

ORACLE WAREHOUSE MANAGEMENT

KEY FEATURES

INBOUND LOGISTICS

- Receiving (ASN & Non ASN Based)
- Inspection
- Directed put away
- Multi step material routings
- Planned and opportunistic cross docking

INVENTORY CONTROL

- Lot, subplot, serial and revision control
- Dual unit of measure control (catchweight)
- Material Attribute tracking
- Flexible material status & holds
- Consigned and vendor managed inventory
- Cycle counting
- Physical inventory
- Flexible replenishment

TASK MANAGEMENT

- Flexible pick methodologies
- Rules based task dispatching
- Guided consolidation
- Cartonization and guided packing
- Labor performance reporting
- Configurable task UIs
- Configurable exception handling workflows
- Automated task prioritization & reprioritization
- Managerial monitoring dashboards
- Manufacturing and service components picking
- Finished goods completion & put away

OUTBOUND LOGISTICS

- Rule-based product allocation
- Directed picking
- Directed consolidation
- Directed trailer loading

Oracle® Warehouse Management (WMS) enables companies to maximize their utilization of labor, space and equipment investments by coordinating and optimizing resource usage and material flows across a global supply chain on a single platform.

Improve Labor, Space and Resource Utilization

Oracle WMS centralizes the management of labor tasks, material routings and workforce performance to efficiently streamline material process flow that provides improved labor, space and resource utilization. Leveraging a configurable architecture, Oracle WMS enables warehouse facilities to efficiently and quickly flows goods across a wide variety of business processes- including order fulfillment, manufacturing, service, inbound logistics, counting or replenishment.

Increasing Labor Efficiency with Oracle's Advanced Task Framework

Oracle WMS can optimize travel paths and streamline worker productivity based on flexible pick methodologies, work load prioritization, pick routing and warehouse topology. Users can tailor simple manual operations or complex automated multi-step moves configuring material routings and pick methodologies to the specific needs of each business process. Oracle WMS offers order, cluster, zone, bulk, label based or user configurable pick methodologies which can vary based on other order profile, storage zone or user. Oracle WMS also handles automated task prioritization as well as task dispatching based on user and equipment skill sets.

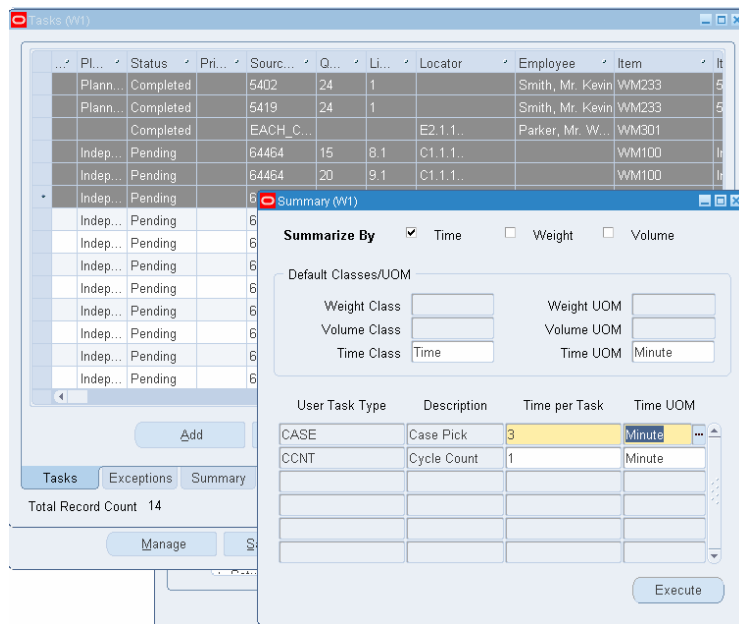


Figure 1: Managerial dashboards provide work visibility and management.

- Dock appointment scheduling
- Customer compliance labeling
- ASN generation
- Integration with Oracle Transportation Management

MOBILITY

- Mobile RF-based execution user interfaces
- Compliance labeling
- Compliance with UCC, EAN and other GTIN product labeling standards
- RFID automated transactions
- Material handling systems integration

Optimize Space Utilization

Oracle WMS enables users to optimize warehouse storage space with rules based directed putaway and dynamic slotting. Optimal storage locations are recommended based on configurable parameters like velocity, size (volume) and material classifications rules. These rules can be used to minimize storage fragmentation, enforce hazardous material rules, reduce obsolescence or implement other storage restrictions. The rules may automatically change seasonally to proactively handle regular fluctuations in demand for various product classifications as required.

