



NETSCREEN SERIES SECURITY SYSTEMS

Product Overview

The Juniper Networks NetScreen Series is a line of purpose-built, high-performance security systems designed for large enterprise, carrier, and data center networks. Architected with both existing and future network design in mind, the NetScreen Series consists of two platforms: the 2-slot NetScreen-5200 and the 4-slot NetScreen-5400. Integrating firewall, VPN, traffic management functionality, Denial of Service (DoS) and Distributed Denial of Service (DDoS) protection in a low profile modular chassis, the NetScreen Series delivers scalable performance for the most demanding network environments.

Product Description

The Juniper Networks® NetScreen Series Security Systems are ideally suited for large enterprise network backbones, including:

- Departmental or campus segmentation
- Enterprise data centers for securing high-density server environments
- Carrier-based managed services or core infrastructure

Offering excellent scalability and flexibility while providing high levels of security, the NetScreen Series is differentiated by its chassis configuration for fans, power supplies, and number of slots for modules. Both the Juniper Networks NetScreen-5200 and Juniper Networks NetScreen-5400 support secure port modules that offer different throughput and interface options for deployment flexibility. All chassis are designed with hot-swappable, redundant fans and power supplies. This enables businesses to maximize device uptime and meet stringent government and industry certifications, such as the rigorous Network Equipment Building System criteria, the requirement for equipment used in the central office in the North American Public Switched Network.

Employing a switch fabric for data exchange and separate multi-bus channel for control information, the NetScreen Series can scale up to 30 Gbps firewall and 15 Gbps 3DES/AES VPN. It provides low-latency performance for all packet sizes and is ideal for multimedia, VoIP, and other streaming media applications.

Juniper Networks delivers all the components necessary to build and secure a highly available infrastructure. Redundant links for full-mesh topologies, sub-second stateful fail-over, path monitoring, and a secured control protocol all join to provide complete resilience for the security layer. The NetScreen Series also supports Juniper Networks virtual systems capability, with capacity up to 500 virtual systems. Virtual systems allow a single security device to be partitioned logically into multiple security domains, each with a unique virtual router, policy set, address book, and administrative login. Virtual systems can be used with physical interfaces, as well as VLAN tagged interfaces bound to any interface, with multiple security zones supported within each virtual system.

Whether the requirement is high-capacity session/tunnel aggregation, high-performance small-packet throughput, a high degree of system virtualization or a high degree of physical segmentation, the NetScreen Series is the ideal platform for large enterprise and carrier grade networks. The additional benefits associated with lower total cost of ownership and the ability to meet future service or application requirements make the NetScreen Series firewall/VPN the clear choice for network security operations.

Juniper Networks further expands overall system functionality and performance by introducing a new management module and three new secure port modules (SPMs) for the NetScreen Series. The new management module takes advantage of faster CPU speeds and larger CPU cache to enhance performance while the new SPMs take advantage of Juniper's fourth generation security ASIC to deliver advanced functionality at multi-gigabit rates. These new management and SPM modules deliver the Juniper heritage of high-performance security while expanding capabilities and capacities for NetScreen Series customers.

