JUNIPER APSTRA AT A GLANCE

Private data center as easy as cloud

Benefits

Reliable

Get reliable automation and intent-based network operations from Day 0, Day 1, Day 2, and beyond. Your network is continuously validated against the intended design using a "single source of truth" for superior customer experience and uptime.

Experience First

Deploy and scale quickly and reliably and significantly reduce time to market-all with proven ROI. You specify the business goal, and Juniper Apstra ensures correct configuration across the network.

Multivendor

Realize complete life-cycle management regardless of the hardware vendor. Gain unprecedented flexibility and control.

Secure

Safeguard users, applications, data, and infrastructure across public, private, and hybrid clouds with a comprehensive security portfolio that ensures zero trust data center architectures.

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.

Juniper® Apstra empowers service providers and enterprises to manage their private data centers with the same simplicity as running cloud-based infrastructure. With Apstra intent-based automation capabilities and intuitive design, customers can navigate and configure their data center with reduced complexities. The inclusion of telemetry and flow data capabilities provide valuable insights to ensure optimal network performance and enable proactive troubleshooting. Moreover, Apstra 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. Apstra's combination of unique features unlocks efficiency, scalability, and streamlined management for private data centers from a single control point.
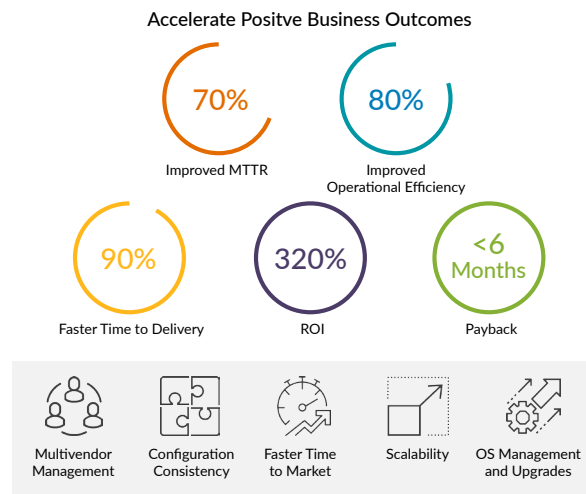
Accelerate Positve Business Outcomes

70% — Improved MTTR
80% — Improved Operational Efficiency
90% — Faster Time to Delivery
320% — ROI
<6 Months — Payback

Multivendor Management | Configuration Consistency | Faster Time to Market | Scalability | OS Management and Upgrades

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

Single Management Platform from Day 0 Through Day 2

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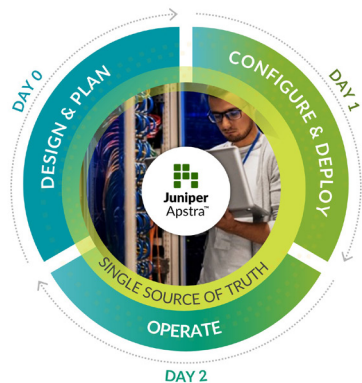
Figure 2: Single management for reliable Day 0, Day 1, and Day 2 operations

Apstra'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." Apstra 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

Apstra 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 Apstra'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

Apstra provides intent-based analytics (IBA) 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 the **Apstra reference designs** provide 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 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

Apstra intent-based networking software delivers the reliability, simplicity, and scalability you need to deliver a better networking experience. For more information about Juniper Apstra, please visit **www.juniper.net/apstra**.

About Juniper Networks

At Juniper Networks, we are dedicated to dramatically simplifying network operations and driving superior experiences for end users. Our solutions deliver industry-leading insight, automation, security, and AI to drive real business results. We believe that powering connections will bring us closer together while empowering us all to solve the world's greatest challenges of well-being, sustainability, and equality.