



NETWORK OPTIMIZATION CONSULTING SERVICES

Service Overview

Today's organizations are under constant pressure to meet dynamic market demands while increasing their return on investment. IT departments need to align and deliver on the organization's objectives with limited budget and resources. Your IT infrastructure is the backbone of your success; therefore, a high-performance network is required to meet your long-term innovation and business goals. Juniper's Network Optimization Consulting Services provide the insight into your network required to maintain business agility and reduce operational costs. Our services are aimed at avoiding incidents and assuring your network is always at optimum readiness, able to evolve smoothly and effectively in response to the demands of your business.

Service Description

Juniper Networks® Network Optimization Consulting Services (“Services Offerings”) is a pre-packaged prescriptive set of services that are delivered remotely based on the End User's specific networking needs. The offerings are proactive services designed to maximize the effectiveness of your specific network while reducing operating costs and minimizing network issues.

The Services Offerings can be purchased by the End User using any of the following methods:

- I. Using the service specific SKU and corresponding list price on the Juniper published price list; or
- II. Using Flexible Services Credits with value equivalent to the list price of the Services specific SKU on Juniper's published price list; or
- III. By redeeming required number of Advanced Services Credits (ASC)

Below is the list of available pre-packaged Services Offerings and corresponding number of ASC's required (if redeemed using ASC):

Service Name	# of ASC required
Product Issue Impact Review Service (PIIR) – One time/Quarterly	4 /16
Software Upgrade Recommendation and Review Service (SURRE)	5
Product Health Check Service (PHC) – One time/Quarterly	5/15
Configuration Analysis and Change Review (CACR)	2.5
Implementation Support Service	1
Remote Technical Consultation Service (QnA)	1
SIRT Analysis	2/4
Security Policy Optimization	3

Service Eligibility and Ordering

The Services Offerings may be purchased directly through Juniper Networks or an authorized Juniper reseller. The Services Offerings is available for purchase only (i) by the End User who holds a valid Juniper Care contract or valid Advanced Partner Support contract or Advanced End User Support contract and (ii) by Juniper Networks authorized resellers solely for resale to the End User identified by name and address in Juniper authorized reseller's PO.

The Services Offerings can be purchased by End User by using any of the methods mentioned in “Services Description” section above.

Security Incident Response Team Analysis

Juniper Networks Security Incident Response Team (SIRT) provides a comprehensive in-depth analysis of security exposure based on the customer's network environment. The key deliverable is a custom report that includes network vulnerabilities, recommendations, and mitigation steps. The service includes a virtual kick-off meeting and a final review meeting.

Service Deliverables

- Virtual kick-off meeting, in-depth analysis, custom report, and final review meeting.
- Comprehensive in-depth analysis of security exposure based on customer hardware, software, installation base, and configuration.
- Custom report includes network vulnerabilities, recommendations, and mitigation steps.

Service Specifications

The scope of the service offers two options: delivered once for all announced SIRT vulnerabilities per Junos version per product family or delivered for each quarterly SIRT announcement per Junos version per product family over a twelve (12) month term.

For additional details such as scope, deliverables, eligibility, and exclusions, please refer to the corresponding Service Description Document:

www.juniper.net/assets/us/en/local/pdf/service-descriptions/9060170-en.pdf.

Security Policy Optimization

Juniper Networks Security Policy Optimization provides a comprehensive in-depth analysis of the customer's security policy database to search for optimization opportunities. The key deliverables are a custom report that identifies duplicate database entries and overlapping address objects, and an optimization process with firewall commands. The service includes a virtual kick-off meeting and a final review meeting.

Service Deliverables

- Virtual kick-off meeting, in-depth analysis, custom report, migration process, and final review meeting.
- Comprehensive in-depth analysis of the customer's security policy database using custom tools to search for optimization opportunities such as duplicate policies, shadow policies, and overlapping security policy objects.

Service Specifications

The scope of the service includes delivery per configuration every quarter over a twelve (12) month term.

