

GlobeRanger

Harnessing real-time data that can give you the Edge



Information the real force multiplier

As budgets shrink and inventory levels are reduced, the effective management of munitions becomes ever more critical. The ability to accurately monitor and report stock levels, and evaluate an asset's condition is essential. Real-time information capture and analysis can radically increase the effectiveness of munitions management. Providing such information can enable trusted operational and maintenance decisions to be made quickly. The result is the delivery of a real Force Multiplier effect that can significantly reduce the cost of ownership of these high-value assets.

Harnessing data in to real-time business intelligence

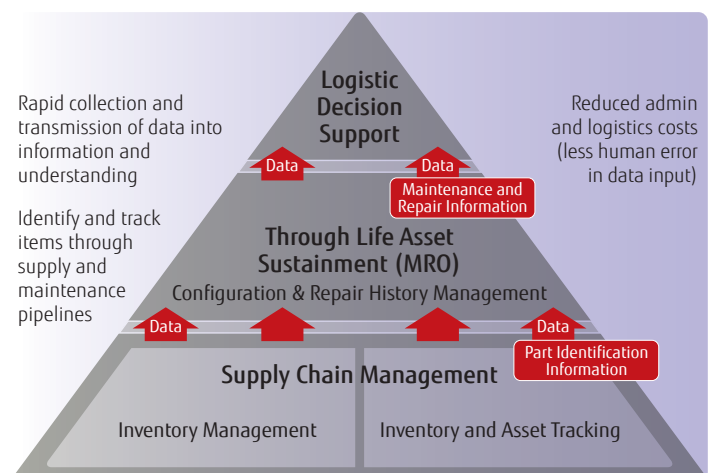
GlobeRanger solutions have been designed to truly enable an organisation's business processes and decision-making. By integrating data from machine-to-machine, human-to-machine, RFID and other sensor technologies GlobeRanger solutions enable large organisations to harness data in real-time, from a wide variety of sources such as:

- Edge devices throughout the network
- RFID readers and physical object scanners
- Various sensors deployed throughout the enterprise

With GlobeRanger's advanced suite of tools all of your devices, objects and data can work in unison and be integrated into existing software systems, enabling the Internet-of-Things (IoT) in live business environments. GlobeRanger helps your business turn your unprocessed data into valuable business intelligence in real time. And without need for radical and expensive changes to your current IT systems.

"This acquisition is a key part of Fujitsu's Global Defence Initiative which aims to harness the capabilities, technologies and products from across Fujitsu's global ICT business. It will ensure our customers can be confident of best of breed, proven, and cost effective solutions for Defence and Defence-related industries."

- Duncan Tait, Head of EMEA, Corporate Senior Vice President, Fujitsu Limited



GlobeRanger, a Fujitsu Company:

- GlobeRanger is an RFID, mobility and sensor-based edge software solutions organisation founded in Texas in 1999.
- Our mission is to provide the most reliable, scalable, and flexible enterprise edge software infrastructure and solutions at the lowest total cost of ownership.
- GlobeRanger powers some of the largest RFID production deployments in the world, including the US Defence Logistics Agency and Flora Holland.
- In May 2014 GlobeRanger was acquired by Fujitsu as part of its Global Defence Initiative.
- This acquisition enabled GlobeRanger to combine its own class-leading solutions with Fujitsu's industry expertise and experience.

shaping tomorrow with you

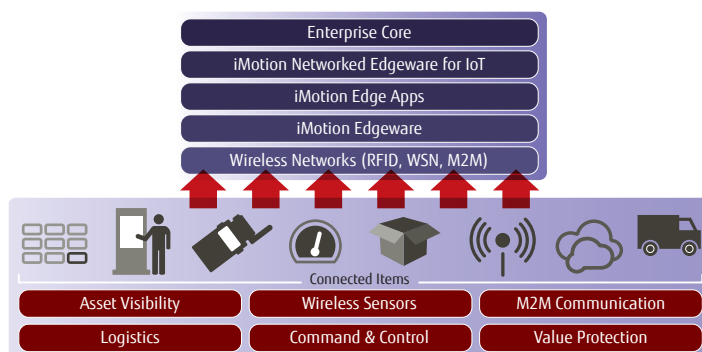
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Seamless integration with existing and new technology

The advent of low-cost RFID tags and reader technology has created a tidal wave of real-time, item level and sensor information across many sectors. In order to harness the value of this exponentially growing edge data, companies must have the ability to collect information from a variety of devices, apply business context to generate meaningful information and integrate with existing systems to determine appropriate action.

