

# MetaFabric Services

## Service Overview

MetaFabric architecture allows customers to accelerate time to value, while simultaneously maximizing network value over time in an increasingly dynamic, application-driven world. Built on the three guiding principles of simple, smart, and open, MetaFabric enables customers to cost-effectively run their data center networks more efficiently, while retaining their investment value over time.

Juniper Networks provides a comprehensive set of services, the MetaFabric Services suite, allowing you to capitalize on your MetaFabric investment, while decreasing deployment time and risk.

## Juniper Networks Services Portfolio for MetaFabric

Businesses have invested heavily in data center enhancements in an attempt to improve operational efficiency and business agility. Those changes have increased the demand on the data center infrastructure and highlighted the requirement to optimize overall performance, reliability, agility, and scale.

Adoption of virtualization has led to highly complex workload management. As new applications are added, network complexity grows exponentially until service delivery is hampered and the user experience degrades. This impacts an organization's ability to keep up with the pace of business. Networks must, therefore, evolve to enable customers to utilize their data center resources to the fullest extent and to maximize return on network investment.

Juniper Professional Services offers a range of services to help you plan your journey to MetaFabric, as well as design and build the network for tomorrow. The MetaFabric Services provide you the flexibility of having a variety of options available including:

- MetaFabric Assessment Services—These are designed to help you develop your technology strategy and planning to address your data center architecture, network, and security requirements. These services enable you to:
  - Obtain an external perspective of how to use MetaFabric technology to address your business issues and existing gaps
  - Identify additional potential areas for improvement based on Juniper Professional Services experience with businesses and best practices around the world
  - Receive guidance on the development of customized technology roadmaps that help you schedule and prioritize technology enhancements
  - Develop migration plans and evaluate readiness as well as recommend migration processes and procedures
- If seeking to re-architect your data center, in order to maximize the benefits enabled by MetaFabric, then wide-ranging customized engagements are available. These engagements can cover the complete spectrum such as guiding you through an assessment of your needs plus recommendations for enhancements to your current environment; planning and designing the MetaFabric architecture; and implementing and migrating your data center network to MetaFabric. This suite of services, called the MetaFabric Custom Services, enables you to accelerate and optimize the benefits from your data center network projects.
- For those customers seeking to ensure a rapid yet efficient and seamless transition to MetaFabric, a slimmed-down version of the implementation service, in the form of various QuickStart services, are available.

## MetaFabric Assessment Service

Businesses have invested heavily in data center enhancements in an attempt to improve operational efficiency and business agility. Those changes have increased the demand on the data center infrastructure and highlighted the requirement to optimize overall performance, reliability, agility, and scale.

Juniper Networks MetaFabric Assessment service is recommended for IT executives who are seeking alternative paths for moving forward because they are concerned that data center complexity is becoming a barrier to business growth.

This service provides an opportunity for these executives to get an assessment of how a move to a simple, smart and open data center enables them to support current business activities, while also providing a more cost-effective, scalable, robust, and agile environment for the future.

As part of the MetaFabric Assessment service, an analysis of potential improvements from moving to a Simple, Smart and Open data center is developed. You receive a written report summarizing how your data center design and provisioning workflow could benefit from the move to MetaFabric Architecture. The report demonstrates how this approach enables you to satisfy present and future needs, address current "pain points," while continuing to align with your overall data center strategy.

For more information on the MetaFabric Assessment service: [Download](#)

## Data Center Interconnect Assessment Service

Juniper Networks DCI Assessment service is recommended for IT executives who are seeking a comprehensive analysis that takes into consideration the requirements of all stakeholders and helps determine the optimum interconnect solution.

The DCI Assessment provides an opportunity for you to get an expert assessment of design and technology options for your data center interconnect strategy. This enables you to support current business activities while also providing a cost-effective, scalable, robust, and adaptable environment for the future.

As part of the Data Center Interconnect Assessment service, you receive a written report summarizing recommendations for your DCI design. It includes technical details of the recommended DCI solution, and it demonstrates how this solution enables you to satisfy present and future needs, address current "pain points," and shows how you can continue to align with your overall data center strategy.

For more information on the Data Center Interconnect Assessment service: [Download](#)

## Data Center Security Evaluation Service

Juniper Networks Data Center Security Evaluation service is recommended for large organizations that have a formal security statement (a documented guide that describes the customer's security posture including rules of engagement, log retention, who has change authorization, problem resolution process, and related topics). It is particularly applicable for organizations for whom data center security is essential for continued business operation such as financial services companies and health care organizations.

