

Juniper Networks NetScreen-25/50



The Juniper Networks NetScreen-25 and NetScreen-50 offer a complete security solution for enterprise branch and remote offices as well as small and medium size companies. Featuring four auto-sensing 10/100 Ethernet ports, the NetScreen-25 and NetScreen-50 provide solutions for perimeter security with multiple DMZs, VPNs for wireless LAN security, or protection of internal networks. The NetScreen-25 has the same number of Ethernet interfaces and offers 100 Mbps of firewall and 20 Mbps of 3DES or AES VPN performance, with support for 16,000 concurrent sessions, 25 site-to-site VPN tunnels, and 100 VPN users. The NetScreen-50 is a high performance security appliance, offering 170 Mbps of firewall and 50 Mbps of 3DES or AES VPN performance, with support for 64,000 concurrent sessions, 100 site-to-site VPN tunnels, and 400 VPN users.

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
--	--	--

Maximum Performance and Capacity⁽²⁾

Firewall performance	100 Mbps	170 Mbps
3DES performance	20 Mbps	45 Mbps
Deep Inspection performance	75 Mbps	75 Mbps
Concurrent sessions	16,000	64,000
New sessions/second	4,000	5,000
Policies	500	1,000
Interfaces	4 10/100 Base-T	4 10/100 Base-T

Mode of Operation

Layer 2 mode (transparent mode) ⁽³⁾	Yes	Yes
Layer 3 mode (route and/or NAT mode)	Yes	Yes
NAT (Network Address Translation)	Yes	Yes
PAT (Port Address Translation)	Yes	Yes
Policy-based NAT	Yes	Yes
Virtual IP	2	2
Mapped IP	500	500
Users supported	Unrestricted	Unrestricted

Firewall

Number of network attacks detected	31	31
Network attack detection	Yes	Yes
DoS and DDoS protections	Yes	Yes
TCP reassembly for fragmented packet protection	Yes	Yes
Malformed packet protections	Yes	Yes
Deep Inspection firewall	Yes	Yes
Protocol anomaly	Yes	Yes
Stateful protocol signatures	Yes	Yes
Protocols supported	HTTP, FTP, SMTP, POP, IMAP, DNS	HTTP, FTP, SMTP, POP, IMAP, DNS
Number of application attacks detected w/DI	over 250	over 250
Content Inspection	Yes	Yes
External antivirus (Trend Micro)	Yes	Yes
Embedded antivirus (Trend Micro)	No	No
Malicious URL filtering	up to 48 URLs	up to 48 URLs
External URL filtering (Websense)	Yes	Yes

VPN

Site-to-site VPN tunnels	up to 25	up to 100
Remote access VPN tunnels	up to 100	up to 400
Tunnel interfaces	25	50
DES (56-bit), 3DES (168-bit) and AES encryption	Yes	Yes
Manual Key, IKE, PKI (X.509)	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
VPN tunnel monitor	Yes	Yes

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
--	--	--

Firewall and VPN User Authentication

Built-in (internal) database - user limit	up to 250	up to 250
3rd Party user authentication	RADIUS, RSA SecurID, and LDAP	RADIUS, RSA SecurID, and LDAP
XAUTH VPN authentication	Yes	Yes
Web-based authentication	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, v1.5 and v2.0 compatible	Yes, v1.5 and v2.0 compatible
NetScreen-Security Manager	Yes	Yes
All management via VPN tunnel on any interface	Yes	Yes
SNMP Full Custom MIB	Yes	Yes
Rapid deployment	Yes	Yes

Logging/Monitoring

Syslog (multiple servers)	External, up to 4 servers	External, up to 4 servers
E-mail (2 addresses)	Yes	Yes
NetIQ WebTrends	External	External
SNMP (v2)	Yes	Yes
Standard and custom MIB	Yes	Yes
Traceroute	Yes	Yes

Virtualization

Custom security zones	4	4
Virtual Routers (VRs)	2	2
VLANs supported	8	8

Routing

OSPF/BGP dynamic routing	2 instances each	2 instances each
RIPv2 dynamic routing	2 instances	2 instances
Static routes	2,048	2,048
Source-based routing	Yes	Yes

High Availability (HA)

HA mode	HA Lite	Active/Passive
Firewall/VPN session synchronization	No	Yes
Redundant Interfaces	Yes	Yes
Configuration synchronization	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

IP Address Assignment

Static	Yes	Yes
DHCP, PPPoE client	Yes	Yes
Internal DHCP server	Yes	Yes
DHCP relay	Yes	Yes

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
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 CA	Yes	Yes
Entrust CA	Yes	Yes
Microsoft CA	Yes	Yes
RSA Keon CA	Yes	Yes
iPlanet (Netscape) CA	Yes	Yes
Baltimore CA	Yes	Yes
DOD PKI CA	Yes	Yes

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
Administration		
Local administrators database	20	20
External administrator database	RADIUS/LDAP/ SecurID	RADIUS/LDAP/ SecurID
Restricted administrative networks	6	6
Root Admin, Admin, and Read Only user levels	Yes	Yes
Software upgrades	TFTP/ WebUI/SCP/NSM	TFTP/ WebUI/SCP/NSM
Configuration Roll-back	Yes	Yes

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
Traffic Management		
Guaranteed bandwidth	Yes	Yes
Maximum bandwidth	Yes	Yes
Priority-bandwidth utilization	Yes	Yes
DiffServ stamp	Yes	Yes

