

Release Notes

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Juniper Data Center Assurance

Software Highlights

2026

- Provides a conversational interface to help you with your queries using specialized AI agents to analyze data, guide troubleshooting, and deliver context-aware responses.
- Provides you with a central dashboard to monitor and manage security vulnerabilities and known software issues affecting your Juniper devices.
- Provides reference values for Carbon Intensity (CI) and Average Power Cost (APC) to help you configure sustainability settings for organizations and sites.
- Enables you to prioritize critical outliers with the help of confidence level metrics, bubble chart, and prediction bands.
- Enables you to proactively prevent potential optical health failures by utilizing the outlier insights based on Bit Error Rate (BER), Forward Error Correction (FEC), and Cyclic Redundancy Check (CRC) metrics.
- Enables you to view actionable sustainability analytics at the organization, site, and device levels.
- Helps you track GHG emission and power cost.
- Provides sustainability reports with historical trends at the organization and site levels.
- Provides AI-generated forecasts to predict future energy demand and potential savings and support capacity planning.
- Enables you to review device-level recommendations to optimize energy efficiency.
- Enables you to prevent potential failures in the optical interfaces of the network devices by utilizing the insights provided by an ML-based mechanism to predict optical health using DOM metrics.
- Provides information about the overall service performance impact due to system health and link health related anomalies.
- Provides information about the health and status of external routers connected to a border leaf of the data center network.
- Provides insights about the performance of the access layer switches in the data center.

- Provides information about Service Level Expectation (SLE) score for entire organization, sites, and the devices.
- Provides information about the VMs deployed in the data center network in the topology views.
- Provides licensing information about the features you are entitled to use.
- Monitors and analyzes anomalies and events from the data centers managed by Apstra Data Center Director and provides actionable recommendations.
- Monitors events in data centers managed by Apstra Data Center Director from Mist.
- Provides generative AI-based Marvis conversational interface to search Juniper Networks documentation for troubleshooting information.
- Provides alert notifications and alert templates to notify administrators when an event is generated.
- Enables network administrators to simulate failure scenarios to identify the potential impact an anomaly can have on services and clients.
- Enables you to search about Juniper products and services using the AI-enabled Marvis Conversational Interface (CI).
- Enables you to upgrade Apstra Edge remotely.
- Enables you to validate the health and connectivity of DC Assurance setup using the Juniper Data Center Assurance Setup Validation Tool.
- Enables you to provide feedback about Juniper Data Center Assurance and Apstra Data Center Director.
- Enables you to monitor the health of the data center fabric.
- Provides insights about the performance of the superspines in the data center.
- Enables you to monitor the health and connectivity of virtual devices in the data center network.
- Provides aggregated information about the sites that you have access to based on your user role.
- Provides reports that summarize support insights at the organizational level and on a per-device basis within your organization.
- Validates your user account before providing access to customer-centric information about your devices.
- Enables you to easily report issues, get assistance, and track the status of the issues directly from within the Juniper Data Center Assurance application.
- Enables you to verify configurations on Apstra as well as identify and address issues that might affect DC Assurance feature functionality using the pre-flight check feature.
- Enables you to use Marvis—our AI-powered conversational assistant, to proactively resolve issues without having to create a support request.
- Provides detailed information about the devices managed by all connected Apstra instances to observers, network administrators, and superusers.
- Enables you to use a combination of screen readers and keyboard shortcuts to navigate the dashboard, making the dashboard compliant with WCAG 2.1.

- Provides operational insights about the performance of flow servers associated with the controllers.
- Enables you to configure multiple flow servers managing the sites in the network to a single Edge device.
- Enables you to monitor and respond to anomalies in the virtual infrastructure in your data center.
- Helps you prevent potential anomalies and device failures in the network by utilizing the insights provided by the ML-based predictive analytics feature.
- Enables you to import and install add-ons from the DC Hub to enhance various Apstra features.
- Provides network administrators the option to set a preferred application portal for the organization.
- Enables you to track support coverage across your inventory by displaying the support status of your devices on the Installed Base tab.
- Provides a dashboard for you to quickly access contract details, monitor overall support posture, and identify devices that may require attention.

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- Provides visibility into application performance (Application Aware) by visualizing the impact of network events on services, allowing for faster troubleshooting and improved reliability.
- Provides a graphical representation of network resource-to-service mapping of the data center network and the services showing how applications and services utilize the data center network.
- Performs impact analysis to help identify the root causes of application issues, enabling quicker resolutions network issues.

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Introduction

Juniper Data Center Assurance (DC Assurance) is a SaaS-based Day 2 observability and analytics platform for data centers managed by Apstra Data Center Director. It provides real-time visibility into data center operations, enabling network administrators to proactively detect, analyze, and resolve network events and anomalies that may impact application performance and user experience.

By analysing network operations and performing root cause analysis of network events, the DC Assurance application helps identify issues early, reducing mean time to resolution and minimizing network disruption. By delivering actionable insights rather than raw telemetry, DC Assurance supports proactive and data-driven network operations.

The capabilities of DC Assurance include:

- **Application Awareness**—Visualizes active services and traffic flows across the data center fabric.
- **Impact Analysis**—Shows how issues in the network infrastructure affect application traffic and end-user experience.
- **Predictive Analytics**—Applies machine learning to historical data to forecast trends and identify potential anomalies or failures before they occur.
- **Network Sustainability Analytics**—Offers visibility into power consumption, greenhouse gas emissions, and operational costs, and provides forecasts and recommendations to improve energy efficiency.
- **Service Level Expectations (SLEs)**—Helps measure network performance against defined benchmarks.
- **DC Hub**—Provides a platform to discover, install, and manage add-ons to add functionality and analytics within Apstra for your specific requirements.
- **Marvis Actions and Marvis AI Assistant**—Applies AIOps to analyze insights, recommend actions, and accelerate troubleshooting.

Software Compatibility Information

For detailed information about the supported version of Apstra Data Center Director, Juniper Apstra Edge, and Docker, see [Juniper Data Center Assurance Compatibility](#).

Account Activation and Login

To activate your account and log into Juniper Data Center Assurance, see [User Activation and Login](#)

Feature Updates

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New and Updated Features

This section describes the new and updated features released in Juniper Data Center Assurance.

Network Sustainability Analytics

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Review Suggested Values for Sustainability Settings

Network Sustainability Analytics provides global and location-based reference values for Carbon Intensity (CI) and Average Power Cost (APC) to help you quickly configure sustainability settings for organizations and sites. You can either use these suggested values or define custom values based on your requirements.

