Global Investments Company Defends Its Currency Exchange Platform with Smarter Firewalls

Summary

Company:
Global Investment Company

Industry:
Financial Services

Business Challenge:
Satisfy stringent audit requirements to protect market data feeds without sacrificing performance

Technology Solution:
- SRX5600 Services Gateway
- Services Offload
- Juniper Care Plus

Business Results:
- Achieved security performance at scale for market data feeds
- Mitigated risk of attacks from within the trusted network
- Established foundation for security automation

The sophistication and success of cyber attacks are rising. External attacks are nonstop, and the risk is growing from vulnerabilities inadvertently introduced by partners and contractors. As new, record-shattering breaches are reported—seemingly on a weekly basis—more companies are taking additional steps to protect their high-value assets and mitigate the risk of attacks from within. This global investment management company is no exception.

Challenge

As a global investments company, this firm provides investment services, investment management, and wealth management services in dozens of countries and more than 100 markets. It wanted to enhance the protection on its trading floor and currency exchange by adding firewalls between its market data partners. It needed a high-performance, highly resilient solution that would not impede performance of its trading applications. The firewall had to perform flawlessly and with consistent latency even in the face of market data feeds, which have highly variable traffic volumes.

Solution

After a rigorous evaluation, the investments firm deployed Juniper Networks® SRX5600 Series Services Gateways to protect market data applications on its trading floor and collocation facilities. Based on a revolutionary new architecture that combines outstanding protection with market-leading performance, scalability, availability, and security service integration, the SRX5600 delivers consistent performance and low latency, even with the bursty nature of market data feeds.

The ability to scale with the growth of the network infrastructure and carrier-class reliability makes the SRX5600 ideal for the exchange. Services Offload is utilized to satisfy latency requirements. Services Offload is a mechanism for processing fast-path packets in the network processor, instead of the Services Processing Unit of the SRX Series, and it reduces packet-processing latency by 500 percent to 600 percent.

With Juniper protecting the currency trading floor and exchange, the global investments company can mitigate the growing risks of attacks on trusted networks without sacrificing performance.

The SRX Series architecture is designed for resiliency, scalability, and availability. Juniper Networks® Junos® operating system running on the SRX Series supports BGP to work hand-in-glove with the investment firm's switching infrastructure, enabling rapid path recovery when faults occur. The firm can bank on uptime continuity with in-service hardware and software upgrades, redundant components, and carrier-class hardware. Maintenance windows are narrow, and with in-service upgrades, maintenance can be performed without taking the SRX Series gateways offline.

Juniper Professional Services worked closely with the firm to design and configure the firewall infrastructure, ensuring a rapid time-to-value.

Results

With Juniper SRX Series Services Gateways protecting its currency trading floor and exchange, the global investments company can mitigate the growing risks of attacks on trusted internal networks without sacrificing performance—even with latency-sensitive market data transactions. The SRX5600 has delivered uncompromising uptime and availability over the last year. With Juniper, the firm can defend against increasingly sophisticated attacks with smarter protection.

Next Steps

This global investments firm plans to expand its use of internal firewalls with SRX Series Services Gateways, since it can now add protection without sacrificing performance or flexibility. And they have plenty of capacity to expand their use of application services as needed.

For More Information

To find out more about Juniper Networks products and solutions, please visit www.juniper.net.

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.

Corporate and Sales Headquarters

Juniper Networks, Inc.

1133 Innovation Way

Sunnyvale, CA 94089 USA

Phone: 888.JUNIPER (888.586.4737)

or +1.408.745.2000

Fax: +1.408.745.2100

www.juniper.net

APAC and EMEA Headquarters

Juniper Networks International B.V.

Boeing Avenue 240

1119 PZ Schiphol-Rijk

Amsterdam, The Netherlands

Phone: +31.0.207.125.700

Fax: +31.0.207.125.701

3520528-001-EN Feb 2015

JUNIPER
NETWORKS