

NETWORK ARCHITECTURE AND DESIGN

Service Overview

Major initiatives, and the substantial investments they require, benefit from careful planning in collaboration with veterans of multiple deployments. Bring Juniper Networks Professional Services consultants into your network expansion plans at the earliest possible stage and receive experienced guidance that helps reduce the time, cost, risk and effort associated with your project.

Service Description

The Juniper Networks® Network Architecture and Design service provides core network design and/or implementation assistance to organizations that are building a new network or redesigning an existing one. Our Professional Services consultants have extensive experience working with large scale service provider network demands. They interface directly with your organization’s engineering and operations staffs to understand your network objectives. This collaboration prepares us to recommend industry best practices and discuss the latest solutions and technologies that apply to your specific network environment. Uniquely qualified to provide Juniper Networks M Series Multiservice Edge Routers and Juniper Networks Junos® operating system expertise, our consultants can assist you in the creation of specific Junos OS configurations that support a flexible, scalable, reliable and resilient core infrastructure. They also review the hardware and software security capabilities in the M Series routers, and identify the features that apply to your specific network environment.

Your Professional Services consultant(s) can provide a complete design and implementation plan or collaborate with your staff to co-create a comprehensive solution. Specific activities may include:

- Identification of core infrastructure requirements based on edge service requirements
 - Layer 3 IP VPNs
 - Layer 2 VPNs
 - Voice over IP (VoIP)
 - Multicast traffic
 - Differentiated Class of Service
 - Network security, including protection from Denial of Service (DoS) attacks
- Development of efficient and scalable core backbone design to address edge services requirements
- Considerations for MPLS traffic engineering
- Peering policy analysis and design
- Creation of detailed router configurations to support core infrastructure requirements
- Recommendations for migration plan from current infrastructure to enhanced network
- Knowledge transfer of new core infrastructure and technology to your staff
- Assistance with deployment plan
- Onsite assistance with deployment

Upon project completion, you will receive a concise technical document of the design, analysis and recommendations. Detailed router configurations will be provided as well.

Table 1: Features and Benefits

Feature	Benefit
Complete or partial design and implementation plan	Yields a flexible, reliable, scalable and resilient core network infrastructure
Assistance in building core network infrastructure	<ul style="list-style-type: none"> Enhances and accelerates ability to deploy new core infrastructure or network redesign Simplifies process and reduces cost of adding differentiated features and services
Onsite interaction with your engineering and operations staff	Supports an efficient, expedient, and customized deployment process
Knowledge transfer	Prepares staff to maintain and support new core infrastructure and technology

Table 2: Service Specifications

Juniper Responsibilities	Customer Responsibilities
Depending on the level of services agreed upon, Juniper Professional Services consultants: <ul style="list-style-type: none"> Identify core infrastructure requirements Develop core backbone design Complete peering policy analysis and design Create detailed router configurations Make migration plan recommendations Provide transfer of information to appropriate staff members Co-create deployment plan Assist with deployment plan 	Your organization provides: <ul style="list-style-type: none"> A designated project manager or point-of-contact to interface with Juniper Networks on day-to-day issues and coordination of resources External access to the Internet, internal access to your Intranet, and access to required network equipment Access to any applications, databases and internal technical resources required by consultant to perform duties successfully Implementation plans and schedules Related design documentation Business and technical requirements Information on any existing constraints or dependencies in the network environment

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

The Juniper Networks Network Architecture and Design service is available globally. Please contact your local Juniper Partner or Juniper Networks account manager for details.

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.

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