Data Center Interconnect (DCI) with MX Series QuickStart Service

Service Overview

Enterprises' adoption of the latest data center capabilities such as compute nodes, infrastructure virtualization, convergence, security, and other services, is increasing the complexity of the data center infrastructures exponentially. Today's data centers not only require a very high degree of reliability and availability but also must be able to adapt to seamless workload and storage migration requirements.

The DCI with MX Series QuickStart service is designed to accelerate the inter data center deployments of your Juniper Networks® MX Series 3D Universal Edge Routers.

Service Description

Organizations are enhancing their data center architecture and improving data center interconnectivity by implementing MX Series routers to reduce complexity, while also enhancing performance, business continuity, scalability, and agility. Incorporating the MX Series platform enables customers to have a flexible data center interconnect (DCI) solution that allows for both Layer 2 and Layer 3 transport across the data centers.

With this QuickStart service, Juniper's Professional Services consultants assist your adoption and integration of MX Series devices, providing your infrastructure with the functionality and connectivity required to meet the high availability and business continuity needs of a resilient WAN core. The engagement helps you deploy an overlay of services such as routed IP, (VLAN) extension, and multicast. It will also provide secure logical segmentation between services and aggregate those services for efficiency and scalability along with validating the installation.

This service lasts approximately one month, and it includes the following phases:

- **Plan**—requirements review and DCI design
- **Build**—installation and configuration
- **Operate**—MX Series implementation planning plus cutover support

Service Specifications

Phase 1: Plan

During this phase, Juniper's Professional Services consultants will review your business and technical needs for workload mobility, business continuity planning (BCP), migration assistance, and application/storage clustering to plan the installation. These activities include:

- Review requirements and existing documentation
- Interview stakeholders
- Document the DCI requirements and design goals, including:
  - Network diagram
  - Brief inventory of devices to be managed
  - Summary description of log management
  - Outline of management work flow
- Work with you to jointly select and approve the optimal DCI solution given your goals and requirements

Phase 2: Build

Install the recommended DCI solution across two data centers on a maximum of two pairs of MX Series routers.

- Build and test
  - Build the DCI solution on the MX Series equipment (preferred) or in a lab (or Juniper Networks Junosphere™ Lab), if required
  - Test all of the features and functionality of the selected DCI solution
- Configuration
  - Optimize and finalize MX Series configuration as per the design

Phase 3: Operate

- Lead the implementation and cutover planning for the MX Series platforms
- Provide day zero and cutover support for the migration

Service Features and Benefits

Feature	Feature Description	Benefit
Installation planning and recommendations	Information is collected about your requirements to develop a customized DCI installation plan.	• Ensures that your requirements are addressed in planning and subsequent installation • Minimizes time and effort to develop installation plan
Onsite Juniper Professional Services engineer	Professional Services engineer deploys and configures the DCI with MX Series solution at your data center/lab.	• Accelerates and optimizes the time-to-value of your MX Series-based solution • Ensures effective configuration and adherence to best practices
Onsite implementation support	Provides day zero cutover support when implementing the DCI solution.	• Ensures that DCI has been successfully implemented between the two data centers

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 also avoids the requirement for you to provide the necessary technical and networking skills in-house. The evaluation can 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

A broad range of consulting and packaged services is available Juniper Networks provides additional consulting services to consider along with the DCI with MX 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 such a 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 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 necessary 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 in network design methodology and products to create a customized test environment that simulates your unique end-to-end deployment scenario. This lets you 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 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.

Ordering Information

To order the Juniper Networks DCI with MX Series QuickStart Service, or for additional information, please contact your Juniper account manager. Before the service begins, a statement of work (SOW) will be created outlining the scope of effort to be performed.

About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at Juniper Networks or connect with Juniper on Twitter and Facebook.

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1000447-005-EN Nov 2016

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