This service helps ensure that the enhanced security policies and security environment are optimized for your business needs. It

also mitigates against unnecessary costs associated with security vulnerabilities such as wasted capital expenditures (for example, wrong number of firewall appliances or incorrect capacity planning resulting in a costly refresh sooner than needed), as well as wasted operational expenditures such as cost of power, cooling, and configuration on unnecessary hardware.

In addition to the financial benefits, this service helps ensure greater protection of your property; compliance with government mandated privacy, confidentiality, and financial data regulations; and improved overall security.

The service is available to all companies, regardless of the existing firewall provider. The service delivery consultants have in-depth experience in the security field and across products from Juniper and other vendors.

As part of the service, you receive a written report summarizing the review and providing suggestions for improvements in segmentation, security policy, and recommendations for changes to ensure alignment with the security statement.

For more information on the Data Center Security Evaluation service: [Download](#)

## Data Center Security Intelligence Readiness Evaluation Service

Protecting against next-generation data center security threats requires a new way of thinking about network defenses. You must focus on early detection and profiling of attackers and attacks plus ensure better integration of intelligence across security architectures. The majority of security products on the market today attempt to detect a specific threat at the instant that attack is launched. Regrettably, this only works against known attacks, where there is only a single opportunity to detect and stop the threat. To effectively plan, implement, and operate secure data centers, you must consider your capabilities in three areas:

- Knowledge of the attacking devices, not just the IP addresses, and how quickly you can disseminate that intelligence across the data center and into the network (provided by Juniper Networks Junos® WebApp Secure)
- Knowledge of known rogue devices, even if they haven't previously attacked the company's network (provided by Juniper Networks Junos Spotlight Secure)
- Detection of distributed denial-of-service (DDoS) attacks before they impact the network or application availability (provided by Juniper Networks Junos DDoS Secure)

The Security Intelligence Readiness Evaluation service helps your data center security team prepare against the threat of cyberattacks by considering your potential vulnerability in the three areas most critical in the prevention of Internet-based attacks:

- Detection, tracking, profiling, and prevention of attackers in real time
- Prevention of DDoS by continually analyzing bidirectional traffic
- Identification and tracking of individual hostile devices in a global database

For more information on the Data Center Security Intelligence Evaluation service: [Download](#)

## Data Center Security Migration Readiness Evaluation Service

Juniper Networks Data Center Security Migration Readiness Evaluation service is designed to help you prepare for a migration to an enhanced security environment based on Juniper technologies. As part of this service, you are able to leverage the migration expertise within the Juniper Networks Professional Services team and receive an independent analysis of the technical requirements, process, and evaluation of the skills available to execute the migration. The service addresses three areas:

- Requirements for change to security infrastructure
- The impact on firewall management changes
- The skills that are required to migrate and operate the new security environment

The Data Center Security Migration Readiness Evaluation service is designed to help you mitigate technical as well as financial risks inherent in the migration, and it is available to all customers regardless of their existing firewall equipment provider. It is delivered by Juniper consultants with practical, in-depth experience in similar migrations involving products from Juniper as well as other vendors.

For more information on the Data Center Security Migration Readiness Evaluation service: [Download](#)

## MetaFabric Custom Services

Intended to assist customers throughout the complete planning-to-implementation process—from identification of network needs to actual deployment—MetaFabric Custom Services is a suite of service offerings that includes assessment of existing infrastructure, as well as planning, design, implementation, and migration services.

It can be customized to fit your needs and the type of project you're considering—transformation, migration, consolidation, or first-time deployment.

Our Professional Services experts guide you through the steps required for a successful MetaFabric implementation, including:

### Assess

The objective of the Assessment phase is to understand your current environment and your requirements to move to MetaFabric in order to design the right architecture for your target environment, as well as ensuring that we cover all aspects of moving your current data center ecosystem to this target.

Assessment is the most strategic phase of the transformation project. All remaining activities depend on what is discovered and exchanged during this phase. It is crucial to consider your complete data center ecosystem, the strategic goals that are expected from your data center transformation, and make sure that each step of your journey is aligned and helping you move forward.

