

# Day One+

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## JSI on Juniper Support Portal Quick Start (LWC)

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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.

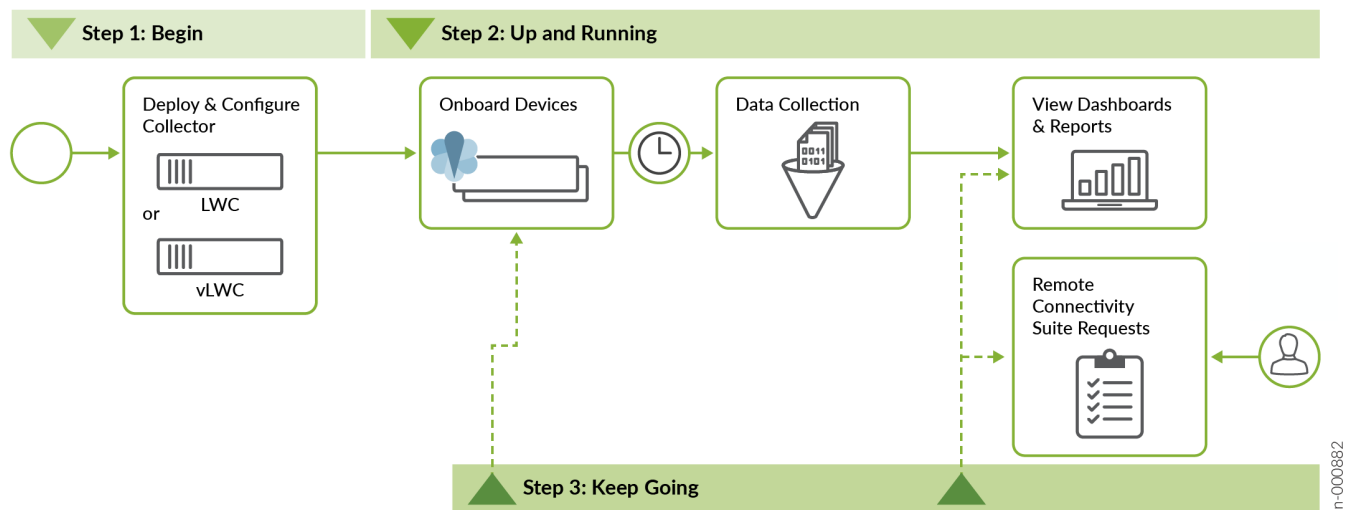
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## Meet Juniper Support Insights

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 Quick Start 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 Purchase and License Agreement (JPLA). For general information on JSI, see [Juniper Support Insights Datasheet](#).

## Install the Lightweight Collector

### IN THIS SECTION

- [What's in the Box? | 3](#)
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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?

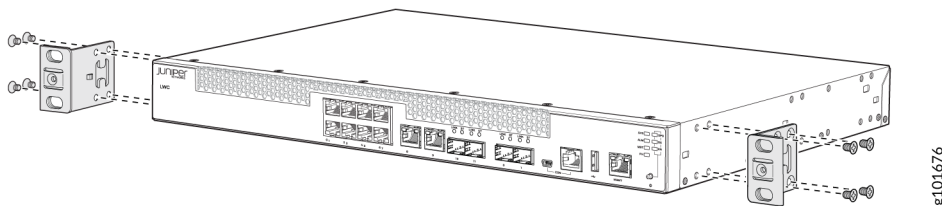
- Someone to help you mount the LWC in the rack.
- Four rack mount screws to secure the mounting brackets to the rack
- A number 2 Phillips (+) screwdriver

## Mount a Lightweight Collector on Two Posts in a Rack

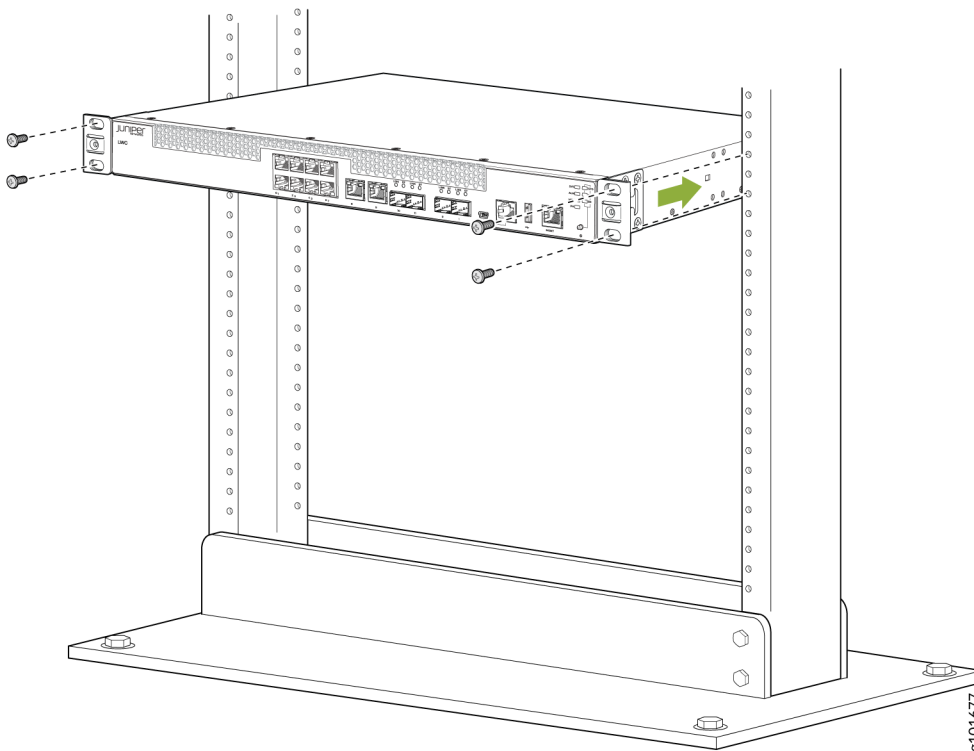
You can mount a Lightweight Collector (LWC) on two posts of a 19-in. rack (either a two-post or a four-post rack).

