

Smart Connected Warehouse (SCW) ISG Solution

In the current competitive environment, customer demand volatility, human errors and market competition are constantly putting pressure on your environment to improve efficiencies, quality & safety. Oracle provides a modern platform to collaboratively manage and improve your warehouses operations by connecting equipment, assets, quality sensors and workers to the warehouses processes. Oracle's Smart Connected Warehouse helps to better anticipate and manage maintenance, quality issues, reduce downtime, improve inventory, space optimization, product traceability and 360° view of operations.

Leveraging a modern cloud platform, IOT connectivity, Artificial Intelligence and Machine learning analytics, and Cloud supply chain management, Oracle helps companies to modernize their warehouses and supply chain processes to competitively meet current and future requirements. Oracle is working with the world's largest companies and innovation partners to make the evolution to the 4th industrial revolution a success for new revenue stream.

KEY BUSINESS BENEFITS

- 20% reduction in costs by reducing shipping costs and improving labor efficiency
- 10-25% increase in storage capacity through optimized and directed warehouse tasks in combination with maximizing equipment usage and 22% reduction in inventory costs by eliminating inventory inaccuracy, damaged and expired.
- 15-45% reduction in IT-related costs through the elimination of IT Infrastructure
- 15-30% decrease in safety stock levels by providing real-time inventory data
- Reduce material handling and storage equipment downtime and costs
- Improve quality by proactively understand the root cause issues
- Improve efficiencies and resolve issues sooner through predictive insight

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WAREHOUSE PERFORMANCE MONITORING

Oracle Smart Connected Warehouse provides a modern solution to monitor warehouses in a global view to improve the 360 degrees view of the warehouse operations across the world.

The Oracle Smart Connected Warehouse use case 1 demonstrates how to provide a 360° view of operations performed by warehouse supervisor and manager in WMS Cloud with greater efficiency and improve knowledge on current inventories and space allocation.

Also helps to take the best action based on a correlation of data from multi sources such as machines, the AGV, Drones, High Speed Doors, Shelves, the inventories, ...

Provides a step-by-step global and local view of your warehouse and equipment KPIs.

- One 360° view of yield / efficiency, and equipment behaviors.
- Monitor orders, shipments, and inventory on a single SCM cloud-based platform.
- Leverage IOT, predictive AI and cloud supply chain. Oracle helps companies to modernize their operation

WAREHOUSE EQUIPMENT FAILURE

The Oracle Smart Connected Warehouse solution provides a full monitoring of warehouse efficiency to detect any unusual behavior using predictive analytics on multi sources of data.

Correlate data from multiple equipment like AGV or shelves to activate preventive actions to insure the optimal usage and performance of warehouse's assets.

- Anticipate potential yield drop.
- Optimize your maintenance scheduling, downtime costs and spare parts purchasing.
- Interact remotely with AGVs to avoid operation downtime.

WORKER SAFETY MONITORING

The Oracle Smart connected warehouse solution provides worker's safety and actions taken when there is a deviation from normal behavior.

Correlating data across multiple sensors helps to identify dangerous situation for your workers and helps to take the best decision based on a probability of risk level.

The platform helps to monitor worker safety and health in their day to day activities. Helps to avoid staying too long in cold or hot environment, alert remotely the worker that he is in a dangerous situation. Trace and record every incident for the Human Resources.

- Next best action based on worker abnormal behaviors.
- Apply safety and health regulations in cold, warm and dangerous environments.
- Prevent dangerous situation by remotely alerting humans about risks.

KEY FEATURES

- Easy to use and setup IOT and Artificial intelligence on Connected Worker & Asset Monitoring platform
- Warehouse Management Cloud
- Inbound receiving and Putaway - Schedule and manage inbound shipments, cross-docking, and flow-through allocation processes
- Inventory Operations and Visibility -Achieve end-to-end inventory visibility from DC to store shelf, understand inventory management positions, and dynamically replenish store shelves from any location. Oracle WMS Cloud increases inventory accuracy with automated inventory counting task generation and performs those tasks concurrently with other DC operations
- Web services for integration with external/legacy systems
- PaaS & SaaS sandbox for PoC's, Customer, OT Partners and startup tests.
- LIVE demo showcase of Oracle use cases and capabilities.

QUALITY INSPECTION MONITORING

The Oracle Smart Connected Warehouse solution provides quality information from several steps of products storage and manipulations across warehouse activities to optimize the customer satisfaction and packing & shipping flows based on quality insurance.

Correlating quality and storage data across multiple stages of storage and distribution helps to identify new quality failure patterns and provide new capability to take the best action when an impactful quality issues is detected.

The platform helps to monitor abnormal values from sensors such as temperature, humidity, vibration, correlate the incidents together in regards of specific products manipulated and provide advice and record about quality audit to reduce product returns and shipping mistakes.

- Quality based predictive Alerts.
- Corrective action automation.
- Quality plan adaptation to avoid massive quality issue and recalls.

EASILY EXTEND LEGACY FOR INDUSTRY 4.0 TRANSFORMATION

By using an open platform, the Oracle Connected Smart Warehouse platform provides a non-intrusive solution to increase transparency of warehouse data and performance indicators (KPIs).

The platform offers the best way to collaborate with new operational excellence partners, startups, and OT OEMs.

Oracle solutions are secured by design and helps to secure critical data while providing controls to allow sharing with selected partners.

Using open technologies, the platform helps to quickly implement predictive maintenance and proactive next best action (spare part order, maintenance scheduling, training, quality plan...)

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