

Transforming Port Efficiency

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“ Benefits of RFID-Enabled Operations

Real-Time Tracking: Precise monitoring of ITV/OTR, CHEs, containers, and cargo across terminal zones

Improved Turnaround Time (TAT): Automated workflows reduce manual checkpoints and speed up operations

Command & Control Center: Centralized dashboard with 2D/3D visualizations, alerts, and exception handling

Optimized Yard & Berth Management: Smart routing, guided set-down/pick-up, and congestion-free zones

Reduced Operational Costs: Lower dependency on manual labor and faster cycle times

Increased Safety & Security: Controlled vehicle movements and fewer incidents on berth/quay

Seamless Integration: HiSenz™ Middleware connects with ERP, ECS, TOS, and port security systems



Challenges in Ports and Terminals

Inadequate real-time visibility of Container Handling Equipment (CHE)

Delays and inefficiencies in container movement

Ineffective coordination between land side and water side operations

High idle time and equipment underutilization

Congestion and misalignment of ITV at berths and yards

Manual processes causing data inaccuracies and labor overhead

Limited Scalability and Digital Transformation Hindrance

Lack of Audit Trails

Congestion

Lack of Automation



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The Unbeatable Benefits: Why Make the Switch

Unlock Port's Full Potential

In today's fast-paced logistics world, traditional port operations often face delays, security risks, and a lack of real-time information. Radio-Frequency Identification (RFID) technology is changing this, transforming ports into agile, data-driven hubs.

Use Cases

Container Terminals

- Water Side
- Land side
 - Yard
 - Gate Entry
 - Rail

- General Cargo
- Ro-Ro Terminals
- Empty Container Yards
- Warehouses

Significant reduction
in equipment idle time

Significant improvement in
cargo handling speed

"Negligible chances of data
entry errors due to automation"

**Return on Investment
(ROI)**

Reduced dwell time per
truck/container leads to **faster
berth utilization**

Cost-effective scalability with
dual RFID tags and Edge-
enabled readers

Minimal CAPEX on infrastructure
thanks to mobile and zone-
specific RFID deployment