Features and Benefits

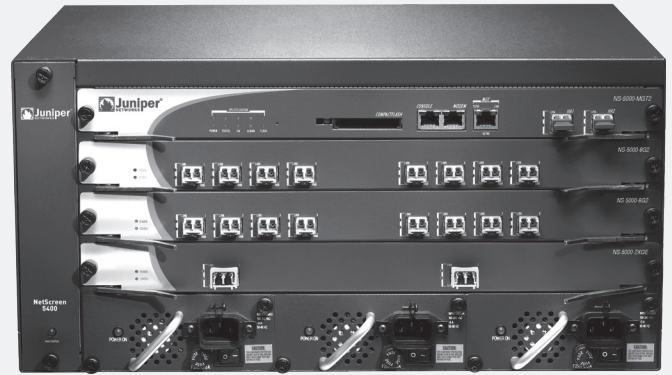
| FEATURE | FEATURE DESCRIPTION | BENEFIT |
|-----------------------------------|--|--|
| Purpose-built platform | Modular, chassis-based security systems. | Delivers the high performance and configuration flexibility required to protect large enterprise and carrier environments. |
| High performance | ASIC based architecture employs a switch fabric for data exchange and a separate multi-bus channel for control information. | Ensures scalable performance and low latency in sensitive applications such as VoIP and streaming media. |
| Advanced network segmentation | Security zones, virtual LANs and virtual routers allow administrators to deploy security policies to isolate guests, regional servers, or databases. | Prevents unauthorized access, contains any attacks that may occur, and facilitates regulatory compliance. |
| System and network resiliency | Hardware component redundancy and full mesh configurations enable redundant physical paths in the network. | Provides the reliability required for high-speed network deployments. |
| High availability (HA) | Active/passive, active/active and active/active full mesh HA configurations using dedicated high availability interfaces. | Achieve maximum availability and ensure synchronization for sub-second failover between interfaces or devices. |
| Interface flexibility | Modular architecture enables deployment with a wide variety of interface options, including SFP (SX, LX, TX) and XFP 10 gigabit (SR or LR). | Simplifies network integration and helps reduce the cost of future network upgrades. |
| Robust routing engine | The NetScreen Series routing engine supports OSPF, BGP, RIP v1/2, transparent Layer 2 operation, NAT and Route mode. | Facilitates the deployment of the NetScreen Series as a combined security and LAN routing device, lowering operational and capital expenditures. |
| Virtual system support | Supports up to 500 virtual firewalls – each with a unique set of administrators, policies, VPNs, and address books. | Reduces the number of physical units and allows the partitioning of the network into separate administrative domains. |
| World-class professional services | From simple lab testing to major network implementations, Juniper Networks Professional Services will collaborate with your team to identify goals, define the deployment process, create or validate the network design, and manage the deployment. | Transforms the network infrastructure to ensure that it is secure, flexible, scalable, and reliable. |

Product Options

| OPTION | OPTION DESCRIPTION | APPLICABLE PRODUCTS |
|----------------------------------|--|-----------------------------------|
| Integrated IPS (Deep Inspection) | Prevents application level attacks from flooding the network using a combination of stateful signatures and protocol anomaly detection mechanisms. IPS is annually licensed. | NetScreen-5200 and NetScreen-5400 |
| Web filtering (redirect) | Block access to malicious Web sites using a Web filtering redirect solution such as SurfControl or Websense technology. | NetScreen-5200 and NetScreen-5400 |
| Virtual systems | Supports up to 500 virtual firewalls—each with a unique set of administrators, policies, VPNs, and address books. | NetScreen-5200 and NetScreen-5400 |



NETSCREEN-5200



NETSCREEN-5400

Specifications

| | NETSCREEN-5200 | NETSCREEN-5400 |
|---|---|---|
| Maximum Performance and Capacity¹ | | |
| ScreenOS [®] version tested | ScreenOS 6.2 | ScreenOS 6.2 |
| Firewall performance (large packets) ² | 10/8 Gbps | 30/24 Gbps |
| Firewall performance (small packets) | 4 Gbps | 12 Gbps |
| Firewall Packets Per Second (64 byte) | 6 M PPS | 18 M PPS |
| AES256+SHA-1 VPN performance ² | 5/4 Gbps | 15/12 Gbps |
| 3DES+SHA-1 VPN performance ² | 5/4 Gbps | 15/12 Gbps |
| Maximum concurrent sessions ³ | 1,000,000 | 2,000,000 ⁽⁹⁾ |
| New sessions/second ¹⁰ | 26,500/22,000 | 26,500/22,000 |
| Maximum security policies | 40,000 | 40,000 |
| Maximum users supported | Unrestricted | Unrestricted |
| Network Connectivity | | |
| Fixed I/O | 0 | 0 |
| Interface expansion slots | 2 (1 x Management, 1 x SPM) | 4 (1 x Management, 3 x SPM) |
| LAN interface options | 8 mini-GBIC (SX, LX or TX), or 2 XFP 10Gig (SR or LR) | 8 mini-GBIC (SX, LX or TX), or 2 XFP 10Gig (SR or LR) |
| Firewall | | |
| Network attack detection | Yes | Yes |
| Denial of Service (DoS) and Distributed Denial of Service (DDoS) protection | Yes | Yes |
| TCP reassembly for fragmented packet protection | Yes | Yes |
| Brute force attack mitigation | Yes | Yes |
| SYN cookie protection | Yes | Yes |
| Zone-based IP spoofing | Yes | Yes |
| Malformed packet protection | Yes | Yes |
| Unified Threat Management / Content Security⁴ | | |
| IPS (Deep Inspection firewall) | Yes | Yes |
| Protocol anomaly detection | Yes | Yes |
| Stateful protocol signatures | Yes | Yes |
| IPS/Deep Inspection attack pattern obfuscation | Yes | Yes |
| External URL filtering ⁵ | Yes | Yes |

