Bastion Host
- Select Connection Type** (Info icon):
 - ☒ Direct
 - ☐ Via Bastion Host
- [Submit](#) button.

3. In the **Device Group** section, enter the following details for the devices to be associated with the LWC:
 - **Name**—A name for the device group. A Device Group is a collection of devices with a set of common credentials and modes of connection. The operational dashboards and reports use the device groups to provide a segmented view of the data.
 - **IP Address**—IP addresses of the devices to be onboarded. You can provide a single IP address or a list of IP addresses. Alternatively, you can upload the IP addresses through a CSV file.
 - **Collector Name**—Automatically populated if you have only a single LWC. If you have multiple LWCs, select from the list of available LWCs.
 - **Site ID**—Automatically populated if you have only a single Site ID. If you have multiple Site IDs, select from the list of available Site IDs.

4. In the **Credentials** section, create a set of new credentials or select from the existing device credentials. JSI supports SSH keys or usernames and passwords.
5. In the **Connections** section, define a connection mode. You can add a new connection or choose from the existing connections to connect the device to the LWC. You can connect the devices directly or through a set of bastion hosts. You can specify a maximum of five bastion hosts.
6. After entering the data, click **Submit** to initiate device data collection for the device group.

View Notifications

Juniper Cloud notifies you about the device onboarding and data collection status. Notification could also contain information about errors that need to be addressed. You can receive notifications in your email, or view them on Juniper Support Portal.

Here's how to view notifications on Juniper Support Portal:

1. Click **Insights > Device Notifications**.
2. Click a **Notification ID** to view the content of the notification.

Notification Id	Type Name	Device	Device Notification	Account	Type	Created Date
1 M-0000056290	Deployment Update		DD1120AN0169	JSAS Sandbox 1	Success	6/9/2022 4:34 PM
2 M-0000056289	Deployment Update	00000050001	DD1120AN0169	JSAS Sandbox 1	Failure	6/9/2022 4:33 PM
3 M-0000056282	New Measurement Data ...	TCGroup 00000050001	DD1120AN0169	JSAS Sandbox 1	Failure	6/9/2022 2:02 PM
4 M-0000056281	Deployment Update	00000050001	DD1120AN0169	JSAS Sandbox 1	Success	6/9/2022 12:37 PM

View Operational Dashboards and Reports

The JSI operational dashboards and reports are dynamically updated based on a periodic (daily) device data collection, which is initiated when you onboard a device. The dashboards and reports provide a set of current, historic, and comparative data insights into the devices' health, inventory, and lifecycle management. The insights include the following:

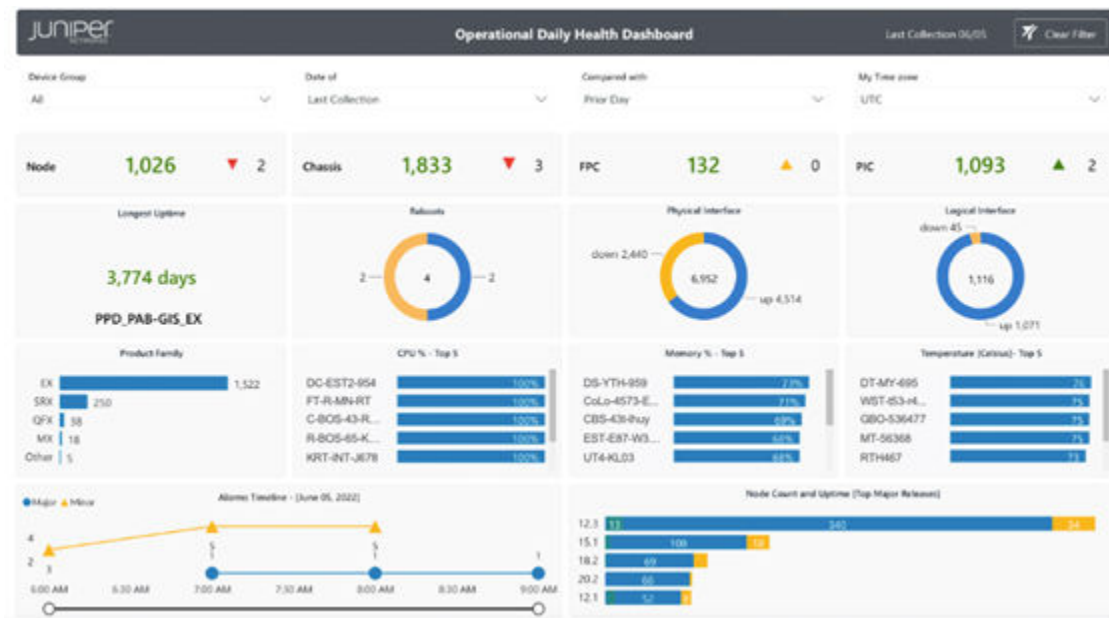
- Software and hardware systems inventory (chassis to component level detail covering serialized and non-serialized items).
- Physical and logical interface inventory.
- Configuration change based on commits.
- Core files, alarms, and Routing Engine health.
- End of Life (EOS) and End of Service (EOS) exposure.

Juniper manages these operational dashboards and reports.