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.

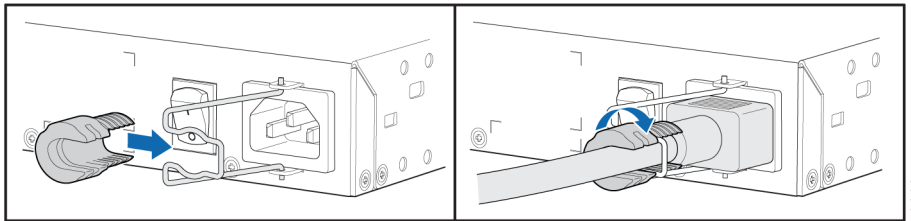


7. While you're holding the LWC in place, have a second person insert and tighten the rack mount screws to secure the mounting brackets to the rack rails. Make sure they tighten the screws in the two bottom holes first and then tighten the screws in the two top holes.

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.



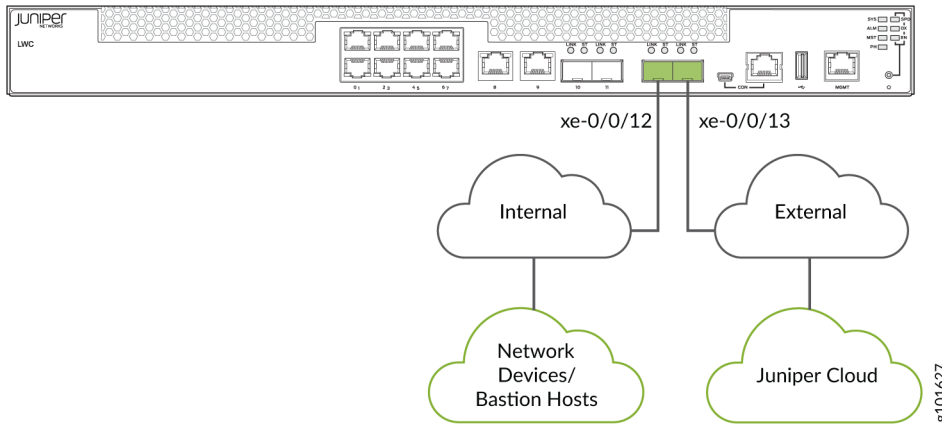
6. If the AC power source outlet has a power switch, turn it off.
7. Plug in the AC power cord to the AC power source outlet.
8. Turn on the power switch on the LWC's rear panel.
9. If the AC power source outlet has a power switch, turn it on.
10. Verify that the power LED on the LWC front panel is green.

## 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

### IN THIS SECTION

- [Internal and External Network Requirements | 6](#)
- [Configure the LWC Manually | 8](#)

The LWC is preconfigured 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.



**NOTE:** You must connect to the captive portal from a local IP address. Connection to the captive portal from the browser will fail if the connection request originates from a non-local network.

Before you configure the Lightweight Collector (LWC), refer to the "[Internal and External Network Requirements](#)" on [page 6](#).

### Internal and External Network Requirements

The LWC device requires:

- An internal network port (interface xe-0/0/12) that connects the LWC to the Juniper devices on the network.
- An external network port (interface xe-0/0/13) that connects the LWC to the Juniper Virtual Private Cloud.

Before connecting the LWC to the internal network, ensure that you have:

- A DHCP or static IP address.
- IP connectivity to the Domain Name Server (DNS), all the direct devices on the network, and bastion hosts (if applicable) used to access the devices.



**NOTE:** Bastion hosts utilize a SOCKS5 proxy server to reach target devices in the customer's network. Bastion hosts also support connection hopping, where an SSH session is first established with a customer's Linux-based device, which then initiates a subsequent SSH session to the target device.

- Enabled NETCONF in the Junos OS configuration of all target Juniper devices. The LWC uses SSH credentials to connect to the devices on the network and, if used, bastion hosts.

See also [Establish an SSH Connection for a NETCONF Session](#).

- Enabled SFTP for the Remote Connectivity Suite over port 22 only for file collection.

See also [Configure Incoming SFTP Connections](#).

Before connecting the LWC to the external network, ensure that you have the following ready:

- A DHCP or static IP address.
- A DNS server in case you have selected a static address. In case of any subsequent change to the DNS, you must inform Juniper about it and get it updated. Otherwise, the LWC might lose connectivity to the external endpoints. The LWC supports real static, private static, or DHCP addresses. It prefers Network Address Translation (NAT).
- Accessibility to the DNS and IP addresses specified in [Table 1 on page 7](#) through the IP addresses assigned to xe-0/0/13 on the LWC.

