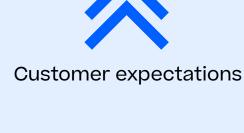
WMS 101

A journey through a warehouse as seen by its end-to-end orchestrator: the warehouse management system (WMS)

What is a WMS and what does it do?

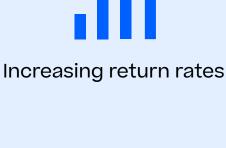
All modern warehouses, and their operations, will be affected by:





necessity. But as traditional supply chain solutions are often siloed, complex and hard to implement, new technologies are needed to increase warehouse speed, agility and peak efficiency.





To answer these challenges, optimization of warehouses and distribution centers (DCs) has become a

Stringent service level agreements

A warehouse management system (WMS) is the heart of a DC. It's software that uses real-time data to ensure goods, people and processes move in the most efficient and cost-effective way. It facilitates many warehouse

activities and provides full visibility end to end.

Inbound

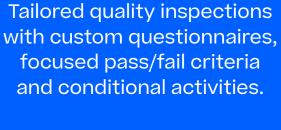
Goods entering a warehouse are either purchase orders, resupplies, transfers or returns. In most cases, the WMS is sent inbound communication (in the form of a purchase order,

advanced ship notice or return material authorization) from an enterprise resource planning (ERP) system before products arrive at the warehouse. The WMS then uses logic to create receipt/load appointments, or reserve docks, doors and staging areas in advance.

To ensure inbound shipments are processed efficiently and stored in the optimal place within the DC, the WMS manages the following processes:

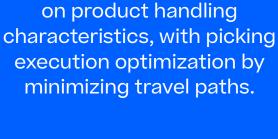
Slotting optimization

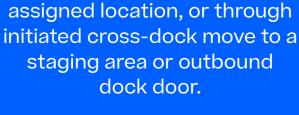
Efficient product storage based



Quality control

End-to-end visibility and optimization





Putaway

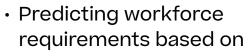
Products put away to

through the warehouse. Through real-time combined data, the WMS guides action towards high-priority customer orders, purchase order receipts,

A WMS connects and tracks all processes and aspects related

to the movement of goods

and billing events, based on user-defined criteria and workflows. **Labor engagement** Improve staff morale by: Benchmarking



operations

performance and inspiring staff with

realistic expectations

your staff's productivity

levels to optimize your

Increasing visibility of

- past data and projected work volumes This boosts productivity, engages staff and makes sure KPIs are met.

WMS drives efficient stock management to avoid missing inventory

or overloading. This

improves inventory

replenishment logic,

Accurate inventory

management

visibility and

Through real-time

accuracy and ensures inventory by location is most efficiently balanced.

Data & reporting

KPI dashboards

Accurately measure

from past trends and

Real-time visibility and

actionable data allow you to:

Create, manage and view

 Analyze ad-hoc business intelligence using pivots

operations performance Make informed decisions

Supply chain data is also interchangeable with other external data sources,

such as ERPs.

real-time metrics

on bin utilization.

Space optimization

warehouse space with:

Intelligent picking

directives

Cross-docking

based on accurate,

real-time information

Maximize the use of your

Directed stock rotation

Automatic consolidation

The system also directs and optimizes put-away

External carriers and vendors can log into the WMS portal to schedule a date, time and dock door

for deliveries or outbound

orders, based on predefined

parameters. This improves efficiency, throughput and

asset utilization.

Resource scheduling

The WMS executes every aspect of outbound fulfillment. After retrieving from order receipt through picking and packing, the system then provides the necessary documents for shipping.

Shipping

Through a multi-carrier rating

engine, you can automatically select the cheapest carrier,

mode and service level

against your delivery

timeframes. This reduces

shipping costs, allows

shipment tracking, and hits

valuable key performance

metrics - all whilst

maintaining complete shipping compliance and

meeting customers'

expectations.

increases shipment reliability. Wave picking – consolidation of multiple sales orders into 'waves' - is also able to be picked at once for significant

time savings.

Picking and packing

Picking rules can be fully

configured, including specific

parameters determined by the customer - such as mass

and size. Integrated shipping

functionality eliminates fixed

packing stations and

shipment paperwork, reduces

costly manual errors, and

Optimized operations Improves inventory accuracy, efficiency and responsiveness.

Drive productivity

Empower your workforce to

maximize business results through

increased mobility, analytics and

information exchange, while

eliminating the need for

non-value-added activities

such as manual checking and

shipment audits.



Outbound

Kitting

Import sets and kits directly

from ERPs and track their

entire flow through the

warehouse, with detailed

definition of kit's parameters,

and configuration of

obligatory and optional kit

items and the items'

sequence. The kitting function also allows you to

create "dynamic kits" - kits

with the same identification

number, but different

content.

Why a WMS?

Turnover reduction Manage labor and workforce scheduling for better resource allocation. **(·⊕·)**

Seamless integration

Achieve end-to-end processes

and time-to-value reduction by

integrating the WMS with other

supply chain applications

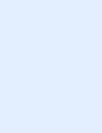
(yard management, labor

management, transportation

management), host ERP,

automated material handling

equipment (MHE) and other



Process digitization

Complete digitization provides real-time data for improved visibility and planning.

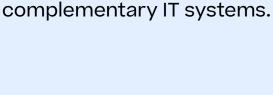
Exceed customer expectations

Improve order accuracy and

on-time shipments with

reduced cycle times, stock

outs and backorders.







Configurable solution A flexible, future proof

solution which supports customer-specific processes without requiring source code customizations.

business continuity and uptime, and security and

Find out more



achieve increased

productivity

of up to 50%.



scalability to support seasonality and growth. WMS solutions can improve your warehouse operations, end-to-end.



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