

APSTRA SOLUTION AT A GLANCE

Automate and validate network architecture and operations

Benefits

Reliability

Reliably automates your network deployment and operation by continuously validating changes, alerting you if anything deviates from the original intent.

Flexibility

Allows you to easily deploy and operate your network, either in a single- or multivendor environment, as a result of an open architecture design.

Agility

Provides you with a highly scalable and versatile network through advanced analytics, automation, and validation starting at Day 0.

Resource Efficiencies

Converges architect and operator roles, resulting in greater knowledge retention and more efficient use of IT resources to meet increased business demands.

Speed

Drastically reduces the time to deliver network infrastructure services and implement network change, while leveraging intent-based analytics to predict and eliminate the number and duration of network outages.

Reliably Deploy and Operate the Network

The Juniper® Apstra Intent-Based System automates and validates both the data center network's architecture as well as its operations. Employing a single source of truth, the Apstra solution continuously validates the network against expressed intent, eliminating complexity, vulnerabilities, and outages to ensure a reliable, secure, and resilient network even in the face of change.

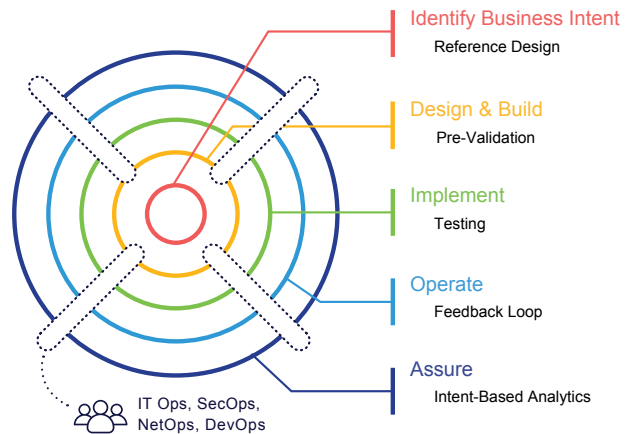
The Apstra solution uniquely converges design and operations to deliver robust deployment and operational efficiencies. It also provides compelling value to the business by eliminating traditional network constraints that force network engineering teams to choose between speed and reliability. The result is order-of-magnitude savings on downstream costs and tremendous returns on networking investments.

On average, customers realize over:

80%
Improvements in operational efficiency

70%
Improvements in MTTR (Mean-Time-To-Resolution)

90%
Faster time to delivery



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Automation
- 
Rapid Deployment
- 
Scale
- 
Reliability
- 
Operation Simplicity

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

The Apstra Intent-Based System was developed by architects and operators for architects and operators.

Architects

Data center deployments are increasingly complex, especially for manual node-by-node configurations and provisioning, potentially leading to errors, inconsistencies, and delays. The Apstra solution dramatically simplifies network implementation by supporting both single- and multi-vendor switch environments as well as a range of network operating systems. The system's open architecture allows organizations to design a network that meets their business requirements first, then select the hardware that best aligns with that design.



Figure 2: Automation improves efficiency.

The Apstra solution reduces the design and deployment process from months or weeks to just days or even hours. It extends this into operations, continuously validating changes against the network design, while predicting and eliminating changes that could impact the architect's original intent.

Network teams no longer have to decide between doing something right or doing it fast.

Operators

Operators are under constant pressure to do more with less. Stagnant or even shrinking budgets and resources, compounded by network complexity, result in delayed responses when changes occur.

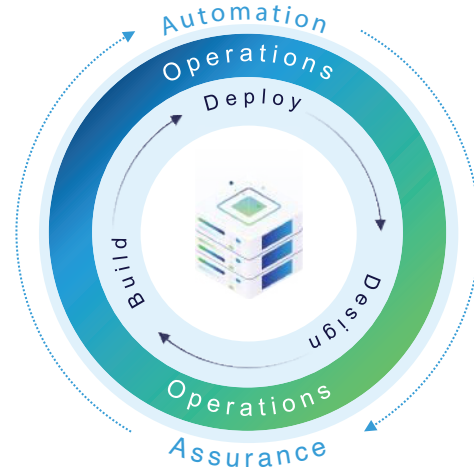


Figure 3: The Apstra solution continuously automates and validates the network.

The Apstra solution continuously validates changes, alerting teams when changes that might cause brownouts or deviations from the original intent are initiated or detected. Thanks to its unique technology, the system maintains a consistent and streamlined operational model across the infrastructure and eliminates the painful trade-off between agility and reliability. This enables data centers to continue operating and allows operators to focus on business initiatives.

About Juniper Networks

Juniper Networks brings simplicity to networking with products, solutions and services that connect the world. Through engineering innovation, we remove the constraints and complexities of networking in the cloud era to solve the toughest challenges our customers and partners face daily. At Juniper Networks, we believe that the network is a resource for sharing knowledge and human advancement that changes the world. We are committed to imagining groundbreaking ways to deliver automated, scalable and secure networks to move at the speed of business.

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