

Cisco Edge Migration Service

Service Overview

Legacy hardware is often a barrier to introducing new services and increasing velocity for old ones. This is often due to the complexities and costs associated with trying to implement a next-generation network framework on infrastructure that is underpowered and under featured for the job.

Service providers who want to introduce new and enhanced services but have a legacy installed base of Cisco routers used as provider edge, aggregation, and access devices, are finding themselves faced with these challenges.

Service Description

The network edge is mainly about monetization and constant innovation in order to deliver more revenue-generating services to end customers and subscribers. There is a heavy dependence on the timely availability of new hardware and software features. The network edge is never a standalone entity, and integration with provisioning and monitoring systems are some of the areas that add complexity. Adoption of a given technology is accepted based on how seamlessly the migration from the legacy solution/product to a newer solution can be achieved, which creates more cost benefits and ignites the edge.

Juniper Networks® Cisco Edge Migration service is designed to facilitate your move to the Juniper business edge. It will help you mitigate the risks involved in migrating to our products and services based on our many years of experience with similar projects.

Once the proposed solution is understood, the Juniper Networks Professional Services consultant proposes migration guidelines for areas that include:

- Migration preparation: For example, what are the various preparatory phases and steps that lead to a migration? What level of preparation needs to go into the planning phase?
- Migration execution phases: Defining multiple phases with each phase having a clear set of objectives and results prior to moving to the next phase in the process. For example, the consultant may recommend a “Testing Phase” in a controlled environment for creating configuration snippets per device/service.
- Tools and processes: The consultant will make recommendations for tools and processes to be used during migrations.
- Rollback: Rollback procedures will be defined and documented.

The Cisco Edge Migration service includes the following phases:

- Plan: Review requirements and objectives plus generate High-Level Design (HLD)
- Build: Low-level design, network implementation and migration planning with cutover support for one pilot site, and Acceptance Test Plan Template.

Phase 1: Plan

- Gather your objectives and requirements, and all existing supporting documentation necessary for analysis and configuration translation.
- Create and deliver on a High-Level Design describing the migration from the existing architecture to the new Juniper architecture, and justifications for the design/configuration choices. The HLD provides a general proposal of the design, features, and configurations to be used to meet your objectives. This document also ensures that the integration and acceptance procedures comply with your change management policies.



Phase 2: Build

- Create a Low-Level Design (LLD), a Network Implementation and Migration Plan Template (NIMP).
- Develop a Network Acceptance Test Plan Template (ATP).
- Validate design (this task is optional but highly recommended and is dependent on the availability of appropriate customer facilities).
- Provide support and oversight as your team implements the NIMP and performs the acceptance testing.

Service Features and Benefits

By working with Juniper Networks Professional Services consultants, you will take advantage of our extensive IP heritage and long history of solution development, support, and implementation. We have developed best practices that reflect our real-world experience as well as our technical expertise and participation in the relevant standards committees such as IETF working groups.

Features and Benefits

Feature	Feature Description	Benefit
Requirements gathering	Juniper's network consultants will conduct requirement gathering to capture detailed needs, including specific business, future growth, and technical requirements.	<ul style="list-style-type: none"> • Allows you to take advantage of the skills and experience our network consultants have acquired working with hundreds of clients.
Solution design, and implementation and migration planning	Juniper's strategic solution consulting can help develop the design of your solution based on your requirements and network assessment results and also can provide assistance with your network implementation planning.	<ul style="list-style-type: none"> • Optimizes your staff's time by using Juniper's network consultants to define the new solution design, architectural findings, or other network enhancement planning. • Accelerates and optimizes the time to value of your migration to a Juniper solution.
Project management input for Juniper service deliverables	Juniper will assign a Professional Services Project Manager to serve as a single point of contact and assist with the administration and management of Juniper service deliverables.	<ul style="list-style-type: none"> • Reduces the risk to your project by engaging experienced project management capabilities, which will help determine and track tasks, dependencies, responsibilities, timelines, and milestones.
Knowledge transfer	The Professional Services consultant will cover topics such as basic configuration and troubleshooting and feature configuration.	<ul style="list-style-type: none"> • Accelerates availability of the solution. • Accelerates readiness of employees for improved operational efficiencies.

Service Deliverables

By the end of this service, you will have received:

- High-Level Design (HLD) and Low-Level Design (LLD)
- Lab test results (if applicable)
- Network Implementation and Migration Plan Template (NIMP) plus Acceptance Test Plan Template (ATP)
- A pilot site that has been migrated from Cisco to Juniper
- Support from Professional Services to ensure that the solution is operating properly

Exclusions

The scope of this service is for one pilot site with up to two edge routers. If you require additional services of the Juniper Professional Services consultant, or additional sites/platforms, then a scoping call is necessary to prepare a customized statement of work (SOW).

Deployment of platforms other than MX devices, or deployment of the MX Series for applications other than network edge (for example, in the Data Center) is excluded from this service.

Broadband Network Gateway (BNG), broad-based network design (such as multicast VPN, MPLS-TE) or Class of Service designs are excluded from this service.

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 network 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

Juniper Networks provides additional consulting services to consider along with the Cisco Edge Migration service that can be ordered separately. 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.
- **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 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 Cisco Edge Migration Service, or for additional information, please contact your Juniper account manager.

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](https://twitter.com/juniper) and [Facebook](https://www.facebook.com/juniper).

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