For additional details such as scope, deliverables, eligibility, and exclusions, please refer to the corresponding Service Description Document:

www.juniper.net/assets/us/en/local/pdf/service-descriptions/9060171-en.pdf.

Configuration Analysis and Change Review

Juniper Networks Configuration Analysis and Change Review Service provides a consultative review and analysis optimizing End User's network configuration based on a detailed

understanding of an End User's network. The Juniper Network engineer will discuss End User's requirements in detail and apply their expertise and best practices on Juniper products, including Juniper methodology, to analyze the configuration and features.

Service Deliverables

- Product configuration review and analysis
- Meeting to discuss, understand, and validate the overall goals and requirements of your network
- Review of your network device configurations, which may include hardware inventory analysis, software configurations, and dependencies with respect to new features, configuration scaling, interface configuration, management setup for the system, and your configuration methodology
- Analysis of current configurations based on suggested Juniper Networks product configuration best practices; areas of focus may include configuration practices currently employed, Error logging configuration, dependencies with respect to target features, and End User's network configuration templates

Service Specifications

The scope of this service is limited to up to two (2) configuration templates and to one (1) Juniper Networks products family.

For additional details such as scope, deliverables, eligibility and exclusions, please refer to corresponding Service Description Document:

www.juniper.net/assets/us/en/local/pdf/service-descriptions/990300.pdf

Product Issue Impact Review Service

Juniper Networks Product Issue Impact Review Service provides a detailed analysis of hardware and software defects found in the field that match your network profile to help you determine the potential impact and risk for your network.

Service Deliverables

- Analysis of the defects identified in the Product Issue Impact Report that matches your deployed network profile and the potential level of exposure to the network based on your specific business and networking requirements
- Assessment of the probability that you may encounter the reported defects on your network
- Proactive recommendations on the course of action you should take regarding the reported defects to avoid potential problems

Juniper will also provide a consolidated report on product issues and impact analysis.

Service Specifications

The scope of this service is limited to one (1) report and is determined by unique combination of hardware platform, configuration technology functions (e.g., BNG, Core and Edge or Others) and target software version.

For additional details such as scope, deliverables, eligibility and exclusions, please refer to corresponding Service Description Document:

www.juniper.net/assets/us/en/local/pdf/service-descriptions/990312.pdf

Software Upgrade Recommendation and Review Service

Juniper Networks Software Upgrade Recommendation and Review Service provides an expert review of your software requirements, assessment of software upgrade risk, analysis of potential impact on your network, and recommendations on a target software release that can best meet your requirements.

Service Deliverables

Software upgrade requirements assessment:

Review of current conditions, problem history, and feature requirements for your network infrastructure to provide a target software release assessment. This assessment may include existing hardware and software inventory, existing feature use and future feature requirements, performance and high availability requirements, previous cases and problems reported, and latest network infrastructure design or services changes.

Software release analysis:

- Review of target software release with information about any additional software features included in the target release such as operating features, redundancy features, configuration features, other features, and any default behavior and syntax changes in the target release.
- Provide information about software bugs found in the field that match the target release and your network profile. This information includes a description of the problem, impact, known trigger for the problem, and a proposed solution or any known workarounds that may alleviate or help to prevent the problem.
- In-depth analysis of the identified software bugs in the target release and of the potential level of exposure on the network based on your specific business and networking requirements.
- Assessment of the probability that you may encounter the reported bugs on your network and recommendations regarding the course of action to avoid potential problems.

Software upgrade recommendations:

Consolidated report containing the software upgrade requirements assessment, target software analysis, and any recommended changes and improvements.

Service Specifications

The scope of this service is limited to one (1) report and is determined by unique combination of hardware platform, configuration technology functions (e.g., BNG, Core and Edge or Others) and target software version.

For additional details such as scope, deliverables, eligibility and exclusions, please refer to corresponding Service Description Document:

www.juniper.net/assets/us/en/local/pdf/service-descriptions/990313.pdf

Product Health Check Service

Juniper Networks Product Health Check Service uses sampling data from targeted Juniper devices on your network to check key indicators of device health and utilization. This helps determine if products are maintaining performance expectations based on Juniper recommended best practices. The service focuses on identifying potential malfunctioning hardware components, dormant problems, any abnormalities in the trend data for potential improvement, and any other performance related issues. Juniper engineers will analyze your data and provide recommended actions to help identify potential risks and issues with your Juniper products before they impact your network, and to proactively improve network performance.

