GLOBERANGER
a Fujitsu company

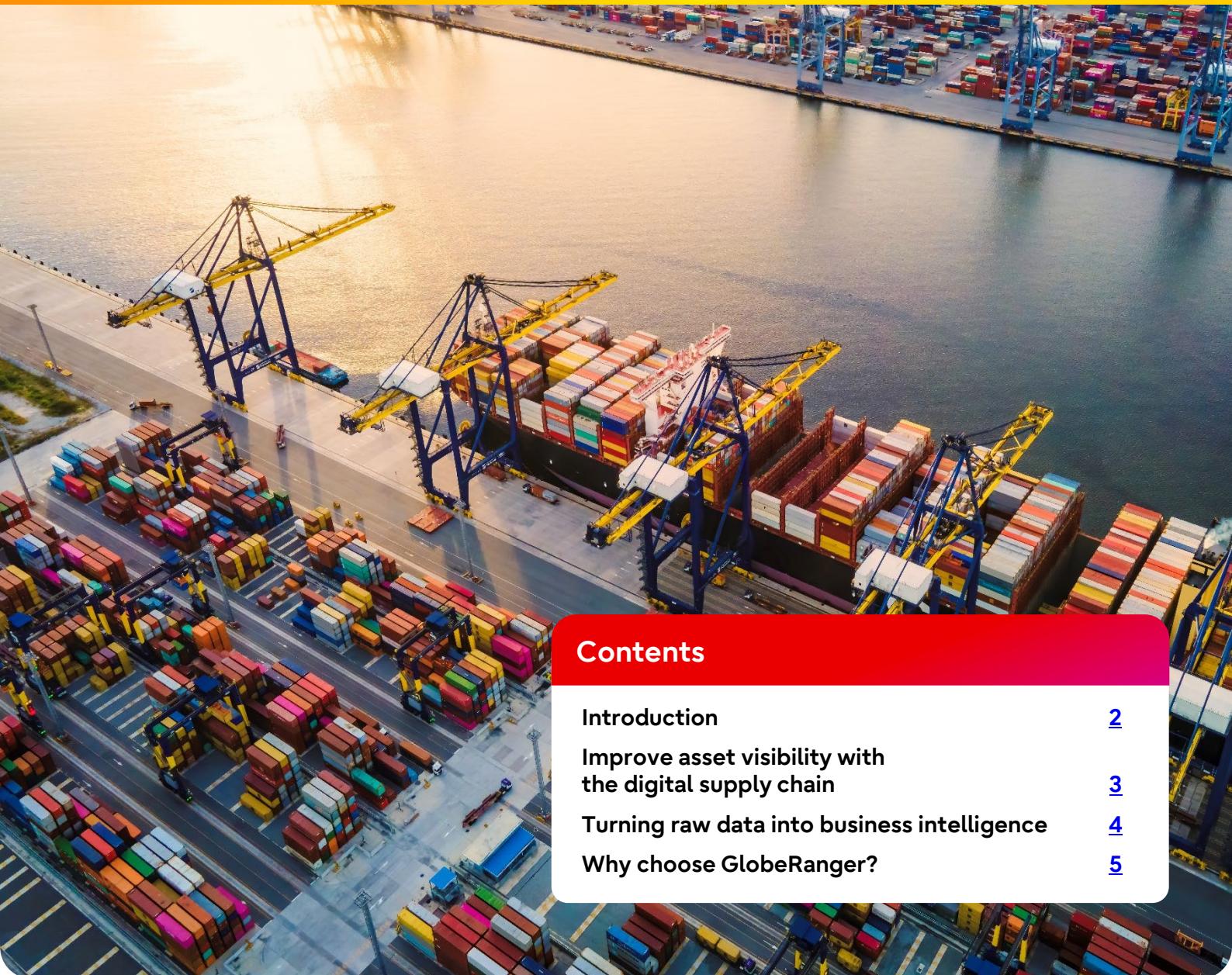# Implementing the digital supply chain for logistics operations

Delivering the 'V3' Advantage –
Velocity, Visibility and Value

Contents

How the digital supply chain makes smart manufacturing and Industry 4.0 a reality today

Implementing a smart and connected **supply chain solution** allows you to establish a 360-degree view of your entire manufacturing operation - from the supply of raw materials, through to warehousing, and onwards to the distribution of the finished product. Such end-to-end supply chain intelligence empowers you to anticipate disruptions and make immediate adjustments as conditions change. By moving away from reactive problem-solving your workers are free to concentrate on service delivery and customer-focused outcomes.

But in an increasingly volatile environment, traditional **Supply Chain Management (SCM)** methods struggle to keep up – especially in a climate of cost-cutting and reduced resources. Manufacturers also need improved asset management solutions to locate parts, reduce losses, prove authenticity and optimize processes.

Improve asset visibility with the digital supply chain

GlobeRanger's **iMotion™** IoT enablement platform can help to improve the visibility of assets throughout the supply chain by managing data from multiple sources, including RFID tags, M2M devices, IoT (Internet of Things) enabled devices, ERP and other enterprise applications. iMotion™ helps optimize processes and eliminate redundant tasks, which significantly reduces lead times and labor costs for inspection, reporting, inventory management and other day-to-day logistics activities.

GlobeRanger offers a suite of **Automated Identification Technology (AIT)** solutions that manage and connect readers and sensors to enterprise applications, turning raw data into business intelligence automatically without the need for changes to your current SCM system. GlobeRanger's digital supply chain solutions are capable of providing you with an end-to-end view of both inbound and outbound transactions throughout your supply chain, delivering a multitude of benefits including:

> Reduced supply chain complexity

> Improved efficiency

> Detection of wastage, leading to cost savings

> Identification and alerting of faults for swift reaction and response

> Actionable insight into customer behavior and preferences

> Smarter decision making

> Event-driven maintenance for better performance and cost efficiencies

> Improved deployment of employees and other resources

Powered by GlobeRanger's iMotion™ technology platform, GlobeRanger's Distribution-Logistics solutions can deliver near real-time insights into supply chains and product distribution across many industries including manufacturing, aviation, construction, healthcare and defense. With the ability to automatically identify and track items through manufacturing processes, supply chains and maintenance pipelines, organizations can reduce errors that lead to increased costs.

Turning raw data into business intelligence

AIT readers and sensors capture high volumes of raw data that is only useful when correctly interpreted and translated into appropriate business intelligence. GlobeRanger solutions enable this by:

> Managing AIT readers, sensors and other IoT devices, and monitoring them to ensure they are operational and functioning properly.

> Capturing, aggregating and filtering the data passed on to the back-end systems so that the data becomes coherent and useful information to operational systems and analytics.

> Assessing the raw observations captured by readers and sensors and alerting when the data exceeds business rules or established thresholds enabling rapid operational response and appropriate actions.

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.

GlobeRanger delivers unprecedented levels of supply chain visibility. Waste can be reduced, or even eliminated, and bottlenecks easily identified. Potential applications for logistics and distribution operations include:

> Asset and personnel tracking

> Inventory receiving and put-away

> Product shipping and distribution management

> Environmental monitoring (temperature, humidity, shock, vibration, etc.)

> Provenance and counterfeit protection

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. GlobeRanger is 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 benefit 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 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 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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