Specifications (continued)

| | NETSCREEN-5200 | NETSCREEN-5400 |
|--|---|---|
| VoIP Security | | |
| H.323 ALG | Yes | Yes |
| SIP ALG | Yes | Yes |
| MGCP ALG | Yes | Yes |
| SCCP ALG | Yes | Yes |
| NAT for VoIP protocols | Yes | Yes |
| IPsec VPN | | |
| Concurrent VPN tunnels ³ | Up to 25,000 | Up to 25,000 |
| Tunnel interfaces ³ | Up to 4,095 | Up to 4,095 |
| DES (56-bit), 3DES (168-bit) and AES encryption | Yes | Yes |
| MD-5 and SHA-1 authentication | Yes | Yes |
| Manual key, IKE, PKI (X.509), IKEv2 with EAP | Yes | Yes |
| Perfect forward secrecy (DH Groups) | 1,2,5 | 1,2,5 |
| Prevent replay attack | Yes | Yes |
| Remote access VPN | Yes | Yes |
| L2TP within IPsec | Yes | Yes |
| IPsec NAT traversal | Yes | Yes |
| Redundant VPN gateways | Yes | Yes |
| User Authentication and Access Control | | |
| Built-in (internal) database - user limit ³ | Up to 50,000 | Up to 50,000 |
| Third-party user authentication | RADIUS, RSA SecurID, and LDAP | RADIUS, RSA SecurID, and LDAP |
| RADIUS Accounting | Yes – start/stop | Yes – start/stop |
| XAUTH VPN authentication | Yes | Yes |
| Web-based authentication | Yes | Yes |
| 802.1X authentication | Yes | Yes |
| Unified access control enforcement point | Yes | Yes |
| PKI Support | | |
| PKI Certificate requests (PKCS 7 and PKCS 10) | Yes | Yes |
| Automated certificate enrollment (SCEP) | Yes | Yes |
| Online Certificate Status Protocol (OCSP) | Yes | Yes |
| Certificate Authorities supported | VeriSign, Entrust, Microsoft, RSA Keon, iPlanet (Netscape) Baltimore, DoD PKI | VeriSign, Entrust, Microsoft, RSA Keon, iPlanet (Netscape) Baltimore, DoD PKI |
| Self-signed certificates | Yes | Yes |
| Virtualization⁶ | | |
| Maximum number of virtual systems | 0 default, upgradeable to 500 | 0 default, upgradeable to 500 |
| Maximum number of security zones | 16 default, upgradeable to 1,016 | 16 default, upgradeable to 1,016 |
| Maximum number of virtual routers | 3 default, upgradeable to 503 | 3 default, upgradeable to 503 |
| Maximum number of VLANs | 4,094 | 4,094 |
| Inter-VSYS Communication (shared-DMZ) | Yes | Yes |
| Routing | | |
| BGP instances | 128 | 128 |
| BGP peers | 256 | 256 |
| BGP routes | 30,000 | 30,000 |
| OSPF instances | Up to 8 | Up to 8 |
| OSPF routes | 30,000 | 30,000 |

