

# Clinical Device Efficiency

A Dynamic Record of Truth for Connected Devices

At a Glance

## Eliminating Data Disconnects and Manual Routines

Today's computerized maintenance management system (CMMS) is what healthcare delivery organizations (HDOs) use to manage connected devices. These systems are disconnected from the environments they are designed to manage. Manual routines used to onboard devices, manage their lifecycle, and locate them when they need preventative maintenance (PM) are time-sinks that result in data deficits and inaccuracies. Current generation CMMS cannot function as a real-time source of truth, and Biomed workflows cannot mature as a result. Given technology management staffing shortages and rapidly increased spending on devices, HDOs must consider the data integrity required to power this desperately needed automation.

### Key benefits:

- Medigate enriches CMMS with the long-missing clinical device context
- Eliminate outdated, manual routines and enhance essential BioMed workflows
- Location, utilization, and inventory data improve operational efficiency
- Continuously reconcile known inventory for accuracy

## About Clinical Device Efficiency

Medigate has developed a Clinical Device Efficiency (CDE) module to improve the management of connected devices. It works by continuously delivering the data-rich context that Medigate is known for to CMMS workflows. CDE provides CMMS a live connection to the assets it is intended to manage. Workflows can be auto triggered and propagated with the information required to make them more productive and cost-effective. And with access to relevant cuts of the same data foundation, related systems and processes can finally perform as intended.

## How it Works

The CDE module leverages Medigate's existing Deep Packet Inspection (DPI) capabilities and newly developed enrichment techniques that combine the captured utilization data with what Medigate already knows from the inventoried device profiles it creates and manages. These profiles are attributed identities and include relevant details describing network status, security posture, and location. The analysis engine normalizes and merges the data into a "stateful" picture at the device type or fleet level. Over time, the recommendation engine analyzes these "states" and looks for opportunities to recommend actions to improve device lifecycle management. From planning and acquisition through retirement and disposal, these recommendations are relevant across the entire asset lifecycle.

- **Visibility:** CDE resolves CMMS data deficits quickly, accurately, and continuously. All required data management utilities are built into the product, ensuring that the CMMS can serve the HDO as a single record of truth.
- **Location:** Through integrations with network management tools and real-time location system (RTLS) sources, BioMed can locate devices in the hospital with a high degree of precision. Location services steadily improve asset allocations and dramatically accelerate remediation workflows.
- **Utilization:** Knowing how, when, and where a device is being used dramatically improves device management operations and helps streamline PM.
- **Inventory:** Continuous resolution of the location, status, and utilization of connecting devices against the list created and managed in the CMMS. Often, a device marked 'lost' in the CMMS may still be in use. BioMed needs to find the device, confirm the status, remediate, or replace it, and CDE reconciles this process automatically.

## Conclusion

Across all industries, improvements in asset utilization, whether driven by accurate allocations or increased availability by simply reducing unnecessary purchases, drive significant value to the enterprise. And because this is especially true in healthcare, Medigate has been deeply invested in collecting the correct data and validating the insights that deliver these benefits. By powering the CMMS as a real-time record of truth, Medigate improves connected device management across multiple operational dimensions.



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