

Palo Alto Networks

“Next Gen” Firewall Overview

Authorized Integrator:

milestone
systems, inc.



Palo Alto Networks’ next-generation firewalls enable enterprises to see and control applications, users, and content – not just ports, IP addresses, and packets – using 3 unique identification technologies: **App-ID, User-ID, and Content-ID**. These identification technologies enable enterprises to create business-relevant security policies – safely enabling organizations to adopt new applications, instead of the traditional “all-or-nothing” approach offered by traditional port-blocking firewalls.

Palo Alto Networks’ next-generation firewalls are based on our **Single-Pass Parallel Processing (SP3) Architecture**, enabling low latency, multi-Gbps performance –while delivering greater functionality than any other type of security device.



Features and Benefits

- **Application visibility and control:** Accurate identification of the applications traversing the network enables policy-based control over application usage at the firewall, the strategic center of the security infrastructure.
- **Visualization tools:** Graphical visibility tools, customizable reporting and logging enables administrators to make a more informed decision on how to treat the applications traversing the network.
- **Application browser:** Helps administrators quickly research what the application is, its’ behavioral characteristics and underlying technology resulting in a more informed decision making process on how to treat the application.
- **User-based visibility and control:** Seamless integration with Microsoft Active Directory (AD) facilitates application visibility and policy creation based on user and group information in AD, not just IP address.
- **Citrix and terminal services visibility:** The identity of users sitting behind Citrix or terminal services is now collected and used to enable policy-based visibility and control over applications, users and content.
- **Real-time threat prevention:** Detects and blocks viruses, spyware, worms and application vulnerabilities; controls web activity; all in real-time, dramatically improving performance and accuracy.

- **File and data filtering:** Taking full advantage of the in-depth application inspection being performed by App-ID, administrators can implement several different types of policies that reduce the risk associated with unauthorized file and data transfer.
- **SP3 architecture:** combines single pass software with parallel processing hardware to deliver the multi-Gbps performance necessary to protect today's high speed networks.
- **Legacy firewall support:** Support for traditional inbound and outbound port-based firewall rules mixed with application-based rules smoothes the transition to a Palo Alto Networks next generation firewall.
- **Networking architecture:** Support for dynamic routing, IPv6, virtual wire mode and layer 2, layer 3 and mixed I2/I3 modes facilitates deployment in nearly any networking environment.
- **VPN connectivity:** Secure site-to-site connectivity is enabled through standards-based IPSec VPN support and while remote user access is delivered via SSL VPN connectivity.
- **Quality of Service (QoS):** Deploy traffic shaping policies (guaranteed, maximum and priority) enable positive policy controls over bandwidth intensive, non-work related applications such as streaming media while preserving the performance of business applications.

Key Platform Specifications	PA-4060	PA-4050	PA-4020	PA-2050	PA-2020	PA-500
Firewall throughput	10 Gbps	10 Gbps	2 Gbps	1 Gbps	500 Mbps	250 Mbps
Threat prevention throughput	5 Gbps	5 Gbps	2 Gbps	500 Mbps	200 Mbps	100 Mbps
IPSec VPN throughput	2, Gbps	2, Gbps	1 Gbps	300 Mbps	200 Mbps	50 Mbps
New sessions per second	60,000	60,000	60,000	15,000	15,000	7,500
Max sessions	2,000,000	2,000,000	500,000	250,000	125,000	64,000
IPSec VPN tunnels/tunnel interfaces	4,000	4,000	2,000	2,000	1,000	250
SSL VPN users	10,000	10,000	5,000	1,000	500	100
Virtual routers	25	25	10	5	3	2
Virtual systems	25	25	10	Not supported	Not supported	Not supported
Security zones	50	50	20	20	20	20
Traffic interfaces	(4) XFP + (4) SFP	(16) 10/100/1000 + (8) SFP		(16) 10/100/1000 + (4) SFP	(12) 10/100/1000 + (2) SFP	(8) 10/100/1000

Milestone Systems, Inc. is an authorized integrator of Palo Alto Network Firewalls. We are network security experts who help you assess your enterprise with a holistic view, and recommend the best solution to meet your particular business requirements. We offer you a functional **demo** of the Palo Alto Networks Firewall, or a limited-time **evaluation** unit installed on your own network, with our help to make sure it works properly and well in your system.

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