Taking Healthcare Security Forward
With Palo Alto Networks Enterprise
Security Platform

Palo Alto Networks® Enterprise Security Platform

Network security and IT staff at healthcare providers find themselves at the center of a perfect storm as they need to support the rapid adoption of new technology—EMR, PACS applications, network-connected medical equipment and mobile devices—while enabling safe access to patient data from a myriad of entry points—hospitals, doctor's home office, affiliates facilities, mobile devices, and more. In parallel, they must ensure absolute compliance to increasingly tighter regulations that impact patient data and medical equipment and detect and block more systematically a rising volume of threats.

Enterprise Security Platform Components

The three main components that constitute the Palo Alto Networks enterprise security platform ensure consistent end-to-end security throughout your organization:

- **Our next-generation firewall** provides unprecedented visibility and control over all network traffic based on applications, users, and content. From general enterprise applications to healthcare specific systems based on HL7 (EMR and EHR) and DICOM (PACS systems), we enable network security to isolate specialized traffic that needs be attended to with the highest degree of attention from general

- **Our threat intelligence cloud** (public or private) is a threat detection sandbox that works in tandem with our next-generation firewall to detect unknown threats and automatically creates and distributes protection to all deployed firewalls in your environment.

- **Our advanced endpoint protection**, Traps, ensures the protection of endpoints and is rapidly becoming a viable replacement for antiquated antivirus solutions that can no longer detect the majority of today's attacks. Traps prevents active exploits of software vulnerabilities by mitigating the finite number of exploitation techniques attackers must use to deliver their malware.

Security Challenges in Healthcare:

- Securing the rapid deployment of new technologies and connected equipment

- Securing legacy systems and non-patchable equipment

- Regulations and patient privacy

- Large user population with multiple and varied usage

- Networks and datacenter modernization

- Destructive malware, APTs
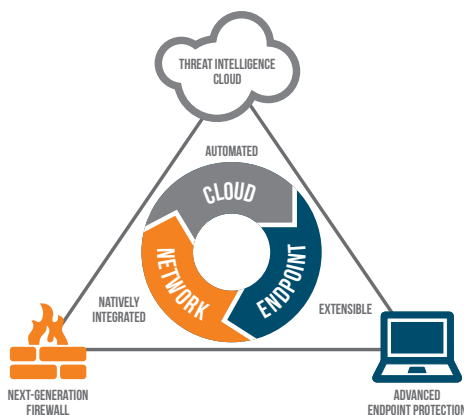
- IT costs and resources constraints

Figure 1: Palo Alto Networks enterprise security platform enables you to simplify your security infrastructure and deploy the same technology everywhere.

Finally, Palo Alto Networks enterprise security platform eliminates many of the complexities involved with point products—firewall, IPS, IDS, URL filtering, endpoint antivirus, and more. We provide visibility at all layers, and into every step of an advanced attack with a single inline security appliance augmented with cloud intelligence. This innovative architecture can be operated at a fraction of the cost it takes to deploy and manage an equivalent set of point products.

Establish a Foundation for Better Security With Our Enterprise Security Platform

Applying consistent security rules from the edge of your network to the core of your datacenter is paramount. Palo Alto Networks allows you to deploy the same technology for many use cases across all your facilities so that you can eliminate complexity out of security. With a platform approach, you no longer have to deploy a myriad of point products that your network and security teams struggle to keep up to date and configure properly.

Reduce your security challenge

With Palo Alto Networks enterprise security platform, you gain unprecedented control over what's on your network at all times. Equipped with visibility and classification of all traffic by application, user, and content, you can identify what shouldn't be on your network. You can start to make more informed decisions about where to apply tighter control on unauthorized applications, such as social networks, or whether to block traffic from high-risk geographies.

Protect Patient Data and Reduce the Scope of Compliance

Healthcare providers manage sensitive data that are protected under numerous regulations that differ by country (for example, HIPAA and PCI compliance in the US). With our enterprise security platform, you can establish zones of similar security profiles (trusted, untrusted, PHI, admin, medical staff, and more) and define strict security rules to control traffic in-and-out of the various zones. This will immediately improve your level of security but also reduce the scope of your compliance audits.

High-Speed Security fort he Modern Datacenter

In healthcare, access to systems is paramount. Uptime and performance can be a question of life or death. You cannot afford to let security get in the way, yet you can no longer make a compromise between security and performance. Our enterprise security platform relies on a modern architecture that protects, scales, and evolves with your datacenter's needs. We enable you to deploy a high-performance, flexible network security infrastructure that safely enables business-critical applications and supports always increasing volumes of traffic.

Automate and Simplify Daily Operations With a Platform Approach

Our central management solution, "Panorama", makes security management and intelligence gathering easy. You can deploy security policies from a central point and ensure that all security appliances are up-to-date with the latest configuration and security policies. You gain access to logs and traffic reports at all levels of the infrastructure and you can more easily identify all devices and connected endpoints on your network.

Enable Mobile Initiatives and Keep Them Safe

Increasingly, doctors and medical staff use mobile devices, and tablets to collect and update patient data at bedside or throughout their days, from the hospital and at home. Our enterprise security platform includes a component for securing mobile devices that let you bring to mobile devices the security rules you apply to personal computers in the office. These policies can be managed centrally and from the same management console as all your security rules for the assets within the traditional perimeter.

Summary

Regain control over what's on your network and take the first step today. Our enterprise security platform protects every corner of your organization—from your mobile workers to the core of your cloud-enabled datacenters. Automation within the platform eliminates the need for expensive, manual processes, and improves your ability to quickly respond to new global threats.

Sign-up for a free network assessment and your very own Application Usage and Threat report: http://connect.paloaltonetworks.com/avr-alt. This free and non-disruptive process will help you discover unknowns on your network and where you're most at risk.