[See [Configure Sustainability Settings for the Organization](#).]

Advisories

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Monitor and Manage Device Vulnerabilities

Use the Advisories page (Organization > Advisories) to centrally monitor security vulnerabilities and known software issues affecting your Juniper devices, assess their impact, and proactively plan corrective actions.

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

Marvis AI Assistant for Data Center

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Marvis AI Assistant Enhanced with AI Agents

Marvis now enhances your conversational experience by dynamically applying specialized AI agents to analyze data, guide troubleshooting, and deliver context-aware responses. Based on your query, agents are invoked per response and scoped to the application context to provide you with accurate and relevant results. You can also access and revisit your chat history to continue investigations or reference previous conversations.

[See [Marvis AI Assistant Overview](#).]

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New and Updated Features

This section describes the new and updated features released in Juniper Data Center Assurance.

Assurance

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Enhancements to Predictive Analytics for Optical Assurance

The Predictive Analytics feature for Optical Assurance has been enhanced to forecast and identify outliers based on Bit Error Rate (BER), Forward Error Correction (FEC), and Cyclic Redundancy Check (CRC) metrics.

The ML models use a custom probe added in the DC-Probes analytics pack to collect data from the Data Center Director. You can install the DC-Probes pack from DC Hub page. The models use this data to predict future metrics and recognize outliers that might occur in a 15-day period for the following parameters:

- FEC Corrected Codeword Rate
- FEC Uncorrected Codeword Rate
- Pre-FEC BER
- RX CRC Errors Rate
- TX CRC Errors Rate
- FEC Histogram



NOTE: Predictive Analytics for Optical Assurance based on BER, FEC, and CRC metrics requires Data Center Director 6.1 and devices running the following Junos OS Evolved releases: 23.4X100D31, 25.2X100D10, and 25.4R1.

[See [Predictions Overview](#).]

Reliability Metrics and Bubble Chart View for Predictions

The Predictive Analytics feature has been enhanced to include confidence metrics for an outlier and display predicted outliers in the form of a bubble chart. It has also been enhanced to display a prediction band in the parameter graphs on the **Device Details** page.

The confidence level represents the reliability of the predictions in percentage.

The bubble chart maps the predicted time the issue might occur and the confidence level for an outlier. Each bubble represents an outlier on a network device. The color of the bubble indicates the severity of the outlier that is determined based on whether the forecasted value exceeds the system-defined thresholds. The size of the bubble indicates the number of services or clients impacted by the outlier. You can use filters to modify the bubble chart as per your requirements.

The prediction band in the graphs for each parameter indicates the range of values within which a future observation is likely to fall based on the confidence level of the forecasting method. A narrow prediction

band indicates greater precision and confidence in the forecast. A wide prediction band indicates uncertainty and variability in the forecast.

The confidence level metrics, the bubble chart, and the prediction bands help you identify and prioritize critical issues in the network. This enables you to take corrective actions in advance and prevent network disruption.

[See [Predictions Overview](#).]

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Network Sustainability Analytics

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As networks expand to handle increasing bandwidth demands, energy consumption rises proportionally, leading to higher operational costs and a greater carbon footprint. To address this challenge, organizations set goals to optimize power usage and reduce emissions. Real-time visibility into energy

consumption and emission data, along with actionable recommendations and potential energy savings insights can help organizations achieve their sustainability goals.

Juniper Data Center Assurance provides the **Network Sustainability Analytics** feature to help administrators monitor, analyze, and optimize energy consumption across their network infrastructure.

To access this feature, from the main menu click **Sustainability**.

To view insights in the Sustainability dashboards in Juniper Data Center Assurance, ensure the following:

- Network Sustainability Analytics feature is enabled for your organization. To enable the feature for your organization, contact your designated HPE Networking representative. After the feature is enabled, it can take up to a day for Sustainability data to appear on the dashboards.
- The Apstra Edge is onboarded to Juniper Data Center Assurance. You can verify the Edge status from the DC Edges page. See, [Adopt Juniper Apstra Edge](#).
- Verify that devices and software versions meet the supported requirements to enable the Network Sustainability Analytics feature. See, [Sustainability: Supported Platforms and Software Versions](#).
- Sustainability settings, such as average power cost, carbon intensity, and port utilization thresholds are correctly configured. These parameters help generate accurate sustainability analytics across the organization and its sites.

See, [Configure Sustainability Settings for the Organization](#), [Configure Port Threshold for the Organization](#).

The Sustainability dashboard offers the following capabilities:

- **Observability**—Provides granular visibility into sustainability metrics across organization, site, and device levels.
- **Insights on Sustainability Metrics**—Provides utilization trends and AI-generated forecasts based on historical data for SBTi compliance reporting.
- **Energy Optimization Recommendations**—Provides actionable recommendations to transition from an “always-on” to an “on-demand” network model.
- **Potential Energy Savings**—Provides estimated savings in energy, cost, and emissions to help evaluate the optimization potential of your network infrastructure.

The following sections describe the key Sustainability features that Data Center Assurance provides:

View Actionable Sustainability Insights for the Organization

Use the **Organization-Level Sustainability Dashboard** to gain comprehensive visibility into an organization's energy profile.

Use the dashboard to:

- Monitor and understand organization-wide energy usage and GHG emissions
- Identify high-impact opportunities for energy optimization
- Prioritize sites that contribute most to overall energy consumption
- Estimate the sustainability benefits achievable through optimization actions
- Review the organization's Sustainability Report to evaluate actual and historical energy data and AI-generated energy forecasts and use it to support SBTi planning and sustainability reporting

[See, [View Sustainability Insights for an Organization.](#)]

View Actionable Sustainability Insights for Sites

Use the **Site-Level Sustainability Dashboard** to gain comprehensive visibility into a site's energy profile.

Use the dashboard to:

- Monitor current and historical site-level energy consumption and GHG emissions
- Evaluate potential savings in energy, cost, and emissions across different time ranges. Also, identify the recommendation type, device, or Junos OS version installed on the device that contributes most to these estimated savings.
- Analyze site-level energy efficiency trends using power-versus-throughput visualizations to understand how energy usage correlates with network load over time.
- Visualize the site's network fabric and compare devices across energy, emission, and thermal metrics.
- Identify top devices in the site based on key energy metrics to evaluate their contribution to overall site energy usage.
- Review the site's Sustainability Report to evaluate actual and historical energy data and AI-generated energy forecasts and use it to support your organization's SBTi planning and sustainability reporting.

