Solutions for
Medical Devices
CONNECTED CARE

Companies are building connected devices with integrated data intelligence to offer holistic disease management solutions and transformation across the value chain. Medical device manufacturers are taking a close look at their existing organizations and reinventing their traditional business and operating models to adapt to the future, by integrating intelligence into their portfolios and offerings.

Capgemini positively influences the care journey with a connected care ecosystem of care providers, patients, and data sets to provide an integrated view – delivering services beyond the device, and intelligence beyond services. A true shift from cost to value-based healthcare at optimized cost facilitated via emerging technologies such as the cloud, big data, IoT, AI, and mobility.

WHAT WE OFFER

Our integrated offering for Connected Healthcare Ecosystem

Product and system design, engineering and testing: End-to-end product engineering capabilities to help clients with improved product quality, performance, reliability, lifecycle, BOM cost savings, and localization needs, through our proven Value Engineering methodology

Connectivity and platform solutions: End-to-end IoT enablement services – from tech assessment to IoT deployment, integration of platforms and medical devices, IoT security services

Software as a Medical Device (SaMD) including mobile applications, web applications, computer aided detection (CAD) software

Smart support services: Support services for field service digitization, remote support, and sustaining of in-market products

OUR EXPERTISE

- **PLATFORM/FRAMEWORKS**
  - HL7 framework
  - AI framework
  - Device farm for mobility testing
  - Cloud and digital accelerators
  - Hybrid Test Automation Platform (HTAP)

- **IP ASSETS**
  - iDiagnose
  - Andy3D
  - iHeal
  - Autopulse
  - IPS3

- **TECHNICAL EXPERTISE**
  - Mobile & usability engineering CoE
  - Alliance partnerships with AWS, Microsoft, Google, IBM, PTC
  - Robust system integration capabilities
  - Expertise across the product lifecycle – product engineering to platform development and deployment

- **DEEP DOMAIN EXPERTISE**
  - Expertise across medical domains (Imaging, cardiovascular, IVD, patient monitoring, surgical neuromodulation) with in-depth understanding of clinical workflow of products and their associated ecosystem

OUR DIGITAL ENABLERS
to drive Digital Transformation

- **Model-Based Systems Engineering** (MBSE) applicable through full V-cycle

- **Augmented reality** using Hololens or tablet from SAO for embedded platform integration check

- **Artificial intelligence and analytics** for enablement of targeted personalized therapies built through intelligent systems

SUCCESS STORY

Developed connected operating room solution leveraging digital technologies to enable optimization in clinical workflow and enhanced patient management.

OUR ADDED VALUE

18+ years of rich experience in engineering services for the healthcare industry, engaging with 12 of the **top 25 medical device companies**

Advanced expertise with dedicated strong team and **250+ regulatory submissions**

Vast experience in 35+ clinical categories

Healthcare ecosystem partnerships with hospitals, doctors/clinicians, prototype manufacturers, test labs, external consultants

In-depth understanding of regulatory rigor in management of safety, performance, and security throughout the lifecycle of the product

For more information, contact:
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