



Zebra MotionWorks Enterprise™

Today, innovation is exploding on the edge of the enterprise—where businesses, their people, and their products meet the customers they serve. Digital transformation is redefining how the world interacts and connects, and how individuals experience products, services, and businesses. Businesses are faced with the challenge of accelerating their operations—maximizing business productivity and moving towards automation—to deliver products and experiences more quickly and effectively than ever before.

This new breed of innovation is creating a massive proliferation of edge data—data that creates incredible opportunities for businesses to optimize in-motion operations and transform their business—but many find it challenging to translate this edge data abundance into actionable intelligence.

That's where Zebra MotionWorks Enterprise can help. MotionWorks Enterprise is an innovative platform that allows transportation and logistics providers, manufacturing companies and healthcare organizations to turn enterprise asset locations into actionable

business insights. By leveraging real-time location technology and automated intelligence, the platform collects, manages and analyzes sense and state data from numerous enterprise resources like, people, equipment, and supplies and feeds into a single integrated management console for enhanced visibility of the location and state of every resource.

As a solution enablement software, MotionWorks Enterprise provides the complete base platform functionality for resource tracking solutions with enterprise scalability for maps, reports, alerting, event detection, rules engine and other configurable flexible platform features to manage complex, multi-technology sense solutions.

RFID systems can be easily implemented through data-driven configuration to significantly reduce the time to solution. Other technologies, including Bluetooth® Low Energy and Ultra-Wideband, are also supported on this platform. With built-in backend integration capability, feeding location and motion events to existing or third-party application is easy. Organizations can reduce costs by utilizing an enterprise-grade platform that is suitable for global enterprises and cost-effective for off-site and regional operations.

Zebra MotionWorks Enterprise empowers organizations with the industry's broadest, field-proven RFID portfolio for unmatched accuracy and consistent interoperability through an enterprise platform that anticipates real-world challenges and elevates the performance of every system, device, tag and worker.

MotionWorks Enterprise—at the Core of Zebra MotionWorks Location Solutions

Zebra MotionWorks™ location solutions give businesses the ability to use automated data collection to attain actionable insights and vital solutions from the location, state and sense data of tagged enterprise resources. By using hardware to capture data (including Zebra's many sensing, tagging and mobility technologies), MotionWorks deploys some of the world's largest and most successful automated resource tracking and management solutions—across industries, and for some the world's largest companies.

The MotionWorks Enterprise platform is an integrated software package for on-premise deployment, featuring a console with reports, maps, alerts, and dashboards at the enterprise resource level. Using proven algorithms and rules engines it derives actionable information and business context from the location data being gathered, and provides a common set of outputs to share with applications that need this data. And the application layer then integrates and/or interfaces with multiple customer, third-party or enterprise applications through open standard protocols and APIs.

Actionable Intelligence at Your Fingertips

The MotionWorks Enterprise platform provides all the tools required to design, configure, operate, provision, and troubleshoot an automated location sensing system with central administration and control for your entire enterprise. It delivers a common, unified set of outputs that can be used to feed applications that need the location, path, interactions, dwell time, telemetry, and other sensed data from an organization's "resources." Those resources can vary from workers, to customers, and from assets, to work in process material to supplies. These outputs often correlate with business workflows and give you the data needed to improve those workflows. That information can be stored and persisted, can be forwarded to other systems and

subscribers, and can be saved locally for later lookup or access of "last-known" or historic data. Having real-time location system (RTLS) data enables much of the functionality needed for a full asset management application.

The MotionWorks Enterprise platform's ability to incorporate business-specific rules about how to best process the location and motion data to provide actionable intelligence information enables the rest.

Track and Manage Your Entire Enterprise

MotionWorks Enterprise is a server-side application for tracking and managing resources across an entire enterprise, from a single location to sites across the globe. The system can run on multiple virtual or physical machines to optimize data collection bandwidth and central administration and reporting.

The internal database and some other services can be split onto other servers if needed for even higher performance. Location processing, and device health and status monitoring run on one or more dedicated Zebra Locate Appliances (ZLAs) that are managed by the server software as part of the overall solution. In some cases, the solution designer may choose to install the MotionWorks Enterprise platform's core servers in a central data center and the ZLA on site at the operating facility (factory, warehouse, office, etc.). The ZLA also provides filtering, smoothing, buffering of the collected data, health and status detection, logging, and reliability protocols. The core server software provides management of the data collection system, reporting and administration of the tracked resources, such as people, assets, material, as well as administration of the tags and labels used to track those resources.

MotionWorks Enterprise provides the tools required to control and monitor the location sensing technologies, including configuration, diagnostics, system alerts, health monitors, and installation tools. The alert system allows users to define their own alerts and configure email and other notifications.

For integration into existing systems, a REST API is available, as well as an event publisher that allows subscribers to transform outputs from each of the available streams and formats and send them into hundreds of possible backend and third-party applications.

Some of the technologies that can be centrally routed and reported on through the MotionWorks Enterprise platform include:

- Zebra Bluetooth Low Energy beacons and IoT bridges
- Zebra Ultra Wideband RTLS
- Zebra WhereNet Real-Time Locating System (RTLS)
- Zebra WhereNet Push-Button messaging
- Zebra EPC Gen2 compliant passive RFID
- Zebra ISO 24730 Magnetic beacons
- GPS devices using the MotionWorks SDK or REST API
- Aruba Bluetooth Low Energy sense data

Benefits:

- Consolidate multiple Auto ID technologies through one middleware stack
- Single consolidated view for multiple technologies
- Automate entry/exit points
- Reduce search time
- Enable wireless messaging
- Provide time, dwell, and location data for your assets
- Provide alerts for exceptions to business rules
- Integrate with Execution Management other customer, partner or third-party applications

For more information, visit www.zebra.com/locationtechnologies



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