

# Security Products Comparison Chart

SRX and vSRX (formerly Firefly Perimeter) Performance and Features Matrix		SRX100	SRX110	SRX210	SRX220	SRX240	SRX550	SRX650
		Branch / Office	Branch / Office	Branch / Office	Branch / Office	Branch / Office	Branch / Office	Large Office
<b>Performance</b>	Firewall throughput (large packets)	700 Mbps	700 Mbps	850 Mbps	950 Mbps	1.8 Gbps	5.5 Gbps	7 Gbps
	Firewall throughput (IMIX)	200 Mbps	200 Mbps	250 Mbps	300 Mbps	600 Mbps	1.7 Gbps	2.5 Gbps
	IPsec VPN 3DES/AES throughput (large packets)	65 Mbps	65 Mbps	85 Mbps	100 Mbps	300 Mbps	1.0 Gbps	1.5 Gbps
	IPS throughput	75 Mbps	75 Mbps	65 Mbps	80 Mbps	230 Mbps	800 Mbps	1 Gbps
	Antivirus (Sophos AV) throughput	25 Mbps	25 Mbps	30 Mbps	35 Mbps	85 Mbps	300 Mbps	350 Mbps
	Maximum concurrent sessions <sup>1</sup>	32K	32K	64K	96K	256K	375K	512K
	Connections/Sec	1.8K	1.8K	2.2K	2.8K	8.5K	27K	35K
	Interfaces	8x10/100	8x10/100 + 1xVDSL	2 10/100/1000 + 6 10/100, optional PoE, 1 I/O slot supporting SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL	8 10/100/1000, optional PoE, 2 I/O slots supporting SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL	16 10/100/1000, optional PoE, 4 I/O slots supporting SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL	6 10/100/1000 + 4 SFP, 8 I/O slots supporting GbE, PoE, SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL, DS3, E3	4 10/100/1000, 8 I/O slots supporting GbE, PoE, SFP, T1, E1, Serial, DS3, E3
<b>Firewall</b>	DoS and DDoS protection (Layers 3 and 4)	X	X	X	X	X	X	X
	TCP reassembly for fragmented packet protection	X	X	X	X	X	X	X
	Brute force attack mitigation	X	X	X	X	X	X	X
	SYN cookie protection	X	X	X	X	X	X	X
	Zone-based IP spoofing	X	X	X	X	X	X	X
	Malformed packet protection	X	X	X	X	X	X	X
<b>VPN</b>	IPsec VPN	X	X	X	X	X	X	X
<b>Security Intelligence for advanced threat protection</b>	Integration with Spotlight Secure for protection from Command and Control related bots, Web application threats, and policy enforcement based on GeoIP	N/A	N/A	N/A	N/A	X	X	X
<b>NGFW/L7 Security Services</b>	Intrusion Prevention System (IPS)	X	X	X	X	X	X	X
	AppTrack <sup>2</sup>	X	X	X	X	X	X	X
	AppFirewall <sup>3</sup>	X	X	X	X	X	X	X
	AppQoS <sup>4</sup>	X	X	X	X	X	X	X
	AppID (Application Awareness) <sup>5</sup>	X	X	X	X	X	X	X
	User Firewall: On-box <sup>6</sup>	X	X	X	X	X	X	X
	User Firewall: Integrated w/Juniper's Unified Access Control (UAC)	X	X	X	X	X	X	X
	SSL Forward Proxy <sup>7</sup>	N/A	N/A	N/A	N/A	X	X	X
SSL Reverse Proxy								
<b>UTM<sup>9</sup></b>	Antivirus	X	X	X	X	X	X	X
	Antispam	X	X	X	X	X	X	X
	Web filtering	X	X	X	X	X	X	X
	Content filtering	X	X	X	X	X	X	X
<b>Networking</b>	Routing	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast
	Multiple WAN, WLAN, LAN options	X	X	X	X	X	X	X
<b>Availability</b>	High Availability (A/P, A/A) <sup>11</sup>	X	N/A	X	X	X	X	X
	Separate Control and Data Planes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	In-Service SW & HW Upgrade	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>NAT</b>	NAT	X	X	X	X	X	X	X
<b>Management</b>	Centralized management	X	X	X	X	X	X	X

