

# Juniper Networks NetScreen-5200/5400



The Juniper Networks NetScreen-5000 Series is a line of purpose built, high-performance security systems designed to deliver a new level of high-performance capabilities for large enterprise, carrier, and data center networks. The NetScreen-5000 Series consists of two products, the 2-slot NetScreen-5200 and the 4-slot NetScreen-5400. The NetScreen-5000 Series security systems integrate firewall, DoS and DDoS protection, VPN, and traffic management functionality in low-profile security chassis. Built around NetScreen's third generation security ASIC and distributed system architecture, the NetScreen-5000 Series offers excellent scalability and flexibility while providing high levels of security through NetScreen's custom operating system, NetScreen ScreenOS. The NetScreen-5000 Series employs a switch fabric for data exchange and separate multi-bus channel for control information, delivering scalable performance for the most demanding environments.

	Juniper Networks NetScreen-5200 <sup>(1)</sup>	Juniper Networks NetScreen-5400 <sup>(1)</sup>
<b>Maximum Performance and Capacity<sup>(2), (8)</sup></b>		
Firewall performance	4 Gbps	12 Gbps
3DES performance	2 Gbps	6 Gbps
Deep Inspection performance	500/375 Mbps <sup>(7)</sup>	500/375 Mbps <sup>(7)</sup>
Concurrent sessions	1,000,000 <sup>(5)</sup>	1,000,000 <sup>(5)</sup>
New sessions/second	31,000/26,000 <sup>(7)</sup>	31,000/24,000 <sup>(7)</sup>
Policies	40,000 <sup>(5)</sup>	40,000 <sup>(5)</sup>
Interfaces	8 mini GBIC (SX or LX) or 2 mini GBIC + 24 10/100 Base-T	24 mini GBIC (SX or LX) or 6 mini GBIC + 72 10/100 Base-T

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>Mode of Operation</b>	
Layer 2 mode (transparent mode) <sup>(5)</sup>	Yes
Layer 3 mode (route and/or NAT mode)	Yes
NAT (Network Address Translation)	Yes
PAT (Port Address Translation)	Yes
Policy-based NAT	Yes
Virtual IP	8/32 per VSYS
Mapped IP	10,000 <sup>(4)</sup>
Users supported	Unrestricted

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>Firewall</b>	
Number of network attacks detected	31
Network attack detection	Yes
DoS and DDoS protections	Yes
TCP reassembly for fragmented packet protection	Yes
Malformed packet protections	Yes
Deep Inspection firewall	Yes
Protocol anomaly	Yes
Stateful protocol signatures	Yes
DI Protocols supported	HTTP, FTP, SMTP, POP, IMAP, DNS, NetBIOS/SMB, MS-RPC, P2P, IM
Number of application attacks detected w/DI	over 600
Content Inspection	Yes
Embedded antivirus	No
Malicious Web filtering	up to 48 URLs
External Web filtering (Websense or SurfControl)	Yes
Integrated Web Filtering	No

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>VPN</b>	
VPN tunnels (site-to-site or manual)	up to 16,000 <sup>(3)</sup>
Concurrent VPN tunnels (dynamic dialup)	up to 25,000 <sup>(3)</sup>
Tunnel interfaces	up to 4,095
DES (56-bit), 3DES (168-bit) and AES encryption	Yes
MD-5 and SHA-1 authentication	Yes
Manual Key, IKE, PKI (X.509)	Yes
Perfect forward secrecy (DH Groups)	1,2,5
Prevent replay attack	Yes
Remote access VPN	Yes
L2TP within IPsec	Yes
IPsec NAT Traversal	Yes
Redundant VPN gateways	Yes
VPN tunnel monitor	Yes

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>Firewall and VPN User Authentication</b>	
Built-in (internal) database - user limit	up to 25,000 <sup>(3)</sup>
3rd Party user authentication	RADIUS, RSA SecurID, and LDAP
XAUTH VPN authentication	Yes
Web-based authentication	Yes

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>Logging/Monitoring</b>	
Syslog (multiple servers)	External, up to 4 servers
E-mail (2 addresses)	Yes
NetIQ WebTrends	External
SNMP (v1, v2)	Yes
Standard and custom MIB	Yes
Traceroute	Yes

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>Virtualization</b>	
Maximum number of Virtual Systems	0 default, upgradeable to 500 <sup>(6)</sup>
Maximum number of security zones	16 default, upgradeable to 1,016 <sup>(6)</sup>
Maximum number of virtual routers	3 default, upgradeable to 503 <sup>(6)</sup>
Number of VLANs supported (8G SPM)	4,000 max; 500 per port
Number of VLANs supported (2G24FE SPM)	1,254 max; 500 per GigE port/ 254 shared among 24 10/100 ports

