

# Juniper Apstra for Federal and Defense Networks

The optimal solution for data center situational awareness

Manage the network,  
manage the mission

[Learn more →](#)

## Continuous data center operations

## Force protection, base protection, and command and control networks

Mission-critical federal and defense environments are inherently complex and demanding. To manage the network effectively requires comprehensive insights into how authorized users are accessing resources and quick resolution of performance issues.

## The capabilities you need

## A network for any mission

Juniper Networks accelerates and de-risks IT modernization and digital transformation between disparate communications networks, including RF/Radar, Signals, Satcom, and C2/C4 systems.

Apstra converges design and operations to deliver **robust deployment and operational efficiencies.**

- **One view**  
A singular view into the relationships and interdependencies between millions of data center elements
- **Faster resolution**  
Continuous real-time validation that instantly pinpoints and quickly resolves issues across infrastructure silos
- **Any gear, anywhere**  
A complete fabric management solution, regardless of vendor, for single vendor and multivendor environments



**The answer: Apstra**

## Simplicity, reliability, and multivendor support

By seamlessly enabling network connectivity, automating operations, and securing critical data center functionality, Juniper empowers network operators to proactively manage all aspects of their data center operations with real-time telemetry and advanced network control capabilities in mission-critical environments.

**How it works**

## Hardened configurations for continuous data center operations

Juniper Apstra delivers elastic capabilities for on-premises as an “out of band” network control point for complex data center fabrics, from network design to deployment and operations.



### Single source of truth

Real-time data store collects and continuously validates network link state and telemetry parameters to ensure continuous network uptime via configuration validation and trend analysis.



### Intent-based network operations

Validates instant network rollbacks for any command line change request using embedded workflows



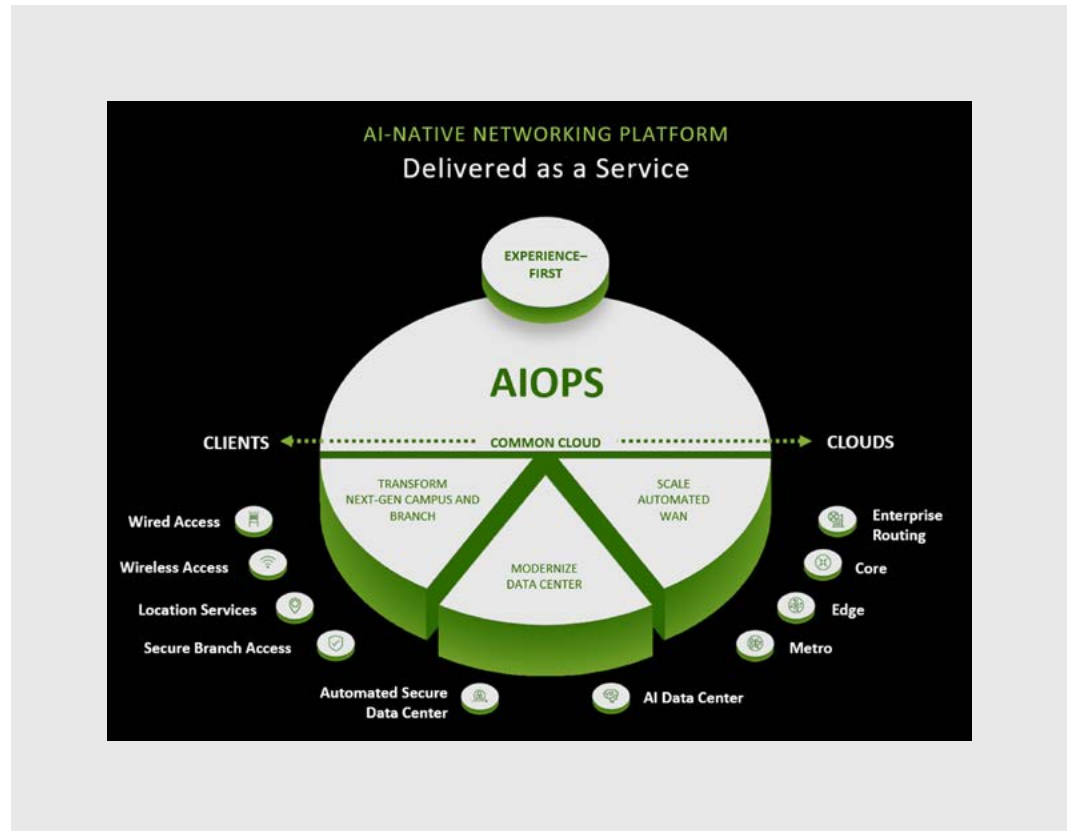
### Modeling automates architecture and operations

Apstra's intent-based modelling transforms critical data center network operations by providing simplicity, reliability, and multivendor support that automates and validates both the architecture and operations of mission critical data center networks



### Juniper SRX Secure Gateway

Blueprinted designs with multi-tenant segmentation ensures that Apstra continuously validates network functionality and aligns with operational intent while staying in compliance with command structure hierarchy, security objectives, and network policies and permissions



### Core capabilities

AI-Native Networks are **9x faster** to deploy

### Features for mission-critical operations

- A single source of truth data store
- Deployed in on-premises environment
- Simplifies complex EVPN/VXLAN/BGP routing
- Intent-based network design, deployment, and operations
- Self-documenting network blueprints and Juniper Validated Design options
- High performance secure access and policy assurance
- Flow data for advanced telemetry-based analytics
- Time Voyager for instant rollbacks to hardened safe configurations
- Multi-tenant segmentation via Juniper SRX Gateway
- Geo-location extensibility for disaster recovery
- Terraform integration for full stack automation
- Federal Information Processing Standard 140 2 (FIPS) capability
- Full and continuous audit of running vs. intended fabric configurations

## Our advantage

## Agile, reliable, measurable, and secure networks

### Total Operational Impact (TOI)

- 10x better reliability
- 90% lower operational expenditures than traditional solutions
- 85% faster deployment times
- 100% interoperable with leading fabrics and switches (Cisco, Arista, Dell)
- Network upgrade “switch drain” capability for minimal device downtime

## Why Juniper

## The NOW Way to Network

At Juniper, we're driven by experience to make every connection count. We build networks that run themselves to enable IT to focus on more important workflows and deliver personalized experiences so end users can be consistently, reliably connected when it matters most. Backed by the world's first AI-Native Networking Platform, Juniper makes every connection reliable, measurable, and secure.

## More information

To learn more about Federal and Defense networks, visit our website at [juniper.net/us/en/solutions/government.html](https://juniper.net/us/en/solutions/government.html).

## Take the next step

### Connect with us

Contact your account manager.

Reach out →

### Explore solutions

Visit the government solutions page.

[Juniper Government Solutions](#) →

### Read case studies

Real mission results for governments.

[Our case study library](#) →