

Multivendor, Intent-Based Networking with Juniper Apstra

Learn more about how Apstra empowers organizations to automate and manage their networks.

Operate reliably and consistently from Day 0 through Day 2+

[See the solution →](#)

The challenge

Automating the data center network

Network automation solutions tend to be complex, proprietary, and bad at adapting to evolving technologies and business needs. This hinders consistent and reliable operations over time, resulting in slow time to market, poor customer experience, and costly downtime.

The capabilities you need

A refined approach to modern data center operations

Juniper Apstra is a data center fabric management solution that enables reliable and consistent operations for Day 0 through Day 2+, scales for innovation, and embraces AI—no matter your vendor mix.

320%

ROI

<6 months

payback
(on average)

Reliable Day 0 through Day 2+ operations

Apstra provides a single management platform from which network operators can design, deploy, and operate data center networks.

Multivendor support for strategic flexibility

Apstra provides vendor-agnostic, intent-based networking that supports a range of hardware and software vendors, including open standards-based offerings.

Speed through reliability

Apstra's blueprints-based prescriptive approach accelerates time to deployment reliably and consistently and reduces mean time to resolution (MTTR)

The answer: Juniper Apstra

Operate and innovate at the speed of the market

Juniper Apstra software automates and validates the design, deployment, and operation of data center networks from Day 0 through Day 2+. Apstra Cloud Services, a suite of AI-Native, cloud-based applications for AI operations (AIOps), works with Apstra's intent-based networking to expand data center assurance solutions from network assurance to application assurance, and deliver an unbeatable data center operations experience.

How it works

Automate the full life cycle of your data center network

Apstra's intent-based data center network automation increases application reliability, simplifies deployment and operations, and dramatically reduces costs for enterprises, cloud service providers, and telco data centers.

Intent-based networking design and operations

Automate network deployment and operations from Day 0 through Day 2+ with a complete, end-to-end solution for any vendor, any topology, and any data center.

Life cycle management

Remove the silos between network designers and operators and enable your IT team to plan, design, deploy, and operate the entire network in a single management platform.

Complete multivendor network visibility

Gain deep visibility into the health and performance of multivendor devices and application flows traversing the network for performance monitoring, capacity planning, cost control, and security enhancement.

Advanced telemetry

Proactively monitor the data center network in real time with Apstra's intent-based analytics to ensure alignment with intent, enhance performance and security, and troubleshoot issues.



Additional features

Self-documentation and single source of truth	Track all intent and context-rich operational network state information in a single source of truth (SSOT) database.
Access list policies assurance	Automatically detect and resolve policy overlaps and drifts based on user settings.
Time voyager	Revert back to a previous network state in only a few clicks. Because mistakes happen.
Flow data	Enhance performance, manage costs, and ensure security and compliance with robust traffic and network flow data.
Validated reference designs and customizable designs	Design and deploy a network based on extensively tested designs to ensure quality and reliability.
Apstra Cloud Services	Move from network assurance to application assurance with cloud-based, AI-Native applications designed to address a range of data center operations challenges. Learn more here .
Integrated Data Center Interconnect (DCI)	Integrate multiple data centers into a unified private cloud with Aptra automated DCI with seamless virtual extensible LAN (VXLAN) tunnel stitching.
Third-party integrations	Enhance interoperability and workflows by integrating with HashiCorp® Terraform®, Ansible, and others.

How we deliver



Virtual-Q uses Apstra to seamlessly manage and automate their data center



Vodafone uses Apstra to ensure reliable multivendor operations

Our advantage

Juniper's automated secure data center solution

Apstra is part of Juniper's data center solution—the fastest and most flexible way to deploy high performing networks and the simplest to operate with limited IT.

Why Juniper

Juniper Networks: Driven by experience

Juniper Networks believes that connectivity is not the same as experiencing a great connection. 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 Networks (www.juniper.net) or connect with Juniper on [X](#) (Twitter), [LinkedIn](#), and [Facebook](#).

More information

Take a deep dive into Juniper Apstra

To learn more about Juniper Apstra, visit our website at <https://www.juniper.net/us/en/products/network-automation/apstra.html>

For technical data sheets, guides and documentation, visit <https://www.juniper.net/documentation/product/us/en/apstra/>

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