

RETAIL 5.0 Track and Trace for Manufacturing and Warehouses

Smart | AI-powered | IoT-driven



Powered by: HCLTech Integrated Asset Tracking and Management platform

Overview

A recent study on the importance of track-and-trace of materials in supply chains showed that:



There are unpredictable order-to-cash (O2C) cycles, impacting financial performance



Inadequate inventory control causes outdated visibility into material movement



Accurate access to asset information is difficult



There are increased stockouts and suboptimal inventory levels



RFID chips and other technologies are appearing on more and more products, establishing important roles in track-and-trace solutions

Today, manufacturing organizations face the ongoing challenge of a lack of real-time visibility of their raw materials, sub-assemblies and finished product inventories with no traceability of the materials.

Our Solution

Track and Trace for Manufacturing and Warehouses is an advanced IoT-based track and trace solution designed for industries with significant material movement. It addresses the challenges of material visibility and manual tracking errors by providing automated tracking and a consolidated inventory view.

Powered by HCLTech's IATM platform – the solution is smart, AI and IoT-driven, and is available on multi-cloud platforms like Microsoft Azure and AWS Marketplace and can also be deployed on-premises. The solution enhances productivity, reduces wastage, and lowers capital costs by improving asset location accuracy and operational efficiency. It is scalable to track up to 1,000,000 assets, integrates with third-party systems via application programming interface (APIs) and offers flexible commercial models.



Awards and Recognitions



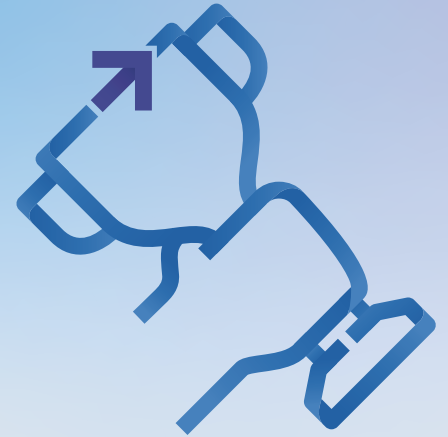
IoT Evolution Business Impact of the Year Award, 2023

[Know more](#)



IoT Evolution Asset Tracking of the Year Award, 2023

[Know more](#)



Features



Real-time asset traceability

Enables zone-wise traceability of materials between different areas in large manufacturing facilities



Consolidated floor layout view

Enables inventory visibility and location across the facility as a single pane of glass and facilitates operators in finding and locating materials and assets



FEFO/FIFO search capabilities

Prioritizes movement of materials based on First Expired First Out (FEFO) or First In First Out (FIFO)



Automated audit and stock check

Reduces need for manual counting



Open APIs for enterprise application integrations

Seamless integration to customer's existing Enterprise Resource Planning (ERP) and other third-party systems

Solution Workflow



Key Benefits

With a strong focus on materials management and resource optimization, the solution empowers data-driven decisions with streamlined real-time asset tracking and cost reduction.

- + **10-15%**
Reduction in inventory holding cost
- + **75-90%**
Increase in inventory accuracy
- + **50-60%**
Reduction in wastage
- + **70-75%**
Improvement in cycle count
- + **15-18%**
Boost in productivity
- + **80-85%**
Faster time to locate assets



Case Studies

Success story

1

A leading American food service distribution company sought to boost efficiency by digitalizing material handling processes, enhancing inventory visibility and minimizing manual tracking. They further wanted to reduce inventory shrinkage and optimize operations with data driven intelligence.

Solution

The customer adopted Track and Trace for Manufacturing and Warehouses solution for real-time material tracking across manufacturing and warehouse zones. Integrated reports and ERP integration ensured accurate inventory management and streamlined processes.

The impact

- 15% improvement in inventory accuracy and elimination of discrepancies
- Over 10% boost in productivity due to workflow automation
- Automated audit and reconciliation process and reduced wastage through the solution's unique FEFO/FIFO feature
- Improved inventory metrics and optimized material workflows facilitated the adoption of new technologies and automation



Success story

2

A leading American retailer which operates over 19,000 stores across USA and Mexico was looking to improve inventory tracking, asset tracking, warehouse stock and gain faster insights into movement management to streamline operations

Solution

HCLTech's Track and Trace solution leveraged fixed RFID readers for movement tracking and notifications. Regular automated inventory audits improved accuracy and enabled enhanced asset location even in cluttered environments.



The impact

- 100% tracking of assets at warehouse and store entry and exit points
- Over 10% reduction in missing or lost assets
- Enabled the generation of detailed asset utilization reports

HCLTech | Supercharging
Progress™

hcltech.com