

GlobeRanger

Achieving Optimum Efficiency through Advanced Solutions for the Aerospace Industry

Leveraging RFID and M2M-enabled business solutions for airlines, MROs and OEMs

Fast, accurate and reliable information coupled with real-time visibility drive efficiency and informed decision making. In an industry that depends on timely data and decision making to keep the fleet aloft, antiquated and unreliable information systems can leave the fleet in a holding pattern. GlobeRanger helps aerospace and aviation companies reach unprecedented levels of efficiency and safety by providing data and visibility from new sources.

GlobeRanger's industry leading AIT (Automatic Identification Technologies) solutions support all aspects of the aerospace industry including MRO, Manufacturing WIP, Warehouse Management and supply chain integration. Here is how GlobeRanger is helping solve some of the most persistent and pressing problems in the aerospace and aviation industry.

The Enabled Enterprise

Aerospace and aviation entities are dealing with growing amounts of inventory of rotatable spares, expendables, consumables, and a general lack of visibility throughout the value stream. GR-AWARE (GlobeRanger Asset Watching and Reporting Engine) manages data from multiple sources, including RFID tags, M2M devices, IoT (Internet of Things) enabled devices, ERP and

other enterprise applications. GR-AWARE helps optimise processes and eliminate redundant tasks, which significantly reduces lead times and labour costs for maintenance, inspection, reporting, inventory management and other day-to-day activities.

GlobeRanger can help you build the foundation for improved visibility by RFID-enabling your parts, components, tools, equipment and other assets. We have a complete range of RFID tags, readers and supporting software that were engineered for aerospace industry requirements, including high-memory tags that support Spec

- Enable Better Logistic Decision Support
- Improve Maintenance Efficiency
- Optimise Asset and Material Inventories
- Maximize Facility and Resource Utilisation
- Build Intelligence In, Take Cost Out



2000 data formats for parts tracking. We also offer complete tagging and consulting services, and can configure our software solutions to run independently or integrate with your host systems.

GlobeRanger's highly configurable iMotion™ Edgeware™ Platform lets you choose what data will be communicated back to host systems for analysis and archiving. Flexible data collection, and processing at the edge allows organisations to filter input so they can manage by exception and receive real-time notification when user-determined thresholds are reached. Your business rules determine what you want to monitor, what data you receive, when it should be reported and the automated responses and alerts the system should make. Having actionable information can make the difference between planned and unplanned downtime, and corresponding cost.



The Enabled Airplane

GlobeRanger's ATA Spec 2000 compliant asset tagging and management solutions enable individual or groups of aircraft components to communicate identity, location, serviceability, maintenance history and other information. As a result, elimination of wasteful maintenance processes and an increase in throughput is achieved. RFID-enabled maintenance replaces lengthy manual and visual processes to enable ICA (Instructions for Continued Airworthiness) compliance. With GlobeRanger iMotion™ Edgware™, supported applications and devices can function whether or not there is network connectivity, allowing completion of assigned tasks.

Emergency Equipment Management

GlobeRanger's solution makes inspecting emergency equipment a hands-off process. Instead of manually handling each piece of equipment, technicians can simply walk through the aircraft with a mobile RFID reader. It will automatically confirm that emergency equipment is present and serviceable, alerting if anything is missing. Our solution reduces emergency equipment management time from hours to minutes.

Rotable and Repairable Management

GlobeRanger's Rotable and Repairable Management solution enables real-time locating and chain of custody tracking of serialized rotable components and other high value aircraft parts from the removal of the component to its reinstallation on the aircraft. Every hand-off in the value stream is captured, timed and reported to give unprecedented supply chain visibility.



GlobeRanger drives maintenance process efficiency by creating a "pull" production system. When a part is removed from the aircraft, messages are sent to stakeholders alerting them of status changes as needed. This enables maximum utilisation of needed assets and the disposition of those that are not needed.

Tools and Ground Support Equipment

Safety and efficiency depend on knowing where essential assets, tools and supplies are at all times. GlobeRanger provides customers with the key components and experience needed to identify and track all types of items in a wide range of operating conditions. RFID tags can be embedded or attached to assets, tools and equipment to authorize self-service checkout and provide automated, real-time location tracking. GlobeRanger aerospace solutions can provide location and status of needed items, issue alerts, track utilisation and optimise inventory, process improvement and sustained operational efficiency.

Payloads Management

Tracking tens of thousands of passenger luggage and other aircraft payloads from the first change in custody to delivery back to the customer is accurately and effectively managed. Custom notifications can include the customer in every step of the process. On the aircraft, GlobeRanger's payloads management system can provide automated load distribution information.

Build Intelligence In, Take Cost Out

GlobeRanger is a pioneer in the development of edge technology and solutions used in the aerospace, energy, manufacturing, defence, supply chain, retail and other industries. Our real-world experience along with our highly configurable and scalable software solutions and tools – enables solutions to be created and integrated very quickly, which minimizes deployment cost. GlobeRanger's aerospace solutions are a product of 10 years of collaboration with major airlines, aircraft and component OEMs, technology standards organisations and aviation regulatory authorities.

To enable quicker deployment and time to value, GlobeRanger offers a suite of prebuilt applications and development tools. GlobeRanger's Visual Device Emulator emulates real-world behaviour of tags, readers and sensor devices providing the ability to model actual deployment scenarios prior to equipment purchase. This eliminates the dependence on physical hardware for development, testing and integration of RFID systems.



Ask yourself:

- What if you could improve your operations while at the same time saving money?
- What if you spent more time on what's value added and less time on unnecessary waste?

Talk to GlobeRanger to see how you can make it happen.

Optimise facilities with better visibility of key inventory and assets utilisation

Maintain the aircraft and its configuration more efficiently at a lower cost

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GlobeRanger provides the most reliable, scalable, and flexible enterprise edge software infrastructure and solutions at the lowest total cost of ownership, enabling companies to harness data generated outside traditional IT environments to improve business processes. Specifications are subject to change.

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