Businesses have invested heavily in data centers to improve operational efficiency and business agility. What has not evolved, however, is the data center network itself, which is still a bottleneck that prevents businesses from realizing the full potential of their information infrastructure.

The QFX3000-M QFabric System QuickStart Service will enable you to quickly implement an entry-level QFabric System and help you understand your level of readiness as you move from a three- or two-tier network to a flat, single-tier QFabric architecture.

Service Description

This service is for customers planning an initial data center or lab deployment of the Juniper Networks® QFX3000-M QFabric System, designed for mid-tier, satellite, and containerized data centers. Throughout the remainder of this document, the QFX3000-M will be referred to as the “QFabric System.”

The service is limited to environments requiring a maximum of 100 ports, even though the QFX3000-M supports up to 768 10GbE ports. If additional ports are required, a custom service can be provided. Evolving a data center network into a new, flat QFabric architecture can be complex, and having a clear understanding of the challenges or opportunities is an important prerequisite to building a solid plan as well as having access to the necessary expertise for installation and support.

This service includes the following phases, each of which lasts approximately one week:

- Design review and network planning
- QFabric System stand up services and knowledge transfer
- QFabric System migration support (day 0 support)

Phase 1: Design Review and Network Planning

During this phase, Juniper Networks Professional Services experts collect information from your organization to plan the QFabric System installation. These activities include:

- Review requirements and documentation
- Interview stakeholders
- Create and agree upon a high-level design that details all protocols and features that will be implemented on the QFabric System

Phase 2: QFabric System Installation

In this phase, the Professional Services Consultant works onsite to configure the QFabric System for use, helping your technical staff become familiar with the setup and operation of QFabric technology.

Customary tasks performed in this phase include:

- **Site survey**—verifying that all QFabric System components are properly racked, stacked, powered, and cabled as per the published Juniper standards
- **Installation**—upgrading and setting up the QFabric System following Juniper’s recommended best practices, provisioning the different components, and ensuring that the entire system is operating within normal parameters
- **Configuration**—configuring the QFabric System as per the High-Level Design (HLD) specifications specifications
Phase 3: QFabric System Migration Support
During this phase, the Juniper Networks Professional Services Consultant will provide:

- Support for QFabric System implementation and cutover planning, assisting with the development of a systematic implementation plan to introduce QFabric technology into the network
- Day 0 cutover support, validating that all QFabric System features and functionality have been properly implemented and tested, if possible, before the go-live date
- Knowledge transfer, with the Professional Services Consultant working side by side with your staff during implementation to make sure everyone is prepared to successfully operate and manage the QFabric System

Knowledge transfer is intended as a review of the customer’s localized implementation and configuration options. It is not a substitute for formalized training.

Service Features and Benefits
This service verifies that a proper data center design is in place—one that leverages all of the QFabric System’s strengths and features. The service also ensures that your QFabric System and all of its components have been properly installed and configured. Finally, it provides you with the opportunity to learn from the Professional Services Consultant’s experience in planning the migration and integration of QFabric technology to accelerate your time to value for the solution.

This service will provide you with:

- A written report that documents the QFabric System high-level design
- A QFabric System that has been thoroughly qualified by Professional Services to ensure that it is operating properly
- Cutover assistance to integrate the QFabric System into the data center network

Table 1. QFabric QuickStart Service Features and Benefits

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<tr>
<th>Feature</th>
<th>Feature Description</th>
<th>Benefit</th>
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| Prequalification and recommendations   | Information is collected about your requirements to develop a customized QFabric System installation plan. | • Ensures that your requirements are addressed in planning and subsequent installation phases  
• Minimizes time and effort to develop installation plan |
| Onsite Juniper Professional Services engineer | Onsite Juniper engineer deploys and configures the QFabric System at your data center/lab. | • Accelerates and optimizes the time-to-value of your QFabric System  
• Ensures effective configuration and adherence to best practices |
| Onsite knowledge transfer              | Professional Services engineer covers topics such as basic configuration and troubleshooting, additional feature configuration, or other appropriate topics as requested by your staff. | • Accelerates availability of new QFabric System  
• Accelerates readiness of employees |

Exclusions
This service includes up to 100 ports or a lab QFabric System. If additional ports, nodes, or multiple QFabric Systems are needed, a custom service can be provided via a custom Professional Services engagement.

This service is specifically designed to quickly provide the initial configuration and deployment of a QFX3000-M QFabric System. This service does not include any complex network integration or interoperability testing with other elements within the data center. A custom engagement can be provided to extend or tune an existing solution.

Juniper Consulting
As leaders in data centers and networks, Juniper Networks Professional Services Consultants and engineers are uniquely qualified to assist you in designing, implementing, and optimizing data center solutions.

Juniper Networks Professional Services helps accelerate your network’s time to value, bringing revenue generating capabilities online faster for bigger productivity gains, faster rollouts of new business models and ventures, greater market reach, and higher levels of customer satisfaction. Your onsite staff will work closely with Juniper specialists, building operational capabilities and reducing your exposure to IT risks. As a result of our previous experience involving hundreds of customers around the world, Juniper Networks Professional Services is uniquely qualified to help you design, implement, and optimize your network for confident operation and rapid returns on infrastructure investments. These professionals understand today’s network and security demands and those that are just around the corner—for bandwidth efficiency, best-in-class security, solid reliability, and cost-effective scaling.

The use of Juniper’s consultants avoids the requirement for you to have the necessary technical and security audit and evaluation skills internally. The evaluation can also be completed faster, as you are not forced to wait until internal resources become available nor do you have to address the issue of conflicting project priorities.

Additional Services to Optimize Your Network
Juniper Networks provides additional consulting services to consider along with the QFX3000-M QFabric System QuickStart Service. A broad range of consulting and packaged services is available to help you enhance your network design and optimize your production environment. Services to consider in the early stages of your network review are:

- **Strategic Network Consulting:** In the planning stage of your project, this service will assist you in determining a strategy for your network architecture and a plan to translate that strategy into an optimal solution. It is aimed at understanding your business requirements, determining the impact of the changes on your existing network infrastructure, and providing architectural guidance and recommendations to ensure that your network will be enhanced in a controlled manner.
High-Level Design: Implementing a new network or security project starts with an evaluation of the requirements and a detailed rendering of the architecture to be used. The Data Center High-Level Design service defines the topology, protocols, and equipment required, mapping the design to your needs.

Low-Level Design: Once the high-level design of a network is determined, the specifics need to be identified. The Low-Level Design service identifies the optimal configuration and equipment needed to make your network a reality.

Testing Service: Prior to implementation of a new network, Juniper Networks Testing Service provides you with an opportunity to combine your knowledge of your network’s specific performance requirements with Juniper’s sound foundation of network design methodology and products to create a customized test environment that simulates your unique end-to-end deployment scenario. This allows you to avoid the cost of creating and operating your own test labs, reduces your project risk, ensures a seamless implementation of new technology into your production environment, and accelerates your time to deployment.

Juniper Networks Service 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.

Ordering Information
In the Americas, please contact your Juniper account manager, services business manager, or proservsales@juniper.net.

The QFX3000-M QFabric System QuickStart Service can be ordered using the part number shown in the table below. Before the service begins, a statement of work (SOW) will be established outlining the scope of effort to be performed.

<table>
<thead>
<tr>
<th>Model Number</th>
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<tbody>
<tr>
<td>PRO-QFX3000-M-QS</td>
<td>QFX3000-M QFabric System QuickStart Service</td>
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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.