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>Routing</b>	
OSPF/BGP dynamic routing	up to 8 instances each <sup>(5), (8)</sup>
RIPv1/v2 dynamic routing	up to 512 instances <sup>(5)</sup>
Static routes	30,000 <sup>(3)</sup>
Source-based routing	Yes
Equal cost multi-path routing	Yes

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>High Availability (HA)</b>	
Active/Active	Yes
Active/Passive	Yes
Redundant Interfaces	Yes
Configuration synchronization	Yes
Session synchronization for firewall and VPN	Yes
Session failover for routing change	Yes
Device failure detection	Yes
Link failure detection	Yes
Authentication for new HA members	Yes
Encryption of HA traffic	Yes

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>VoIP</b>	
H.323 ALG	Yes
SIP ALG	Yes
NAT for H.323/SIP	Yes

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>IP Address Assignment</b>	
Static	Yes
DHCP, PPPoE client	No
Internal DHCP server	No
DHCP relay	Yes

	Juniper Networks NetScreen-5000 Series <sup>(1)</sup>
<b>PKI Support</b>	
PKI Certificate requests (PKCS 7 and PKCS 10)	Yes
Automated certificate enrollment (SCEP)	Yes
Online Certificate Status Protocol (OCSP)	Yes
Self Signed Certificates	Yes
Certificate Authorities Supported	
Verisign	Yes
Entrust	Yes
Microsoft	Yes
RSA Keon	Yes
iPlanet (Netscape)	Yes
Baltimore	Yes
DOD PKI	Yes

## Juniper Networks NetScreen-5000 Series

### System Management

WebUI (HTTP and HTTPS)	Yes
Command Line Interface (console)	Yes
Command Line Interface (telnet)	Yes
Command Line Interface (SSH)	Yes, v1.5 and v2.0 compatible
NetScreen-Security Manager	Yes
All management via VPN tunnel on any interface	Yes
SNMP Full Custom MIB	Yes
Rapid deployment	No

### Administration

Local administrators database	20
External administrator database	RADIUS/LDAP/SecurID
Restricted administrative networks	6
Root Admin, Admin, and Read Only user levels	Yes
Software upgrades	TFTP/WebUI/SCP/NSM
Configuration Roll-back	Yes

### Traffic Management

Guaranteed bandwidth	No
Maximum bandwidth	Yes, per physical interface
Priority-bandwidth utilization	No
DiffServ stamp	Yes, per policy

### External Flash

CompactFlash™	Supports 128 or 512 MB
Industrial Grade SanDisk	
Event logs and alarms	Yes
System config script	Yes
NetScreen ScreenOS software	Yes

### Dimensions and Power

	Juniper Networks NetScreen-5200	Juniper Networks NetScreen-5400
Dimensions (H/W/L)	3.4/17.5/20 in.	8.6/17.5/14 in.
Weight	37 lbs.	45 lbs.
Rack mountable	19" standard, 23" optional	19" standard, 23" optional
Power Supply (AC)	90 to 264 VAC, 150 watts	90 to 264 VAC, 300 watts
Power Supply (DC)	-36 to -72 VDC, 150 watts	-36 to -72 VDC, 300 watts

### Certifications

Safety Certifications	UL, CUL, CSA, CB, Austel, NEBS Level 3 NEBS Level 3 NS-5000-MGT Management Module
EMC Certifications	FCC class A, BSMI, CE class A, C-Tick, VCCI class A
Security	Common Criteria EAL4 plus (with NS-5200/8G and NS-5000-MGT Management Module) FIPS 140 Level 2 (with NS-5200/8G and NS-5000-MGT Management Module)

### Environment

Operational temperature:	32 to 105° F, 0 to 45° C
Non-operational temperature:	-4 to 158° F, -20 to 70° C
Humidity:	10 to 90% non-condensing

### MTBF (Bellcore model)

NetScreen-5200: 7.9 years, NetScreen-5400: 7.0 years

- (1) Performance, capacity and features listed are based upon systems ScreenOS 5.1.0 and may vary with other ScreenOS releases. Actual throughput may vary based upon packet size and enabled features.
- (2) Performance and capacity provided are the measured maximums under ideal testing conditions. May vary by deployment.
- (3) Shared among all Virtual Systems
- (4) Not available with Virtual Systems

## Ordering Information

Product		Part Number
<b>Juniper Networks NetScreen-5200 bundles</b>		
NetScreen-5200	1 2G24FE SPM, 0 VSYS, AC	NS-5200-P00A-S00
NetScreen-5200	1 2G24FE SPM, 0 VSYS, DC	NS-5200-P00D-S00
NetScreen-5200	1 8G SPM, 0 VSYS, AC	NS-5200-P01A-S00
NetScreen-5200	1 8G SPM, 0 VSYS, DC	NS-5200-P01D-S00
NetScreen-5200	1 8G SPM, 100 VSYS, AC	NS-5200-P01A-S01
NetScreen-5200	1 8G SPM, 100 VSYS, DC	NS-5200-P01D-S01
NetScreen-5200	1 8G SPM, 500 VSYS, AC	NS-5200-P01A-S02
NetScreen-5200	1 8G SPM, 500 VSYS, DC	NS-5200-P01D-S02

