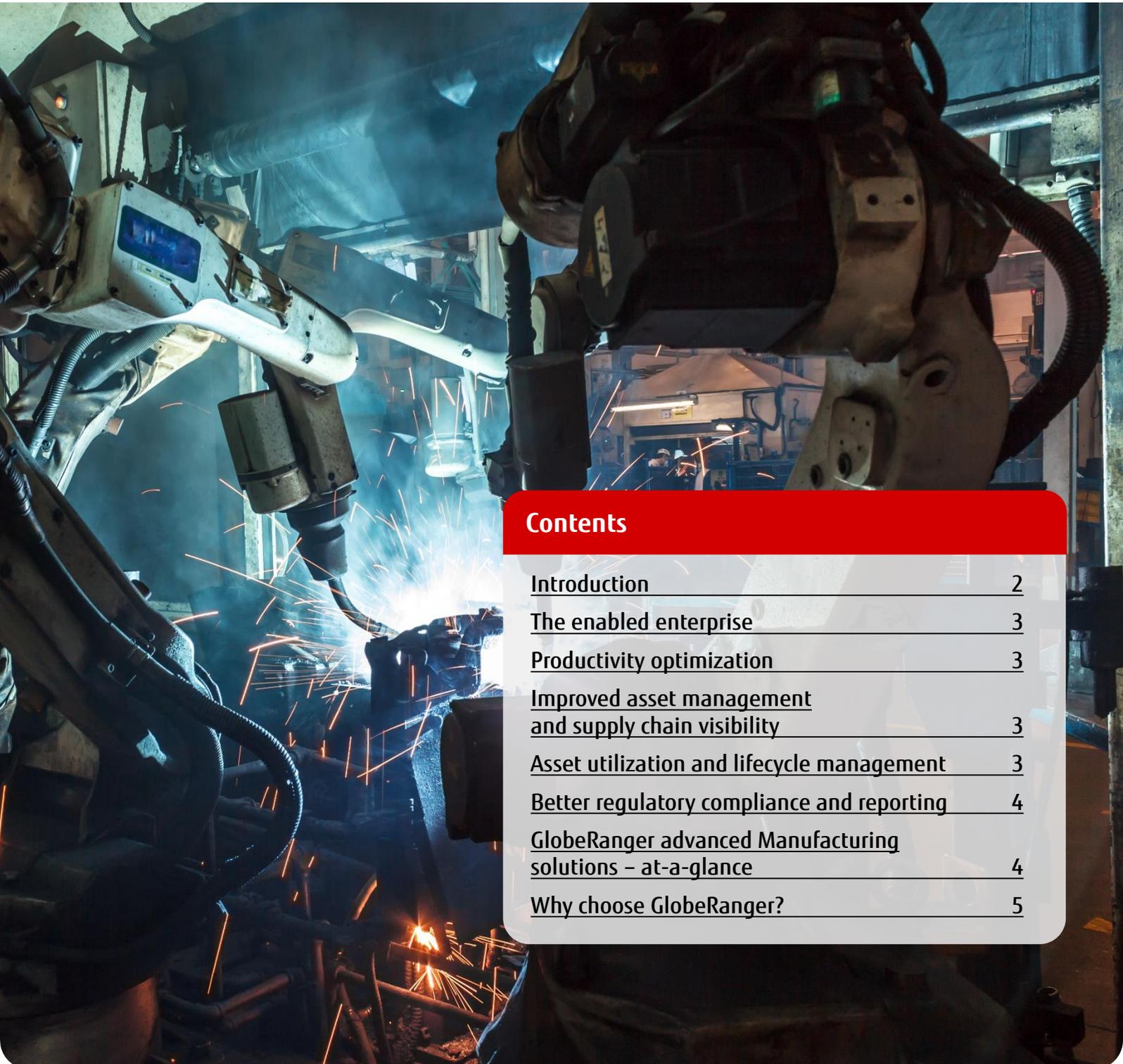


# Advanced Solutions for the Manufacturing Industry

Delivering optimum efficiency through industry-leading AI solutions



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## Leveraging the Internet of Things, RFID and M2M-enabled business solutions to deliver near real-time logistics support for both process and discrete Manufacturers.

In an industry that depends on timely data and decision making, outdated and unreliable information systems can bring production to a grinding halt. GlobeRanger IoT and Asset Tracking Solutions helps process and discrete manufacturers reach unprecedented levels of efficiency and performance by providing data and process visibility through IoT and RFID enabled solutions. Providing fast, accurate and reliable information, coupled with near real-time supply chain visibility drives this efficiency while informed decision making realizes significant cost improvements.



## The enabled enterprise

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GlobeRanger's industry-leading Internet of Things (IoT) solutions support all aspects of the manufacturing industry including materials receiving, inventory management, tool tracking, shipping and supply chain integration. GlobeRanger's iMotion™ platform helps optimize processes and eliminate redundant tasks, which can significantly reduce manual errors and labor costs, provide near real-time dashboards and alerts, and enhance visibility of asset utilization.

