

Juniper Networks NetScreen-500

Juniper Networks NetScreen-500⁽¹⁾

ScroonOS 5 2



Maximum Performance and Capacity(2)

ScreenOS version support

The NetScreen-500 is a purpose-built, security system designed to provide a flexible, high performance solution for medium and large enterprise central sites and service providers. The NetScreen-500 security system integrates firewall, DoS, VPN and traffic management functionality in a low-profile, modular chassis. It provides high levels of total throughput for firewall and VPN plus support for virtual systems and security zones. Combined with a flexible and resilient hardware architecture incorporating modular physical interfaces, redundant power supplies, fans and high availability interfaces, the NetScreen-500 exceeds most enterprises' typical traffic conditions. It is well suited to match the peak load and strong deterrence requirements of the most demanding environments.

| ScreenOS version support | ScreenOS 5.2 | | |
|--|---------------------------------|--|--|
| Firewall performance | 700 Mbps | | |
| 3DES performance | 250 Mbps | | |
| Deep Inspection performance | 300 Mbps | | |
| Concurrent sessions ⁽³⁾ | 250,000 | | |
| New sessions/second | 18,000 | | |
| Policies ⁽³⁾ | 20,000 | | |
| Interfaces | 8 10/100 or mini-GBIC | | |
| | (SX or LX), 4 GBIC (SX or LX) | | |
| Mode of Operation | | | |
| Layer 2 mode (transparent mode) ⁽⁵⁾ | Yes | | |
| Layer 3 mode (route and/or NAT mode) | Yes | | |
| NAT (Network Address Translation) | Yes | | |
| PAT (Port Address Translation) | Yes | | |
| Policy-based NAT | Yes | | |
| 9 | | | |
| Virtual IP | 4 | | |
| Mapped IP ⁽⁴⁾ | 4,096 | | |
| Users supported | Unrestricted | | |
| Firewall | | | |
| Number of network attacks detected | 31 | | |
| Network attack detection | Yes | | |
| DoS and DDoS protections | Yes | | |
| TCP reassembly for fragmented packet protection | | | |
| Malformed packet protections | Yes | | |
| Deep Inspection firewall | Yes | | |
| Protocol anomaly | Yes | | |
| Stateful protocol signatures | Yes | | |
| DI Protocols supported | HTTP, FTP, SMTP, POP, IMAP, DNS | | |
| Di Protocois supported | NetBIOS/SMB, MS-RPC, P2P, IM | | |
| None has af amplication attached attached an/DI | over 650 | | |
| Number of application attacks detected w/DI | | | |
| Content Inspection | Yes | | |
| Embedded antivirus | No | | |
| Malicious Web filtering | up to 48 URLs | | |
| External Web filtering (Websense or SurfControl) | Yes | | |
| Integrated Web filtering | No | | |
| Brute force attack mitigation | Yes | | |
| DI attack pattern obfuscation | Yes | | |
| SYN cookie | Yes | | |
| Zone-based IP spoofing | Yes | | |
| PN | | | |
| Site-to-site VPN tunnels(3) | up to 5,000 | | |
| Remote access VPN tunnels | 10,000 ⁽³⁾ | | |
| Tunnel interfaces | up to 1,024 | | |
| 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-500 ⁽¹⁾ |
|--|--|
| Firewall and VPN User Authentication Built-in (internal) database – user limit ⁽³⁾ 3rd Party user authentication XAUTH VPN authentication Web-based authentication | up to 1,500 RADIUS, RSA SecurID, and LDAP Yes Yes |
| Logging/Monitoring Syslog (multiple servers) E-mail (2 addresses) NetIQ WebTrends SNMP (v1, v2) Standard and custom MIB Traceroute | External, up to 4 servers Yes External Yes Yes Yes |
| Virtualization Maximum number of Virtual Systems ⁽⁶⁾ Maximum number of security zones ⁽⁶⁾ Maximum number of virtual routers ⁽⁶⁾ Number of VLANs supported | 0 Default, upgradeable to 25 8 default, upgradeable to 58 3 default, upgradeable to 28 100 per port |
| Routing OSPF/BGP dynamic routing ⁽³⁾ RIPv1/v2 dynamic routing ⁽³⁾ Static routes Source-based routing Equal cost multi-path routing | up to 8 instances each Up to 256 instances 8,192 Yes Yes |
| High Availability (HA) Active/Active Active/Passive Redundant Interfaces Configuration synchronization Session synchronization for firewall and VPN Device failure detection Link failure detection Authentication for new HA members Encryption of HA traffic LDAP and RADIUS server failover | Yes |
| VOIP H.323 ALG SIP ALG NAT for H.323/SIP | Yes Yes Yes |
| IP Address Assignment Static DHCP, PPPoE client Internal DHCP server DHCP Relay | Yes No No Yes |
| PKI Support PKI Certificate requests (PKCS 7 and PKCS 10) Automated certificate enrollment (SCEP) Online Certificate Status Protocol (OCSP) Self Signed Certificates Certificate Authorities Supported Verisign Entrust Microsoft RSA Keon | Yes Yes Yes Yes Yes Yes Yes |
| iPlanet (Netscape) Baltimore DOD PKI | Yes Yes Yes |



