

Palo Alto Networks and Net Optics

Technology Segment: Network Monitoring and Availability

The Palo Alto Networks Technology Partner Program includes a select group of partners that deliver solutions or products that interoperate with the next-generation firewall.

HIGHLIGHTS

- Complete support for access and rule compliance at the user and application level
- Configuration and reporting of threat signatures for integrated threat management
- Full on-demand policy compliance audits (PCI-DSS, NIST, etc.) for next-generation firewalls
- Automated firewall analysis and audits to optimize firewall rule-sets and maintain compliance
- Network modeling and access path analysis to troubleshoot application and user connectivity issues

SOLUTION OVERVIEW

Palo Alto Networks and Net Optics have partnered to deliver a highly reliable and transparent threat prevention solution. In a high-availability network, the loss of a single device or power source must not be allowed to disrupt network connectivity. Adding a network security device to protect the network should not introduce any single point of failure. Combining Palo Alto Networks' next-generation firewall with Net Optics' Bypass Switches provides the necessary full threat prevention transparently and without reducing reliability.

Palo Alto Networks' Virtual-Wire technology allows the next-generation firewall to be deployed in a completely transparent, Layer-1 mode, while still providing full protection. Palo Alto Networks' App-ID, User-ID, and Content-ID solutions are fully functional whether deployed in Layer-3 mode, Layer-2 mode, or Virtual-Wire (Layer-1). While the firewalls are highly resilient with redundant power supplies, the Net Optics Bypass Switches allow traffic to be re-routed in case the firewalls are taken off-line for scheduled maintenance or unplanned outages.

See Figure 1 below for an illustration of how the solution works. The Bypass Switch has two network ports that are connected in-line to the upstream and downstream network devices and two Monitor ports that connect to the Palo Alto Networks firewall. Under normal network conditions, the Bypass Switch will pass a heartbeat through the firewall to ensure operation and all network traffic will be routed through the firewall ports.

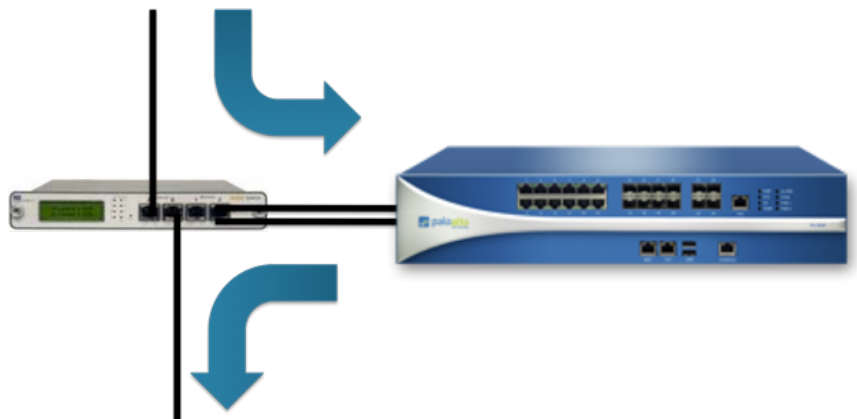


Figure 1: Bypass Switch and Firewall under normal operation

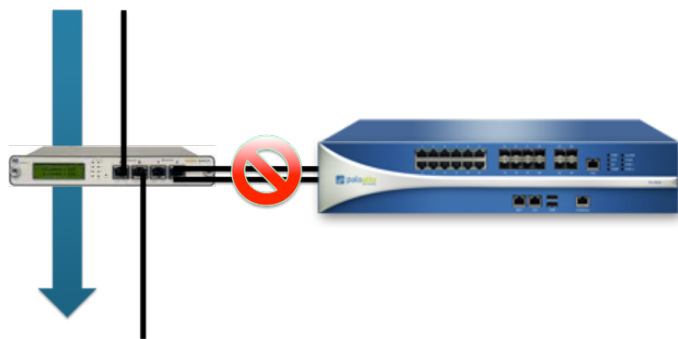


Figure 2: Bypass Switch re-routing traffic around firewall

In the event that the firewall is taken off-line, the Bypass Switch will immediately detect the change, either by link-state or by loss of the heartbeats, and will re-route traffic around the firewall. Once the firewall is brought back on-line, traffic automatically resume through the firewall ports.

Net Optics offers a range of Bypass Switches, with copper or fiber ports, and speeds of 10/100/1000 Mbps and 10 Gbps. The Bypass Switches provide redundant power to maximize reliability of the network. The joint solution from Palo Alto Networks and Net Optics provides next-generation firewall security without compromising on reliability.

PALO ALTO NETWORKS

Palo Alto Networks™ (NYSE: PANW) is the network security company. Its innovative platform allows enterprises, service providers, and government entities to secure their networks and safely enable the increasingly complex and rapidly growing

number of applications running on their networks. The core of Palo Alto Networks' platform is its Next-Generation Firewall, which delivers application, user, and content visibility and control integrated within the firewall through its proprietary hardware and software architecture. Palo Alto Networks' products and services can address a broad range of network security requirements, from the data center to the network perimeter, as well as the distributed enterprise, which includes branch offices and a growing number of mobile devices. Palo Alto Networks' products are used by more than 9,000 customers in over 100 countries.

www.paloaltonetworks.com

NET OPTICS

Net Optics is the leading provider of Intelligent Access and Monitoring Architecture solutions that deliver real-time IT visibility, monitoring and control. As a result, businesses achieve peak performance in network analytics and security. More than 7,000 enterprises, service providers and government organizations—including 85 percent of the Fortune 100—trust Net Optics' comprehensive smart access hardware and software solutions to plan, scale and future-proof their networks through an easy-to-use interface. Net Optics maintains a global presence through leading OEM partner and reseller networks.

www.netoptics.com

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