SRX and vSRX (formerly Firefly Perimeter) Performance and Features Matrix		SRX1400	SRX3400	SRX3600	SRX5400	SRX5600	SRX5800	vSRX*
		Small / med data center	Med / large data center	Med / large data center	High-perf data center	High-perf data center	High-perf data center	Virtual DC/ Public or Private Cloud
<b>Performance</b>	Firewall throughput (large packets) / Express Path	10 Gbps	30 Gbps	55 Gbps	65 Gbps / 240 Gbps	130 Gbps / 480 Gbps	320 Gbps / 2 Tbps	UDP 1514B pkts: VMware: 17 Gbps; KVM: 13.5 Gbps
	Firewall throughput (IMIX)	5 Gbps	10 Gbps	20 Gbps	30 Gbps	65 Gbps	130 Gbps	VMware: 4 Gbps; KVM: 3 Gbps
	IPsec VPN 3DES/AES throughput (large packets)	4 Gbps	8 Gbps	15 Gbps	43 Gbps	75 Gbps	150 Gbps	AES+SHA1, VMware: 800 Mbps; KVM: 700 Mbps
	IPS throughput	3 Gbps	8 Gbps	15 Gbps	22 Gbps	50 Gbps	100 Gbps	VMware: 1.8 Gbps; KVM: 1.4 Gbps
	Antivirus (Sophos AV) throughput <sup>10</sup>	1.29 Gbps	2.5 Gbps	4.5 Gbps	Coming soon	5.8 Gbps	13.5 Gbps	VMware: 490 Mbps; KVM: 380 Mbps
	Maximum concurrent sessions	1.5M	2.25M/3M (add'l Extreme License required)	2.25M/6M (add'l Extreme License required)	28M	100M	100M	520K
	Connections/Sec	70K	150K	150K/270K (add'l license required)	450K	450K	450K	VMware: 54K; KVM: 36K
<b>Firewall</b>	Interfaces	6 10/100/1000 + 6 SFP or 6 10/100/1000 + 3 SFP and 3 10GbE (on board) plus optional 16 SFP GbE, 16 10/100/1000, or 2 XFP 10GbE	8 10/100/1000 + 4 SFP (on-board) plus optional 16 SFP GbE, 16 10/100/1000, or 2 XFP 10 GB	8 10/100/1000 + 4 SFP (on-board) plus optional 16 SFP GbE, 16 10/100/1000, or 2 XFP 10 GB	Multiple options: 1 GbE, 10 GbE, 40 GbE, 100 GbE	Multiple options: 1 GbE, 10 GbE, 40 GbE, 100 GbE	Multiple options: 1 GbE, 10 GbE, 40 GbE, 100 GbE	Virtual NICs: VMware: 10; KVM: 8
	DoS and DDoS protection (Layers 3 and 4)	X	X	X	X	X	X	X
	TCP reassembly for fragmented packet protection	X	X	X	X	X	X	X
	Brute force attack mitigation	X	X	X	X	X	X	X
	SYN cookie protection	X	X	X	X	X	X	X
	Zone-based IP spoofing	X	X	X	X	X	X	X
<b>VPN</b>	Malformed packet protection	X	X	X	X	X	X	X
	IPsec VPN	X	X	X	X	X	X	X
<b>Security Intelligence for advanced threat protection</b>	Integration with Spotlight Secure for protection from Command and Control related bots, Web application threats, and policy enforcement based on GeolIP	X	X	X	X	X	X	N/A

\*Performance, capacity and features listed are based on the vSRX running Junos OS 15.1X49-D15 and are measured under ideal testing conditions. Actual results may vary based on Junos OS releases and by deployments. For vSRX, the reference platform for performance was a Dell PowerEdge R920, 12 Core, 3.4 GHz CPUs, SR-IOV enabled. VMware tests were based on ESXi5.5; KVM tests were based on Ubuntu-14.04. Actual performance will depend on the underlying hardware configuration (some server configurations may perform better).

