

APSTRA DATA CENTER DIRECTOR AT A GLANCE

Private data center as easy as cloud

Benefits

Insights

Collect and analyze every relevant data point with Data Center Director's comprehensive telemetry, advanced analytics, and Flow Insights.

Speed

Reduce time to service from weeks to just hours by building a complete data center in software that's ready for service as soon as switching hardware is deployed. And automate Day 2 configuration tasks to improve service provisioning time by as much as 20x.

Reliability

Automatically generate correct vendor-specific configurations based on your intent, pre-validate every change, and continuously validate network state. Data Center Director minimizes the opportunity for human error and improves network and application availability.

Rethink private data center operations

In today's rapidly evolving business landscape, all organizations must embrace innovative business models and swiftly deliver new services to maintain a competitive edge. Networking teams need to rapidly design, deploy, and manage their data center networks while ensuring high reliability. However, this task is becoming increasingly daunting, given the burgeoning volume of distributed data, increasing pace of application change, scarcity of skilled experts, and the complexity of data center networks.

Apstra Data Center Director empowers service providers and enterprises to manage their private data centers with the same simplicity as running cloud-based infrastructure. With Data Center Director's fabric management and full lifecycle automation, customers can navigate and configure their data center with reduced complexities. Data Center Director's advanced analytics, telemetry, and flow data give you complete network and application visibility and provide the foundation for the AIOps capabilities in Juniper Data Center Assurance. Moreover, Data Center Director seamlessly integrates with other cloud management tools and services—such as Terraform and Ansible—allowing data center ops teams to leverage technologies of their choice. Together with Juniper Validated Designs and templates, customers can trust that their data center network operation is reliable and consistent. Data Center Director's combination of unique features unlocks efficiency, scalability, and insights, speed, and reliability for private data centers from a single control point.

Accelerate positive business outcomes

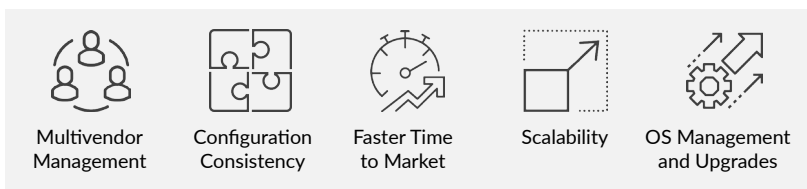
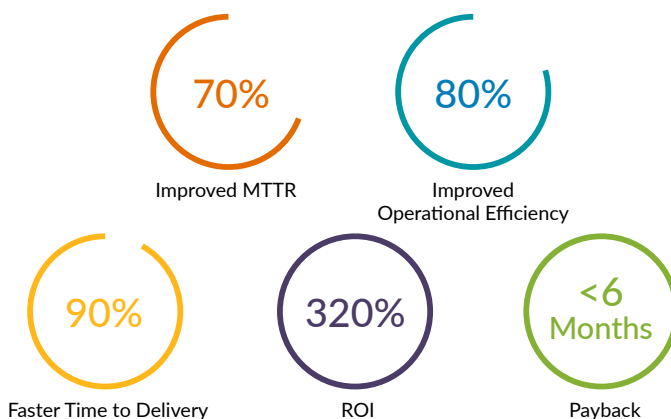


Figure 1: Benefits are seen throughout the full networking lifecycle.

