

SECURE ECOSYSTEMS FOR CLINICAL TRIALS

Internet of Medical Things (IoMT)

:: csem



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CSEM'S IoMT TECHNOLOGY ECOSYSTEM FOR MEDICAL APPLICATIONS



The Internet of Medical Things (IoMT) enables virtually any medical device to collect, analyze, and send data across the Internet. Essentially, IoMT allows medical, wellness, fitness and healthcare devices/products/equipment to share data in real-time with those who have a legitimate need for this information.

CSEM's IoMT solution is both highly modular and customizable. It can be easily deployed in hospitals, clinics or even the home setting for real-time remote patient monitoring. It features the following characteristics:

Data gathering

- Acquisition of data from medical sensors
- Acquisition of data from wearable devices
- Real-time streaming to a privacy-aware cloud

Data processing

- Customizable APIs (RESTful, GraphQL)
- Algorithm as a service in the cloud or on the edge
- All know-how algorithms are available from CSEM

Privacy-aware secure storage

- Private cloud
- Encrypted data at rest
- End-to-end (E2E) encryption
- Fine-grained selective data sharing (RBAC & ACAC, Role-base & Attribute-based Access Control)

Data visualization

- Web front-end for immediate feedback
- Smartphone app