[See, [View Sustainability Insights for a Site.](#)]

View Actionable Sustainability Insights for Devices

The **Device-Level Sustainability Dashboard** provides granular visibility into the energy usage of individual network devices in your data center.

The dashboard includes four dedicated views to help you monitor device behavior, detect inefficiencies, and improve device-level energy utilization.

- Use the **Overview** tab to view a device's real-time and historical power usage, energy consumption, GHG emissions, power cost, potential energy savings, and historical power and throughput trends. Review current and forecasted port traffic patterns to identify idle or underutilized ports.
- Use the **Power Supply** tab to monitor a device's power module health, redundancy, input-feed status, and device's power capacity and utilization.
- Use the **Thermal Profile** tab to analyze a device's temperature trends, fan activity, top thermal sensors by deviation, and power trend impact on cooling.
- Use the **Recommendation** tab to review data-driven, device-specific energy optimization suggestions that highlight opportunities to reduce idle power draw and improve sustainability.

[See, [View Sustainability Insights for a Device.](#)]

Review Recommendations to Optimize Energy Consumption

Network Sustainability Analytics feature provides device-level energy optimization recommendations and the potential energy savings for each action. These recommendations help conserve energy, reduce carbon emissions, and save on operational costs.

You can view the recommendations on the **Recommendation** tab of the **Device-Level Sustainability Dashboard**.

You can get energy optimization recommendations at the line card, PFE, and port levels.

The following energy optimization recommendations are available in this release:

- **Optimize energy consumption by shutting down unused ports**—The *Device Port Power Optimization* recommendation lists unused ports on a device based on operational state and traffic patterns. It provides actionable guidance, including associated benefits and risks, along with relevant configlet-based actions, to safely disable ports and reduce idle power consumption.
[See, [Energy Optimization Recommendation for Unused Ports.](#)]
- **Optimize low-traffic ports based on historical traffic patterns**—The *Low-Traffic Port Optimization* recommendation lists low utilization ports based on historical traffic patterns and provides actionable guidance, including observed low-traffic windows and relevant configlet-based actions to temporarily disable ports and reduce idle power consumption.
[See, [Optimize Low Traffic Ports Based on Historical Traffic Patterns.](#)]
- **Optimize low-traffic ports based on forecasted traffic patterns**—The *Forecasted Low Traffic Port Shutdown* recommendation lists low utilization ports based on forecasted traffic patterns and provides actionable guidance, including predicted low-traffic windows and relevant configlet-based actions to temporarily disable ports and reduce idle power consumption.

[See, [Optimize Low Traffic Ports Based on Forecasted Traffic Patterns.](#)]

- **Optimize Energy Consumption by Shutting Down Unused Line Cards**—The *Device Linecard Power Optimization* recommendation lists unused line cards and provides actionable guidance to reduce chassis-level power consumption.

[See, [Energy Optimization Recommendation for Unused Line Cards.](#)]

- **Optimize Energy Consumption by Shutting Down Unused PFEs**—The *Device PFE Power Optimization* recommendation lists unused Packet Forwarding Engines (PFEs) and provides actionable guidance to reduce forwarding-plane power consumption.

[See, [Energy Optimization Recommendation for Unused PFEs.](#)]

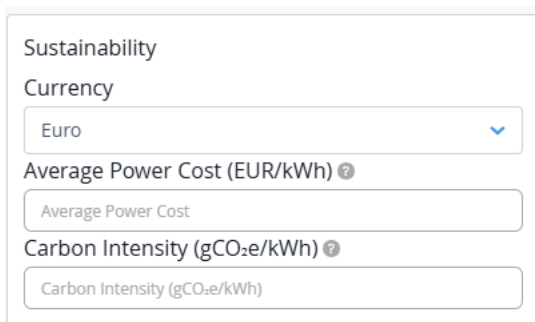
Multiple Currency Support

Average power cost can be configured based on your preferred currency.

At the organization-level, you can set a currency unit that aligns with your regional, compliance, or financial reporting requirements. This currency unit is automatically applied to all sites within the organization.

To set the currency, navigate to **Organization > Settings > Sustainability**.

Figure 1: Select Your Preferred Currency



The screenshot shows a 'Sustainability' settings panel. At the top is the 'Currency' dropdown menu, which is currently set to 'Euro'. Below this are two input fields: 'Average Power Cost (EUR/kWh)' and 'Carbon Intensity (gCO₂e/kWh)'. Both input fields have placeholder text that matches their respective units: 'Average Power Cost' and 'Carbon Intensity (gCO₂e/kWh)'.

[See, [Configure Sustainability Settings for the Organization.](#)]

Review the Sustainability Report

The **Sustainability Report** provides a consolidated view of an organization's energy performance over a selected time range. It combines actual usage, historical trends, cumulative yearly metrics, and AI-based forecasts to help track and evaluate energy consumption, GHG emissions, and energy costs over time.

The report enables rolling twelve-month analysis, year-over-year comparisons, and seamless visibility into historical and projected performance.

The report is available at both organization and site levels. Use the report to support your sustainability planning, assess alignment with Science Based Targets initiative (SBTi) goals, and enable consistent reporting across sites and the organization.

[See, [Review the Sustainability Report.](#)]

Evaluate Potential Energy Savings

The Potential Energy Savings feature provides insights into the potential savings your network infrastructure can achieve. These insights help you evaluate the reductions in energy consumption, operational costs, and carbon emissions that are possible if you apply all available recommended optimization actions.

Use this data to understand the expected impact of optimization actions before applying them.

You can view estimated savings at the [organization](#), [site](#), and [device](#) levels.

Configure Port Utilization Threshold

You can configure percentage-based utilization thresholds to classify device ports as Low, Medium, or High utilization. Thresholds apply globally by default, and can be overridden by configuring port thresholds at the site level for specific sites. The system provides default thresholds inferred from historical traffic and usage patterns, which administrators can customize as needed. The threshold values are used to render per-port traffic heatmaps and to generate accurate energy optimization recommendations at the port and line card levels.

To configure port threshold at the organization level, **Organization > Settings > Port Traffic Threshold**.

[See, [Configure Port Threshold for the Organization.](#)]

To configure port threshold at the site level, **Organization > Site Configuration > Port Threshold**.