Specifications (continued)

| | NETSCREEN-5200 | NETSCREEN-5400 |
|---|----------------|----------------|
| Routing | | |
| RIP v1/v2 instances | Up to 512 | Up to 512 |
| RIP v2 routes | 30,000 | 30,000 |
| Dynamic routing | Yes | Yes |
| Static routes | 30,000 | 30,000 |
| Source-based routing | Yes | Yes |
| Policy-based routing | Yes | Yes |
| ECMP | Yes | Yes |
| Multicast | Yes | Yes |
| Reverse Path Forwarding (RPF) | Yes | Yes |
| IGMP (v1, v2) | Yes | Yes |
| IGMP Proxy | Yes | Yes |
| PIM SM | Yes | Yes |
| PIM SSM | Yes | Yes |
| Multicast inside IPsec tunnel | Yes | Yes |
| IPv6 | | |
| Syn-Cookie and Syn-Proxy DoS Attack Detection | Yes | Yes |
| SIP, RTSP, Sun-RPC, and MS-RPC ALG's | Yes | Yes |
| Dual stack IPv4/IPv6 firewall and VPN | Yes | Yes |
| IPv4 to/from IPv6 translations and encapsulations | Yes | Yes |
| Virtualization (VSYS, Security Zones, VR, VLAN) | Yes | Yes |
| RIPng | Yes | Yes |
| BGP version 4 | Yes | Yes |
| DHCPv6 Relay | Yes | Yes |
| NSRP (active/passive, active/active) | Yes | Yes |
| Transparent mode for IPv6 | Yes | Yes |
| Mode of Operation | | |
| Layer 2 (transparent) mode ⁷ | Yes | Yes |
| Layer 3 (route and/or NAT) mode | Yes | Yes |
| Address Translation | | |
| Network Address Translation (NAT) | Yes | Yes |
| Port Address Translation (PAT) | Yes | Yes |
| Policy-based NAT/PAT | Yes | Yes |
| Mapped IP (MIP) ⁸ | 20,000 | 20,000 |
| Virtual IP (VIP) | 64 per VSYS | 64 per VSYS |
| MIP/VIP grouping | Yes | Yes |
| IP Address Assignment | | |
| Static | Yes | Yes |
| DHCP, PPPoE client | No, No | No, No |
| Internal DHCP server | No | No |
| DHCP relay | Yes | Yes |

Specifications (continued)

| | NETSCREEN-5200 | NETSCREEN-5400 |
|--|-----------------------------------|-----------------------------------|
| Traffic Management Quality of Service (QoS) | | |
| Guaranteed bandwidth | No | No |
| Maximum bandwidth | Yes – per physical interface only | Yes – per physical interface only |
| Ingress traffic policing | No | No |
| Priority-bandwidth utilization | No | No |
| DiffServ marking | Yes – per policy | Yes – per policy |
| Jumbo frames | Yes | Yes |
| Link aggregation up to 4 ports | 8G2 SPM only | 8G2 SPM only |
| High Availability (HA) | | |
| Active/Active | Yes | Yes |
| Active/Passive | Yes | Yes |
| Redundant interfaces | 8G2 SPM only | 8G2 SPM only |
| Configuration synchronization | Yes | Yes |
| Session synchronization for firewall and VPN | Yes | Yes |
| Session failover for routing change | Yes | Yes |
| Device failure detection | Yes | Yes |
| Link failure detection | Yes | Yes |
| Authentication for new HA members | Yes | Yes |
| Encryption of HA traffic | Yes | Yes |
| LDAP and RADIUS server failover | Yes | Yes |
| System Management | | |
| WebUI (HTTP and HTTPS) | Yes | Yes |
| Command line interface (console) | Yes | Yes |
| Command line interface (telnet) | Yes | Yes |
| Command line interface (SSH) | Yes | Yes |
| Juniper Networks Network and Security Manager | Yes | Yes |
| All management via VPN tunnel on any interface | Yes | Yes |
| Rapid deployment | Yes | Yes |
| Administration | | |
| Local administrator database size | 8 MB | 8 MB |
| External administrator database support | RADIUS/LDAP/SecurID | RADIUS/LDAP/SecurID |
| Restricted administrative networks | 6 | 6 |
| Root admin, admin and read only user levels | Yes | Yes |
| Software upgrades | Yes | Yes |
| Configuration rollback | Yes | Yes |
| Logging/Monitoring | | |
| Syslog (multiple servers) | Yes | Yes |
| Email (two addresses) | Yes | Yes |
| NetIQ WebTrends | Yes | Yes |
| SNMP (v2) | Yes | Yes |
| SNMP full/custom MIB | Yes | Yes |
| Traceroute | Yes | Yes |
| VPN tunnel monitor | Yes | Yes |

