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Fortinet and Asimily Security Solution

Healthcare-focused Medical and Connected Device Solution Solving for a Variety of Use Cases Around Inventory, Cybersecurity, and Operational Management

Problem Statement

Healthcare and life sciences facilities have seen a surge in the number of connected Internet-of-Things (IoT) devices, and as connectivity has increased, so too have cyberattacks. Approximately 25% of cyberattacks involved IoT devices in 2020, and by 2025 attacks are expected to grow by 500%. Many IoT devices subject to attack are vital to patient care, including blood glucose monitors, infusion pumps, imaging devices, patient monitors, and laboratory processing equipment. Managing and securing connected medical and IoT devices is a challenge but essential to stop unauthorized access, data breaches, and disruption to patient care.
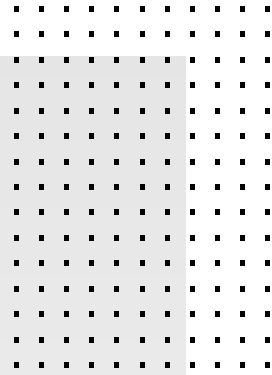
Joint Solution

Asimily and Fortinet have established a technology partnership to address the above challenges health systems face in securing their medical and connected devices.

Asimily's Internet-of-Medical-Things (IoMT) risk remediation platform holistically secures the mission-critical healthcare devices that deliver safe and reliable care. Asimily passively monitors medical devices on the network to inventory every device; track device location; identify, prioritize, and mitigate vulnerabilities and anomalies; discover detailed flows; create and enforce policies; and isolate, segment, and microsegment devices on the network. Asimily Insight can provide context about the different devices to the Fortinet Security Fabric as well as information to block or segment specific devices on the network.

Fortinet FortiGate Next-Generation Firewalls (NGFWs) deliver industry-leading enterprise security for any edge at any scale with full visibility and threat protection. Organizations can weave security deep into the hybrid IT architecture and build security-driven networks to deliver ultrafast security end to end, enable consistent real-time defense with artificial intelligence (AI)/machine learning (ML)-powered FortiGuard Services, achieve seamless user experience with security processing units, and improve operational efficiency and automate workflows.

The FortiGate is a key part of the Fortinet Security Fabric, which is the industry's highest-performing cybersecurity platform, powered by FortiOS, with a rich open ecosystem. It spans the extended digital attack surface and cycle, enabling self-healing security and networking to protect devices, data, and applications. The Fabric can be extended across organizations via seamless integration with diverse Fabric-Ready technology alliance partner solutions. Enabling a broad ecosystem minimizes gaps in enterprise security architectures while maximizing security return on investment (ROI).

Joint Solution Components

- Fortinet FortiGate Next-Generation Firewall
- Asimily Insight

Joint Solution Benefits

- Precise medical device classification and profiling that are essential for informing network policies
- Rapid network isolation for compromised medical devices
- Automated service restoration upon remediation
- Unparalleled security protection by leveraging the Fortinet FortiGate NGFW and the Fortinet Security Fabric
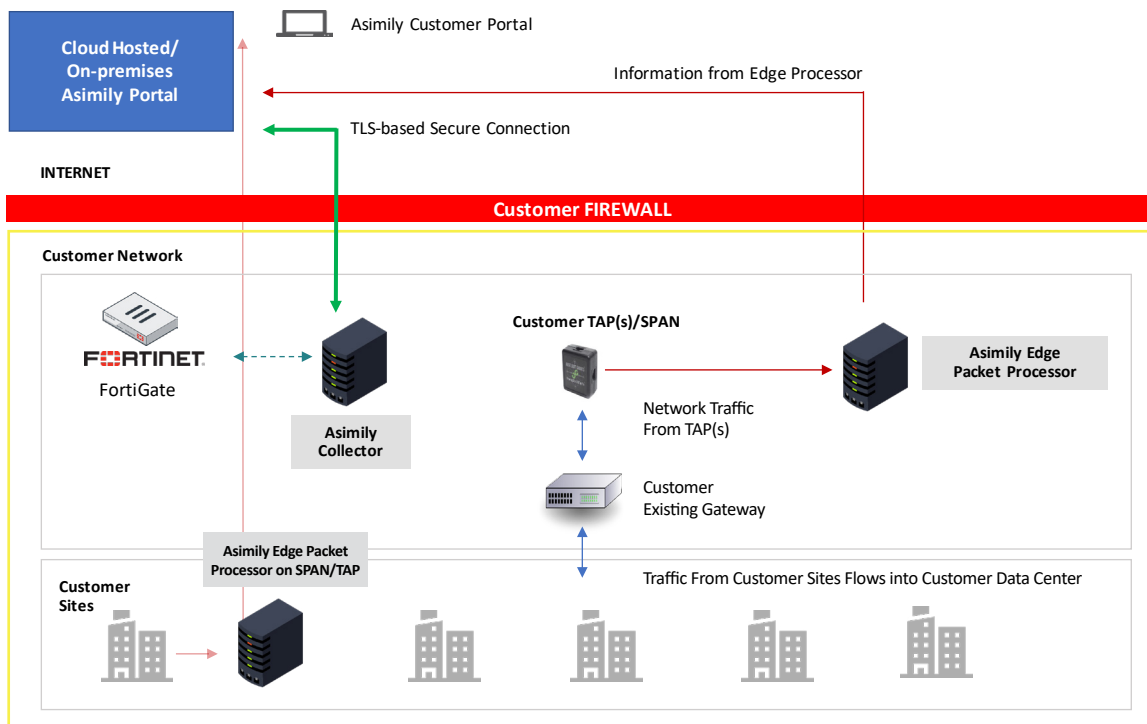
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FABRIC-READY

Figure 1: Asimily and Fortinet FortiGate integration.

The figure above illustrates how the joint Asimily and Fortinet FortiGate solution works:

1. The Asimily platform uses machine learning (ML) to understand the device, its risks, and any threats to facilitate real-time risk and threat detection, as well as alert generation.

2. Once a risk is detected on an IoT device, the administrator can orchestrate containment or segmentation by applying a policy to the device directly from the Asimily UI through the FortiGate.

3. Applied policies can also be similarly revoked.

About Asimily

Asimily is a healthcare focused company offering a solution that helps healthcare providers and device manufacturers manage and secure their connected medical devices offering use case inventory, cybersecurity and operational management. Asimily's *Insight* solution has already been implemented in several health systems across the country.

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