

Business Transformation – Delivered by the Internet of Things



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There is an explosion of connectivity occurring, with many everyday consumer goods, smart devices and business assets becoming capable of communicating. This is creating demand to harvest the data and enable it to be used by not just businesses but also for innovative consumer services. CGI has partnered with Microsoft to bring their Azure-based IoT platform to market.

For many organisations with legacy Machine to Machine (M2M) and SCADA solutions the focus until now has been simply to gather data for a specific purpose. The Internet of Things provides the opportunity to make that data available across the business and unlock the potential for new engagements with consumers. The pilot CGI has developed with ThyssenKrupp illustrates this well. It was focused on how the technology can enable preventative maintenance leading to business transformation. There are a range of other operational enhancements that are made possible by the technology, for example in monitoring, control and management of fixed and mobile assets, new operational insights and data driven business models.

We have embraced a cloud first strategy for our clients for IoT as the scalability, technical flexibility combined with a consumption based commercial structure lends itself to the needs of business led IoT services.

CGI has been involved with M2M over many years, and have been actively engaged in the emerging technologies around the Internet of Things. As a global strategic partner we were delighted to be part of Microsoft's developments in this area and, together with their teams, bring the strengths we have in both Telco and IT to deliver these solutions. Microsoft's investment in IoT on Azure, combined with CGI's familiarity with the challenges that enterprises face and our experience in software integration and cloud deployments enables us to offer our clients a scalable, robust and flexible approach.

Our clients seek innovation to improve operational efficiency and enhance customer experience. We believe that the technology emerging around the Internet of Things can be such an enabler.

WHY AZURE IOT SERVICES

CGI and Microsoft recognise that enterprise clients are looking for easy to use solutions from IoT technologies. As a systems integrator, our focus is on the areas where we bring most value - in application development, management and integration. The Azure IoT platform as a service (PaaS) model facilitates the core data processing and warehousing functions common to applications across all sectors. The PaaS model is attractive



CONNECTED ASSETS

INTERNET OF THINGS

We are the first systems integrator in the world to have implemented a live client solution using the Microsoft Azure Cloud Services platform. We worked with ThyssenKrupp Elevator to do this. We are now exploring further opportunities in Transport, Future Cities and Smart Building projects.

BENEFITS

- Scalable solution with the capability to port legacy applications or re-platform using common functions
- Improved service quality and speed to market
- Capability to enhance existing applications with significantly reduced investment
- Capability to pilot innovative services
- Strategic and market leading position with Microsoft team
- In-depth IT and Telco skills to both design and build services on the platform
- Managed service model with game-changing profits

because we can add additional functionality to meet the specific needs for our clients and offer distinct benefits that include:

- The scalability of the Azure platform:
 - On demand increases in capacity from an established web provider with enterprise level support is a major change from current in-house hosted environments and industry legacy solutions.
- Connectivity to a variety of Windows and non-Windows devices via the platform
 - Current devices run on embedded Windows, but other legacy devices are currently in the field. Having device agents for both results in simplicity and associated cost savings.
- Enabling application migration
 - The powerful opportunity to port existing applications across to the service as well as enhance and develop others in a common environment simplifies the service. This is especially true for services that are not originally built on Microsoft technology.
- Access to analytic and data visualisation capabilities for the future
 - Access to existing tools within the Azure platform will enable a transformation in breadth and range of data presentation, enabling increased efficiency.

WHY CGI AND MICROSOFT

Microsoft and CGI are strategic partners working in a number of areas such as mobility and cloud. Since the solution is built on a common cloud platform – Azure – solutions are easily integrated with other enterprise solutions and data is made available to enrich other services.

- Scale and experience to deliver managed services
 - CGI has experience of deploying secure, enterprise-grade cloud services across multiple markets.
- Experience in M2M and IoT
 - CGI has been involved in the roll out of many asset management and M2M solutions over a number of years and are actively engaged in bringing commercially viable IoT solutions to market.
- Robust application support environment
 - Where appropriate, CGI provides common functions for applications to call, thereby reducing time and cost of deployment.
- Integration of applications into the enterprise
 - As a leading systems integrator CGI offers full-fledged enterprise integration services and deep experience.

THYSSENKRUPP PILOT

- Strong predictive analytics that generate rich, valuable insight
- More proactive, predictive and preemptive maintenance
- Reduced downtime
- Improved cost forecasting, resource planning and maintenance scheduling.

ABOUT CGI

With 68,000 professionals operating in 400 offices in 40 countries, CGI fosters local accountability for client success while bringing global delivery capabilities to clients' front doors. Founded in 1976, CGI applies a disciplined delivery approach that has achieved an industry-leading track record of on-time, on-budget projects. Our high-quality business consulting, systems integration and outsourcing services help clients leverage current investments while adopting new technology and business strategies that achieve top and bottom line results. As a demonstration of our commitment, our average client satisfaction score for the past 10 years has measured consistently higher than 9 out of 10.

For more information about CGI, visit

<http://www.cgi-group.co.uk/solutions/internet-of-things>

or email us at enquiry.uk@cgi.com.

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