### Juniper Networks NetScreen 5200 bundles with Management 2

NetScreen-5200	5200, 2G24FE, AC, no VSYS, MGT2	NS-5200-P10A-S00
NetScreen-5200	5200, 2G24FE, DC, no VSYS, MGT2	NS-5200-P10D-S00
NetScreen-5200	5200, 8G, AC, no VSYS, MGT2	NS-5200-P11A-S00
NetScreen-5200	5200, 8G, DC, no VSYS, MGT2	NS-5200-P11A-S00

### Juniper Networks NetScreen-5400 bundles

NetScreen-5400	1 2G24FE SPM, 0 VSYS, AC	NS-5400-P00A-S00
NetScreen-5400	1 2G24FE SPM, 0 VSYS, DC	NS-5400-P00D-S00
NetScreen-5400	1 8G SPM, 0 VSYS, AC	NS-5400-P01A-S00
NetScreen-5400	1 8G SPM, 0 VSYS, DC	NS-5400-P01D-S00
NetScreen-5400	1 8G SPM, 100 VSYS, AC	NS-5400-P01A-S01
NetScreen-5400	1 8G SPM, 100 VSYS, DC	NS-5400-P01D-S01
NetScreen-5400	1 8G SPM, 500 VSYS, AC	NS-5400-P01A-S02
NetScreen-5400	1 8G SPM, 500 VSYS, DC	NS-5400-P01D-S02

### Juniper Networks NetScreen-5400 bundles with Management 2

NetScreen-5400	5400, 2G24FE, AC, no VSYS, MGT2	NS-5400-P10A-S00
NetScreen-5400	5400, 2G24FE, DC, no VSYS, MGT2	NS-5400-P10D-S00
NetScreen-5400	5400, 8G, AC, no VSYS, MGT	NS-5400-P11A-S00
NetScreen-5400	5400, 8G, DC, no VSYS, MGT2	NS-5400-P11D-S00

### Juniper Networks NetScreen-5000 Virtual System Upgrades

NetScreen-5000	VSYS Upgrade 0 to 5	NS-5000-VSYS-5
NetScreen-5000	VSYS Upgrade 5 to 25	NS-5000-VSYS-25
NetScreen-5000	VSYS Upgrade 25 to 50	NS-5000-VSYS-50
NetScreen-5000	VSYS Upgrade 50 to 100	NS-5000-VSYS-100
NetScreen-5000	VSYS Upgrade 100 to 250	NS-5000-VSYS-250
NetScreen-5000	VSYS Upgrade 250 to 500	NS-5000-VSYS-500
NetScreen-5000	VSYS Upgrade 0 to 500	NS-5000-VSYS

Every Virtual System includes one virtual router and two security zones, usable in the virtual or root system

### Juniper Networks NetScreen-5000 Components

Management Module	NS-5000-MGT
Management Module 2	NS-5000-MGT2
8G (8 mini-GBIC) Secure Port Module	NS-5000-8G
2G24FE (2 mini-GBIC24 10/100) Secure Port Module	NS-5000-2G24FE
mini-GBIC transceiver - SX	NS-SYS-GBIC-MSX
mini-GBIC transceiver - LX	NS-SYS-GBIC-MLX

### Juniper Networks NetScreen-5200 Components

NetScreen-5200	Chassis	NS-5200-CHA
NetScreen-5200	AC Power Supply	NS-5200-PWR-AC
NetScreen-5200	DC Power Supply	NS-5200-PWR-DC
NetScreen-5200	Fan Assembly	NS-5200-FAN

### Juniper Networks NetScreen-5400 Components

NetScreen-5400	Chassis	NS-5400-CHA
NetScreen-5400	AC Power Supply	NS-5400-PWR-AC
NetScreen-5400	DC Power Supply	NS-5400-PWR-DC
NetScreen-5400	Fan Assembly	NS-5400-FAN

- (5) NAT, PAT, policy based NAT, virtual IP, mapped IP, virtual systems, virtual routers, VLANs, OSPF, BGP, RIPv2, Active/Active HA, and IP address assignment are not available in layer 2 transparent mode. The SPM 8G allows VLAN tags to pass through the firewall, but the SPM 2G24FE does not allow VLAN tags to pass through the firewall.
- (6) Requires purchase of virtual system key. Every virtual system includes one virtual router and two security zones, usable in the virtual or root system.
- (7) Listed first higher performance numbers achieved by systems equipped with Management Module 2
- (8) These capacities apply to ScreenOS 5.1 which will be available on Management Module 2 in 2005



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