[See, [Configure Port Threshold for the Site.](#)]



NOTE: To troubleshoot issues related to availability of Sustainability data, see [Network Sustainability Analytics— Troubleshooting](#).

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New and Updated Features

This section describes the new and updated features released in Juniper Data Center Assurance.

Assurance

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Predictive Analytics for Optical Interface Health

DC Assurance enables you to prevent potential failures in the optical interfaces of the network devices by utilizing the insights provided by an ML-based mechanism to predict optical health. Identifying potential issues early enables you to take corrective actions in advance, thereby preventing link outages and ensuring continuous network reliability.

The ML models use the data received from the Optical Transceivers probe in Apstra to predict future metrics and recognize outliers that might occur in a 15-day period for the following parameters:

- Received optical power (RX power)
- Transmitted optical power (TX power)
- Laser bias current
- Voltage

- Temperature

The Predictive Analytics feature identifies the services and clients that would be impacted by the forecasted outliers. It also displays the historical, current, and future metrics for specific interfaces in the topology.



NOTE: Predictive Analytics for Optical Interface Health requires your Apstra Data Center Director instance to be running Apstra version 6.1 or higher.

[See [Predictions Overview](#).]

Monitoring and Troubleshooting

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View External Routers in the Data Center Network in Topology Views

You can view the external routers connected to the Apstra-managed data centers in the topology views on the **App Aware**, the **Impact Analysis**, and the **Dashboard** pages.

The external routers are external generic systems that can be connected to an Apstra-managed data center network. These systems provide connectivity between two or more data centers as Data Center Interconnect (DCI) connections to share data and resources. DC Assurance supports external routers connected to a border leaf of the data center network architecture and provides information about the health and status of the external router.

[See [Data Center Network Topologies on DC Assurance](#).]

View Insights from Access Layer Switches in the Data Center Network in Topology Views

Juniper Data Center Assurance provides insights about the performance of the access layer switches in the data center. You can view actionable insights about the access layer on the **App Aware**, the **Impact Analysis**, and the **Dashboard** pages.

The access layer switches connect end-user devices to the data center network and also manage and direct data traffic within the network. DC Assurance supports access switch layer in 3-stage Clos, 5-stage Clos, and collapsed fabric network architecture.

[See [Data Center Network Topologies on DC Assurance](#).]

Service Level Expectations

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Support for Service Health SLE

DC Assurance enables you to monitor the health of the services running in the data center network. The Service Health SLE provides information about the overall service performance impact due to system health and link health related anomalies.

An administrator can use this information to proactively respond to network issues that impact end user experience.

[See [Service Level Expectations Overview](#).]

Sustainability

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As networks expand to handle increasing bandwidth needs, energy consumption rises proportionally, leading to higher operational costs and a greater carbon footprint. To address this issue, organizations set goals to optimize power usage and reduce emissions. Real-time access to power and emission data, along with actionable recommendations, supports the sustainability objectives of organizations.

Data Center Assurance provides a sustainability dashboard that helps administrators monitor and optimize energy consumption and carbon emission.

To view insights in the sustainability dashboards in Juniper Data Center Assurance, ensure the following:

- Sustainability feature must be enabled for your organization. To enable the feature for your organization, contact your designated Juniper Networks representative. After the feature is enabled, it can take up to a day for energy data to appear on the dashboards.
- The Apstra Edge is onboarded to Juniper Data Center Assurance. You can verify the Edge status from the DC Edges page. See, [Adopt Juniper Apstra Edge](#).
- Verify that devices and software versions meet the supported requirements for energy insights. See, [Energy Insights: Supported Platforms and Software Versions](#).
- Sustainability settings, such as average power cost, carbon intensity, and port utilization thresholds are correctly configured. These parameters help generate accurate sustainability insights across the organization and its sites.

See, [Configure Sustainability Settings for the Organization](#), [Configure Port Threshold for the Organization](#).

The sustainability dashboard provides the following information:

- Actionable insights for power conservation and greenhouse gas emission.
- Real-time visibility into device power usage, underutilized resources, and idle states—enabling safe shutdowns without impacting network traffic.
- AI-generated forecasts for energy requirements and associated costs, as well as GHG emissions.
- Faster troubleshooting of power-related anomalies by identifying problematic devices.

The following sections describe the key sustainability features that Data Center Assurance provides:

Actionable Energy Insights for the Organization

Data Center Assurance provides a dashboard for monitoring sustainability insights at the organization level. From the dashboard, you can track the following information:

- Current real-time power consumption
- Aggregated power consumption for the past hour
- Greenhouse gas emission for the past hour
- Cost of the power consumed for the past hour
- Sites ranked in the descending order of energy consumption

These insights help optimize power consumption and track carbon emission trends, thereby contributing to the organization's sustainability and SBTi goals.

[See, [View Sustainability Insights for an Organization.](#)]

Actionable Energy Insights for Sites

Use the **Site-Level Energy Dashboard** to gain comprehensive visibility into a site's energy profile.

Use the dashboard to:

- Monitor current and historical site-level energy metrics, including power usage, energy consumption, GHG emissions, and power cost.
- Analyze site-level energy efficiency trends using power-versus-throughput visualizations to understand how energy usage correlates with network load over time.
- Visualize the site's network fabric and compare devices across energy, emission, and thermal metrics.
- Identify top devices in the site across key energy dimensions such as energy consumption, throughput, fan speed, and temperature deviation and evaluate their contribution to overall site energy usage.
- Review the site's annual energy report to access actual and historical energy data and AI-generated energy forecasts and use it to support your organization's SBTi planning and sustainability reporting.

[See, [View Sustainability Insights for a Site.](#)]

Actionable Energy Insights for Devices

The **Device-Level Energy Dashboard** provides granular visibility into the energy usage of individual network devices in your data center. The dashboard includes four dedicated views to help you monitor device behavior, detect inefficiencies, and improve device-level power utilization.

- Use the **Overview** tab to view a device's real time and historical power usage, energy consumption, GHG emissions, power cost, and historical power and throughput trends. Review per port peak and off-peak traffic patterns to identify idle or underutilized ports.
- Use the **Power Supply** tab to monitor a device's power module health, redundancy, input-feed status, and device's power capacity and utilization.
- Use the **Thermal Profile** tab to track a device's temperature trends, fan activity, top thermal sensors by deviation, and power trend impact on cooling.
- Use the **Recommendation** tab to review data-driven, device-specific energy optimization suggestions that highlight opportunities to reduce idle power draw and improve sustainability.

