

# JUNOS SOFTWARE VALIDATION AND UPGRADE

## Service Overview

Access to the latest version of software is often a prerequisite for the rollout of new services. Yet upgrading is frequently hindered by the complexities and costs associated with trying to select, validate, and implement a new version of software. These engineering complexities can bring with them high risks, and the technical constraints introduced by some legacy hardware platforms make the entire proposition seem that much more challenging and a barrier to the creation of a more service-friendly ecosystem.

Service providers who have an installed base of soon-to-be End-of-Life hardware or software are finding themselves challenged to effectively move forward.

## Service Description

The new network is mainly about monetization and constant innovation in order to deliver more revenue-generating services to customers and subscribers. There is a heavy dependency on the timely availability of new hardware and software features. Adding to the complexity is the issue that the network node is never a standalone entity, and integration with billing, provisioning, and monitoring systems are some of the areas that must be considered. Adoption of a given software version is accepted based on how seamlessly the upgrade from the legacy version to a newer version can be achieved, which creates more cost benefits and ignites the node's ability to deliver a set of new features.

Juniper Networks® Junos® Software Validation and Upgrade service is designed to help you select, validate, and upgrade the Junos operating system that enhances your ability to innovate and monetize. This service also provides you with an understanding of how Juniper mitigates the risks involved in upgrading to its new software version in a predictable and seamless manner. Based on their many years of experience with similar projects, Juniper Networks Professional Services consultants excel in mission-critical software upgrades.

## Features and Benefits

The service follows a three-phase approach:

- **Review and Recommendations:**  
The engagement is based on understanding your present mode of operation with respect to the architecture and network features deployed, operational challenges, current and expected service velocity and scale, and the business drivers moving forward. Based on this information, Professional Services consultants create a blueprint of the potential software version that would best fit your environment.
- **Planning and Preparation:**  
Once the proposed upgrade requirements are understood, the consultant recommends an upgrade plan including preparatory work, upgrade testing, tools and processes and options for automation
- **Upgrade Execution:**  
The Juniper consultant provides support during the software upgrade of the first two nodes of the network.

This service enables you to:

- Offer innovative ways of delivering services to your customers by ensuring your network is upgraded and capable of delivering a more flexible ecosystem
- Mitigate risk by reviewing the features and functions of the new version and study their impact on your network implementation and validating the new software version in your lab environment
- Prepare your operational team for subsequent upgrades by leading the upgrade of the first two nodes in your network and providing knowledge transfer

By the end of the engagement, you have received recommendations on a software version for the network nodes and a clear plan highlighting the process for a seamless upgrade, plus two nodes successfully upgraded in your network. As a result of this service, you are ready to effectively execute the upgrade of subsequent nodes while minimizing risk to the network.

## Juniper Networks Professional Services

As leaders in networks and security, Juniper Networks Professional Services consultants and engineers are uniquely qualified to assist service providers in designing, implementing, and optimizing network solutions. Our team appreciates the complexities and the subtleties inherent in large-scale internetwork design and can assist or provide customized and integrated “turnkey” solutions.

Our process is to apply appropriate efforts and resources to analyze the network from an end-to-end perspective. This allows the Juniper consultants to review the existing network and give advice about solutions or specific fixes to deploy. Once the assessment is complete, our Professional Services team can deliver and implement recommended 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 works closely with Juniper specialists, building operational capabilities and reducing your exposure to IT risks. As a result of our previous experience involving hundreds of networks around the world, Professional Services is uniquely qualified to help customers

design, implement, and optimize their networks for confident operation and rapid returns on infrastructure investments. These professionals understand today’s Internet 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 helps you avoid the requirement to have the necessary technical and evaluation skills in-house. The evaluation can be completed faster, and you are not forced to wait until internal resources become available—nor do you have to address the issue of conflicting project priorities.

## 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](http://www.juniper.net/us/en/products-services).

## Ordering Information

The Juniper Networks Junos Software Validation and Upgrade service can be ordered using the part number shown in the following table. Before the service begins, a statement of work (SOW) is established outlining the scope of effort to be performed. Contact your account manager for additional information.

Model Number	Name
PRO-SW-VAL-UP	Junos Software Validation and Upgrade

## 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](http://www.juniper.net).

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