**Table 1: Outbound Connectivity Requirements**

Description	DNS Name	IP Address	Port
Juniper cloud	AWSPProxy-prod.jssprod.junipercloud.net	52.223.32.79, 35.71.174.221, 35.164.173.102, 52.26.8.178, 54.149.201.209	443

The subnet of the IP address assigned to the internal network port must be different from the subnet of the IP address assigned to the external network port. See [Table 2 on page 7](#).

**Table 2: Static Interface Table Mapping**

Network Type	LWC Interface	LWC Port Identification	IP Address	Subnet
Network access (internal)	xe-0/0/12	0	Internal Static 1	Subnet 1

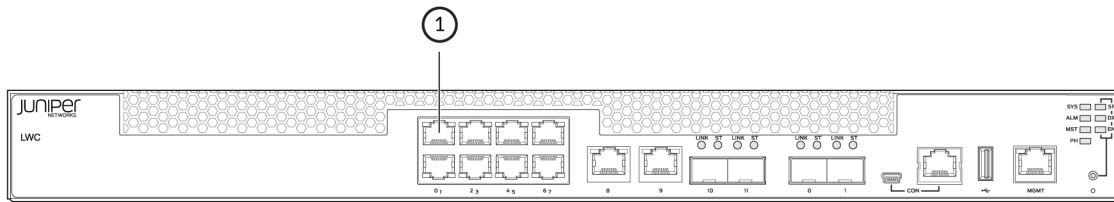
Table 2: Static Interface Table Mapping (*Continued*)

Network Type	LWC Interface	LWC Port Identification	IP Address	Subnet
Juniper cloud access (external)	xe-0/0/13	1	External Static 1	Subnet 2

## Configure the LWC Manually

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.



**NOTE:** On Captive Portal versions earlier than 1.0.43, if you are unable to configure an IP address via DHCP, you must manually assign an IP address to the connecting device and accept an unsecured connection. For more information, see <https://supportportal.juniper.net/KB70138>.

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.

The following image displays the JSI Data Collector page when the LWC is not connected (version 1.0.43 and later releases).



**JSI Data Collector**

**Configure your Collector**      Connection Status ⓘ ? Juniper Cloud Disconnected ? Not Provisioned

**External Network ⓘ**

IP Type: IPv4  
 Source: DHCP  
 IP Address (LWC SW): [redacted]  
 Subnet Mask: [redacted]  
 Gateway: [redacted]  
 DNS Server: [redacted]

**Connection Status ⓘ**

? Gateway Disconnected  
 ? DNS Disconnected

EDIT   C

Active Proxy ⓘ  Enable/Disable

**Internal Network ⓘ**

**IPv4 Settings**  Enable/Disable      **IPv6 Settings**  Enable/Disable

IP Type: IPv4      IP Type: IPv6  
 Source: DHCP      Source: Static  
 IP Address: [redacted]      IP Address: ::1  
 Subnet Mask: [redacted]      Prefix Length (/0 to /128): /128  
 Gateway: [redacted]      Gateway: [redacted]  
 DNS Server: [redacted]      DNS Server: Not configured

**Connection Status IPv4 ⓘ**      **Connection Status IPv6 ⓘ**

? Gateway Disconnected      ? Gateway Disconnected  
 ? DNS Disconnected      ? DNS Disconnected

EDIT   C

**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

Version: 1.0.43

The following image displays the JSI Data Collector page when the LWC is not connected (releases earlier than version 1.0.43).

**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): [redacted]  
 IP Address (LWC): [redacted]  
 Subnet Mask: [redacted]  
 Gateway: [redacted]  
 DNS Server: Not configured

**Connection Status ⓘ**

✖ Gateway Disconnected  
 ✖ DNS Disconnected

EDIT   C

Active Proxy ⓘ  Enable/Disable

IP Address: [redacted]  
 Port: [redacted]

EDIT   C

**Internal Network ⓘ**

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

**Connection Status ⓘ**

✖ Gateway Disconnected  
 ✖ DNS Disconnected

EDIT   C

**Instructions**

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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.

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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 the **Refresh** icon under the External Network or Internal Network sections to refresh the current connection states for that section.

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 your 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. Active proxy uses SOCKS5 proxies to route connections to the target Juniper devices in the customer's network.



**NOTE:** If you choose to use an active proxy, ensure that it forwards all the traffic from the LWC to the AWS cloud proxy (see Outbound Connectivity Requirements table in [Configure the Network Ports and Active Proxy](#) for the AWS cloud proxy URL and ports). Juniper cloud services blocks all the inbound traffic coming through any path other than the AWS cloud proxy.



**NOTE:** If you choose to use an active proxy, ensure that the LWC's external interface IP configuration can reach the active proxy's URL or IP address.



**NOTE:** In version 1.0.43 and later releases, the **Active Proxy** section is collapsed by default if an active proxy is disabled or not configured. To configure, click **Enable/disable** to expand the **Active Proxy** section.



**NOTE:**

The subnet of the IP address assigned to the internal network port must be different from the subnet of the IP address assigned to the external network port. This applies to both DHCP and static configurations.

