



MediCollector MDDS

Software for acquiring, recording, and streaming vital signs data and waveforms from bedside patient monitors and medical devices using standardized protocols like HL7 and FHIR.

<https://www.medicollector.com/medical-device-data-system-medicollector.html>

Overview

MediCollector MDDS (Medical Device Data System) provides simple, easy-to-use tools for medical device integration, making hospital data accessible for clinical research, EMR/HIS integration, and OEM applications. The software acts as middleware, understanding complex vendor-specific and proprietary medical device protocols to standardize the output into messages like HL7 (v2.6) and HL7 FHIR. This allows data to be streamed directly to external systems such as EMR/EHR, Integration Engines, and third-party applications like Matlab and SAS.

Key benefits include reducing manual data entry errors, improving clinician productivity, and accelerating clinical research by providing continuous, de-identified, high-frequency numeric and waveform data. The products are designed for flexible deployment (bedside computer, headless mini-PC, or server) and are fault-tolerant, automatically resuming streaming if a device is disconnected or turned off.

MediCollector products operate as a Medical Device Data System (MDDS), meaning the software acquires and transports data without altering or modifying it, which, according to FDA guidance, reduces regulatory risk. The product line includes BEDSIDE (desktop GUI), SERVICE (headless Windows service), CLI (command line), and CENTRAL (server-based, network-wide capture).

Key Features

- Acquire numeric and waveform data from medical devices
- Stream data to external systems (EMR/EHR, Matlab, SAS)

- Standardized output (HL7 v2.6, HL7 FHIR, TCP protocols)
- Vendor-neutral support for a long list of medical devices
- Fault-tolerant data acquisition and streaming
- Data de-identification for easier IRB approval
- Runs 'headless' or as a Windows Service for continuous operation

Pricing

Model: subscription

Licensed using yearly subscriptions. Pricing varies by product: MediCollector CLI starts at \$300 per year, while BEDSIDE and SERVICE are \$1,200 per year. MediCollector CENTRAL requires a quote.

Starting at: USD \$300

Target Company Size: startup, small, medium, enterprise

Integrations

HL7, HL7 FHIR, EMR/EHR Systems, Integration Engines (e.g., Mirth, Iguana), Matlab, SAS, Excel/CSV/TXT/EDF Export

Compliance & Certifications

FDA Medical Device Data System (MDDS) Classification

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