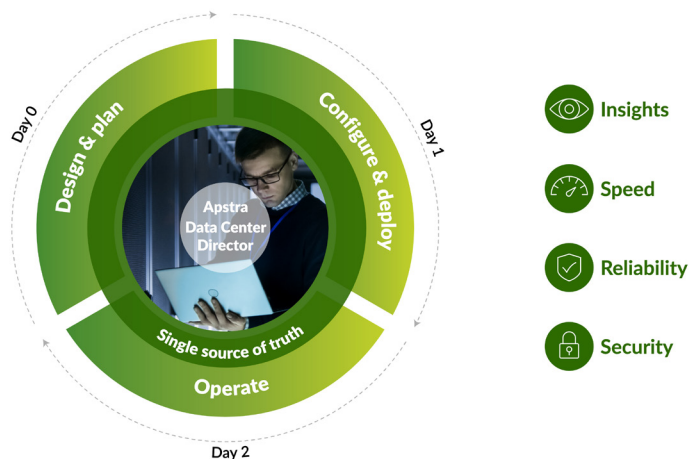


Figure 2: Single management for reliable Day 0, Day 1, and Day 2 operations

Full lifecycle management from Day 0 design through Day 2 operations

Design, deploy, and operate your data center network with a single management tool, regardless of the hardware vendor. The entire single or multivendor network is continuously validated against the intended outcome based on a single source of truth, providing consistent data that reduces the risk of siloed teams working with different, inconsistent information. Data Center Director allows operators to design and specify desired business outcomes—the intent—while the advanced automation promptly establishes and ensures network operations align with the intended design.

Data Center Director's proactive approach alerts and self-remediates any potential brownouts or deviations, streamlining the process with an intent-based network technology that turns the “what” specified into the delivered “how.” Data Center Director simplifies Day 2 operations by providing pre-change analysis, continuous validation, incident management, change management, compliance, and audit tracking, as well as maintenance-mode capabilities to shorten maintenance windows. The Time Voyager feature stores configuration history, making it easy to revert to a previous network state all at once (even in a multivendor environment) if a change (new configuration, software update, etc.) causes unexpected issues.

Ensure operations run reliably and consistently

Data Center Director blueprints are repeatable and continuously validated, ensuring that your configurations are done correctly from the first time and every time. When changes need to be made, customers can simply specify desired business outcomes through a declarative model. The platform seamlessly takes charge of the configurations, streamlining data center networking with unparalleled

efficiency and accuracy. When coupled with Data Center Director's high scalability, new services can be set up quickly and reliably, instilling confidence in a network that remains consistent, secure, and resilient across core and edge locations.

Avoid vendor lock-in with multivendor support

Multivendor capabilities provide customers with powerful strategic flexibility. Apstra supports the industry's widest range of hardware and software vendors, including open standards-based offerings. This means you have the flexibility to choose the desired hardware and software that fits your strategy. Apstra provides an abstraction layer based on logical designs across vendors, so networking teams do not waste time learning multiple automation tools. Instead, they can focus on innovating to deliver even greater business success.

Network visibility for better performance

Data Center Director provides advanced analytics, telemetry, and flow data so you gain granular visibility into the entire network. With flow data, you get complete network visibility across vendors for in-depth analysis of traffic patterns, performance optimization, security enhancement, regulatory compliance, capacity planning, and cost control.

Flexibility: any topology, any network design

While Data Center Director provides a curated experience for operators with strong guardrails and powerful automation capabilities, some organizations possess unique deployment requirements that demand more flexibility and choice with certain protocols, features, and architectures. The [Apstra Data Center Director Freeform reference design](#) delivers flexibility and choice. With Freeform, automation DIYers and DevOps experts can exert more control over the network design of their choice.

Start your automation journey today

Data Center Director's intent-based networking automation delivers the reliability, simplicity, and scalability you need to deliver a better networking experience. For more information about Apstra Data Center Director, please visit <https://www.juniper.net/us/en/products/network-automation/apstra-data-center-director.html>.

About Juniper Networks

Juniper Networks believes that connectivity is not the same as experiencing a great connection. Mist™, Juniper's AI-native networking platform, is built from the ground up to leverage AI to deliver exceptional, highly secure, and sustainable user experiences from the edge to the data center and cloud. Additional information can be found at [juniper.net](https://www.juniper.net) or connect with Juniper on [X](#) (formerly Twitter), [LinkedIn](#), and [Facebook](#).



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