Gaining Complete Visibility into Connected Medical Devices

Connected medical devices are essential to advancing patient care. The biomed teams managing these devices must balance the intersection of products, manufacturers, clinical teams, and IT staff. Medigate provides them with detailed visibility into their medical device assets, delivering real-time data for lifecycle management.

Biomed teams rely on instant, accurate data to make critical decisions about thousands of connected medical devices. In the past, creating a detailed inventory was a highly manual process. Collecting detailed, accurate data on a large number of device types, device manufacturers, protocols, and specifications—and then tracking maintenance and procurement requirements—was a huge challenge. Manual CMMS data entry is always prone to human error and takes valuable staff time away from critical testing, monitoring, and reporting tasks. Medigate changes all of that.

Gain Real-Time Visibility for Dynamic Management

Medigate automatically discovers all connected medical devices on the network, their communication protocols, and associated technical attributes. As devices are added, removed or upgraded, Medigate updates the inventory in real time. Deep packet inspection (DPI) data is used to calculate a device's risk score, which can be correlated with medical device standards and clinical parameters to inform risk assessment.
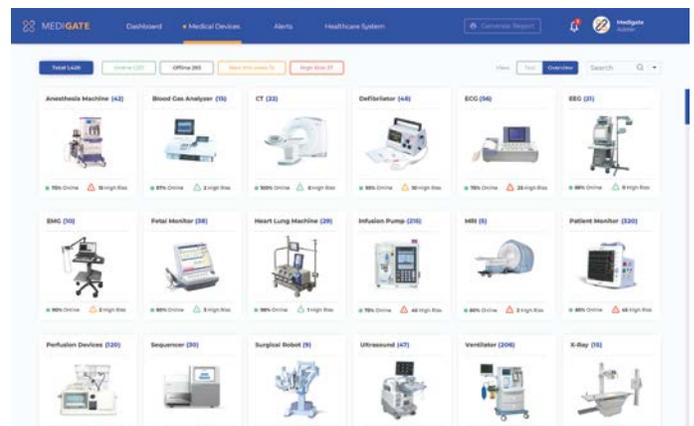

Figure 1: Visibility into complete device inventory with ability to drill down into details of each device

Track Device Utilization

With a detailed inventory, biomed teams can not only instantly see which devices are online and which are not, they can see how the devices are actually performing. For example, understanding how many scans a CT has run, helps the team determine if the devices are being utilized efficiently across the hospital and maximize ROI. They can also plan and track maintenance for each device, corresponding to manufacturer recommendations or alternative strategies. Medigate simplifies management by automatically logging the discovered inventory and device modifications into the HDOs CMMS.

Manage Software Versions, Patches and Cyber Risk

Medigate displays operating system and application version data for each device, as well as alerts about available new software versions, patches and CVEs relevant to the HDOs current inventory.
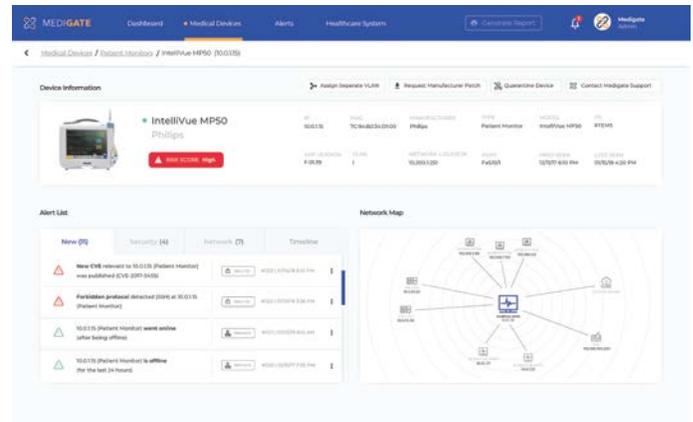

Figure 2: Request patches from vendors automatically and log when patches are deployed

Detect and Prevent Threats to Reduce Risk

The platform understands medical device protocols, existing and potential cyber threats, and expected device behavior. It meticulously analyses device and network communication, as well as medical workflow patterns, to accurately detect anomalous behavior and identify threats in real time with minimal false positives.
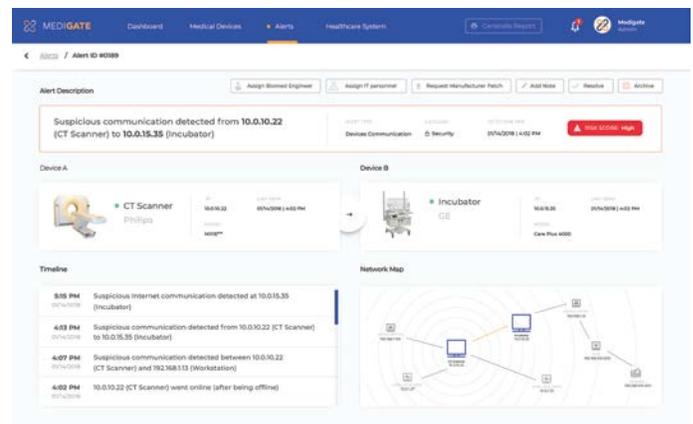

Figure 3: Detect unusual communication patterns and device behaviors to prevent cyberthreat infiltration

CMMS Integration

Medigate integrates with computerized maintenance management systems (CMMS) for medical device servicing and maintenance. CMMS integration enhances asset inventory and service management, automates tasks, and frees the biomed team from manual, time-consuming processes. With Medigate, teams can make data-driven decisions with real-time reports in minutes, not hours or days.

For more information about the Medigate platform, visit **www.medigate.io** or contact your local account representative at **info@medigate.io**