

PA-4000 Series

The PA-4000 Series is a next-generation firewall that delivers unprecedented visibility and control over applications, users and content on enterprise networks.

APPLICATION IDENTIFICATION:

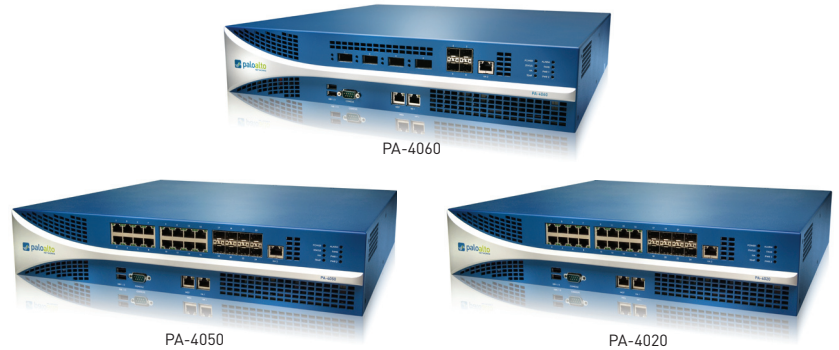
- Identifies more than 950 applications irrespective of port, protocol, SSL encryption or evasive tactic employed.
- Enables positive enforcement application usage policies: allow, deny, schedule, inspect, apply traffic shaping.
- Graphical visibility tools enable simple and intuitive view into application 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 and Microsoft Terminal Services users, enabling visibility and control over their respective application usage.
- Control non-Windows hosts via web-based authentication.

CONTENT IDENTIFICATION:

- Block viruses, spyware, 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 multi-gigabit throughput with low latency while scanning content.



The Palo Alto Networks™ PA-4000 Series is comprised of three high performance platforms, the PA-4020, the PA-4050 and the PA-4060, all of which are targeted at high speed Internet gateway and datacenter deployments. The PA-4000 Series manages multi-Gbps traffic flows using dedicated processing and memory for networking, security, threat prevention and management.

A 10 Gbps backplane smoothes the pathway between dedicated processors, and the physical separation of data and control plane ensures that management access is always available, irrespective of the traffic load. The PA-4050 and PA-4020 each have 24 traffic interfaces while the PA-4060 supports 10 Gbps interfaces. All of the PA-4000 Series platforms have dedicated high availability and out-of-band management interfaces.

The controlling element of the PA-4000 Series next-generation firewalls is PAN-OS™, 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.

KEY PERFORMANCE SPECIFICATIONS	PA-4020	PA-4050	PA-4060
Firewall throughput	2 Gbps	10 Gbps	10 Gbps
Threat prevention throughput	2 Gbps	5 Gbps	5 Gbps
IPSec VPN throughput	1 Gbps	2 Gbps	2 Gbps
IPSec VPN tunnels/interfaces	2,000	4,000	4,000
SSL VPN concurrent users	5,000	10,000	10,000
New sessions per second	60,000	60,000	60,000
Max sessions	500,000	2,000,000	2,000,000

For a complete description of the PA-4000 Series next-generation firewall feature set, please visit www.paloaltonetworks.com/literature.

Additional PA-4000 Series Specifications and Features

APP-ID

- Identifies and controls more than 950 applications
- SSL decryption (inbound and outbound)
- Customize application properties
- Custom HTTP and SSL applications

FIREWALL

- Policy-based control by application, application category, subcategory, technology, risk factor or characteristic
- Application function control
- Fragmented packet protection
- Reconnaissance scan protection
- Denial of Service (DoS)/Distributed Denial of Services (DDoS) protection
- Maximum number of policies: (PA-4020) 10,000, (PA-4050) 20,000, (PA-4060) 20,000

USER-ID

- Visibility and control by user, group and IP address
- Active Directory, LDAP, eDirectory, Citrix and Microsoft Terminal Services
- XML API (external user repository integration)
- WMI and NetBios polling
- Maximum concurrent user/IP mappings: 64,000

DATA FILTERING

- Control unauthorized data transfer (social security numbers, credit card numbers, custom data patterns)
- Control unauthorized transfer of more than 50 file types

URL FILTERING (SUBSCRIPTION REQUIRED)

- 76-category, 20M URL on-box database
- Custom 1M URL cache database (from 180M URL database)
- Custom block pages and URL categories

IPSEC VPN (SITE-TO-SITE)

- Manual key, IKE v1
- 3DES, AES (128-bit, 192-bit, 256-bit) encryption
- SHA1, MD5 authentication

SSL VPN (REMOTE ACCESS)

