

# PALO ALTO NETWORKS AND MEDIGATE

## Healthcare Device Identification, Classification and Threat Prevention

### KEY BENEFITS OF THE INTEGRATION

Medigate's dedicated Medical Device Security Platform integrates with Palo Alto Networks Security Operating Platform via XML APIs.

#### Features

- Fingerprints connected medical devices with granular detail
- Tags devices to easily set rule-based security policies
- Automates rule-based, clinically driven security policies

#### Benefits

- Identifies and manages connected medical devices security
- Mitigates security flaws and reduces risk of successful cyberattacks
- Prevents infected medical devices from compromising other systems

### The Challenge

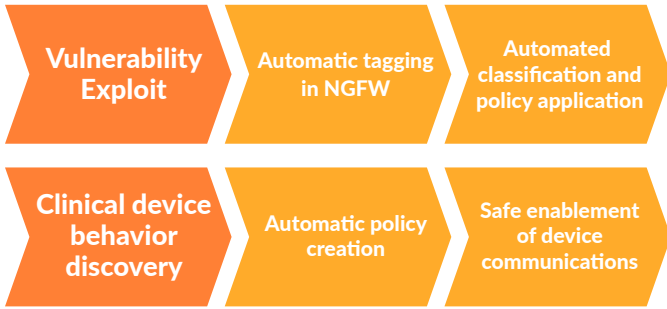
Securing medical devices requires detailed knowledge of each manufacturer and their proprietary protocols as well as comprehensive understanding of medical workflows. The diversity of device types, manufacturers, operating systems, software versions and protocols makes it difficult for security products to accurately identify devices and indicate out-of-scope activity. Moreover, many medical devices were not designed to be network-managed and cannot be secured by endpoint security products, further handicapping traditional security's ability to identify and secure them. Equally challenging to fingerprinting connected medical devices is the clinical domain expertise needed to detect devices' suspicious behavior.

### Medigate Medical Device Security Platform

The Medigate™ Medical Device Security Platform discovers all medical devices connected to your network. It identifies and classifies the specific types of devices, including make and model, understands their normal communications and operations, and provides full visibility into their risk and security status. Furthermore, the platform inspects traffic between identified medical devices and the network, detects anomalous behavior, and identifies threats. Using knowledge of medical device protocols, existing and potential cyberthreats, and expected device behavior, the platform detects known and unknown threats in real time.

### Palo Alto Networks

The Palo Alto Networks® Security Operating Platform prevents successful cyberattacks through automation. It combines network and endpoint security with threat intelligence and accurate analytics to help streamline routine tasks, automate protection and prevent cyber breaches. Tight integrations across the platform and with ecosystem partners deliver consistent security across clouds, networks and mobile devices, natively providing the right capabilities at the right place throughout the attack lifecycle. Built from the ground up with breach prevention in mind, the platform shares important threat information across security functions system-wide. Because it was architected to operate in modern networks with new technology initiatives, such as cloud and mobility, customers benefit from better security and lower total cost of ownership than legacy security or point products can provide.



**Figure 1: Palo Alto Networks and Medigate integration**

**Palo Alto Networks and Medigate**

The process begins with enhanced visibility of all medical devices on the network. Once identified, Medigate’s platform matches each device’s IP with tags based on its type, vendor and model. The platform then transfers the tag-to-IP matching to the firewall through Palo Alto Networks application programming interface, or API. Accurate tagging and classification enable the creation of rule-based, clinically driven security policies that only allow approved traffic. Additionally, Medigate’s platform detects both network and security anomalies, generating alerts for version control, vulnerabilities, security issues, changes and much more.

Taking advantage of Medigate’s knowledge of clinical domain applications and the unparalleled traffic control ability of Palo Alto Networks, the integrated offering can automatically create detailed Zero Trust policies based on network communications.

The tagging mechanism opens a whole new domain of security policy management capabilities for healthcare providers. Previously, firewall rules had to rely on network zones, IP addresses and ranges. Tagging devices based on functionality and vendor adds new levels of granularity, enabling far more specific policies. Furthermore, the Medical Device Security Platform monitors changes

in devices’ network properties, such as IP addresses and software versions, and incorporates them to update tags continuously.

**About Medigate**

Medigate provides the industry’s first and leading dedicated medical device security platform, enabling providers to deliver secure, connected care. Only Medigate fuses the knowledge and understanding of medical workflow and device identity and protocols with the reality of today’s cybersecurity threats. With Medigate, you can more safely operate all medical devices on your network, enabling you to deploy existing and new devices to patients while ensuring their privacy and safety. [www.medigate.io](http://www.medigate.io) / [Contact@medigate.io](mailto:Contact@medigate.io)

**About Palo Alto Networks**

We are the global cybersecurity leader, known for always challenging the security status quo. Our mission is to protect our way of life in the digital age by preventing successful cyberattacks. This has given us the privilege of safely enabling tens of thousands of organizations and their customers. Our pioneering Security Operating Platform emboldens their digital transformation with continuous innovation that seizes the latest breakthroughs in security, automation, and analytics. By delivering a true platform and empowering a growing ecosystem of change-makers like us, we provide highly effective and innovative cybersecurity across clouds, networks, and mobile devices. Find out more at [www.paloaltonetworks.com](http://www.paloaltonetworks.com).



3000 Tannery Way  
 Santa Clara, CA 95054  
 Main: +1.408.753.4000  
 Sales: +1.866.320.4788  
 Support: +1.866.898.9087  
[www.paloaltonetworks.com](http://www.paloaltonetworks.com)

© 2018 Palo Alto Networks, Inc. Palo Alto Networks is a registered trademark of Palo Alto Networks. A list of our trademarks can be found at <https://www.paloaltonetworks.com/company/trademarks.html>. All other marks mentioned herein may be trademarks of their respective companies. medigate-tpsb-082818