GlobeRanger's innovative Edgware™ platform, iMotion™, provides the critical infrastructure layer for managing devices, networks, data and processes at the edge of the enterprise. This edge software platform seamlessly integrates existing and new technologies such as bar code, RFID, wireless and sensor-based systems preserving past investments while enabling new edge applications. iMotion serves as the foundation for GlobeRanger to rapidly develop, deploy and manage edge solutions across industry verticals. This capability utilises industry leading Systems Integrators (SI), Independent Software Vendors (ISV) and device hardware vendors.

This ensures broad and expanding market coverage through an indirect global distribution model that has the power to enable the Internet of Things (IoT).



GlobeRanger Suite of Tools

Data that was once hard to access and integrate outside of a traditional ICT infrastructure is now instantly available and usable via GlobeRanger's suite of tools that includes:

■ iMotion - making sense of the Internet-of-Things for the enterprise

iMotion gathers and processes data from devices throughout the enterprise and incorporates this data in to existing management systems. The iMotion platform provides the crucial interface between your organisation's objects and devices, and your day-to-day business applications. It enables a real-time, holistic view of your business without the problems of a slow and complex integration. Whatever the complexity or scale of your requirements iMotion allows you to rapidly develop, configure and deploy a solution. Whether you require a small scale pilot or a globally deployed solution iMotion can be implemented, quickly and efficiently.

■ GR-LIVE – end-to-end logistics management

GR-LIVE (logistics inventory visibility engine) is an RFID-based logistics supply chain application suite that delivers the capability to provide accountability and end-to-end visibility, giving your

logistics operations the "V3" advantage – velocity, visibility and value. It is capable of providing an end-to-end view of both inbound and outbound transactions within your supply chain. The real advantage though is that it can easily integrate this information into your existing legacy systems and business operations providing actionable visibility.

GR-LIVE can support both stationary and mobile RFID infrastructure as well as a wide range of other sensor technologies. It automates your asset management and inventory needs, and specifically includes RFID-enabled applications for:

- Shipping
- Receiving
- Tracking assets
- Inventory counts
- **GR-MAKE – enabling Lean manufacturing**

GR-MAKE gives businesses the tools to track, manage and improve their manufacturing processes, enabling lean manufacturing through more effective management of your organisation's inventory. GR-MAKE can help you effectively manage and improve even within the most complex manufacturing environments and their associated supply chains. Our solutions give you the flexibility and adaptability you need whilst still enabling cost reduction. GR-MAKE helps you manage the flow of supplies to the manufacturing floor. It can also help you track and manage your manufacturing tools and equipment, aiding effective inventory management and cash flow.

GR-MAKE has a rules engine which is highly flexible providing you with key alerts, triggers and other management information. More advanced and timely information helps you to keep your finger on the pulse of the entire manufacturing process. From inventory management to asset movement - we put you in control.

From the automotive industry to food production, we have the tools and experience to help you streamline your manufacturing processes. By implementing GR-MAKE your organisation can benefit in many ways like:

- Enabling the visibility of the entire manufacturing process – in real time
- Helping maintain the timely flow of materials no matter how big your organisation
- Global tracking and management of inventory levels to prevent inefficient over-stocking and disruptions to the manufacturing shop floor
- Automates numerous manufacturing functions that used to be manual processes, making management information more accurate and up-to-date

Both GlobeRanger and Fujitsu have a long history of helping many of the world's leading manufacturing organisations. Adding GlobeRanger's suite of tools to Fujitsu's manufacturing solutions portfolio enables us to help your business become leaner, more adaptable and more productive.

■ GR-AWARE™ - intelligent asset management

GR-AWARE (asset watching and reporting) provides a single, scalable

platform to enable you to easily track and manage your business assets. These assets may include employees, IT equipment, furniture or other items that have been RFID-tagged. GR-AWARE can easily incorporate asset management information into your existing legacy systems and business operations. It allows you to easily create business processing rules, trigger notifications and alerts, manage exceptions and generate a wide range of real-time reports.

