

Taking on Network Challenges in Your Data Center

As someone who is responsible for designing or operating a data center, you know you need to make your network less complex and drive down costs. You are probably facing challenges such as a data center that is distributed across multiple sites and clouds, a multi-vendor network, aging equipment that no longer meets your requirements, and ever-increasing data demands. You know you need to evolve and innovate, but how do you do that without disrupting your business? First, identify your network challenges:

Increase Agility



When it's time to deploy new applications in your data center, you know that you can no longer take weeks or months to get them up-and-running—you now need a way to deploy them in hours or even minutes. And as your customers' needs grow, you know you have to grow your network with them. You have to be able to add bandwidth quickly and easily—without adding complexity.

Reduce Costs



As you consider the price of operating your data center, you need to choose equipment that will hold its value while also meeting your operating costs. You need to make sure that the equipment you buy will keep your data center running efficiently well into the future.

Enhance Network Response



In a global economy, you know that your network can never be down. It's always business hours for at least one of your offices in the world. You need to keep your data centers connected and keep data available at all times—even during power outages or other disruptions. You also need an intelligent and proactive network—one that predicts and solves performance challenges and one that self-heals when there are problems.

Reduce Risk



As you expand, you know you need to integrate security into every part of the data center so you can protect your data center assets as well as the data that passes through it.

The Juniper Networks MetaFabric™ architecture addresses all of these network challenges.

The MetaFabric architecture includes:

- Switches that are optimized for the data center, offering the perfect combination of performance, features, and flexibility needed to support any switching fabric architecture for any application
- Routers that are simple, high performance gateways with the ability to interconnect multiple data center sites, clouds, virtual, physical, and SDN workloads using standard protocols and open interfaces
- A simple, fully open and agile SDN solution that automates and orchestrates the creation of virtual networks for new services, greater business agility, and revenue growth
- Data center security solutions that leap past next-generation firewalls by adding technologies that defend, detect, and respond to targeted threats in an adaptive manner
- Smart automation and orchestration management tools that provide network visualization, analysis, and control for accelerated application delivery and higher application availability
- A diverse technology ecosystem that extends innovation from the network out to Juniper data center partners across compute, storage, virtualization, security, SDN, and orchestration
- Assessment, design, and deployment services that leverage the extensive experience of the Juniper Networks Professional Services team
- Supporting technical documentation that describes the validated designs and component products that make up MetaFabric

Juniper helps you build your data centers by providing the simple and open building blocks required to simplify deployment and migration. With this approach, you can start with whatever your business needs dictate today (whether it's security, switching architectures, data center interconnectivity, SDN, and so on) and gradually evolve and migrate while protecting your investment over time.



Simple. Open. Smart.