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
External Flash		
CompactFlash™	Supports 96 or 512MB Industrial Grade SanDisk	Supports 96 or 512MB Industrial Grade SanDisk
Event logs and alarms	Yes	Yes
System config script	Yes	Yes
NetScreen ScreenOS software	Yes	Yes

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
Dimensions and Power		
Dimensions (H/W/L)	1.73/17.5/10.8 inches	1.73/17.5/10.8 inches
Weight	8 lbs.	8 lbs.
Rack mountable	19" standard, 23" optional	19" standard, 23" optional
Power Supply (AC)	90 to 264 VAC, 45 Watts	90 to 264 VAC, 45 Watts
Power Supply (DC)	-36 to -72 VDC, 50 Watts	-36 to -72 VDC, 50 Watts

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
Certifications		
Safety Certifications	UL, CUL, CSA, CB	
EMC Certifications	FCC class A, BSMI Class A, CE class A, C-Tick, VCCI class A	

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
Environment		
Operational temperature:	23° to 122° F, -5° to 50° C	
Non-operational temperature:	-4° to 158° F, -20° to 70° C	
Humidity:	10 to 90% non-condensing	

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
MTBF (Bellcore model)		
NetScreen-25:	8.1 years	
NetScreen-50:	8.1 years	

	Juniper Networks NetScreen-25 ⁽¹⁾	Juniper Networks NetScreen-50 ⁽¹⁾
Security Certifications (Advanced models only)		
Common Criteria:	EAL4 and EAL4 +	
ICSA Firewall and VPN		

Licensing Options: The NetScreen-25 and NetScreen-50 are both available with two licensing options to provide two different levels of functionality and capacity.

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 Availability, and full capacity are not critical requirements. The following table shows the features and capacities that are different than the Advanced models:

	NetScreen-25 Baseline	NetScreen-50 Baseline
Sessions	8,000	32,000
Site-to-site tunnels	25	100
Remote Access Tunnels	Shared w/site-to-site	Shared w/site-to-siteDeep
Inspection Firewall	N/A	N/A
VLANs	0	0
OSPF/BGP	N/A	N/A
High Availability (HA)	HA Lite*	HA Lite*
NetScreen Security Manager	Future support	Future support

*HA Lite provides configuration synchronization only (does not provide session or tunnel synchronization)

Ordering Information

Product	Part Number
Juniper Networks NetScreen-50 w/AC power supply	
NetScreen-50	US power cord NS-050-001
NetScreen-50f*	US power cord NS-050-101
NetScreen-50	UK power cord NS-050-003
NetScreen-50f*	UK power cord NS-050-103
NetScreen-50	European power cord NS-050-005
NetScreen-50f*	European power cord NS-050-105
NetScreen-50	Japanese power cord NS-050-007
NetScreen-50f*	Japanese power cord NS-050-107
**f* products do not include VPN functionality (international only)	
Juniper Networks NetScreen-50 w/DC power supply	
NetScreen-50	w/DC power supply DC power NS-050-001-DC
Juniper Networks NetScreen-25 w/AC power supply	
NetScreen-25	US power cord NS-025-
001NetScreen-25	UK power cord NS-025-
003NetScreen-25	European power cord NS-025-
005NetScreen-25	Japanese power cord NS-025-007

Baseline Products	Part Number
NetScreen-50 Baseline	US power cord NS-050B-001
NetScreen-50 Baseline	UK power cord NS-050B-003
NetScreen-50 Baseline	European power cord NS-050B-005
NetScreen-50 Baseline	Japanese power cord NS-050B-007
NetScreen-50 Baseline to Advanced Upgrade	NS-050-UPG-A
NetScreen-25 Baseline	US power cord NS-025B-001
NetScreen-25 Baseline	UK power cord NS-025B-003
NetScreen-25 Baseline	European power cord NS-025B-005
NetScreen-25 Baseline	Japanese power cord NS-025B-007
NetScreen-25 Baseline to Advanced Upgrade	NS-025-UPG-A

(1) Performance, capacity and features listed are based upon the Advanced feature set running ScreenOS 5.0.0 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 deployment.

(3) The following features are not supported in Layer 2 (transparent mode): NAT, PAT, policy based NAT, virtual IP, mapped IP, VLANs, OSPF, BGP, RIPv2, and IP address assignment.



1194 North Mathilda Avenue Sunnyvale, CA 94089 USA
 Phone: 888-JUNIPER (888-586-4737) or 408-745-2000
 Fax: 408-745-2100

Copyright © 2004 Juniper Networks, Inc. All rights reserved.

Juniper Networks, the Juniper Networks logo, NetScreen, NetScreen Technologies, GigaScreen, and the NetScreen logo are registered trademarks of Juniper Networks, Inc. NetScreen-SGT, NetScreen-5XP, NetScreen-5XT, NetScreen-25, NetScreen-50, NetScreen-100, NetScreen-204, NetScreen-208, NetScreen-500, NetScreen-5200, NetScreen-5400, NetScreen-Global PRO, NetScreen-Global PRO Express, NetScreen-Remote Security Client, NetScreen-Remote VPN Client, NetScreen-IDP 10, NetScreen-IDP 100, NetScreen-IDP 500, GigaScreen ASIC, GigaScreen-II ASIC, and NetScreen ScreenOS are trademarks of Juniper Networks, Inc. All other trademarks and registered trademarks are the property of their respective companies.

Part Number: 110003-001 July 2004