- 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**.



**NOTE:** Once the LWC is connected to Juniper Cloud and maintains a stable connection for over 24 hours, automatic upgrade will be enabled for the device.

The following image displays the JSI Data Collector page when the LWC is connected successfully (version 1.0.43 and later releases).

The screenshot displays the JSI Data Collector configuration interface. At the top, it shows the title "JSI Data Collector" and a status bar indicating "Configure your Collector" with "Connection Status" showing "Juniper Cloud Connected" and "Cloud Provisioned".

The main configuration area is divided into two sections: "External Network" and "Internal Network".

**External Network:**

- IP Type: IPv4
- Source: DHCP
- IP Address (LWC SW): [Redacted]
- Subnet Mask: [Redacted]
- Gateway: [Redacted]
- DNS Server: [Redacted]
- Buttons: EDIT, C
- Active Proxy:  Enable/Disable

**Internal Network:**

- IPv4 Settings:  Enable/Disable
- IPv6 Settings:  Enable/Disable
- IP Type: IPv4
- Source: DHCP
- IP Address: [Redacted]
- Subnet Mask: [Redacted]
- Gateway: [Redacted]
- DNS Server: [Redacted]
- Buttons: EDIT, C

**Connection Status Summary:**

- External Network: Gateway Connected, DNS Connected
- Internal Network IPv4: Gateway Connected, DNS Connected
- Internal Network IPv6: 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\*)
  - 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 button)
- Shutdown Collector:** Press the button below to shutdown the Collector. Confirm by pressing the button a second time within 30 seconds. (SHUTDOWN button)

Version: 1.0.43

The following image displays the JSI Data Collector page when the LWC is connected successfully (releases earlier than version 1.0.43).

The screenshot shows the JSI Data Collector configuration interface. At the top, the title is "JSI Data Collector" and the status is "Configure your Collector". Below this, there are two main sections: "External Network" and "Internal Network". Each section has a "Connection Status" box showing "Gateway Connected" and "DNS Connected" with green checkmarks. The "External Network" section includes fields for IP Type, Source, IP Address (VM), IP Address (LWC), Subnet Mask, Gateway, and DNS Server, along with "EDIT" and "C" buttons. The "Internal Network" section has similar fields and buttons. To the right of the configuration sections, there are three panels: "Instructions" with a "DOWNLOAD LIGHT RSI" button, "Troubleshooting" with a "DOWNLOAD EXTENSIVE RSI" button, and "Reboot Collector" and "Shutdown Collector" buttons.

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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- Onboard Devices | 15

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- [View Operational Dashboards and Reports | 17](#)
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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 (Super Admin, 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.
- **Super Admin**—The Super Admin users can perform all the functions as a regular admin, and also manage the JSI roles to grant and revoke access (from **Insights** menu > **Advanced Settings** > **User Role Management** page).



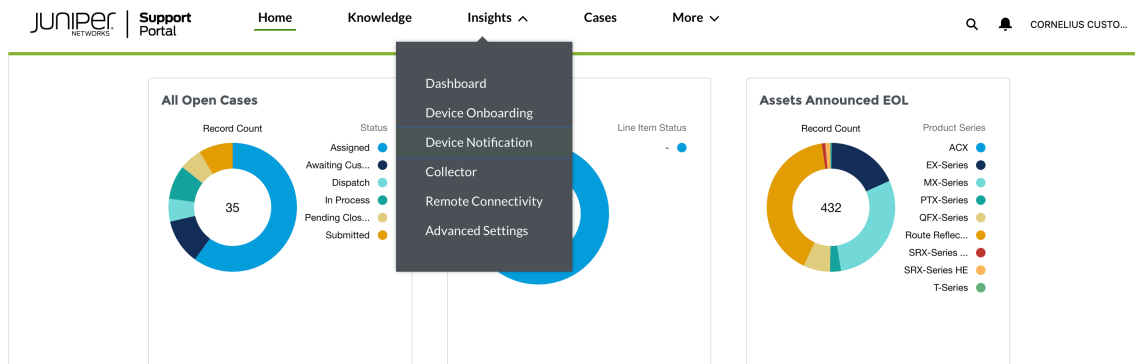
**NOTE:** Users managed by the super admin must be associated with the same account as the LWC. To locate a user, the super admin must enter the full email address (example: `jsiuser@email.com`) in the search field of the **User Role Management** page. If searching for the user by their full email address does not yield any results, contact your Juniper Services team for assistance.

- **RCS Operator**—The RCS Operator users can view device onboarding details, operational dashboards, and reports. In addition, they can receive and approve RCS requests.

Here's how to access JSI:

1. Log in to Juniper Support Portal ([supportportal.juniper.net](https://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.

- **Remote Connectivity** to view and manage Remote Connectivity Suite requests for a seamless device data collection process.
- **Advanced Settings** to configure remote connectivity settings (see "[Configure RCS Device Settings](#)" on page 22), and manage JSI user roles.



## View the Lightweight Collector Connection Status

### IN THIS SECTION

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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.



**NOTE:** Ensure that the NETCONF SSH subsystem is configured on your Juniper devices (on port 22) to onboard these devices to JSI. JSI supports NETCONF SSH sessions on port 22 only. JSI NETCONF sessions on other ports, such as port 830, are currently not supported.