Service Deliverables

Data device collection and analysis:

analyze the findings to determine areas of improvement. The collected key device health indicators will be analyzed to identify potential problem areas. Examples of the collected data include CPU and memory utilization, task memory, chassis and system alarms, packet forward engine traffic, error check and Routing and Switching Table check. Provide information on critical issues that are found along with recommended available workaround solutions and assist Juniper Networks Technical Assistance Center (JTAC) on issue resolution.

Optimization recommendation:

Juniper will recommend solutions based on recognized best practices to resolve the identified problem areas and optimize your network's health and utilization. Performance trends will be identified along with recommendations on the respective areas for improvement. A written report will be submitted, and Juniper engineers will review the findings with you in a conference call.

Service Specifications

The scope of this service is limited to one (1) report and is determined by unique combination of hardware platform, configuration technology functions (e.g., BNG, Core and Edge or Others) and target software version.

For additional details such as scope, deliverables, eligibility and exclusions, please refer to corresponding Service Description Document:

www.juniper.net/assets/us/en/local/pdf/service-descriptions/990335.pdf

Implementation Support Service

Service Deliverables

Juniper Networks Product Issue Impact Review Service provides remote engineering assistance for critical network changes such as migration, software upgrades, and feature rollout. The Juniper Networks engineer will work with the End User to identify the information about the network change implementation via knowledge transfer and will be able to assist by analyzing events experienced during the change and providing recommendations.

Network change implementation

Juniper Networks' engineers are available during the network change implementation process to assist you with any questions, concerns, or problems during the migration.

Post network change review

Juniper Networks' engineers will discuss the network change with you to assess the success and, if appropriate, possible areas of improvement following changes.

Service Specifications

The scope of the service is limited to one (1) maintenance window (max continuous up to five (5) hours) during any 24-hour period.

For additional details such as scope, deliverables, eligibility and exclusions, please refer to corresponding Service Description Document:

www.juniper.net/assets/us/en/local/pdf/service-descriptions/990336.pdf

Remote Technical Consultation Service (QnA)

Service Deliverables

This service provides End User with access to Juniper engineer who will provide technical advice or help address any in-depth questions relating to the reports or recommendations delivered to the End User as a result of the delivery of any standard pre-packed Services Offerings.

Service Specifications

The scope of the service is limited up to five (5) hours of consulting time relating to any of the pre-packaged Standard Services Offering already delivered to the End User.

Features and Benefits

Feature	Feature Description	Benefits
SIRT Analysis Service		
In-depth analysis	Using a proprietary tool, Juniper engineers conduct a comprehensive analysis of security exposure based on the customer's hardware, software installation base, and configuration.	Minimize risk and downtime to keep the network running in a steady operating state.
Custom report	Juniper engineers report on vulnerabilities that may impact the network environment. The report includes mitigation strategies, recommends ways to work around the vulnerabilities, and suggests Junos code versions to address the vulnerabilities.	Frees up valuable time for network engineers by focusing only on vulnerabilities that are specific to the customer's network.
Security Policy Optimization Service		
In-depth analysis	Juniper engineers perform an in-depth analysis of the customer's existing security policy configuration(s). Analysis covers global address book, applications, and security policies.	Increase the effectiveness of security policies to ensure healthy firewall performance.
Custom report	Juniper engineers identify duplicate database entries and overlapping address objects, share best practices for policy enforcement, and offer advice to increase overall security levels. Customers learn how to improve device performance and reduce administration.	Document advice and guidance to ensure firewall performance and keep the networking operating in a steady, reliable state.
Optimization process	Juniper engineers add new firewall commands to the new policy database, along with justifications for each recommended change.	Reduce risk to ensure a smooth migration to the new database.

