



SURGERE
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CASE STUDY: Cummins Achieves Sustainability Goals with RFID-Based Returnable Container Tracking Solution

Background & Challenge

Cummins, a global power technology leader, faced the challenge of aligning its revenue growth with sustainability goals, specifically reducing packaging waste and improving operational efficiencies in its North American supply chain. The company aimed to decouple its growth from packaging waste while enhancing the accuracy and reliability of tracking returnable packaging in a way that supported its ambitious Planet 2050 goals.

Solution & Results

Cummins partnered with Surgere to implement an advanced returnable container tracking solution using Passive RFID technology. This solution was deployed across 30 Cummins-owned and supplier facilities throughout North America, integrating nearly 300 RFID portals, overheads, and handheld readers. The system provided real-time, precise data on container locations, ensuring accurate tracking with over 95% data fidelity. By optimizing workflows and significantly reducing the time required to locate containers, the solution not only improved operational efficiency but also enhanced sustainability efforts. This innovation contributed directly to Cummins' ambitious sustainability goals, reducing packaging waste, minimizing the environmental impact of single-use packaging, and streamlining operations across the supply chain. As a result, Cummins was able to reduce packaging waste by 84 million pounds globally, supporting both sustainability and operational excellence.



Market(s):

Technology
Manufacturing Industries

Solutions:

Surgere's RFID-based tracking system optimized container management and reduced packaging waste while increasing tracking accuracy.

Key Outcomes:

- Reduced packaging waste by 84 million pounds globally.
- Achieved 99.9% data fidelity in tracking returnable containers.
- Streamlined operations, eliminating packaging waste and improving efficiency.
- Increased operational accuracy, avoiding stock-outs.
- Financially supported suppliers to implement the solution.