Solutions for a wide range of industries

The flexibility of the GlobeRanger suite of technologies makes them applicable to a wide variety of industry sectors, including:

Defence & National Security

GlobeRanger's RFID, mobility and sensor-enabled solutions are powering and automating the business processes of Defence and National Security institutions around the world, including:

- Logistics and asset tracking
- Personnel tracking
- Inventory management processes
- Shipping and receiving processes
- Hazardous waste management
- Manufacturing, assembly and work in process

Capturing and sharing error-free data and translating it in to insightful information with military context delivers real-time intelligence that enables highly informed decision-making. This form of dynamic asset management is a key component in providing the end-to-end view of the military support chain, from the factory to the battlespace. The result is improved efficiency in supply chain management, reduced costs and the delivery of a real Force Multiplier effect as resources can be deployed faster, and more effectively. GlobeRanger's iMotion Edgware platform has over 100 successful implementations within the Defence and National Security sector. Clients include the U.S. Department of Defense, DoE, Homeland Security, DLA and all branches of the U.S. Military.

Transport

Transportation companies can manage an increasing inventory of spares, expendables, and consumables with GR-AWARE. They can also address what has previously been a general lack of visibility throughout the value stream, tracking the history of everything through time. GlobeRanger's industry leading Automatic Identification Technologies solutions support all aspects of the aerospace industry, including:

- Maintenance, repair and overhaul
- Manufacturing work in process
- Warehouse management
- Supply chain integration

Manufacturing

GlobeRanger offers manufacturers an accessible method of improving their manufacturing processes making the supply chain much more visible, leading to increased productivity. Data is available to help manage the supply chain effectively, including:

- The ordering of parts and inventory
- Pick, pull and kit processes of work in process
- Final assembly
- Packaging and distribution

Retail and Hospitality

GlobeRanger's iMotion Edgware platform and asset tracking solutions gives the retail and hospitality sector the ability to see deeper into their processes and supply chains. In doing so, it provides the timely information required to ensure products are fresh, safe and available to customers. GlobeRanger solutions allow you to:

- Track raw materials and finished products by lot, batch, order, location, shipment, pallet, case, or even at the individual item level - from production to point-of-sale, and all stages in between
- Set key data elements and critical tracking events
- Receive alerts when storage conditions such as temperature and humidity, or dwell times are approaching unacceptable levels
- Ensure adherence to FIFO inventory management
- Track products and shipments by "sell by" date, customer, location or other user-defined criteria

Government

GR-AWARE provides an immediate and historical view of a government department's assets by assigned person, location and other attributes. It ties into existing systems such as HR or finance to enable a fully integrated department that has full visibility, delivering the following benefits:

- Track items by assigned officer, location or other attribute
- Role-driven quartermaster station for fast check-in/checkout of equipment
- Integrated, total asset management
- Alerts and notifications
- Customisable reports
- Web-enabled
- Hosting or on-premises
- Scalable

Energy & Utilities

Our highly configurable iMotion Edgware platform lets you choose what actionable data will be acted upon and then communicated back to host systems for analysis and archiving. Real-time input from sensors, industrial controls, smart meters, tools, equipment and fixed assets can be brought together to automate management, allowing you to set:

- What you want to monitor
- What data you want to receive
- When it should be reported
- What automated response is required
- What alerts the system needs to make

Fujitsu's Global Defence Initiative

GlobeRanger is part of Fujitsu's Global Defence Initiative (GDI). Working with Fujitsu UK & Ireland, Fujitsu Japan, and Fujitsu Australia GlobeRanger continues to develop and deploy innovative, cutting edge solutions to support a variety of industry verticals and their information needs.

Fujitsu's Global Defence Initiative enables us to harness our global information communication and technology (ICT) capabilities and defence experience to meet the specific needs of the Defence and National Security sector around the world. The result is a comprehensive suite of solutions specifically designed to meet the requirements of today's global battlespace.

Working in close partnership with defence departments across Europe, the Middle East, India, Asia Pacific, Canada and the USA, we demonstrate a portfolio of products and services extending from defence information infrastructure, through hosting and network services to Automated Identification Technology (AIT) and sensors. Moreover, our commitment to military deployed infrastructure is unrivalled among ICT companies. Fujitsu provides the same high level of support to Defence and National Security customers wherever they are, be that in the office, at headquarters, on the road, on foot, at sea, in the air or in combat.

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