



# QUWB-GPS DockSAFE- Case Study

Fortune 500 Packaging Company Prevents Dock Drive Offs & Protects Employee Careers

## The Challenge:

A prominent Fortune 500 packaging firm, renowned for its unwavering commitment to safety, faced substantial challenges due to its zero-tolerance forklift safety policy. This strict approach required the immediate dismissal of any operator whose forklift entered a trailer not securely locked to the dock. Over the course of just one year, three operators were terminated under this policy, including one veteran employee with over 20 years of dedicated service. The repercussions were significant, leading to dramatically increased recruitment costs, operational slowdowns due to training gaps, and a discernible decline in team morale. The company urgently needed a mechanism to enforce its safety standards without sacrificing its skilled and experienced workforce.

## The Solution:

In response to these critical challenges, the company implemented Quarion's QUWB-GPS platform and Quarion's DocSafe App. This cutting-edge solution stands out for its ability to precisely geofence dock danger zones and monitor forklift positions in real-time and stop forklifts entering danger zones, offering a unique and technological approach to safety enforcement that distinguishes itself from conventional methods.

## How It Works:

1. **\*\*Caution Zone Entry\*\*:** Upon entering a geofenced caution zone, operators are immediately alerted through visual and audio signals, warning them of potential danger and ensuring heightened awareness.
2. **\*\*Real-Time Tracking\*\*:** The system continuously monitors the forklift's trajectory and movement, maintaining operator situational awareness at all times.
3. **\*\*Initial Safety Response\*\*:** If potential danger is detected, the forklift automatically pauses, providing the operator with an opportunity to evaluate the situation and determine the appropriate next steps.
4. **\*\*Safe Exit\*\*:** Operators can resume safe movement in any direction away from the danger zone, provided there is no immediate threat, thus ensuring a secure operational environment.
5. **\*\*Critical Zone Breach\*\*:** Should a forklift approach an unsecured dock, the system takes immediate action by locking the vehicle to prevent any further movement, safeguarding both personnel and property.
6. **\*\*Supervisor Alert\*\*:** In such events, a real-time text alert is dispatched to a supervisor, who retains the authority to manually unlock the forklift, ensuring swift and controlled responses.

## QUARION'S PLATFORMS



**Zone Based Speed Control**



**AI-Vision Based Collision Avoidance**



**Indoor GPS Precision Control Data Collection**

## PLATFORM POSITIONING

- Safety Optimization
- Operational Optimization
- Fleet Optimization
- H/R & Risk Optimization

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## Results:

Seven years after the implementation of this innovative solution, the company has witnessed profound improvements:

- Zero operator terminations related to dock violations, a testament to the solution's effectiveness
- 100% compliance with the company's stringent safety policies, reinforcing the firm's safety-first ethos
- Enhanced operator trust and confidence in the system, fostering a more motivated and engaged workforce
- Significant reductions in recruitment, training, and turnover costs, yielding substantial financial savings

## Key Benefits:

- Effectively prevents incidents of trailer entry, whether moving forward or in reverse, thereby ensuring operational safety
- Provides highly precise and reliable geofencing capabilities that set a new standard in safety technology
- Delivers accurate tracking of forklift movement and direction, maintaining operational integrity
- Automates the enforcement of safety policies, reducing the potential for human error
- Equips supervisors with real-time alerts and control, enabling immediate intervention and decision-making.

This solution not only addresses the company's immediate safety concerns but also reinforces its reputation as a leader in workplace safety innovation.

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