



GlobalLogic Solutions: Internet of Medical Things (IoMT)

Partnering with a Leader in Regulated Medical Software Product Development



Introduction

GlobalLogic partners with some of the world's leading medical devices, medical technology, clinical research, and in vitro diagnostics (IVD) organizations to create world-class patient, caregiver, and clinician experiences.



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Our services enable these organizations to get products to market faster and [transform healthcare through technology and innovation](#).

In this highly regulated industry, it is essential to work with a partner whose software engineering skills come intertwined with a deep quality culture and a strong working knowledge of the governing ISO/IEC standards.

From embedded systems and software as a medical device (SaMD) to clinical study platforms, internet of medical things (IoMT), and telehealth, GlobalLogic has helped the world's leading medical technology, CROs, and diagnostics organizations design, develop, and deliver world-class digital patient experiences for over 20 years.

In this solution guide, we explore the key areas where GlobalLogic can help you develop medical device/IVD software, digital health platforms, healthcare information exchanges, IoMT and smart healthcare systems that facilitate telehealth, and health data intelligence and diagnostics (HDID).

At GlobalLogic, we believe that when you create high-quality medical devices that are easy to use, it increases your business value as well as your value to your clients.

We've learned that whenever you can create patient value in the marketplace, good things will follow.

Given the technical sophistication of today's environments, the best way to achieve that end is to increase your creation potential and innovation by working with a knowledgeable, scalable, and trusted technology partner.



Internet of Medical Things (IoMT)

Explore how the IoMT is bringing value to and helping to transform healthcare businesses and patient services.

How IoMT Delivers Value

IoMT systems span myriad connected devices, systems, software applications, and other technology that manage the millions of data connections and device sessions currently in use. These systems provide the fundamental capabilities required to perform remote service, software deployment, and automatic data collection for customers and manufacturers.

IoMT is quickly gaining importance in the digital era, driven primarily by the relatively low cost of memory and computing power, ubiquitous communication capabilities, and cloud services' affordability and feature-rich functionality. These factors have substantially reduced the cost per device and enabled the capture of higher volumes of data, providing benefits to patients and clinicians alike.



The software allowed organizations to register and track any kind of assets they own, and its audience is constantly growing. It serves more than 4.5K hospitals in 21 countries.”

- GlobalLogic Client

How GlobalLogic Can Help

GlobalLogic brings extensive experience working with IoMT devices and technology, including medical devices, mobile phone gateways, and cloud systems.

Whether it involves enabling embedded devices with safe and secure communications, creating cloud solutions that allow these devices to be managed cost-effectively, or supporting the integration of patient-related data into third-party clinical data or electronic medical record (EMR) systems, we've done it.

GlobalLogic's IoMT experience creates value for medical device manufacturers by streamlining the development process, helping them to:

Increase uptime for products in the field by executing smarter service (remotely or in person) using service personnel who already know the failures and have the parts available to service their products.

Produce devices ready for the 510K clearance process.

Develop better SaMD applications that enable doctors and clinicians to monitor a patient's key biometrics in real time, whether in the hospital or at a remote location, and be alerted immediately if a patient's vital signs enter a dangerous zone.

Understand the regulatory processes that affect the different types of devices and use cases. For example, a particular use case may be non-regulated while another is regulated as a Class II medical device accessory.

Build safe and secure communication channels for IoMT and clinical care applications and continually grow and improve communication capabilities.



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Our Key Differentiators

We excel at helping healthcare organizations create world-class digital customer experiences and transform their business operations.

Deep Medical Expertise



- 20+ years of experience developing regulated FDA (I, II & III products) with FDA clearance and CE mark
- 2300+ engineers dedicated to healthcare and life sciences
- 300+ new products
- ISO 13485 certified QMS, IEC 62304 compliant SDLC

Processes for Healthcare



- Delivery processes tailored to healthcare domain
- Working within our client's QMS or using GlobalLogic's 13485 compliance QMS
- Setting up internal and external audit processes
- Building policies on security and data privacy
- Establishing healthcare and ISO/IEC standards training programs for staff assigned to these projects

Innovative Technologies



- Infrastructure-, platform-, or software-as-a-service (IaaS, PaaS, SaaS) implementations using public, private, and hybrid deployment models
- Cross-platform development
- AI/ML, big data
- Microservices architecture, DevOps, cloud operations, and management tools
- Embedded systems, Bluetooth Low Energy (BLE), Wi-Fi, near-field communication (NFC) integration

Conclusion



With 20+ years of experience in regulated software product development and engineering services, GlobalLogic has become a trusted partner in the fields of medical devices, medical technology, clinical research, and diagnostics.

We develop Class I, II, and III products in accordance with ISO 13485 certified QMS and IEC 62304 compliant SDLC.

Why choose GlobalLogic as your software engineering partner?

- Our deep working knowledge of ISO governing standards enables us to work with many different companies' QMS and SDLC.
- Our experience in using a variety of tools, software languages, cloud environments, and infrastructure to seamlessly integrate and collaborate with your in-house engineering team.
- Our experience in the build, design, implementation, and testing of systems per agreed-upon product definitions and specifications.



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About GlobalLogic

With more than 20 years of experience in regulated software product development and engineering services, GlobalLogic helps some of the world's leading Medical Technology, Medical Devices, Pharma, and Life Sciences organizations create world-class digital patient experiences, accelerate new product development, and capture new revenue streams.

GlobalLogic[®]
A Hitachi Group Company

20+ years industry experience

2300+ industry-dedicated engineers

300+ new products

90+ clients

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To learn more, or to speak with one of our experts, please reach out to info@globallogic.com.



We are on a two-decade-young journey and we're proud of our growth and the milestones we have achieved. A startup to a Hitachi group company, our product engineering story is unique. Thanks to our people who have been our companions and growth drivers in this amazing journey.

'We are GlobalLogic' is a spectacular showcase of what we do, what we represent, and our capabilities as a global leader in product engineering services.

[Learn More: Visit Our Website](#)