[See, [View Sustainability Insights for a Device.](#)]

Configure Port Utilization Threshold

You can configure percentage-based utilization thresholds to classify device ports as Low, Medium, or High utilization. Thresholds apply globally by default, and can be overridden by configuring port threshold at the site level for specific sites. The system provides default thresholds inferred from historical traffic and usage patterns, which administrators can customize as needed. The threshold values are used to render per-port traffic heatmaps and to generate accurate port-level energy optimization recommendations.

To configure port threshold at the organization-level, **Organization > Settings > Port Traffic Threshold**.

[See, [Configure Port Threshold for the Organization.](#)]

To configure port threshold at the site-level, **Organization > Site Configuration > Port Threshold**.

[See, [Configure Port Threshold for the Site.](#)]

Recommendations to Optimize Energy Consumption

Juniper Data Center Assurance provides port-level energy optimization recommendations for network devices. These recommendations help conserve energy, reduce carbon emissions, and save on operational costs. The following two energy optimization recommendations are available in the current release.

- **Optimize low-traffic ports based on historical traffic patterns**—The *Low-Traffic Port Optimization* recommendation identifies ports with consistently low utilization based on historical traffic patterns. It provides actionable guidance, including observed low-traffic windows and relevant configlet-based actions to safely disable ports and reduce idle power consumption.
[See, [Optimize Low Traffic Ports Based on Historical Traffic Patterns.](#)]
- **Optimize energy consumption by shutting down unused ports**—The *Device Port Power Optimization* recommendation identifies unused ports on a device based on operational state and traffic patterns. It provides actionable guidance, including associated benefits and risks, along with relevant configlet-based actions, to safely disable ports and reduce idle power consumption.
[See, [Optimize Energy Consumption by Shutting Down Unused Ports.](#)]

Annual Energy Report for Sustainability Planning

The **Annual Energy Report** provides a consolidated view of an organization's energy performance for the current calendar year. It combines actual usage, historical trends, cumulative yearly metrics, and AI-based forecasts to help track energy consumption, GHG emissions, and energy cost over time.

The report is available at both organization and site levels. Use the report to support your sustainability planning, assess alignment with Science Based Targets initiative (SBTi) goals, and enable consistent reporting across sites and the organization.

[See, [Review the Annual Energy Report.](#)]

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New and Updated Features

This section describes the new and updated features released in Juniper Data Center Assurance.

View Contract Details for Your Devices

You can view contract information for your devices from the Contracts dashboard (**Organization > Admin > Contracts**).

The dashboard provides a unified view of support contract coverage across all Juniper devices associated with your organization. You can quickly access contract details, monitor overall support posture, and identify devices that may require attention. Use this dashboard to efficiently track contract coverage and plan renewals across your device inventory.

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

JSI Rendering Reorganization

The JSI rendering has been reorganized as follows:

- The Installed Base (Organization > Admin > Inventory > Installed Base) provides a unified view of all Juniper assets associated with your organization, including key hardware and software lifecycle milestones.

[See [View and Manage Installed Base](#).]

- The Contracts page (Organization > Admin > Contracts) centralizes support contract information for your assets. This view provides you with visibility into contract coverage, expirations, and help plan renewals.

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

- The Support Insights page (Organization > Admin > Support Insights) consolidates SIRT advisories (security vulnerabilities), PBNs (bug notifications), and alarms generated on onboarded devices. This view helps you monitor device health and evaluate support risks and assist with planning preventative or corrective actions.

[See [About the Support Insights Page](#).]

October 27, 2025

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New and Updated Features

This section describes the new and updated features released in Juniper Data Center Assurance.

Import Add-ons from The DC Hub

You can import and install add-ons from the DC Hub to enhance various Apstra features. These add-ons contain pre-configured components from various repositories that extend and enhance your Apstra deployment.

The DC Hub is a comprehensive platform that allows you to browse, import, and manage add-ons for Apstra. Through the Hub, you can browse available add-ons and import them directly onto your Apstra environment to add custom functionality for your specific requirements.

You can import an AnalyticsPack to deploy dashboards for more in-depth network insights. You can also import a FeaturePack that provides enhanced capabilities for specialized use cases.

[See [DC Hub Overview](#).]

Set Preferred Portal for Organization-Level Application Access

Administrators can set a preferred application portal for the organization.

This setting determines which portal users are redirected to when they log in through an Identity Provider (IdP). By specifying a primary portal, admins can streamline user access to the most relevant business application for the organization.

[See [Set a Preferred Portal for an Organization](#).]

View Support Status of Your Devices from the Installed Base

You can view the support status of your devices from the Installed Base tab in JSI. Devices with an active support contract are recognized as Supported and are eligible for JTAC services. Devices with an expired support contract are marked as Unsupported and may not be eligible for JTAC services.

Monitoring the contract status helps you ensure that your devices remain eligible for JTAC services and allows you to prioritize renewals before contracts expire. Use this feature to track support coverage across your inventory, identify devices with expired contracts, and prioritize renewals.

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

Change in Feature Name for Service Awareness

The Service Awareness feature has been renamed to **Application Awareness**. To access the Application Awareness feature, click **App Aware** from the main navigation pane.

[See [Application Awareness Overview](#).]

August 29, 2025

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New and Updated Features

This section describes the new and updated features released in Juniper Data Center Assurance.

Monitor Health and Metrics for Apstra Flow Servers

You can view operational insights about the performance of flow servers associated with the controllers. The Apstra Cluster Health widget on the Dashboard page displays the total number of controllers within an Apstra cluster in the entire organization or a site group.

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

Support for Multiple Apstra Flow Servers for an Apstra Edge

A single Apstra Edge device can be configured to collect flow data from multiple Apstra Flow servers, each connected to different sites within the data center network. You can assign a dedicated flow server to each individual site, or configure a single flow server to receive data from a group of sites. When you adopt an Apstra Edge device on DC Assurance, you can also configure all the associated flow servers managing the sites in the network to the Edge device.

[See [Adopt Juniper Apstra Edge](#).]

Support for Virtual Infra Health SLE

DC Assurance enables you to monitor and respond to anomalies in the virtual infrastructure in your data center. The Virtual Health Infra SLE provides information about config mismatch and hypervisor redundancy.

To obtain metrics about the virtual infrastructure in your data center, you must configure vCenter when you adopt Apstra Edge.

[See [Service Level Expectations Overview](#).]

