

# PA-500

The PA-500 is a next-generation firewall that delivers unprecedented visibility and control over applications, users and content on enterprise networks.

#### APPLICATION IDENTIFICATION:

- Identifies and controls applications irrespective of port, protocol, encryption (SSL or SSH) or evasive tactic employed.
- Enables positive enforcement application usage policies: allow, deny, schedule, inspect, apply traffic shaping.
- Graphical visibility tools enable simple and intuitive view into application traffic.

#### USER IDENTIFICATION:

- Policy-based visibility and control over who is using the applications through seamless integration with Active Directory, LDAP, and eDirectory.
- Identifies Citrix, Microsoft Terminal Services and XenWorks users, enabling visibility and control over their respective application usage.
- Control non-Windows hosts via web-based authentication.

#### CONTENT IDENTIFICATION:

- Block viruses, spyware, modern malware, and vulnerability exploits, limit unauthorized transfer of files and sensitive data such as CC# or SSN, and control non-work related web surfing.
- Single pass software architecture enables predictable throughput performance with low latency while scanning content.



PA-500

The Palo Alto Networks™ PA-500 is targeted at high speed Internet gateway deployments for enterprise branch offices and medium size businesses. The PA-500 manages network traffic flows using dedicated computing resources for networking, security, threat prevention and management.

A high speed backplane smoothes the pathway between processors and the separation of data and control plane ensures that management access is always available, irrespective of the traffic load. The controlling element of the PA-500 next-generation firewalls is PAN-OST™, a security-specific operating system that tightly integrates three unique identification technologies: App-ID™, User-ID™ and Content-ID™, with key firewall, networking and management features.

PERFORMANCE AND CAPACITIES <sup>1</sup>	PA-500
Firewall throughput	250 Mbps
Threat prevention throughput	100 Mbps
IPSec VPN throughput	50 Mbps
New sessions per second	7,500
Max sessions	64,000
IPSec VPN tunnels/tunnel interfaces	250
SSL VPN users	100
SSL decrypt sessions	1,000
SSL inbound certificates	25
Virtual routers	3
Virtual systems	Not supported
Security Zones	20
Max number of policies	1,000
Address objects	2,500
Fully Qualified Domain Names (FQDN)	2,000

<sup>1</sup> Performance and capacity listed above are based on systems running PAN-OS 4.1 and are measured under ideal testing conditions.

For a complete description of the PA-500 Series next-generation firewall feature set, please visit [www.paloaltonetworks.com/literature](http://www.paloaltonetworks.com/literature).

**HARDWARE SPECIFICATIONS****I/O**

- (8) 10/100/1000

**MANAGEMENT I/O**

- (1) 10/100/1000 out-of-band management port, (1) RJ-45 console port

**POWER SUPPLY (AVG/MAX POWER CONSUMPTION)**

- 180W (40W/75W)

**INPUT VOLTAGE (INPUT FREQUENCY)**

- 100-240VAC (50-60Hz)

**MAX CURRENT CONSUMPTION**

- 1A@100VAC

**MEAN TIME BETWEEN FAILURE (MTBF)**

- 10.16 years

**MAX INRUSH CURRENT**

- 110A@230VAC; 51A@115VAC

**DIMENSIONS**

- 1U, 19" standard rack (1.75"H x 10"D x 17"W)

**WEIGHT (STAND ALONE DEVICE/AS SHIPPED)**

- 8lbs/13lbs

**SAFETY**

- UL, CUL, CB

**EMI**

- FCC Class A, CE Class A, VCCI Class A

**ENVIRONMENT**

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

**NETWORKING****INTERFACE MODES**

- L2, L3, Tap, Virtual Wire (transparent mode): Supported

**ROUTING**

- Modes: OSPF, RIP, BGP, Static
- Forwarding table size (entries per device/per VR): 1,250/1,250
- Policy-based forwarding: Supported
- Multicast: PIM-SM, PIM-SSM, IGMP v1, v2, and v3