Specifications (continued)

| | NETSCREEN-5200 | NETSCREEN-5400 |
|---------------------------------|--|--|
| External Flash | | |
| Additional log storage | Supports 1 GB or 2 GB Industrial-Grade SanDisk | Supports 1 GB or 2 GB Industrial-Grade SanDisk |
| Event logs and alarms | Yes | Yes |
| System configuration script | Yes | Yes |
| ScreenOS Software | Yes | Yes |
| Dimensions and Power | | |
| Dimensions (W x H x D) | 17.5 X 3.4 X 20 in (44.5 X 8.6 X 50.8 cm) | 17.5 X 8.6 X 14 in (44.5 X 21.8 X 35.6 cm) |
| Weight | 37 lb / 17 kg | 45 lb / 20 kg |
| Rack mountable | Yes, 2U | Yes, 5U |
| Power supply (AC) | Yes, redundant, 100-240 VAC | Yes, redundant, 100-240 VAC |
| Power supply (DC) | Yes, redundant, -36 to -60 VDC | Yes, redundant, -36 to -60 VDC |
| Maximum thermal output | 472 BTU/Hour (W) | 943 BTU/Hour (W) |
| Certifications | | |
| Safety certifications | UL, CUL, CSA, CB, Austel, NEBS Level 3 | UL, CUL, CSA, CB, Austel, NEBS Level 3 |
| EMC certifications | FCC class A, CE class A, C-Tick, VCCI class A | FCC class A, CE class A, C-Tick, VCCI class A |
| NEBS | Yes | Yes |
| MTBF (Bellcore model) | 7.9 years | 7.0 years |
| Security Certifications | | |
| Common Criteria: EAL4 and EAL4+ | Yes, MGT2 / 8G2 / 2XGE | Yes, MGT2 / 8G2 / 2XGE |
| FIPS 140-2: Level 2 | Yes, MGT2 / 8G2 / 2XGE | Yes, MGT2 / 8G2 / 2XGE |
| ICSA Firewall and VPN | Yes | Yes |
| Operating Environment | | |
| Operating temperature | 32° to 105° F (0° to 45° C) | 32° to 105° F (0° to 45° C) |
| Non-operating temperature | - 4° to 158° F (-20° to 70° C) | - 4° to 158° F (-20° to 70° C) |
| Humidity | 10% to 90% noncondensing | 10% to 90% noncondensing |

(1) Performance, capacity and features listed are based upon systems running ScreenOS 6.2 and are the measured maximums under ideal testing conditions unless otherwise noted. Actual results may vary based on ScreenOS release and by deployment. Please note the firewall/VPN performance data are identical for MGT2/SPM2 and MGT3/SPM3 configurations. For a complete list of supported ScreenOS versions for NetScreen Series Security Systems, please visit the Juniper Customer Support Center (www.juniper.net/customers/support/).

(2) Listed first, higher performance numbers are achieved with 2XGE, lower numbers with the 8G2 Secure Port Modules.

(3) Shared among all virtual systems.

(4) IPS/Deep Inspection is delivered by annual subscriptions purchased separately from Juniper Networks. Annual subscriptions provide signature updates and associated support.

(5) Redirect Web filtering sends traffic to a secondary server and therefore entails purchasing a separate Web filtering license from either Websense or SurfControl.

(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) 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.

(8) Not available with virtual systems.

(9) Two million sessions requires at least two Secure Port Modules (8G2 or 2XGE).

(10) The first numbers are performance achieved with the new MGT3/8G2-G4 modules, and the second numbers represent the performance achieved with the MGT2/8G2 modules.

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains and faster rollouts of new business models and ventures. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/us/en/products-services/.