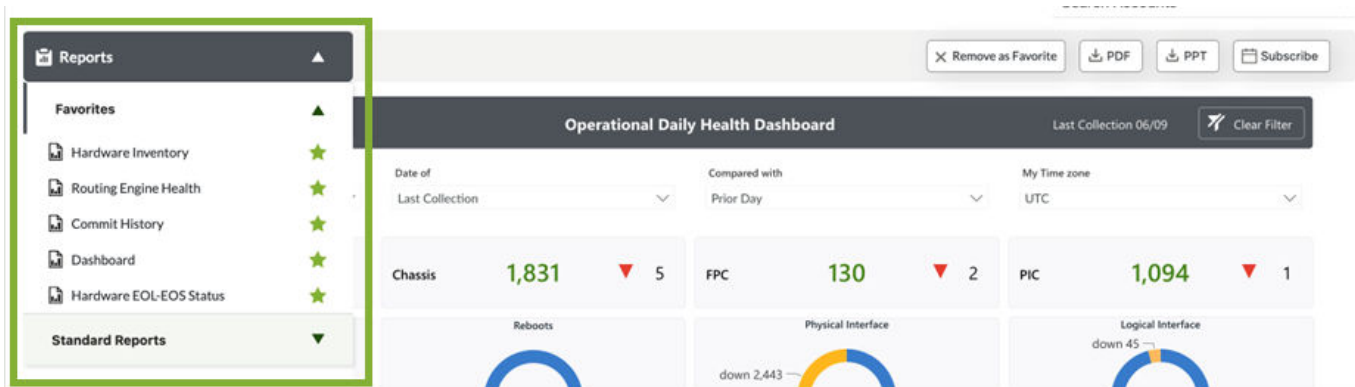
Here's how to view the dashboards and reports on Juniper Support Portal:

1. Click **Insights > Dashboard**.

The **Operational Daily Health Dashboard** is displayed. This dashboard includes charts that summarize the KPIs associated with the account, based on the last collection date.

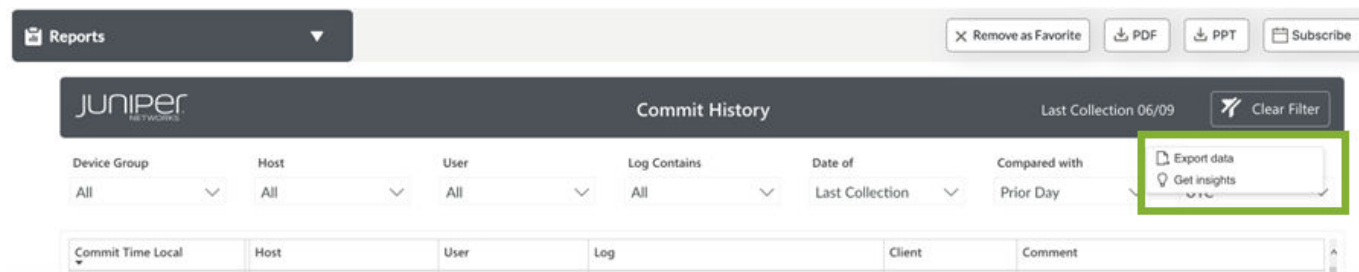


2. From the **Reports** menu on the left, select the dashboard or report you want to view.



The reports typically consist of a set of filters, an aggregated summary view, and a detailed tabular view based on the data collected. A JSI report has the following features:

- **Interactive views**—Organize the data in a meaningful way. For example, you can create a segmented view of the data, click through, and mouse-over for additional details.
- **Filters**—Filter data based on your requirements. For example, you can view data specific to one or more device groups for a specific collection date and a comparison period.
- **Favorites**—Tag reports as favorites for ease of access.
- **Email Subscription**—Subscribe to a set of reports to receive them at a daily, weekly, or monthly frequency.
- **PDF, PTT, and Data formats**—Export the reports as PDF or PTT files, or in data format. In data format, you can download the report fields and values for each report component (for example, chart or table) by using the **Export Data** option as shown below:



Step 3: Keep Going

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Congratulations! Your JSI solution is now up and running. Here are some of the things you can do next.

What's Next?

If you want to	Then
Onboard additional devices or edit the existing onboarded devices.	Onboard additional devices by following the procedure explained here: "Onboard Devices" on page 11
View the operational dashboards and reports.	See "View Operational Dashboards and Reports" on page 12
Manage your notifications and email subscriptions.	Log into the Juniper Support Portal, navigate to My Settings and select Insights to manage your notifications and email subscriptions.
Get help with JSI.	Check for solutions in the FAQs: Juniper Support Insights and the Lightweight Collector and Knowledge Base (KB) articles. If FAQ or KB articles do not address your issues, contact Juniper Customer Care.

General Information

If you want to	Then
See all documentation available for Juniper Support Insights (JSI)	Visit the JSI Documentation page in the Juniper TechLibrary
Find more in-depth information about installing the Lightweight Collector (LWC)	See the LWC Platform Hardware Guide

Learn with Videos

Our video library continues to grow! We've created many, many videos that demonstrate how to do everything from install your hardware to configure advanced Junos OS network features. Here are some great video and training resources that will help you expand your knowledge of Junos OS.

If you want to	Then
Get short and concise tips and instructions that provide quick answers, clarity, and insight into specific features and functions of Juniper technologies	See Learning with Juniper on the Juniper Networks main YouTube page
View a list of the many free technical trainings we offer at Juniper	Visit the Getting Started page on the Juniper Learning Portal