Change in Navigation to Impact Analysis Page

Navigation to the Impact Analysis page has changed. The Impact Analysis page has been moved under **Assurance** menu. To access the Impact Analysis page, click **Assurance** > **Impact Analysis**.

[See [Impact Analysis Overview](#).]

Predictive Analytics (Beta)

As a network administrator, you can prevent potential anomalies and device failures in the network by utilizing the insights provided by the ML-based predictive analytics. The ML models analyze historical data points, predict future metrics, and recognize outliers in the forecasted data. This enables you to quickly take actions to prevent potential issues and avoid disruptions.

The Predictive Analytics feature identifies the services and clients that would be impacted by the forecasted outliers. It also displays the historical, current, and future metrics for specific devices in the topology.

Predictive Analytics can forecast and identify outliers related to system health with the device CPU and memory utilization metrics.

[See [Predictions Overview](#).]

June 16, 2025

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New Features

This section describes the new features released in Juniper Data Center Assurance.

WCAG 2.1 Compliant Dashboard

The dashboard in Juniper Data Center Assurance is compliant with the [Web Content Accessibility Guidelines 2.1](#) (WCAG) from the [World Wide Web Consortium](#) (W3C) to make it more accessible to a wide range of audiences, including users viewing with assistive tools.

You can use a combination of screen readers and keyboard shortcuts to navigate the dashboard.

[See [Accessibility on the Dashboard](#).]

Enhancements to Pre-flight Checks

The pre-flight check feature has been enhanced with additional tests to verify whether the following configurations are done in Apstra Data Center Director:

- **Stream Receivers Creation Check**—checks whether the alerts and perfmon stream receivers are present and connected in Apstra Data Center Director.
- **Apstra Flow Server Connection Check**—checks whether the Apstra Edge device and the Apstra Flow Server are connected.
- **Time Stamp Check between Apstra Flow Server and Juniper Data Center Assurance**—checks whether the system times on the Apstra Flow Server and Juniper Data Center Assurance are in sync.
- **SLE Probes**—checks whether additional probes such as BGP Monitoring, EVPN Host Flapping, Optical Transceivers, and so on are enabled on Apstra Data Center Director.

The pre-flight checks enable you to proactively identify and address issues that might affect DC Assurance feature functionality.

[See [Verify DC Assurance Setup](#).]

AI-assisted Issue Resolution with Marvis

Use our AI-powered conversational assistant, Marvis, to proactively resolve issues without having to create a support request.

Before you proceed to create a support ticket, start a conversation with Marvis to get instant assistance with troubleshooting and resolving issues. You can either use a prompt template to begin the conversation or enter a custom query. Marvis scans a range of documentation and generates tailored responses, suggest related questions, and provide links to relevant support resources to help you troubleshoot, configure, or understand features instantly without waiting for human assistance. You can ask follow-up questions to refine the search results and get additional clarifications.

With the help of Marvis, you can try to resolve issues, reduce the need to create support tickets, and accelerate the time to resolution. You also have the option to provide feedback on your experience with the AI-assisted issue resolution process.

To access this feature, navigate to the **Help** menu (?) on the top-right corner of the banner, click **Support Tickets > Create a Ticket > How can I help you today?**.

If your issue needs deeper investigation and require assistance from the support team, you can proceed to create a support ticket at any time.

[See [Create a Support Ticket](#).]

Enhancements to Device Inventory Access and Permissions

Juniper Data Center Assurance provides detailed information about the devices managed by all the Apstra instances connected to DC Assurance. Access to the inventory information depends on your user role and permissions.

A user with the Observer or Network Admin role who has access to specific sites can view device inventory by clicking **DC Edges** or **DC Switches** on the main menu.

A user with the Super User or Network Admin role who has access to all sites in the organization can view device inventory by navigating to:

- **Organization > Inventory** on the main menu
- **DC Edges** or **DC Switches** on the main menu

A superuser or network administrator who has access to all sites can also perform the following actions from the **DC Edges** page:

- adopt an Apstra Edge device
- register an Edge device
- run pre-flight checks on the Edge device or its blueprints

[See [DC Edges](#) and [DC Switches](#).]

April 30, 2025

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New Features

This section describes the new features released in Juniper Data Center Assurance.

Verify DC Assurance Setup

You can use the pre-flight check feature to verify whether the required configurations are done in Apstra Data Center Director. You can use the pre-flight check results to resolve issues such as the Edge device running incorrect software version, probes not enabled on Apstra Data Center Director, and so

on. Running the pre-flight checks enables you to proactively identify and address issues that might affect DC Assurance feature functionality.

You can run the pre-flight checks at any time after DC Assurance is set up and the Edge device is onboarded to check whether all configurations are as required.

[See [Verify DC Assurance Setup](#).]

April 2, 2025

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● [New Features](#) | 25

New Features

This section describes the new features released in Juniper Data Center Assurance.

Support for Fabric Health SLE

DC Assurance enables you to monitor the health of the data center fabric. The Fabric Health SLE provides information about the health of physical and virtual infrastructure, which includes the state of BGP sessions, connectivity among leaf, spine, and superspine, and route selection.

An administrator can use this information to proactively respond to network issues that impact end user experience.

[See [Service Level Expectations Overview](#).]

View Insights from Superspines in the Data Center Network in Topology Views

Juniper Data Center Assurance provides insights about the performance of the superspines in the data center. You can view actionable insights about the 5-Stage data center fabric on the **Service Aware**, the **Impact Analysis**, and the **Dashboard** pages.

The 5-stage Clos architecture is a data center network design similar to the 3-stage architecture with the exception of a superspine layer. This additional layer of superspine devices interconnects multiple pods consisting of spine-and-leaf layers, creating a large network.

[See [Data Center Network Topologies on DC Assurance](#).]

Monitor the Health and Connectivity Status of Virtual Devices

DC Assurance helps you monitor the health and connectivity of virtual devices in the data center network. Two additional events - **VM Resource Health Issue** and **Network Connectivity Lost** - have been added to the event type **Virtual Infra** in **Marvis Actions**, which enable you to monitor the virtual devices. You can find more information about these events in the **Anomalies** pane on the **Dashboard** and **Impact Analysis** pages.

[See [Key Anomalies in Impact Analysis](#).]