**NOTE:** For information on Junos configurations and permissions required for JSI, see the FAQ - [What permissions does the JSI user need in Junos to operate JSI?](#)

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.

**Device Group** ✔

**Device Group** ⓘ

\* Name

Description

**Device List** ⓘ

\* IP Address

Upload Target URL

 Or drop files
 

Download Sample CSV File

\* Collector Name

\* Site ID

**Credentials** ✔

Add Credential
Existing Credentials

Selected Credential Back to list

\* Credential Name ⓘ

\* Select Credential Type

User Name / Password

SSH Key

\* User Name

\* Password

**Connections** ✔

Add Connection
Existing Connections
Existing Bastion Host

Select Connection Type ⓘ

Direct  Via Bastion Host

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.



**NOTE:** Data displayed depends on the end-user type:

- **Customer**—View device groups associated with your customer account IDs.
- **Partner**—View device groups associated with all customer account IDs that you are authorized to access.

- **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.  
Bastion hosts utilize a SOCKS5 proxy server to reach target devices in the customer's network. Bastion hosts also support connection hopping, where an SSH session is first established with a customer's Linux-based device, which then initiates a subsequent SSH session to the target device.
  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.



Device Notifications

All

50+ items · Sorted by Created Date · Filtered by All device notifications · Updated a

Search this list...

Notification Id	Type Name	Collector	Account	Type	Created Date
1	M-0000154649	New Measurement Data Available	DD1720AN0111	JSI Test Account RCS	9/1/2023 12:35 AM
2	M-0000154648	New Measurement Data Available	DD1720AN0111	JSI Test Account RCS	9/1/2023 12:31 AM
3	M-0000154647	New Measurement Data Available	DD1720AN0111	JSI Test Account RCS	8/31/2023 11:35 PM
4	M-0000154646	New Measurement Data Available	DD1720AN0111	JSI Test Account RCS	8/31/2023 11:31 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:

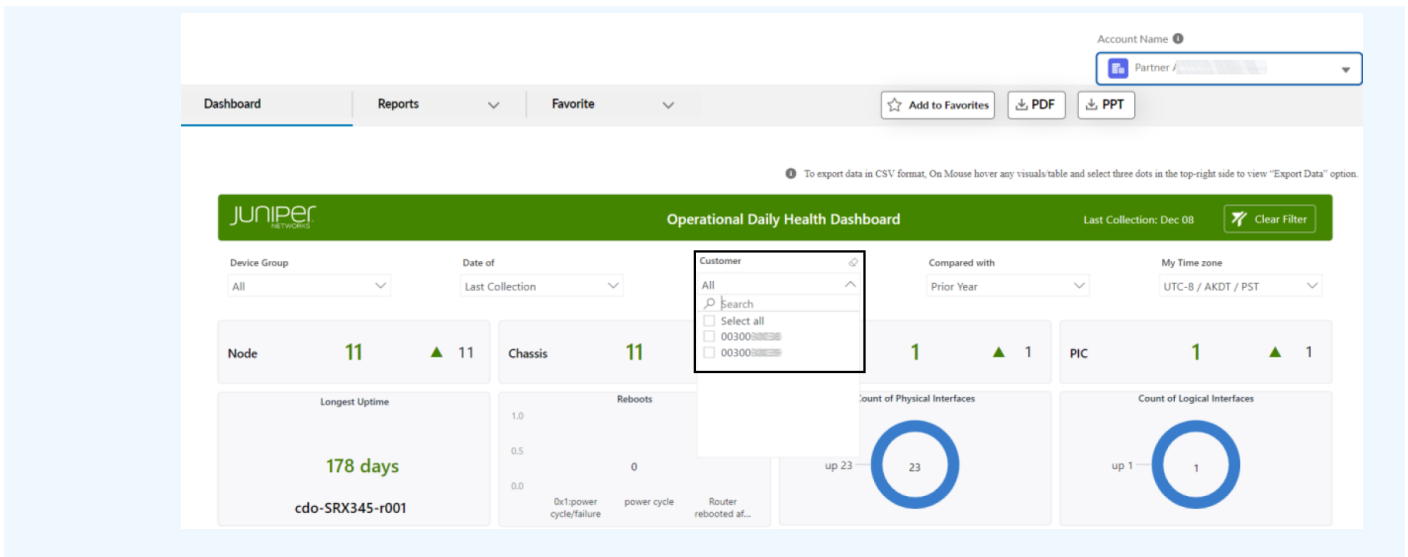


**NOTE:** Dashboards and reports are customized based on the end-user type:

- Customer—Displays data insights for the devices associated with the customer account.
- Partner—Displays a consolidated view with device insights from all supported customers.