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| | Juniper Networks NetScreen-500 ⁽¹⁾ | |
|---|--|--|
| RADIUS Accounting | | |
| RADIUS Start/Stop | Yes | |
| 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 | Yes | |
| Maximum bandwidth | Yes | |
| Priority-bandwidth utilization | Yes | |
| DiffServ stamp | Yes | |
| External Flash | | |
| PCMCIA (PC Card) | Supports 96, 128, 440, and 512 ME | |
| Event logs and alarms | Yes | |
| System config script | Yes | |
| NetScreen ScreenOS software | Yes | |
| Dimensions and Power | | |
| Dimensions (H/W/L) | 3.5/17.5/17 inches | |
| Weight | 27 lbs. | |
| Rack mountable | 19" standard, 23" optional | |
| Power Supply (AC) | 90 to 264 VAC, 100 watts | |
| Power Supply (DC) | -36 to -72 VDC, 100 watts | |
| Licensing Options : The NetScreen-500 is available | with two licensing entions to provide | |
| two different levels of functionality and capacity. | with two licensing options to provide | |

Advanced Models: The Advanced software license provides all of the features and capacities listed within this specsheet.

Baseline Models: The Baseline software license provides an entry-level solution for customer environments where features such as Deep Inspection™, OSPF and BGP dynamic routing, advanced High Availabilty, and full capacity are not critical requirements. The following table shows the features and capacities that are different than the Advanced models:

| | NetScreen-500 Baseline |
|----------------------------|------------------------|
| Sessions | 128,000 |
| Concurrent VPN tunnels | 1,000 |
| Deep Inspection Firewall | N/A |
| OSPF/BGP | N/A |
| High Availability (HA) | Active/Passive only |
| NetScreen Security Manager | Supported |

Certifications

Safety Certifications

UL, CUL, CSA, CB

EMC Certifications

FCC class A, BSMI Class A, CE class A, C-Tick, VCCI class A

Environment

Operational temperature: 32° to 122° F, 0° to 50° C Non-operational temperature: -4° to 158° F, -20° to 70° C

Humidity: 10 to 90% non-condensing

MTBF (Bellcore model)

6.5 years

Security Certifications (Advanced models only)

Juniper Networks NetScreen-500SP Bundles

Common Criteria: EAL4 FIPS 140-2: Level 2 ICSA Firewall and VPN

Ordering Information

| Jumpor Networks Netwo | Con Cocor Buriaics | | | |
|---|-------------------------------------|-----------------|--|--|
| NetScreen-500 System | SX GBIC, AC power | NS-500SP-GB1-AC | | |
| NetScreen-500 System | SX GBIC, DC power | NS-500SP-GB1-DC | | |
| NetScreen-500 System | SX dual-GBIC, AC power | NS-500SP-GB2-AC | | |
| NetScreen-500 System | SX dual-GBIC, DC power | NS-500SP-GB2-DC | | |
| SP Systems include 25 Vi | irtual Systems and 2 power supplies | | | |
| Juniper Networks NetSc | reen-500ES Bundles | | | |
| NetScreen-500 System | 2 SX GBIC modules, | | | |
| | 2 AC power supplies | NS-500ES-GB1-AC | | |
| NetScreen-500 System | 2 SX GBIC modules, | | | |
| | 2 DC power supplies | NS-500ES-GB1-DC | | |
| NetScreen-500 System | 2 SX dual-GBIC modules, | | | |
| | 2 AC power supplies | NS-500ES-GB2-AC | | |
| NetScreen-500 System | 2 SX dual-GBIC modules, | | | |
| | 2 DC power supplies | NS-500ES-GB2-DC | | |
| NetScreen-500 System | 3 dual-10/100 modules, | | | |
| | 2 AC power supplies | NS-500ES-FE1-AC | | |
| NetScreen-500 System | 3 dual-10/100 modules, | | | |
| | 2 DC power supplies | NS-500ES-FE1-DC | | |
| NetScreen-500 System | 2 dual-10/100 modules, | | | |
| | 1 AC power supply | NS-500ES-FE2-AC | | |
| NetScreen-500 System | 2 dual-10/100 modules, | | | |
| | 1 DC power supply | NS-500ES-FE2-DC | | |
| ES Systems include 0 Virtual Systems. | | | | |
| Juniper Networks NetScreen-500 Baseline Systems | | | | |

Juniper Networks NetScreen-500 Baseline Systems

NetScreen-500 System 2 dual-10/100 modules, 1 AC power supply NS-500B-FE2 NetScreen-500 System 2 SX GBIC modules, 1 AC power supply NS-500B-GB1

Juniper Networks NetScreen-500 Virtual System Upgrades

Upgrade to 5 Virtual Systems NS-500-VSYS-5 NS-500-VSYS-10 Upgrade from 5 to 10 Virtual Systems Upgrade from 10 to 25 Virtual Systems NS-500-VSYS-25

Every Virtual System includes one virtual router and 2 security zones, usable in the virtual or root system.

- (1) Performance, capacity and features listed are based upon the Advanced feature set running ScreenOS 5.2 and may vary with other ScreenOS releases. The Baseline model licensing option provides a subset of features as described in the table below. Actual throughput for Advanced and Baseline products may vary based upon packet size and enabled features
- (2) Performance and capacity provided are the measured maximums under ideal testing conditions and may vary by
- (3) Shared among all Virtual Systems
- (4) Not available with Virtual Systems
- (5) The following features are not supported in Layer 2 (transparent mode): NAT, PAT, policy based NAT, virtual IP, mapped IP, virtual systems, virtual routers, VLANs, OSPF, BGP, RIPv2, Active/Active HA, and IP address assignment
- (6) Requires purchase of virtual system key. Every virtual system includes one virtual router and two security zones, usable in



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