Enhancements to the Dashboard Access and Permissions

The **Dashboard** page on Juniper Data Center Assurance provides operational insights about the performance of the data center network. A superuser can assign predefined roles of **Network Admin** or **Observer** to a user and manage their access to the sites in the organization. The Network Admin or the Observer can use the Dashboard to view aggregated information about the sites that they have permission to access by choosing one of the following views in the **Org** drop-down:

- An individual site
- A site group
- All the sites that the user has permission to access

To view this page, click **Dashboard** from the main menu.

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

View Summary Reports for Your Juniper Networks Assets

You can view a set of reports that summarize support insights at the organizational level, in addition to viewing support insights on a per-device basis within your organization. The reports provide data-driven, actionable insights into the overall operational health of the devices in the network.

You can use the reports to:

- View network assets
- Track operational status of the assets
- Manage support contracts
- Streamline hardware and software lifecycle management
- Identify and access security vulnerabilities and potential issues that may impact the assets

These reports can assist you to make informed decisions and plan support activities to proactively address potential issues in the network, thereby minimizing operational impact.

To access the summary reports, navigate to **Organization > Support Insights** or **Organization > Inventory > Installed Base > Support Insights**.

[See [About the Support Insights Page](#).]

Authorized Access to Customer-centric Information

Juniper Data Center Assurance validates users before providing access to customer-centric information about your devices. The user credentials are validated through the Juniper Support Portal to prevent unauthorized access to device information. Once validated, the user is granted access to customer-centric information that the user is entitled to access.

To validate your user account, navigate to **Organization > Inventory > Installed Base** or **Organization > Support Insights > Assets & Contracts**. Click **Validate Email ID** and enter your account credentials. If Juniper Data Center Assurance finds your credentials to be invalid or not registered, you are prompted to enter the correct credentials or register your credentials with Juniper through the [Juniper Support Portal](#).

[See [Validate Your Juniper Account Overview](#).]

View and Manage Support Requests

The Support Tickets feature enhances your overall support experience by providing seamless access to Juniper support services, whenever you need them. You can now easily report issues, get assistance, and track the status of the issues directly from within the application. To access the Support Tickets Page, navigate to the **Help menu (?)** on the top-right corner of the banner and click **Support Tickets**.

[See [About the Support Tickets Page](#).]

March 7, 2025

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New Features

This section describes the new features released in Juniper Data Center Assurance.

Upgrade Apstra Edge from DC Assurance

DC Assurance enables you to upgrade Apstra Edge remotely whenever a newer version of the Apstra Edge software is available. To use the newer features and updates released in DC Assurance, you must ensure that the Apstra Edge has the latest version of the edge software installed.

You can upgrade Apstra Edge from the **Data Center** tab on the **Organization > Inventory** page. To perform remote upgrade, you must be a user with the superuser role.

[See [Upgrade Apstra Edge from Juniper Data Center Assurance](#).]

Enhancement to Impact Analysis Feature

The Impact Analysis feature has been enhanced to provide information about additional anomalies. When an Apstra Edge device is onboarded, the Impact Analysis feature helps detect anomalies in the data center network with the help of predefined IBA probes. It displays detailed information about the key anomalies along with a list of their associated anomalies, symptoms, affected devices, interfaces, services, Virtual Networks, and VRFs on the **Anomalies** tab on the **Impact Analysis** page. This enables you to quickly identify the root cause of an issue and resolve it, thus reducing the mean time to resolution (MTTR).

[See [Key Anomalies in Impact Analysis](#).]

Provide Feedback About DC Assurance

DC Assurance enables you to provide your feedback about Juniper Data Center Assurance and Apstra Data Center Director. Click the **Feedback** icon on the top right corner of the Juniper Data Center Assurance GUI to access the feedback form. You can use this form to submit your feedback, comments, and suggestions.

[See [Provide Feedback About DC Assurance](#).]

Validate DC Assurance Setup

You can verify the health and connectivity of the devices and services in the data centers managed by Apstra Data Center Director using the Juniper Data Center Assurance Setup Validation Tool.

[See [Download and Run the Juniper Data Center Assurance Setup Validation Tool](#).]

January 27, 2025

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New Features

This section describes the new features released in Juniper Data Center Assurance.

View VMs in the Data Center Network in Topology Views

Juniper Data Center Assurance enables you to monitor the VMs deployed in the data center. To enable VM visibility in topology views, you must configure vCenter server information on the Adopt Apstra Edge page.

After the details for vCenter are configured, you can view information about the VM layer on the Service Aware, the Impact Analysis, and the Dashboard pages. You can configure multiple vCenter details.

[See [Adopt Juniper Apstra Edge](#).]

View SLE Information

Juniper Data Center Assurance provides information about compliance with defined service levels. The SLE score of an organization, site, or a device indicates whether they were able to meet the defined threshold for service levels. The classifiers and sub-classifiers provide information about the factors that contribute to the SLE score. This information enables administrators to respond proactively to issues that are affecting the user experience.

To access SLE information, click **Monitor > Service Levels**.

[See [Service Level Expectations Overview](#).]

Licensing Information for DC Assurance Features

You can view information about the features that you are entitled to use from the Subscriptions page. You can access the licensed features in DC Assurance if you have an active Apstra Data Center Director license. To view licensing information in DC Assurance, you must link your Juniper Networks account in the **Juniper Account Integration** tile on the **Organization > Settings** page.

To access licensing information, click **Organization** > **Subscriptions**.

[See [Juniper Data Center Assurance Licensing](#).]

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November 11, 2024

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New Features

This section describes the new features released in Juniper Data Center Assurance.

Search About Juniper Products and Services Using Marvis CI

Marvis Conversational Interface (CI) enables you to quickly search about Juniper Networks products and services. Marvis CI is designed to provide quick, relevant, and contextually aware responses to your queries, whether the queries are about Juniper products and features or for troubleshooting information.

Marvis CI serves as the first-level assistant to address your queries using dialog-based interactions and natural conversational flow. You can ask questions in natural language and quickly get responses and step-by-step guidance to troubleshoot issues or perform various tasks. In addition, you can ask follow-up queries and clarifications to refine your initial query and resulting response. Marvis CI also provides links to relevant resources that provide more information.

[See [Marvis AI Assistant Overview](#).]

September 26, 2024

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This section describes the new features released in Juniper Data Center Assurance.

New Features

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Dashboard

Juniper Data Center Assurance dashboard provides operational insights about the performance of the data center network and the hosted services. These insights enable network administrators to proactively respond to events and anomalies that impact end user experience.