Feature	Feature Description	Benefits
Configuration Analysis and Change Review Service		
Product configuration review and analysis	Juniper engineers review and analyze the configuration based on your specified overall requirements to determine whether the current configuration is consistent with best practices for configuring and deploying a specific Juniper Networks product.	Leverage Juniper's unique network expertise to avoid the time and expense of implementing configuration changes that are not optimal for your network and business requirements.
Recommendations on product configuration changes and optimization	Juniper engineers provide tailored recommendations in the form of configuration changes, methodologies, and best practices.	Minimize the OpEx opportunity cost normally incurred with configuration changes by properly implementing configurations recommended by Juniper experts who not only understand Juniper's products better than anyone, but who have taken the time to carefully understand your unique business requirements and network infrastructure.
Implementation Support Service		
Network change implementation technical consultation	Juniper engineers are available during the network change implementation process to assist you with any questions, concerns, or problems during the migration.	Leverage Juniper's award-winning network support expertise to avoid the time and expense of migration implementation that is not optimal for your network and business requirements.
Post network change review	Juniper engineers discuss the network change with you to assess the success and, if appropriate, possible areas of improvement following changes.	Minimize the OpEx opportunity cost normally incurred with a suboptimal migration implementation by taking advantage of the award-winning support expertise and best practices from Juniper engineers. Juniper's networking experts understand Juniper's products better than anyone and have taken the time to carefully understand your unique business requirements and network infrastructure.
Product Issue Impact Review Service		
In-depth product issue impact review and recommendations	Juniper engineers evaluate the defects that match your deployed network profile and provide assessment and recommendations regarding the potential network impact and risk based on your specific business and networking requirements.	Accurately assess both the risk and probability of your network's exposure to known defects, and proactively make recommendation to avoid potential issues or minimize the impact. Allows for careful and informed preemptive operation of your network infrastructure.
Software Upgrade Recommendation and Review Service		
Software upgrade requirements assessment	Juniper engineers review your network change methods and procedures and your acceptance test plan to identify areas of improvement.	Leverage Juniper's industry recognized network expertise and best practices to avoid the time and expense of creating a migration plan that is not optimal for your network and business requirements.
Software release analysis	Juniper engineers analyze the targeted software release to determine the potential impact on your network.	Leverage Juniper's unparalleled network expertise to avoid the time and expense of implementing a software release that isn't optimal for your network and business requirements.
Software upgrade recommendations	Juniper engineers provide software upgrade recommendations based on the target software release analysis.	Minimize the OpEx opportunity cost normally incurred with software upgrades by implementing the optimal software release recommended by Juniper experts who not only understand Juniper's products better than anyone, but who have taken the time to carefully understand your unique business requirements and network infrastructure.
Product Health Check Service		
Device data collection and analysis	Juniper engineers work with you to collect sample device data and analyze that data to determine areas of improvement.	Provides advance notification of identified critical issues that may impact your network and workaround resolution.
Optimization recommendation	Juniper engineers provide recommendations to optimize your network's health and utilization based on known best practices.	Leverage Juniper's unparalleled network expertise to identify solutions that will focus on product improvements that are optimal for your network and business requirements.
Remote Technical Consultation Service (QnA)		
Remote Technical Consultation	This service provides End User with access to Juniper engineer who can help address any in-depth questions or clarifications relating to deliverables of any of the available pre-packed Services Offerings delivered to the End User. As per the pricing and scope of this service, the End User received up to 8 hours of consulting time.	Leverage Juniper's subject matter expertise to further understand potential risks, maximize time value of the Services offering deliverables relevant to the End User's network and proactively address potential network impacting issues

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.

About Juniper Networks

Juniper Networks brings simplicity to networking with products, solutions and services that connect the world. Through engineering innovation, we remove the constraints and complexities of networking in the cloud era to solve the toughest challenges our customers and partners face daily. At Juniper Networks, we believe that the network is a resource for sharing knowledge and human advancement that changes the world. We are committed to imagining groundbreaking ways to deliver automated, scalable and secure networks to move at the speed of business.

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