**HIGH AVAILABILITY**

- Modes: Active/Active, Active/Passive
- Failure detection: Path Monitoring, Interface Monitoring

**NAT/PAT**

- Max NAT rules: 125
- Max NAT rules (DIPP): 125
- Dynamic IP and port pool: 254
- Dynamic IP pool: 16,234
- NAT Modes: 1:1 NAT, n:n NAT, m:n NAT
- DIPP oversubscription (Unique destination IPs per source port and IP): 1

**VLANS**

- 802.1q VLAN tags per device/per interface: 4,094/4,094
- Max interfaces: 250

**VIRTUAL WIRE**

- Max virtual wires (vwire): 4
- Physical interfaces mapped to VWs: Supported

**ADDRESS ASSIGNMENT**

- Address assignment for device: DHCP Client/PPPoE/Static
- Address assignment for users: DHCP Server/DHCP Relay/Static

**IPV6**

- Modes: L2, L3, Tap, Virtual Wire (transparent mode)
- Services: App-ID, User-ID, Content-ID and SSL Decryption

**L2 FORWARDING**

- ARP table size/device: 500
- IPv6 neighbor table size: 500
- MAC table size/device: 500

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**SECURITY****FIREWALL**

- Policy-based control over applications, users and content
- Fragmented packet protection
- Reconnaissance scan protection
- Denial of Service (DoS)/Distributed Denial of Services (DDoS) protection
- Decryption: SSL (inbound and outbound), SSH

**USER INTEGRATION (USER-ID)**

- Active Directory, LDAP, eDirectory, Citrix and Microsoft Terminal Services, Xenworks, XML API

**IPSEC VPN (SITE-TO-SITE)**

- Key Exchange: Manual key, IKE v1
- Encryption: 3DES, AES (128-bit, 192-bit, 256-bit)
- Authentication: MD5, SHA1, SHA-256, SHA-384, SHA-512

**GLOBALPROTECT (REMOTE ACCESS)**

- GlobalProtect Gateway
- GlobalProtect Portal
- Transport: IPSec with SSL fall-back
- Authentication: LDAP, SecurID, or local DB
- Client OS: Mac OS X 10.6, 10.7 (32/64 bit), Windows XP, Windows Vista (32/64 bit), Windows 7 (32/64 bit)
- Third Party Client Support: Apple iOS

**FILE AND DATA FILTERING**

- Control unauthorized data transfer (data patterns and file types)
- Drive-by download protection
- Predefined signatures for SSN and Credit Card numbers
- Unique file types identified: 59

**MANAGEMENT, REPORTING, VISIBILITY TOOLS**

- Integrated web interface, CLI or central management (Panorama)
- Syslog, SNMP v2/v3
- XML-based REST API
- Graphical summary of applications, URL categories, threats and data (ACC)
- View, filter, export traffic, threat, URL, and data filtering logs
- Fully customizable reporting

**THREAT PREVENTION (SUBSCRIPTION REQUIRED)**

- Application, operating system vulnerability exploit protection
- Stream-based protection against viruses (including those embedded in HTML, Javascript, PDF and compressed), spyware, worms

**WILDFIRE**

- Identify and analyze targeted and unknown malware
- Automated analysis of unknown files for malicious behaviors
- Forensic analysis and protection for newly discovered malware

**QUALITY OF SERVICE (QOS)**

- Policy-based traffic shaping by application, user, source, destination, interface, IPSec VPN tunnel and more
- 8 traffic classes with guaranteed, maximum and priority bandwidth parameters
- Real-time bandwidth monitor
- Per policy diffserv marking
- Physical interfaces supported for QoS: 6

**URL FILTERING (SUBSCRIPTION REQUIRED)**

- 76-category, 20M URL on-box database
- Dynamic URL filtering (1M URL cache on device)
- Custom block pages and URL categories

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**ORDERING INFORMATION****PA-500**

Platform

PAN-PA-500