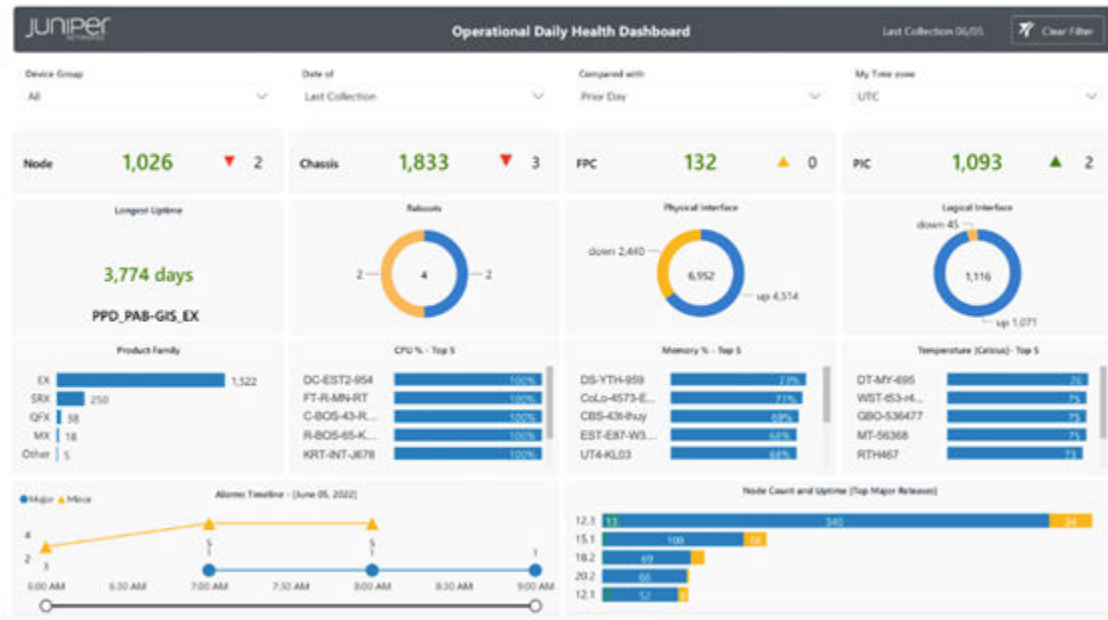
You can filter the view to display insights specific to individual customers.

To view insights specific to individual customers, select the customer ID from the Customer drop-down, as shown;

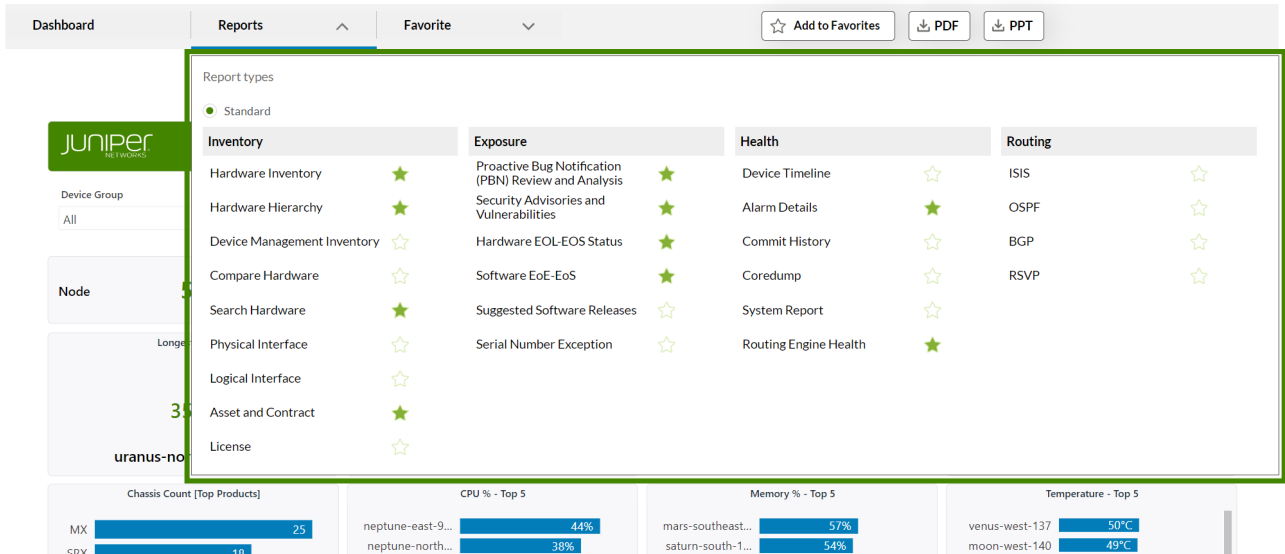


1. Click **Insights > Dashboard**.

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:

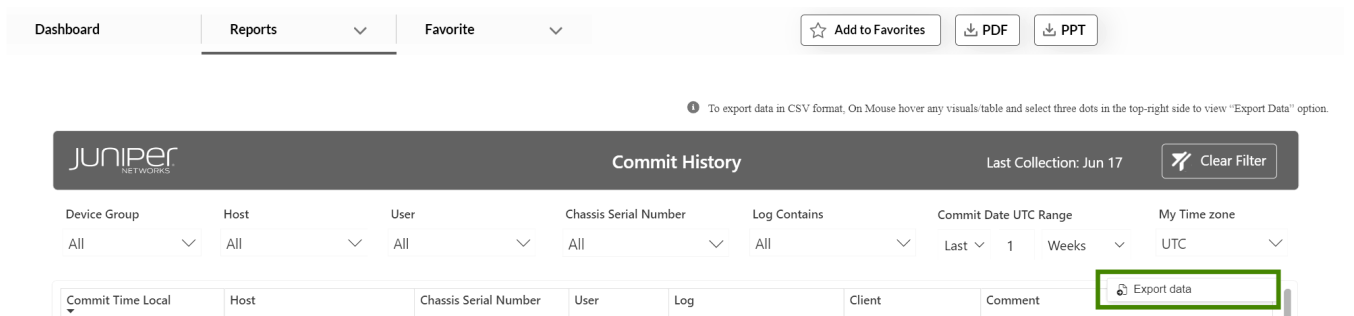
- Interactive views—Organize the data in a meaningful way. For example, you can create a segmented view of the data, click through, and mouse-over for additional details.
- Filters—Filter data based on your user type (customer or partner) and requirements.

