MIGRATION SERVICES DATASHEET

Service Overview

Migrations are inevitable as organizations experience network growth through new IT applications, evolving performance, and reliability requirements. Conversely, the number of networks may shrink as the business divests certain IT requirements or applications. Migrations require relocating critical applications and data quickly, reliably, and with minimal or no disruption. Migration Services help mitigate these risks and challenges by using a structured three-phase approach to evaluate, plan, and execute your network migration. This service utilizes best practices and automation tools, enabling you to transition with significantly reduced time, cost, and risk.

Service Description

Organizations must roll-out new products and services fast and cost-efficiently to keep up with customer preferences, competitors, and technology advancements. Transitioning to new products and networking technologies present opportunities for improved performance, efficiency, and security. It can also introduce risk, potential service disruption, and cost overruns.

Technology validation, large-scale conversion, handling of live customer traffic are a few of the typical deployment and operational complexities involved. Migration Services help mitigate these risks and challenges by using a structured three-phase approach to evaluate, plan, and execute your network migration. This service utilizes best practices and automation tools, enabling you to transition confidently to new networking technologies by leveraging the vast validation and conversion capabilities of Juniper Professional Services.

The Juniper Networks® Migration Services is a core part of the Migrate phase of the Juniper Global Services Continuum. The continuum is an evolving life-cycle suite of services that provides assurance across the customer's entire technology adoption lifecycle and represents 5 different phases of a customer's network lifecycle: Plan, Build, Migrate, Manage, and Optimize. The Migrate phase is a key value for organizations newly adopting Juniper solutions, as it helps mitigate risk and overcome technical, logistical, and manpower challenges.

Migration Services ease the transition of migrating from legacy Juniper products to equivalent next-generation Juniper products, and from products and technologies from other networking vendors to equivalent Juniper products and technologies. Migration Services range from introductory offerings for key solutions and software products, to full deployment and custom services that address broader use cases, requirements, and end-to-end solutions.

This service gives your organization access to a migration team with extensive knowledge of Juniper product and technology deployments as well as other vendors' equivalent product and technology deployments. The service employs migration methodology and conversion tools developed using time-tested migration methodologies and automated processes to eliminate errors, enabling you to efficiently migrate to next-generation Juniper products and technologies with complete confidence. As part of this service, you have access to the expertise of the Juniper Networks Professional Services team, which will help you review, plan, and migrate to Juniper products and technologies.

Figure 1: Juniper Global Service Continuum

Migration Methodology

The Migration Services methodology follows a three-phase approach (Evaluation, Planning, and Execution) and is tightly integrated with the Juniper Project Management Methodology, which addresses both the project management and risk mitigation aspects of your migration project. A key success factor in any complex migration is the ability to manage risks that can be technical, resourcing, scheduling, or logistics related and having mitigation plans for all scenarios. Juniper Project Managers provide special attention to various project aspects ensuring a timely and successful completion. While the methodology identifies the standard phases and types of activity within each phase, the specific activities to be included in an engagement will be defined on a customer-by-customer basis. Similarly, the specific migration tools and resource requirements are identified for each customer situation.
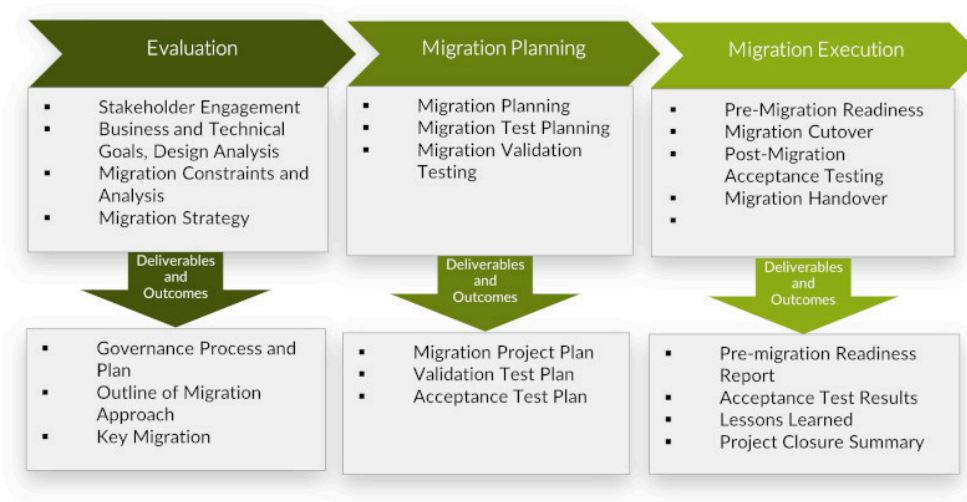

