



MediCollector

Medical Device Integration (MDI) software to capture, record, and stream vital signs and patient data from hospital bedside monitors for research and EMR/HIS integration.

<https://www.medicollector.com>

Overview

MediCollector is a world leader in Medical Device Integration (MDI) providing a suite of software tools to acquire, record, and stream patient data from medical devices, such as vital signs monitors, at the hospital bedside. The software is classified as a Medical Device Data System (MDDS), which, according to FDA guidance, means it acquires and transports data without altering or modifying it, thus reducing regulatory burden compared to full medical devices.

Key Products:

MediCollector CENTRAL: A server-based system for continuous, network-wide data capture from multiple medical devices. Ideal for large-scale data acquisition.

MediCollector BEDSIDE: A simple desktop application for collecting data from a single, directly connected device.

MediCollector SERVICE: Runs invisibly in the background as a Windows Service, designed for continuous, long-term operation or embedding into third-party systems.

MediCollector CLI: A command-line interface/API for developers to quickly query/poll devices for live numeric data.

Core Capabilities:

Data Acquisition: Captures both waveform and numeric data from a long list of supported devices (e.g., Philips, GE, Draeger).

Data Recording: Records data to disk in universal formats like CSV, TXT, and EDF for research and analysis. Data is stored in a proprietary ".medi" (TDMS) binary format internally.

Real-time Streaming: Streams live data out to external systems using industry-standard protocols including TCP, HL7 2.6, and HL7 FHIR.

Interoperability: Acts as middleware to convert complex, vendor-specific protocols into standardized HL7 messages for EMR/HIS systems.

Reliability: Features automated session resume upon device reconnection and can operate in "air gapped" environments via manual license activation.

Target Users & Use Cases: Target users include researchers, AI/ML developers, and clinical engineers who need reliable, continuous access to high-fidelity patient data for research, algorithm development, and integration into Electronic Medical Records (EMR), Hospital Information Systems (HIS), and other third-party applications (like Matlab, SAS, R). The software was launched in 2017, licensed from the Wyss Institute at Harvard Medical School.

Key Features

- Acquire waveform and numeric data from medical devices
- Real-time streaming via HL7 2.6, HL7 FHIR, and TCP
- Record data to CSV, TXT, and EDF formats
- Server-based multi-device capture (MediCollector CENTRAL)
- MDDS classification (not subject to FDA device regulation)
- Support for air-gapped environments
- Automated error recovery and session resume
- Bulk data export utility

Pricing

Model: subscription

Yearly subscription licensed per device type/driver and per connection. Pricing is not publicly disclosed and requires contacting the company for a quote. A free evaluation version with a 2-minute session limit is available for download.

Target Company Size: small, medium, enterprise

Integrations

HL7 2.6, HL7 FHIR, HIS/EMR systems, Excel, Matlab, SAS, R, LabVIEW

Compliance & Certifications

MDDS

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