The dashboard is highly customizable and you can choose the widgets to be displayed and their layout. You can also create a custom dashboard to monitor specific insights according to your network's requirements. The information provided in the dashboard includes site information, impact analysis, inventory, and key anomalies in the devices, and the services. The **Anomalies** panel provides a list of anomalies that are generated in the site you selected.

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

Service Awareness

The Service Awareness feature provides a graphical representation of how services utilize the data center network. The service awareness feature provides a network resource-to-service mapping of the data center network and the services. This enables administrators to monitor the performance of the services and the devices to which the services are attached.

The Service Aware page displays services grouped by throughput, volume of data transferred, and by the number of connections. The Topology view helps administrators to identify anomalies in the devices that might impact the services. The flow view enables you to monitor traffic pattern between the data center devices.

[See [Application Awareness Overview](#).]

Impact Analysis

The Impact Analysis feature enables administrators to proactively identify and resolve network issues that can impact end user experience. The Impact Analysis feature provides a graphical representation of the network infrastructure along with the path that the service traffic takes.

The network topology provides information about how nodes in the data center are connected to the clients, how application traffic is handled, and how an anomaly in a node can impact application traffic. Also, you can simulate failure scenarios and identify how failure of a device can impact the services attached and the clients connected to that device.

These visualizations enable network administrators to proactively identify potential impact that a link failure can have on service traffic.

[See [Impact Analysis Overview](#).]

Device Inventory

You can view detailed information about the devices managed by all the Apstra instances that are connected to Juniper Data Center Assurance. The Inventory page provides:

- Information about the devices in the organization that are managed by Apstra Data Center Director
- The total number of devices in the organization, grouped by their device models

You can filter the devices by site or view all the devices in the organization.

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

Enhancement to Edge Adoption Process

Juniper Data Center Assurance provides flow data information from the Apstra instance. You must configure Apstra Flow server information about the Adopt Apstra Edge page. Also, you should enable sFlow in the data center devices.

After Flow Server information is configured, you can view information about the data center network topology, hosts and endpoints, services, and anomalies, if any, on the Service Aware and the Impact Analysis pages.

[See [Adopt Juniper Apstra Edge](#).]

April 5, 2024

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- [Access Apstra Data Center Director to Troubleshoot Events | 34](#)
- [Monitor Data Center Events from Mist | 34](#)
- [Search Documentation Using Marvis Conversational Interface | 34](#)
- [Configure Alert Notifications | 34](#)

This section describes the features in Juniper Data Center Assurance.

Analyze Data Center Events Using Marvis Actions

Juniper Data Center Assurance utilizes the AIOps capability of Marvis AI Assistant for Data Center to receive, analyze, and perform root cause analysis of data center events and anomalies. Marvis AI Assistant displays the events received through the Apstra Edge component in a data center managed by Apstra Data Center Director in the Marvis Actions dashboard along with recommended actions to resolve the event.

As an administrator, you can review the event and access Apstra Data Center Director to troubleshoot and resolve the event.

[See [View Data Center Events in Marvis Actions](#).]

Access Apstra Data Center Director to Troubleshoot Events

As an administrator, you can access Apstra Data Center Director to troubleshoot and resolve data center events that are displayed in the Marvis Actions dashboard in Juniper Data Center Assurance.

To enable access to Apstra Data Center Director from Juniper Data Center Assurance, you need to adopt the Apstra Edge component, which is a virtual device that runs within a container in the data center. After Apstra Edge is adopted and the registration ID configured in Apstra Edge, you can start accessing Apstra Data Center Director from Juniper Data Center Assurance.

[See [Access Apstra Data Center Director from Juniper Data Center Assurance.](#)]

Monitor Data Center Events from Mist

If your enterprise network is managed using Mist and data center using Apstra Data Center Director, you can monitor data center events from Mist by linking the organization in Mist with the organization in Juniper Data Center Assurance. After the organization ID and API Token are configured in the **DC Assurance Integration** section on the Organization Settings page in Mist, you can view the total number of data center events in the **Data Center/Application** tile on the Marvis Actions page in Mist.

You can view more information about the events by accessing Juniper Data Center Assurance by clicking **Data Center/Application**. Juniper Data Center Assurance opens in a new browser window or tab.

[See [Monitor and Troubleshoot Data Center Events from Mist.](#)]

Search Documentation Using Marvis Conversational Interface

As a network administrator, you can use Marvis conversational interface (CI) to quickly search for information about events or network issues in Apstra Data Center Director Documentation. Marvis CI supports natural language processing (NLP) and you can ask queries in natural language. You can use the answers Marvis CI generates to resolve network issues faster without having to rely on multiple resources for the required information.

This feature is provided as a technology preview. For more information about technology previews, see [Apstra Data Center Director Technology Preview](#).

[See [Search About Juniper Products and Services Using Marvis AI Assistant.](#)]

Configure Alert Notifications

You can configure Juniper Data Center Assurance to generate and send alert notifications when an event or alert is generated. You can:

- Specify alert types for which alerts should be generated.

- Configure an alert template to display only those alerts that are tracked in the template.
- Configure E-mail Recipient Settings to receive alert notifications in e-mail.

You can use these insights to respond to network events and anomalies in a proactive manner.

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

Known Issues

This section lists the known issues in Juniper Data Center Assurance.

- In the **Impact Analysis** and **App Aware** topology views, the device details pane does not display traffic data for AE interfaces. Instead, it displays "0" in the metrics columns.

Workaround: None.

- In the device selection drop-down list on the **Energy** page, an entry "--" appears among the list of devices and displays empty page when clicked.

This is known behavior with no performance impact, and might be resolved in a future release.

- In the **Site-level Energy Dashboard**, the **Power vs Throughput** graph does not display the latest time.

This is known behavior with no performance impact, and might be resolved in a future release.

- When the "Link Status Mismatch" anomaly occurs, the total count of services that were impacted when the link went down is displayed in the **Anomalies** tab. The count of impacted services in the Anomalies tab might not match the number of services displayed in the topology until the link is up again.

Workaround: None.

- In the alerts generated before onboarding Apstra Edge, the device name is displayed as **unknown**. However, alerts generated after onboarding the edge are displayed along with the corresponding device name.

Workaround: None.

- When the same type of alert is generated multiple times, the alert count displayed in the **Recurrence** column on the Alerts page takes a few minutes to get updated. However, the alerts are displayed immediately on the Alerts page with the recurrence count as 1.

Workaround: None.

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