Figure 2: Migration Services Methodology

Specifications

Table 1. Service Specifications

Deliverable	Description	Features and Benefits
Stakeholder Engagement	Align with customer on governance model, communication plan, roles and responsibilities, handover process, and finalizing migration project governance with resource skills inventory, approval, and escalation process.	Overall governance process and plan instills confidence in end-to-end evaluation, planning, and execution method. Also, engagement ensures access to a proven process, people, and technology.
Business and Technical Goals, Design Analysis	Gather business and technical requirements, existing network and systems, target network and systems, integration considerations to confirm design and components, and alignment on overall execution plan.	Clearly identified business and technical requirements are delivered to customer by Juniper consultant. Risk mitigation and early warning of any potential issues are defined.
Migration Constraints Analysis	Finalize operational considerations such as lab availability, applications, services inventory, security requirements review, maintenance window requirements, and field force availability. Finalize network and system considerations such as feature parity, third-party dependencies and operation, capacity, and performance requirements.	Customer gets clear access to key migration considerations and overall migration approach from High-Level Design (HLD) document or High-Level Migration Strategy/Plan
Migration Strategy	Obtain an agreement on end-to-end migration testing coverage for lab, pilot, or field migration and confirm dependencies, resources, and inputs. Based on this input, create migration strategy and risk report.	Low-Level Design document (LLD) is delivered to customer that outlines detailed design, state of the network post-migration, and configuration templates to be applied to the Juniper products in the target network.
Migration Planning	Create detailed steps for migration of services and network, including a rollback procedure, impacts, risk description, and migration tools' availability and customizations. Plan will include detail schedule of activities, such as maintenance window, operational impact during migration, handover, and training.	Network Migration Plan (NMP) provides an easy and error-free approach from a consultant for migrating from legacy hardware to new Juniper hardware.
Test Planning	Define success criteria for post-migration and production, and select field trial site, as applicable.	Juniper prepares and delivers Network Acceptance Test Plan (NATP) covering all the features agreed to be used in network.
Migration Validation Testing	Includes building lab, executing planned tests, performing the migration validation testing such as IOT testing, validating NMS and systems integration, followed by reviewing test results to agreed acceptance criteria and appropriate issue resolution.	Juniper creates a Design Verification Test (DVT) plan based on the Network Migration Plan and the Test Plan and executes the test plan to meet defined pass/fail criteria.
Pre-Migration Readiness	Execute pre-migration checks (configuration and functionality and operational state) on a pilot site and (or) device(s) and report readiness to customer.	Juniper assures readiness for the migration cutover.
Migration Cutover	Execute Migration Plan and Cutover for pilot site and (or) device(s)	Juniper assists the customer to ensure a smooth migration by Network Migration Plan Execution. If any issue arises after the migration, Juniper consultant will provide help to resolve and close the issue.
Post-Migration Acceptance Testing	Execute Post-Migration Acceptance Test Plan and document results. Troubleshoot any issues identified. Provide Post-Migration monitoring support. Handover any open issues to Juniper Technical Assistance Center (JTAC). Operate until handover to NOC.	Juniper works with customer and end user to execute the tests defined in the NATP document for the Juniper products. The customer receives a Network Operation Document (NOD) that provides guidelines on how to operate post-migration.
Migration Handover	Handover to NOC. Provide knowledge transfer to customer. Review lessons learned with the customer, revise Migration Plan (if necessary), and provide project closure summary.	The Knowledge Transfer Workshop (KTW) is provided with detailed information about Juniper products, along with how they are being used in the network. The KTW accelerates infrastructure availability and employee readiness for improved operational efficiencies.

Automation Enabling Every Step

Automation tools simplify complex migration activities, improve efficiency, enforce standardization, and reduce human error. This helps improve overall project timelines and lower the operation costs. Juniper provides this necessary capability for developing and applying automation tools to various phases in the migration activities. Automated conversion of configurations from legacy devices to modern Juniper hardware, based on standardized templates can reduce hours of manual configuration mapping. Automated pre- and post-migration checks decrease the stress from migration activities allowing customers to focus more on service assurance, rather than executing the checks manually through CLI commands. Additionally, more migration activities can be achieved with the confidence from automated processes, allowing shorter migration timelines.

Juniper can provide appropriate automation tools and capability to customers, as well as apply them to migration activities based on the unique migration challenges. This way customers get the best outcomes in the most optimal manner feasible.

Additional Juniper Professional Services Options

Juniper Professional Services have helped many customers migrate from legacy products and technologies to the most advanced and feature-rich Juniper products and technologies. Juniper expertise includes:

- Migration from legacy core, edge and metro network platforms to modern platforms and architectures
- Migration from production data centers to next-generation data centers, such as Apstra Automated Data Center Migration Service

- Migration to EVPN-VXLAN fabrics or overlays that provide Layer 3 virtualization for new applications while providing Layer 2 connectivity for older applications:
    - Juniper QFabric to EVPN-VXLAN IP fabric
    - Junos Fusion to EVPN-VXLAN IP fabric
    - Cisco Catalyst Cat-OS and Nexus NX-OS to EVPN-VXLAN IP fabric
    - Virtual Chassis Fabric to EVPN-VXLAN IP fabric
- Migration from Juniper legacy security products to Juniper next-generation security products: NetScreen Series to SRX Series Migration Service
- Migration from other firewall vendors to Juniper next-generation security products: SRX Firewall Migration Service

In addition, migration engagements frequently involve the use of the Migration Methodology and Juniper's methodologies for Assessment, Design, and Deployment. The mix of methodologies varies for each engagement and for each customer.

Juniper Service and Support

Juniper ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, visit https://www.juniper.net/us/en/services/

Ordering Information

To order Migration Services, or for additional information, contact your Juniper account manager.

Exclusion

The scope of this service is for Migration Services only and does not include separately sold assessment, design, deployment, or services. If you require additional services from your Juniper Professional Services consultant, please contact your Juniper account manager.

About Juniper Networks

At Juniper Networks, we are dedicated to dramatically simplifying network operations and driving superior experiences for end users. Our solutions deliver industry-leading insight, automation, security and AI to drive real business results. We believe that powering connections will bring us closer together while empowering us all to solve the world's greatest challenges of well-being, sustainability and equality.

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