Streamline Material Flow Using Cross-Docking

Oracle WMS can identify crossdocking opportunities in the warehouse by comparing expected receipts and outbound shipments and manufacturing component requirements leveraging flexible optimization criteria that enable users to more granularly determine supply and demand eligibility, reduce lead times and minimize the time product must wait in outbound staging areas.

Support for Advanced and Non-traditional Warehousing Processes

Competitive pressures and globalization are forcing traditional warehouses to take on value added services previously reserved for manufacturing and service centers and are forcing manufacturing centers to take on warehousing and order fulfillment activities. Oracle WMS offers advanced material and resource handling capabilities for these additional business flows.

Manufacturing, Assembly and Distribution

Oracle WMS provides one seamlessly integrated system for all execution processes including manufacturing, repair and maintenance business processes. Oracle WMS can handle component picking for discrete jobs and schedules, ingredient picking for process manufacturing production batches, parts picking for maintenance work orders and repair orders generated in Oracle WIP, Enterprise Asset Management or Depot Repair. Oracle WMS enables material traceability for lot, serial and genealogical and provides user interfaces for shop floor data capture. For Just in Time, Assemble to Order facilities, Oracle WMS enables users to take material directly from the end of the assembly line to the loading dock, bypassing any subsequent storage activities for reduced material handling.

This support for non traditional distribution flows enables users of Oracle WMS to make use of materials management best practices in the manufacturing center, the repair depot, the maintenance shop and wherever else inventory is required. This also allows users in a warehouse to take advantage of postponement strategies by deferring manufacturing and value added services activities to the distribution center instead of forcing all assembly operations to be completed at a manufacturing site.

Process Manufacturing

Oracle WMS offers process manufacturers additional flexibility with full support of lot and subplot control, dual unit of measure, grade, potency and any number of flexibly defined other attributes of product. These attributes can be used to determine how inventory is allocated on an order. Proactive material dating workflows can alert users to product pending expiration, retest or other milestone

dates in the product lifecycle. Oracle WMS provides the tight material controls required in highly regulated or controlled inventory environments without sacrificing the best in class distribution center business practices.

Repair Services, Returns, Disposition, Teardown and Refurbishment

Oracle WMS also offers the materials management feature set required in reverse logistics operations. Starting with return receipts, users can define the material flow required for product received on returns documents and guide subsequent inspection and rework processing. The product can then be routed to the repair depot for repair, refurbishment, tear-down, write off or return to vendor as required. This enables users to seamlessly manage reverse logistics operations in the same distribution centers that handle vendor receipts and customer order fulfillment. The same product labeling, identification, routing and materials management practices can be used on returns and non-conformant product as are used in standard inbound logistics processes.

Adapt to Changing Needs

To adapt to rapidly changing business requirements driven by customers, regulatory bodies, new product introductions, fluctuating demand and global outsourcing, Oracle WMS provides a configurable, rules- based infrastructure that easily adapts to changing business needs, including compliance mandates, without customization or coding.

RFID Enabled

Oracle WMS provides out of the box support for RFID and EPC technology for ongoing compliance. EPC's can be extracted from an inbound ASN and provided on outbound ASN's to customers. Integration with RFID label printers is provided out of the box as is automated receipt and shipping transactions as tags are detected at readers affixed to dock door. Additional functions can be automated via RFID or any other sensor based event detection infrastructure leveraging the rules based integration between Oracle WMS and Oracle's Sensor Edge Server to enable automation of any materials management business flow.

Tailorable User Interfaces and Workflow Processing

Oracle WMS reduces data entry errors by enabling users to configure task dispatching pages, ensuring that only the information required to complete the task is displayed to a user. Further, a configurable error handling workflow can proactively handle discrepancies encountered in picking by requesting cycle counts, applying location holds, notifying management, reallocating the inventory or taking any other appropriate corrective measures required.