Your Juniper consultant assesses your legacy data center network infrastructure, but also:

- Your complete data center environment—To build a complete awareness of your data center, we assess multiple planes, from your applications (criticality, SLA, redundancy, traffic flow), to your servers, network services, administration, and automation tools.

- Your business requirements
- The inherent risks, making sure we identify the possible threats
- Your processes, including your change management processes

### Plan and Design

Once we understand in detail your data center environment, we work at planning the project and designing your MetaFabric Architecture in conjunction with you and your data center partners.

In the planning phase, the Juniper consultant develops activities that allow us to:

- Validate the proposed concept (proof of concept)
- Create the appropriate data center network design in accordance with your strategic goals, requirements, and data center ecosystem (high-level design, low-level design)
- Build the procedures for implementing (network implementation plan) and validating (network acceptance test plan) your new data center network
- Populate a risk mitigation plan in accordance to the threats identified previously and their level of risk (probability and impact)
- Construct the network migration plan, which includes all activities to implement the migration, with all required validation steps and rollback procedures

This is the key phase for building the skills of your in-house staff, via regular training and more specific transfers of information.

### Implement and Migrate

The final step in the Juniper Networks MetaFabric Custom Services is to put into production the new MetaFabric Architecture and eventually migrate elements from your existing data center to your MetaFabric.

Juniper consultants work closely with your staff and your data center partners to put into production the tested and validated hardware and software for the new data center network. While performing extensive monitoring of issues and risks at every step, the Juniper team ensures that the target network is:

- Deployed as described in the network implementation plan
- Tested as specified in the network acceptance test plan
- Connected fully as all data center servers/applications/services are migrated to the new infrastructure

Once the deployment has been completed, the success of the migration is verified and the data center continues to be monitored for a predefined period of time (agreed to among all parties involved).

## MetaFabric QuickStart Services

Various QuickStart services are available to ensure a fast implementation with a minimal learning curve and are designed for customers who have not previously used these Juniper products in data centers environments.

The QuickStart service provides the expert assistance of an onsite Professional Services consultant who delivers advice and guidance during your initial implementation.

The service provides rapid value through the logical, three-phase process outlined as follows.

- **Phase 1: Requirements and Design Review**

The Professional Services consultant helps plan the implementation and makes recommendations on areas such as installation, configuration, placement, operation, and troubleshooting.

- **Phase 2: System Configuration**

The Professional Services consultant configures and validates the installation and helps your technical staff to become familiar with the setup and operation of the solution.

- **Phase 3: Review and Knowledge Transfer**

The Professional Services consultant reviews the configuration and prepares your staff to install, configure and operate your solution in day-to-day scenarios going forward.

### Available MetaFabric QuickStart services

- Data Center Switching QuickStart: [Download](#)
- DCI with MX Series QuickStart: [Download](#)
- Junos Space Network Director QuickStart: [Download](#)
- Junos Space Security Director QuickStart: [Download](#)

## Juniper Networks Professional Services

As leaders in networks and security, Juniper's Professional Services consultants and engineers are uniquely qualified to assist service providers in designing, implementing, and optimizing data center solutions. Our team appreciates the complexities and the subtleties inherent in large-scale internetwork design and can assist service providers and enterprises, or provide customized and integrated "turnkey" solutions.

Juniper Professional Services has the networking experience and expertise to complete the delivery of your data center project, whether this is a transformation, migration, consolidation, or initial data center deployment. With an average of 15 years of experience, our consultants combine extensive skills with industry expertise and proven excellence in data center networks,

IP/MPLS technology, and security. We have a background in multivendor environments and with multiple system operators, cable operators, ISPs, global carriers, large enterprises, and governments. We provide you with dedicated program managers who have Project Management Professional (PMP) certifications and are onsite with your team when required, and always available remotely.

## MetaFabric Services Help You Reduce the Time to Value from Your Data Center Investment

The MetaFabric Services Suite enables you to capitalize on your MetaFabric investment, while decreasing deployment time and risk. The range of available services provides flexibility and allows you to choose the areas in which Juniper Networks Professional Services can help.

Contact your Juniper account manager for more information.

## Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services that are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to maximize operational efficiency while reducing costs and minimizing risk, achieving a faster time to value for your network. Juniper Networks ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit [www.juniper.net/us/en/products-services](http://www.juniper.net/us/en/products-services).

## About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at [www.juniper.net](http://www.juniper.net).

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