**NOTE:** Data filtering based on end-user type:

- Customer—View and filter device groups associated with their customer account IDs.
- Partner—View and filter device groups associated with all customer account IDs that they are authorized to access.

You can filter 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.
- 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:



## Prepare for a Remote Connectivity Suite Request

### IN THIS SECTION

- [View RCS Requests | 20](#)
- [Configure RCS Device Settings | 22](#)

The JSI Remote Connectivity Suite (RCS) is a cloud-based solution that streamlines the support and troubleshooting process between Juniper support and customers by making the device data collection process seamless. Instead of iterative exchanges between Juniper support and the customer to obtain the right device data, RCS retrieves this in the background automatically. This timely access to essential device data facilitates swift troubleshooting of the issue.

At a high level, the RCS request process involves the following steps:

1. Submit a technical support case through the customer portal.
2. A Juniper support engineer will contact you about your technical support case. If necessary, the Juniper support engineer may propose an RCS request to retrieve device data.
3. Depending on the rules from the RCS settings (**Ask Approval** enabled), you may receive an email containing a link to authorize the RCS request.
  - a. If you consent to share the device data, click the link in the email, and approve the request.
4. The RCS request will be scheduled for a specified time and the device data is securely relayed to Juniper support.



**NOTE:** You must have JSI administrator privileges to configure RCS device settings, and approve or deny RCS requests.



**NOTE:** The Remote Connectivity Suite supports SFTP sessions on port 22 only for file collection.

## View RCS Requests

Here's how to view RCS requests on Juniper Support Portal:

1. On Juniper Support Portal, click **Insights** > **Remote Connectivity** to open the Remote Connectivity Requests Lists page.

The Remote Connectivity Requests Lists page lists all the RCS requests made. You can use the drop-down list on the top left corner of the page to customize your viewing preference.

Remote Connectivity Requests  
Recently Viewed ▾


50+ items

	Log Request Id ▾	Type ▾	Approval Status ▾	Related Case Number ▾	Device Serial Number ▾	Log Request Create Date/... ▾	Created By ▾
1	<a href="#">LR-000271</a>	Core File Collection	Approved	TEST-2023-0831-634439		8/31/2023 10:56 AM	<a href="#">Ray Smith</a>
2	<a href="#">LR-000270</a>	RSI Collection	Approved	TEST-2023-0831-634439		8/31/2023 10:35 AM	<a href="#">Ray Smith</a>
3	<a href="#">LR-000220</a>	RSI Collection	Pending Approval	TEST-2023-0823-634289		8/29/2023 7:20 AM	<a href="#">George Wilson</a>
4	<a href="#">LR-000222</a>	RSI Collection	Pending Approval	TEST-2023-0823-634289		8/29/2023 7:52 AM	<a href="#">Jane Miller</a>

2. Click the Log Request Id of an RCS request to open the Remote Connectivity Requests Detail page.

From the Remote Connectivity Requests Detail page, you can view the RCS request details and perform the following tasks:

- Modify the serial number.
- Adjust the requested date and time (set to a future date/time).

 **NOTE:** If the time zone is not specified in your user profile, the default time zone is Pacific Time (PT).

- Append notes.
- Approve or deny the RCS request.

Remote Connectivity Request LR-000270

RCS Type	Requested	Status	Access Request Date and Time
RSI Collection	Ray Smith	Document Uploaded	8/31/2023, 10:40:00 AM
JTAC Notes			
RSI Request for 12:40pm CST			

Case Details

Case Number	Case Type	Serial Number / Software Support Ref No
TEST-2023-0831-634439	Tech	[Redacted]
Software	Version	System/Router Name
	19.4	a10-40
Summary		
8/31 RCS Test		

Requested Serial Number

Serial Number/ Software Support Ref No.	Software	Product Series
[Redacted]	17.3R2.10	EX
Platform	System/Router Name	
SRX1500	cdo-SRX1500-r001	

Change Serial Number or SSRN

Approval Details

I would like to change the requested Date & Time

Notes

[Text input area for notes]

Back

Deny

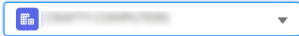
Approve

## Configure RCS Device Settings

You can configure both RCS collection and core file collection preferences from the RCS settings page. Here's how to configure the Remote Connectivity RSI Collection settings on Juniper Support Portal:

1. On Juniper Support Portal, click **Insights** > **Remote Connectivity** to open the Remote Connectivity Requests Lists page.
2. Click **Settings** on the top right corner of the page. The Remote Connectivity RSI Collection Settings page opens. This page enables you to set global collection permissions and create permission exceptions based on different criterias.

**Remote Connectivity Settings**  
Configure your log collection settings. Set global permissions or create collection rules by day, device, or device group.


