In today’s healthcare world where everything is connected, enterprise data assets and systems need protection from things installed in the network and walking in the door with patients. CGI experts are ready to assist healthcare enterprises in achieving situational awareness and intelligence with our IoT framework, solution and capabilities, powered by ThoughtWire.

- Let’s take the data and make it actionable.
- Let’s use the data to anticipate adverse events before they occur.
- Let’s empower clinicians, caregivers and patients with tools to better interpret critical data, enhance patient outcomes and lower costs.

CGI’s Internet of Things (IoT) Framework for Health helps healthcare providers create value by structuring data collected through “health things”—e.g., devices, sensors, applications—and make it meaningful and actionable in order to achieve targeted outcomes.

It includes a catalog of workflows, IoT applications and decision support solutions, designed specifically to assist health enterprises in achieving situational awareness—knowing the location and the status of people (staff, patients, etc.) and resources (medical equipment, devices, supplies, etc.)—and connect to other applications to enhance situational intelligence to take action on that awareness to improve the delivery of care or operations that support care.

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CGI’s IoT framework helps healthcare providers jumpstart their journey to digital transformation of healthcare delivery and achieve targeted outcomes leveraging IoT solutions.
A wide range of IoT data sources are connected to the ThoughtWire Ambiant platform, including: medical equipment, sensors, building systems (such as elevators and security cameras), clinical and administrative applications. In addition, patients with smartphones, remote devices and increasingly with embedded devices can now be connected to the Ambiant platform. Workflows developed in the Ambiant solution will act upon this wide variety of data sources.

CGI’s framework pulls together vital data sets from various devices and systems throughout the health enterprise (EHR information, nurse call systems, RTLS systems, medical devices, building automation systems and more) along with patient input using the ThoughtWire Ambiant platform for intelligent and actionable processing. ThoughtWire’s Ambiant platform represents the state-of-the-art in enterprise and cloud solution delivery featuring:

- **Unified experience technology** that works on any web or mobile device to deliver simple and intuitive apps that are custom fit to your needs
- **Smart Personal Agent** technology that works on behalf of its human counterpart to provide automated workflows, context management and complex information/rule-based processing
- **Smart Connector** technology that simplifies bidirectional integration with your existing systems and data

CGI wraps the Ambiant platform with a framework that includes project management, consulting, systems integration and overall methodology to deliver end to end digital solutions with real results.

- **Digital roadmap** – Working closely with our clients, CGI develops both the business and technical roadmaps to meet key client outcomes. The roadmap conveys a thorough understanding of the business requirements and expected outcomes along with the technical components to get there - specifically, identification of the network, hardware, software, sensors, devices and security. A thoughtful security plan is critical to protect every device on the network, because the weakest device point needs to be secured to prevent a breach.
- **Rapid, iterative deployment** – CGI and ThoughtWire use an agile development approach to guide client stakeholders and end users through a series of focused discovery and design workshops and a series of short, iterative deployment cycles (sprints) to show continuous evolution and to get feedback early and often.
- **Testing/Quality Assurance** – CGI understands complex integration projects. Our rigorous testing/QA methodology confirms components are configured and integrated successfully together as desired to meet intended outcomes.
- **Ongoing support and management** – CGI is always there. We offer on-site and remote support to allow cost-effective enterprise-wide management of the devices and mobile applications interacting with the platform and configured workflows. Support includes training, troubleshooting, and optimization to keep components running smoothly.