SRX and vSRX (formerly Firefly Perimeter) Performance and Features Matrix		SRX1400	SRX3400	SRX3600	SRX5400	SRX5600	SRX5800	vSRX
		Small / med data center	Med / large data center	Med / large data center	High-perf data center	High-perf data center	High-perf data center	Virtual DC/ Public or Private Cloud
NGFW/L7 Security Services	Intrusion Prevention System (IPS)	X	X	X	X	X	X	X
	AppTrack	X	X	X	X	X	X	X
	AppFirewall	X	X	X	X	X	X	X
	AppQoS <sup>4</sup>	X	X	X	X	X	X	X
	AppID (Application Awareness)	X	X	X	X	X	X	X
	User Firewall: On-box <sup>6</sup>	X	X	X	X	X	X	N/A
	User Firewall: Integrated w/Juniper's Unified Access Control (UAC) <sup>13</sup>	X	X	X	X	X	X	N/A
	SSL Forward Proxy	X	X	X	X	X	X	N/A
SSL Reverse Proxy <sup>8</sup>	X	X	X	X	X	X	N/A	
UTM <sup>9</sup>	Antivirus	X	X	X	X	X	X	X
	Antispam	X	X	X	X	X	X	X
	Web filtering	X	X	X	X	X	X	X
	Content filtering	X	X	X	X	X	X	X
Networking	Routing	OSPF, BGP, RIPv1/v2, Multicast	OSPF, BGP, RIPv1/v2, Multicast	OSPF, BGP, RIPv1/v2, Multicast	OSPF, BGP, RIPv1/v2, Multicast	OSPF, BGP, RIPv1/v2, Multicast	OSPF, BGP, RIPv1/v2, Multicast	X
	Multiple WAN, WLAN, LAN options	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Availability	High Availability (A/P, A/A) <sup>11,12</sup>	X	X	X	X	X	X	X
	Separate Control and Data Planes	X	X	X	X	X	X	N/A
	In-Service SW & HW Upgrade	X	X	X	X	X	X	N/A
NAT	NAT	X	X	X	X	X	X	X
Management	Centralized management	X	X	X	X	X	X	X

1. Maximum concurrent sessions for SRX100->SRX240: Based on 2 GbE memory models, which require Junos OS 12.1X44-D15 (exception: Junos OS 11.4r5 for SRX240 only).

2. AppTrack for SRX100->SRX650 currently supported for IPv4 and also IPv6 L3 (roadmap for L2 support).

3. AppFirewall for SRX100->SRX650 currently supported for IPv4 and also IPv6 L3 (roadmap for L2 support).

4. AppQoS for SRX100->SRX650 currently supported for IPv4 (roadmap for IPv6 support). AppQoS for SRX1400->SRX5800 currently supported for IPv4 and also IPv6 L3 (IPv6 L2 in QA).

5. AppID for SRX100->SRX650 currently supported for IPv4 and also IPv6 L3 (roadmap for L2 support).

6. User FW for SRX100->SRX5800 currently supported for IPv4 only.

7. SSL Forward Proxy for SRX100->SRX650 currently supported for IPv4 (roadmap for IPv6 support).

8. SSL Reverse Proxy for SRX1400->SRX5800 currently supported for IPv4 only.

9. Unified Threat Management for SRX100->SRX650 currently supported for IPv4 only. Unified Threat Management for SRX1400->SRX5800 currently supported for IPv4 L3 only.

10. For SRX series, the performance numbers are with current generation SPCs. Numbers will be higher with next generation SPCs (to be published in 2H2014).

11. High availability definitions: A/P = Active / Passive mode, A/A = Active / Active mode.

12. High Availability - For SRX1400, Active/Active is not supported in Junos OS 10.4. For vSRX (formerly Firefly Perimeter), High Availability is currently supported on VMware; KVM support is planned for 12.1X47D15 release.

13. For vSRX, Determinist User FW with Juniper's UAC - we do support L3 enforcement in UAC deployments

This table has been published for Q3-2015.

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