Network TAPS and IoT Security

High-Performance Asset Visibility

Solution Overview

Problem

Medical technology advancements continue to augment the capabilities of healthcare professionals. Today, a wide variety of health monitoring devices and IoT medical devices (IoMT) assist in providing high-quality patient care. These devices give doctors, nurses, and specialists the power to access data in real-time to expedite decision-making and improve health outcomes. The upside of this innovation is better care that returns patients to their lives and families as fast as possible. The downside of this convenience is the safety of the data collected, because patient data is prized by bad actors looking to prey on any clinical network vulnerability, including the medical devices that connect to them.

Solution

Securing IoMT and ultimately protecting private patient data is possible with the Medigate Device Security Platform (MDSP). The MDSP helps healthcare IT managers discover, assess, monitor, and protect all the devices connected to the hospital's network and empowers them to make decisions about performance and security. The MDSP delivers on its promise by receiving all the required raw network traffic from Garland Technology Network TAPs. Network TAPs are the most reliable way to ensure full visibility into the hospital's network traffic. Upon installation, Garland's Network TAPs deliver immediate and full copies of duplex traffic from the network to the MDSP. Medigate then discovers and profiles every connected device, analyzes and scores their risks, and automates remediation responses to keep the IT network safe and operating efficiently.

Benefits

The joint solution from Medigate and Garland Technology ensures that protection and insights are prompt and turnkey. Just like more data helps a doctor provide better treatment, more data about connected devices helps IT managers make smarter decisions that improve network security and performance. An added benefit of connecting the MDSP using Garland Network TAPs is knowing they pose no new vulnerabilities to the network. Network TAPs cannot be hacked because they do not have an IP or MAC address. Also, Network TAPs do not drop packets, guaranteeing the MDSP receives all the data needed to perform its job properly. Network TAPs will never oversubscribe the MDSP or negatively affect network uptime.

How does the solution work

1. Portable network TAPs from Garland Technology connect to the IT network by installing between two network devices.

2. The MDSP connects to the network TAPs.

3. Network TAPs copy full-duplex traffic and send the copies to the MDSP, which is out-of-band.

4. The MDSP receives copies of the hospital's network traffic from the network TAPs.

5. Using passive, Deep Packet Inspection (DPI) techniques, the MDSP profiles all devices connected to the network and provides security insights about their risks and relationships.

About Medigate

Medigate is a healthcare-dedicated medical device security, asset management, and operational analytics company. We capture, enrich, and orchestrate clinical device data via integrated solutions that break traditional IT, Technology Management, and Supply Chain operational silos. Our solutions up-skill staff and drive convergence in ways that harden hospital security infrastructures. The winner of Best in KLAS 2021 for Healthcare IoT Security, Medigate is the recognized solution market leader. Visit Medigate at medigate.io.

About Garland Technology

Garland Technology is a USA-based manufacturer of network TAPs, network Packet Brokers, and Inline Bypass solutions. We engineer, manufacture, and support our hardware solutions in Richardson, Texas. Since 2011, we've been helping companies' network monitoring and security tools deliver on their promise of performance and protection because we reliably deliver all of the data the tools need to shine. For help with projects large and small, including installations, upgrades, and streamlines, or to learn more about the inventor of the first bypass technology, visit GarlandTechnology.com or @garland-technology-llc.

Email: **contact@medigate.io**
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