Our turn-key solution approach includes a complete range of RFID tags, readers and supporting software that are engineered for manufacturing industry requirements. We also offer complete tagging and consulting services and can configure our software solutions to run independently or integrate with your legacy or ERP systems.

GlobeRanger's highly configurable iMotion™ platform lets you choose what data will be communicated back to your host systems for analysis and archiving. iMotion™ gathers, filters and processes data from this sophisticated network of devices and sensors located on assets throughout your organization's value chain. Flexible data collection and processing at the edge allows organizations to filter input so they can manage by exception and receive near real-time notification when user-determined thresholds are neared or breached.

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 associated costs.

## Productivity optimization

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With GlobeRanger iMotion™, you can monitor queue times and improve visibility and productivity of manufacturing operations by gaining granular insight into the individual stages of production. With near real-time monitoring of workstations or work-in-progress, you can optimize personnel productivity and identify individual areas for improvement.

Environmental conditions such as temperature, humidity, shock and vibration can also be tracked to ensure the quality and sustainability of materials throughout the production process. Managers can even receive immediate alerts when specific activities extend outside of business rules or processing times.

## Improved asset management and supply chain visibility

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Efficiency begins by knowing where essential assets such as people, tools, parts and supplies are at all times. This level of control enables next-generation solutions such as:

- Scheduled planning via Just-in-Time (JIT) resourcing for both inventory and personnel
- Near real-time measurement and monitoring of equipment utilization
- Visibility into inventory-on-hand so you can know exactly what you have and where it is.

## Asset utilization and lifecycle management

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Process efficiency can't occur unless the risk to production equipment downtime is mitigated. GlobeRanger iMotion™ lets you support lifecycle management by tying-in to digital monitors and sensors placed on assets and equipment. By managing environmental impacts such as temperature, humidity, shock and vibration, management dashboards can provide near real-time status and alerts regarding the current condition of assets throughout the various stages of the manufacturing process.

## Better regulatory compliance and reporting

If process efficiencies can increase productivity, regulatory compliance violations can stop it dead in its tracks. Compliance to governmental, industry or environmental regulations is therefore critical to production efficiency.

GlobeRanger iMotion™ can capture production information and provide automated or just-in-time compliance reports to fulfil regulatory and compliance related reporting or audit requirements. With visibility into product and IoT control, GlobeRanger can enable historical data capture, dashboards and alerts for regulatory and compliance reporting.



### GlobeRanger advanced Manufacturing solutions – at-a-glance

GlobeRanger is helping to solve some of the most persistent and pressing problems in the manufacturing industry.

- » Improved supply chain visibility to better support just-in-time and just-in-sequence MRP processes.
- » Track & trace of raw or finished goods inventory to improve location visibility.
- » Environmental monitoring with real-time alerting to help improve Quality Assurance processes and customer satisfaction.
- » Monitor and report on asset and equipment utilization and lifecycle management.
- » Better historical data for regulatory compliance, audit tracing and reporting.
- » Improve profitability by reducing missing inventory and lowering inventory carrying costs.

## Why choose GlobeRanger?

GlobeRanger IoT and asset tracking solutions are flexible and scalable, and our end-to-end implementation service means you can start small and realize value early in the solution deployment. And being hardware independent, we match best-of-breed devices, sensors and RFID tags to your requirements.

GlobeRanger delivers rapid time-to-value. Our patented emulation technology allows us to architect, design and implement solutions in days or weeks. By focusing on our customer's specific needs and requirements we can create early wins that enable our customers to meet or exceed their business case and ROI expectations.



### GlobeRanger – improving the visibility of our customer's operations since 1999

GlobeRanger was founded in 1999 to help organizations improve the visibility of their business operations. Using a combination of our technology platform and years of specialist experience, we simplify the development, deployment, and management of IoT technology and sensor-based solutions. Today, we are widely recognized as an industry leader in IoT enablement and RFID-based asset tracking solutions. As an end-to-end solution provider, we work with our customers across a broad range of industries to deliver the most reliable, scalable, and flexible enterprise edge solutions, at the lowest cost of ownership.

Our innovative approach was strengthened further in 2014 when GlobeRanger was acquired by Fujitsu.

GlobeRanger's solid grounding in IoT enablement and asset tracking solutions now benefits from the backing of one of the world's largest technology firms. Worldwide support and access to a \$1.6 billion annual R&D budget has helped us to retain our agility to move quickly and spearhead the latest industry developments.

Leveraging Fujitsu's global footprint and financial strength, Fujitsu and GlobeRanger collaborate to bring best-in-class solutions for industrial IoT and manufacturing, distribution and logistics, aviation, defense and many other industries. The combination of Fujitsu's financial strength and industry knowledge combined with GlobeRanger's IoT and RFID expertise bring our customers the high value, low risk solutions they need to transform their organizations.

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