Ordering Information

| MODEL NUMBER | DESCRIPTION |
|-----------------------|--|
| NetScreen-5200 | |
| NS-5200 | NS-5200 system, no SPM or MGT modules, includes fan tray, dual AC power supply, 19" rack mount, 0 VSYS |
| NS-5200-DC | NS-5200 system, no SPM or MGT modules, includes fan tray, dual DC power supply, 19" rack mount, 0 VSYS |

Note: Add Management and SPM Modules to build complete systems

NetScreen-5400

| | |
|------------|---|
| NS-5400 | NS-5400 system, no SPM or MGT modules, includes fan tray, 3 x AC power supply, 19" rack mount, 0 VSYS |
| NS-5400-DC | NS-5400 system, no SPM or MGT modules, includes fan tray, 3 x DC power supply, 19" rack mount, 0 VSYS |

Note: Add Management and SPM Modules to build complete systems

NetScreen Series – Components needed to build complete systems

| | |
|--------------------|---|
| NS-5000-MGT2 | Management Module 2 |
| NS-5000-2XGE | 2 x 10GigE Secure Port Module (SPM) – does NOT include transceivers |
| NS-5000-8G2 | 8 x GigE Secure Port Module 2 (SPM) – includes 8 x transceivers (SX) |
| NS-5000-8G2-TX | 8 x GigE Secure Port Module 2 TX (SPM) – includes 8 x Gig copper transceivers |
| NS-5000-MGT3* | Management Module 3 |
| NS-5000-2XGE-G4* | 2 x 10GigE Secure Port Module (SPM) – does NOT include transceivers |
| NS-5000-8G2-G4* | 8 x GigE Secure Port Module (SPM) – includes 8 x transceivers (SX) |
| NS-5000-8G2-G4-TX* | 8 x GigE Secure Port Module (SPM) – includes 8 x Gig copper transceivers |

*The NS-5000-MGT3, NS-5000-2XGE-G4, NS-5000-8G2-G4, and NS-5000-8G2-G4-TX modules require ScreenOS version 6.1 or higher and CANNOT be intermixed with prior generation management or SPM modules. Customer who wish to deploy NetScreen Series systems with the latest Management Module 3 must also deploy the latest G4 SPM modules.

| MODEL NUMBER | DESCRIPTION |
|---|-------------------------|
| NetScreen Series – Virtual System Upgrades | |
| NS-5000-VSYS-5 | VSYS upgrade 0 to 5 |
| NS-5000-VSYS-25 | VSYS upgrade 5 to 25 |
| NS-5000-VSYS-50 | VSYS upgrade 25 to 50 |
| NS-5000-VSYS-100 | VSYS upgrade 50 to 100 |
| NS-5000-VSYS-250 | VSYS upgrade 100 to 250 |
| NS-5000-VSYS-500 | VSYS upgrade 250 to 500 |
| NS-5000-VSYS | VSYS upgrade 0 to 500 |

NetScreen Series – Accessories

| | |
|------------------|---|
| NS-SYS-GBIC-MSX | SX transceiver (mini-GBIC) |
| NS-SYS-GBIC-MLX | LX transceiver (mini-GBIC) |
| NS-SYS-GBIC-MXSR | XFP 10GigE transceiver Short Range (SR) (300 m) |
| NS-SYS-GBIC-MXLR | XFP 10GigE transceiver Long Range (LR) (10 km) |

NetScreen-5200 – Components

| | |
|----------------|--------------------------------|
| NS-5200-CHA | NetScreen-5200 chassis |
| NS-5200-PWR-AC | NetScreen-5200 AC power supply |
| NS-5200-PWR-DC | NetScreen-5200 DC power supply |
| NS-5200-FAN | NetScreen-5200 fan assembly |

NetScreen-5400 – Components

| | |
|----------------|--------------------------------|
| NS-5400-CHA | NetScreen-5400 chassis |
| NS-5400-PWR-AC | NetScreen-5400 AC power supply |
| NS-5400-PWR-DC | NetScreen-5400 DC power supply |
| NS-5400-FAN | NetScreen-5400 fan assembly |

About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at www.juniper.net.

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