- IPsec transport with SSL fall-back
- Enforce unique policies for SSL VPN traffic
- Enable/disable split tunneling to control client access
- LDAP, SecurID, or local DB authentication
- Client OS: Windows XP, Windows Vista (32 and 64 bit), Windows 7 (32 and 64 bit)

HIGH AVAILABILITY

- Active/Passive failover
- Configuration and session synchronization
- Heartbeat checking
- Link and path failure monitoring

NETWORKING

- Dynamic routing (BGP, OSPF and RIPv2)
- Tap mode, virtual wire, layer 2, layer 3
- Network address translation (NAT)
 - Source and destination address translation
 - Dynamic IP and port pool: 254
 - Dynamic IP pool: 16,234
- DHCP server/ DHCP relay: Up to 3 servers
- 802.1Q VLANs: 4,094
- Policy-based forwarding
- 802.3ad link aggregation
- Point-to-Point Protocol over Ethernet (PPPoE)
- IPv6 application visibility, control and full content inspection (Virtual wire mode only)
- Jumbo frames
- Virtual routers: (PA-4020) 20, (PA-4050) 125, (PA-4060) 125
- Security zones: (PA-4020) 80, (PA-4050) 500, (PA-4060) 500
- Virtual systems (base/max): (PA-4020) 10/20*, (PA-4050) 25/125*, (PA-4060) 25/125*

THREAT PREVENTION (SUBSCRIPTION REQUIRED)

- Detect and block application vulnerability exploits (IPS)
- Stream-based protection against viruses, spyware and worms
- HTML/Javascript virus protection
- Inspect compressed files that use the Deflate algorithm (Zip, Gzip, etc)
- Custom vulnerability and spyware phone home signatures
- Content updates: daily (malware), weekly (vulnerability signatures), emergency (all)

QUALITY OF SERVICE (QOS)

- Policy-based traffic shaping by application, user, source, destination, interface, IPsec VPN tunnel and more
- Define up to 8 traffic classes with guaranteed, maximum and priority bandwidth parameters
- Real-time bandwidth monitor
- Per policy diffserv marking

MANAGEMENT TOOLS

- Integrated web interface
- Command line interface (CLI)
- Role-based administration
- Syslog and SNMPv2
- Customizable administrator login banner
- XML-based REST API
- Centralized management (Panorama)
- Centrally manage PAN-OS and content updates (Panorama)
- Shared policies (Panorama)

VISIBILITY AND REPORTING TOOLS

- Graphical summary of applications, URL categories, threats and data (ACC)
- View, filter, export traffic, threat, URL, and data filtering logs
- Fully customizable reporting
- Trace session tool

* Adding virtual systems to the base quantity requires a separately purchased license.

HARDWARE SPECIFICATIONS

	PA-4060	PA-4050/PA-4020
I/O	(4) 10 Gigabit XFP + (4) Gigabit SFP	(16) 10/100/1000 + (8) Gigabit SFP
Management I/O	(2) 10/100/1000 high availability, (1) 10/100/1000 out-of-band management, (1) DB9 console port	(2) 10/100/1000 high availability, (1) 10/100/1000 out-of-band management, (1) DB9 console port
Power supply (Avg/max power consumption)		Redundant 400W AC (175W/200W)
Input voltage (Input frequency)		100-240Vac (50-60Hz)
Max input current		50A@230Vac; 30A@120Vac
Power factor		0.93 to 0.95 (PA-4060, PA-4050, PA-4020)
Safety		UL, CUL, CB
EMI		FCC Class A, CE Class A, VCCI Class A, TUV
Rack mountable (dimensions)		2U, 19" standard rack (3.5"H x 16.5"D x 17.5"W)
MTBF		7.18 years (PA-4060, PA-4050, PA-4020)
ENVIRONMENT		
Operating temperature		32° to 122° F, 0° to 50° C
Non-operating temperature		-4° to 158° F, -20° to 70° C

ORDERING INFORMATION

	PA-4060	PA-4050	PA-4020
Platform	PAN-PA-4060	PAN-PA-4050	PAN-PA-4020
Annual threat prevention subscription	PAN-PA-4060-TP	PAN-PA-4050-TP	PAN-PA-4020-TP
Annual URL filtering subscription	PAN-PA-4060-URL2	PAN-PA-4050-URL2	PAN-PA-4020-URL2
VSYS upgrade (10 additional)	---	---	PAN-PA-4020-VSYS-10
VSYS upgrade (50 additional)	PAN-PA-4060-VSYS-50	PAN-PA-4050-VSYS-50	---
VSYS upgrade (100 additional)	PAN-PA-4060-VSYS-100	PAN-PA-4050-VSYS-100	---

For additional information on the PA-4000 Series software features, please visit www.paloaltonetworks.com/literature.



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