Software Defined Secure Networks

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Juniper Security Agenda

- Juniper Security Vision – Software Defined Secure Networks
- Juniper Security Services Portfolio
- Juniper Security Platforms Portfolio
Security Market Situation

- Hackers are popping up everywhere
- Security incident every 7 minutes
- Cost increasing per security incident
- Data breaches: 6 successful per day
Most network security strategies focus on security at the perimeter only—outside in.

Is securing the perimeter really enough?

Today’s Enterprise: Perimeter security model

- Security layered on top of network
- Trust model: trust what’s inside the network
- Visibility relies mostly on perimeter firewalls
- Evolving threats requires adaptability
A Change in Mindset

Stop talking about Network Security. Start talking about Secure Networks.

Realize threats are everywhere. They are already inside. They walked in your front door

Recognize perimeter security isn’t enough

Detection and Enforcement should be enabled anywhere

Acknowledge security is everyone’s problem – horizontal and vertical
The Software Defined Secure Network

Operate network as single enforcement domain, every element becomes a policy enforcement point.

**Policy**
- Create and centrally manage policy in natural language.

**Detection**
- Gather and distribute threat intelligence, from multiple sources.
- Leverage cloud economics for real-time analysis.

**Enforcement**
- Adapt and enforce policy to the threat feed information, real time across the network.
Software-Defined Secure Network
Policy, Detection & Enforcement

- Leverage entire network and ecosystem for threat intelligence and detection
- Utilize any point of the network as a point of enforcement
- Dynamically execute policy across all network elements including third party devices
Software-Defined Secure Network
Juniper Building Blocks

Comprehensive suite of products: Centralize and automate security

Instant threat intelligence and detection

Dynamically adapting policy, deployed in real-time

Consistent firewall capabilities – physical and virtual
Juniper’s Security Vision

From Network Security to Secure Networks

Only one in the industry with building blocks for tomorrow’s Software-Defined Secure Network

- **Simplified Policy and Management** across all network elements
- **Adaptable Security Solution** based on real-time threat intelligence information
- **Cost Effective Detection and Enforcement** utilizing the entire network to protect you

*The Juniper Software-Defined Secure Network dynamically adapts to changing threat landscape...so you don’t have to!*
Juniper Security Services Portfolio
Juniper Security Architecture
Comprehensive, Pervasive, and Dynamic Security Reduces Time to Protect

High Performance Security

- C&C, GeoIP feed, other threat intelligence
- Security Director Central Management
  - Policy, App Visibility, Threat Map, Events
- Application Security Services
  - AppSecure, IPS, AV, Web Filtering, AS
- SRX Series
  - Physical Firewall
- vSRX
  - Virtual Firewall

Network Infrastructure

Juniper Threat Defense Intelligence in the Cloud
- Spotlight Secure Threat Intelligence
- Sky Advanced Threat Prevention

Private, Public, Hybrid Cloud Security
- vSRX Virtual Firewall

Comprehensive Solutions: Centralize and Automate Security
- Threat Defense Intelligence services
- Centralized policy management
- Right size firewall for every need – physical or virtual
## Juniper Security Services Overview

### Next Generation Firewall Services
- Application Control & Visibility
- Intrusion Prevention
- User-based Firewall

### Unified Threat Management (Known Threats)
- Anti-virus
- Anti-spam
- Web Filtering

### Threat Intelligence Platform
- Botnets/C&C
- GEO-IP
- Custom Feeds, APT

### Advanced Threat Prevention (Zero Day)
- Sandboxing
- Evasive Malware
- Rich Reporting & Analytics

### SRX Foundation Services
- Firewall
- NAT
- VPN
- Management
- Reporting
- Analytics
- Routing
- Automation

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*Image: Juniper Networks*
Juniper Security Services Products Overview

Next Generation Firewall Services
- App Secure
- SRX, vSRX

Unified Threat Management (Known Threats)
- UTM

Threat Intelligence Platform
- Spotlight Secure

Advanced Threat Prevention (Zero Day)
- Sky Advanced Threat Prevention (ATP)

SRX Foundation Services
- SRX Series Firewalls
- vSRX Virtual Firewall
Positioning Juniper Security Hardware
Previous SRX Product Line

Up to 2Tbps FW throughput and 100 million concurrent sessions scaling

Integrated Routing, Switching and Security
Unprecedented Scale
Single Junos

Branch | Edge | Data Center

1G | 10G | 100G | 1T | 2T

SRX100 | SRX110 | SRX210 | SRX220 | SRX240 | SRX550 | SRX650 | SRX1400 | SRX3400 | SRX3600 | SRX5400 | SRX5600 | SRX5800

vSRX (Virtual SRX)
New SRX Product Line

Up to 2Tbps FW throughput and 258M concurrent sessions scaling

Integrated Routing, Switching and Security
Unprecedented Scale
Single Junos
SRX Product Line Evolution

New hardware platforms & software innovations

SRX300/320/340/345
SRX550
SRX1500
SRX3400
SRX3600
SRX4100
SRX4200
SRX4600
SRX5400
SRX5600
SRX4800
SRX5800

Low End

Branch Refresh
Compact Campus

Midrange

Small Data Center

SRX3400
SRX4100

1U, 20 Gb/s
1U, 40 Gb/s
5U, 20 Gb/s
5U, 480 Gb/s

Mid-sized Data Center

Large Data Center

Very Large Data Center

High End

16U, 2Tbps
2x Perf increase
15.1X49-D10

3U, 320 Gb/s

1U, 80 Gb/s

8U, 960 Gb/s
2x Perf increase
15.1X49-D10

(25 non-SOF)

140 non-SOF

16U, 2Tbps

2x Perf increase
15.1X49-D10

1U, 20 Gb/s

3U, 10 Gb/s

SRX4100

SRX4600

SRX4800

SRX5800

SRX5400

SRX5600

vSRX – Virtual SRX

4 Gb/s (2 vCPU)
20 Gb/s (upto 10 vCPU)

NDA: Juniper Networks Company Confidential

All performance estimates are IMIX

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SRX Series Services Gateways for Enterprise

All in one routing, switching and security in a single platform

Security at every layer with MAC-sec, IPSec and application security

Best end-user application experience and operational efficiency
## vSRX Overview

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Full Stateful Firewall</strong></td>
<td>SRX in virtual machine format, firewall protection for private and hybrid environments, HA support for active/active and active/passive modes, supports VMware, KVM and Contrail platforms</td>
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<tr>
<td><strong>Rich Routing and Networking Capabilities</strong></td>
<td>VPN connectivity and routing features in a flexible virtual machine format based on proven Junos OS foundation</td>
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<tr>
<td><strong>Advanced Security Services</strong></td>
<td>Integrated UTM including full Anti-virus, Anti-spam, Web-filtering, Content-filtering, IPS and AppSecure 2.0 capabilities</td>
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<tr>
<td><strong>Automated VM Lifecycle</strong></td>
<td>Automates management of vSRX VM lifecycle, from provisioning to decommissioning</td>
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Questions ?
Thank you
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