Account Name 

**System Log Collection**

**RSI Collection**

Ad hoc Commands

Core File Collection


**Global Collection Permissions**  
\* Select the default collection permissions for all devices and device groups. 

Ask Approval     Always Allow     Always Deny


**Edit**

**Day and Time Rules** Create specific day and time exceptions to your global collection permissions. **Add**

Day	Duration	Permission Type	Notes	Action
No items to display.				

**Device Group Rules** Create separate collection rules for specific device groups. 

Device Group Name	Permission Type	Notes	Action
No items to display.			

**Device List Rules** Create separate collection rules for specific devices. 

Device List	Permission Type	Notes	Action
No items to display.			

- Global collection permissions are configured at an account level. For multiple JSI-connected accounts, you can select the account using the Account Name drop-down list on the top right corner of the page.
- To configure global collection permission, click **Edit** in the Global Collection Permissions section and change permission to one of the following:
  - Ask Approval**—An approval request is sent to the customer when Juniper support initiates an RCS request. This is the default setting when no permission is explicitly selected.
  - Always Allow**—RCS requests initiated by Juniper support are automatically approved.
  - Always Deny**—RCS requests initiated by Juniper support are automatically declined.



**NOTE:** When you have the global collection permission, and one or more exceptions configured with conflicting permissions, the following order of precedence will apply:

- Device list rules
- Device group rules
- Day and time rules
- Global collection permission

- To create exceptions based on specific day and time, click **Add** in the Date and Time Rules section. The Day and Time Rules Settings page opens.

You can configure an exception based on days and duration, and click **Save** to save the exception and return to the Remote Connectivity RSI Collection Settings page.

**Remote Connectivity Settings**  
Configure your log collection settings. Set global permissions or create collection rules by day, device, or device group.

Account Name: [Account Name]

**RSI Collection**

\*Select Days

Monday  Wednesday  Friday  
 Tuesday  Thursday  Sunday  
 Saturday

Set your duration

\*Start Time: 9:00 AM   \*End Time: 5:00 PM    All Day

\*Select Permission Type

Ask Approval  Always Allow  Always Deny

Notes

6.  **NOTE:** Before configuring collection rules for device groups, ensure that a device group already exists for the account.

To create separate collection rules for specific device groups, click **Add** in the Device Group Rules section. The Device Group Rules Settings page opens.

You can configure the collection rule for a specific device group, and click **Save** to save the rule and return to the Remote Connectivity RSI Collection Settings page.

**Remote Connectivity Settings**  
Configure your log collection settings. Set global permissions or create collection rules by day, device, or device group.

Account Name: [Account Name]

**RSI Collection**

Select Device Groups

<input checked="" type="checkbox"/> Device Group Name	Description
<input checked="" type="checkbox"/> JSAS-Junos	

\*Select Permission Type

Ask Approval  Always Allow  Always Deny

Notes



- To create separate collection rules for individual devices, click **Add** in the Device List Rules section. The Device List Rules Settings page opens.

You can configure the collection rule for individual devices, and click **Save** to save the rule and return to the Remote Connectivity RSI Collection Settings page.

The screenshot shows the 'Remote Connectivity Settings' interface. At the top, there's a header with a gear icon and the title 'Remote Connectivity Settings', followed by a subtitle: 'Configure your log collection settings. Set global permissions or create collection rules by day, device, or device group.' On the right, there's an 'Account Name' dropdown menu showing 'ipm' and a partial email address.

The main content area is divided into a left sidebar and a main panel. The sidebar has four items: 'System Log Collection', 'RSI Collection' (which is highlighted with a blue bar), 'Ad hoc Commands', and 'Core File Collection'. The main panel is titled 'Device List' and contains the following elements:

- An 'IP Addresses (IPv4 or IPv6)' text input field containing '192.168.0.1'.
- An 'OR' separator.
- An 'Upload IP Addresses File in CSV Format' section with an 'Upload CSV' button and the text 'Or Drop CSV'.
- A link: 'Download Sample IP Address CSV File'.
- A 'Select Permission Type' section with three radio buttons: 'Ask Approval' (selected), 'Always Allow', and 'Always Deny'.
- A 'Notes' text area.
- 'Cancel' and 'Save' buttons at the bottom right.

## Step 3: Keep Going

### IN THIS SECTION

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- [General Information | 26](#)
- [Learn with Videos | 26](#)

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: <a href="#">"Onboard Devices" on page 15</a>
View the operational dashboards and reports.	See <a href="#">"View Operational Dashboards and Reports" on page 17</a>
Manage your notifications and email subscriptions.	Log into the Juniper Support Portal, navigate to <b>My Settings</b> and select <b>Insights</b> to manage your notifications and email subscriptions.
Get help with JSI.	Check for solutions in the <a href="#">FAQs: Juniper Support Insights and the Lightweight Collector</a> and <a href="#">Knowledge Base (KB)</a> articles.  If FAQ or KB articles do not address your issues, contact Juniper <a href="#">Customer Care</a> .

## General Information

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

## 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 <a href="#">Learning with Juniper</a> on the Juniper Networks main YouTube page
View a list of the many free technical trainings we offer at Juniper	Visit the <a href="#">Getting Started</a> page on the Juniper Learning Portal