Device Agnostic Material Handling Equipment Integration

For those warehouses where some or all of the material movement is performed by automation equipment such as conveyors, carousels, ASRSs, pick to light systems and even voice directed picking packages, Oracle WMS provides out of the box integration with leading material handling equipment suppliers. Customers can deploy diverse equipment using an open API device integration to request tasks, and receive responses from diverse equipment types. Managerial workbenches enable

real time monitoring of the equipment and provide visibility to congestion and failures as they occur.

Rules-Driven Processes

Oracle WMS has, at its core a flexible and powerful business rules engine, which permits extensive tailoring of key WMS processes such as directed picking and put-away, labeling, material routing selection and task dispatching without the need to customize code. This extensible rules based architecture enables key processes to evolve and adapt dynamically, further improving the ROI. These rules can be applied based on the content of any associated business transaction (e.g. orders, customers, items, suppliers, projects, etc.). Rules simulation capabilities enable users to evaluate business rules before implementation, thus further streamlining system implementation.

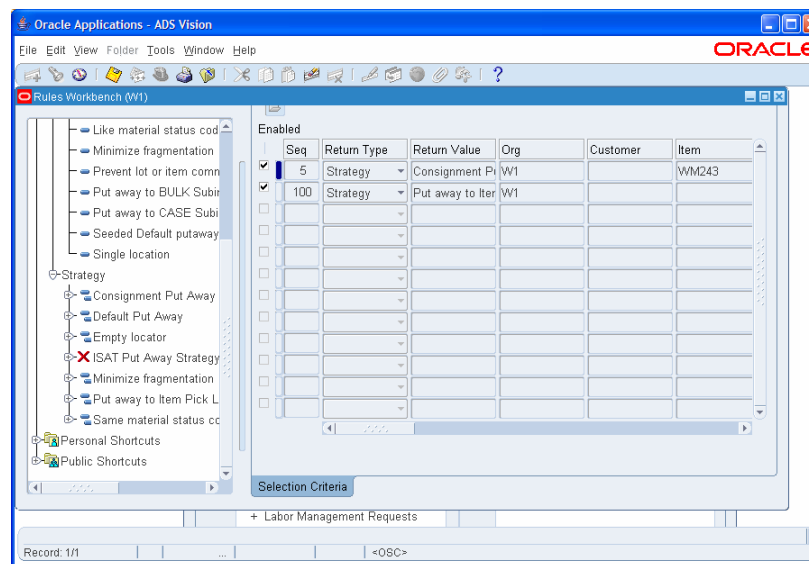


Figure 2: A Rules Workbench provides a view to all business rules currently in use.

Conclusion

Oracle Warehouse Management enables organizations to transform their materials management operations to agile fulfillment centers through optimal use of inventory supply and warehouse resources. Oracle WMS leverages a flexible framework that provides supply and demand matching, advanced task management, automation hardware support and support for the breadth of materials management processes frequently required in warehouses, manufacturing facilities and service depots.

KEY BENEFITS

THE BENEFITS OF
ORACLE WAREHOUSE
MANAGEMENT INCLUDE:

- Improve warehouse space, labor and resource utilization
- Support advanced and nontraditional warehousing business flows
- Enable customers to adapt to changing business needs & environments

RELATED PRODUCTS:

For more information on related applications, please see product announcements and data sheets on the following:

- Oracle Inventory Management
- Oracle Order Management
- Oracle Transportation Management
- Oracle Procurement
- Oracle Process Manufacturing
- Oracle Work in Process
- Oracle Enterprise Asset Management

RELATED SERVICES

- The following services are available from Oracle Support Services:
- Oracle E-Business Suite Accelerators
- Oracle Application Solution Centers
- Oracle University
- Oracle Consulting

Oracle E-Business Suite—The Complete Solution

Oracle E-Business Suite enables companies to efficiently manage customer processes, manufacture products, ship orders, collect payments, and more—all from applications that are built on unified information architecture. This information architecture provides a single definition of your customers, suppliers, employees, and products—all important aspects of your business. Whether you implement one module or the entire Suite, Oracle E-Business Suite enables you to share unified information across the enterprise so you can make smarter decisions with better information.

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