

Protect Your Business with a Next-Generation Firewall

Next-Generation Firewalls Deliver Better Protection Through Application-Aware Security and User Role-Based Controls

Challenge

Organizations need more control over the applications and traffic on their networks to simultaneously protect their assets against attacks and manage bandwidth usage. The solution needs to be efficient while still delivering high levels of security assurance.

Solution

Juniper Networks® SRX Series Services Gateways deliver next-generation firewall protection with integrated application awareness, intrusion prevention, and role-based user controls, plus best-in-class UTM to protect and control your business assets. This solution is centrally managed using Juniper Networks Junos® Space Security Director.

Benefits

- Protect against application-borne threats and manage bandwidth usage with application-based controls
- Save time and minimize policy-management complexity with user-based and role-based firewall controls
- Protect against network-based exploits, malware, and other content threats with intrusion prevention (IPS) and unified threat management (UTM)
- Streamline operations with a single, central management platform

Organizations are looking for ways to protect their assets amidst today's ever-increasing threat landscape. You only need to look at the latest headlines to see why security is more important than ever. Also, the latest generation of web-based applications, combined with the proliferation of mobile devices, have made it challenging to effectively manage traffic and provide access to data while delivering the right mix of security and network services. There might be hundreds or thousands of applications running across a typical enterprise network—some of these applications are important to the business and some are not.

How do you control what applications are allowed on your network, and how do you restrict those that are not? How do you make sure your network traffic is prioritizing business-critical operations? How do you get stronger security without compromising your operational efficiency? How do you make sure your security doesn't negatively impact your business? This is where a next-generation firewall can help you.

The Challenge

As network infrastructure and threats targeting that infrastructure continue to evolve, so too must network security solutions aimed at protecting organizations. Today's network security solutions must not only have the right architecture to deliver the appropriate mix of performance and scale in an evolving network environment, but they must also deliver the right security services to give administrators visibility and control over the applications traversing their networks.

Many administrators have responded to today's business environment by layering additional security solutions into their environment. It has become common to see organizations deploy multiple security appliances in addition to their firewalls to provide more protection. These additional appliances deliver additional protection, but they can provide network complexity and excessive management overhead, resulting in reduced overall performance.

The Juniper Networks Next-Generation Firewall Solution

Juniper Networks® SRX Series Services Gateways deliver integrated next-generation firewall protection with application awareness, intrusion prevention system (IPS), and user role-based controls plus best-in-class UTM to protect and control your business assets. Next-generation firewalls are able to perform full-packet inspection and apply application-specific and user-specific security policies. This means you can create security policies based on the application running across your network, the user who is receiving or sending network traffic, and simultaneously examine the content that is traveling across your network. This helps protect your environment against threats, manages how your network bandwidth is allocated, and maintains appropriate access controls.

Juniper Networks AppSecure suite of application-aware security services for the SRX Series classifies traffic flows, while bringing greater visibility, enforcement, control, and protection to your network security. AppSecure uses a sophisticated classification engine to accurately identify applications regardless of port or protocol, including applications known for using evasive techniques to avoid identification. It gives you the context to regain control of your network traffic, set and enforce policies based on accurate information, and deliver the performance and scale required to address your business needs. The services enabled by AppSecure include AppTrack for detailed visibility of application traffic, AppFW for granular policy enforcement of application traffic, and AppQoS for prioritization and metering of application traffic.

You can include additional content security through integrated unified threat management (UTM) and intrusion prevention systems (IPS) on the SRX Series for deeper protection against malware, spam, phishing, and application exploits.

Juniper is dedicated to delivering open, flexible solutions. Unlike some next-generation solutions, in addition to the IPS and application signatures developed by Juniper's research teams, you can add custom signatures to your security services. This open signature approach enables you to tailor your solution to solve your specific business needs.

The SRX Series also provides user identity-based controls so you can tailor your security policies to the users or types of users on your network through direct integration with your network directory.

SRX Series Services Gateways come in a broad range of models from branch-office optimized all-in-one security and networking appliances to data center optimized, scalable, high-performance chassis solutions. All SRX Series models support next-generation capabilities. Juniper also offers some next-generation firewall capabilities on Juniper Networks Firefly Perimeter platform.

Next-generation capabilities in the SRX Series and Firefly Perimeter can be centrally managed from a single management platform. You can manage all your security services, perform logging and reporting, as well as segment management responsibilities through role-based access controls in Juniper Networks Junos Space Security Director. Juniper's centralized management is based on Juniper Networks Junos operating system so it shares the same resiliency and massive scalability as Juniper's highly regarded network solutions preferred by most of the world's largest service providers.

The result is a powerful solution that helps bring context and clarity to the setting and enforcement of security policies and helps stop modern malware attacks, all while delivering the industry's highest performance and with the capacity to grow with your business or traffic.

Features and Benefits

- Protect against application-borne security threats and manage bandwidth usage by increasing your control over applications with AppSecure
- Save time and minimize policy management complexity by basing security policies on user-based and role-based information with integration between your SRX Series firewall and your network directory
- Secure your organizations against network-based exploit attacks aimed at application vulnerabilities with an intrusion prevention system (IPS) that accommodates custom signatures
- Protect your business against malware, viruses, phishing attacks, intrusions, spam, and other threats through unified threat management (UTM) with antivirus, antispam, as well as Web filtering and content filtering
- Streamline operations by centrally managing all your next-generation firewalls from the single, highly scalable Junos Space Security Director

Solution Components

AppSecure

AppSecure is a suite of application security capabilities that identifies applications for greater visibility, enforcement, control, and protection of the network. AppSecure detects application behaviors and weaknesses that prevent application-borne security threats that are difficult to detect and stop.

Intrusion Prevention System

Juniper's intrusion prevention system (IPS) protects an organization against network-based exploit attacks aimed at application vulnerabilities.

Unified Threat Management

The SRX Series can include comprehensive content security against malware, viruses, phishing attacks, intrusion attempts, spam, and other threats through unified threat management (UTM). Get a best-in-class UTM solution with antivirus, antispam, Web filtering, and content filtering at a great value by easily adding these services to your SRX Series Services Gateways or Firefly Perimeter virtual firewall. Cloud-based and on-box solutions are both available.

User Role-Based Firewall

Juniper offers a range of user role-based firewall control solutions that support dynamic security policies. User role-based firewall capabilities are integrated with the SRX Series Services Gateways for standard next generation firewall controls. More extensive, scalable, and granular access controls for creating dynamic policies are available through the integration of the SRX Series with a Juniper Networks Unified Access Control solution.

Junos Space Security Director

Security Director provides extensive security scale, granular policy control, and policy breadth across the network. It helps administrators quickly manage all phases of the security policy life cycle for stateful firewall, UTM, IPS, AppSecure, user role-based firewall, VPN, and NAT.

Control and Protect Your Network

Get more control over the applications and traffic on your network, protect your business assets against attacks, and manage your bandwidth usage. A next-generation firewall might be the answer to your business need for more security without additional operational complexity.

SRX Series Services Gateways deliver next-generation firewall protection with application awareness, IPS, and user role-based control options plus best-in-class UTM to help you protect and control your business assets. SRX Series Services Gateways come in a broad range of models from all-in-one security and networking appliances to highly scalable, high-performance chassis options. All solutions can be centrally managed using Junos Space Security Director, and other security services are easily added to existing SRX Series platforms for a cost-effective solution.

Visit www.juniper.net/security or contact your Juniper representative for more information on the SRX Series Services Gateways and our next-generation firewall solution.

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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