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Dynamics 365 Solutions

Armanino – Microsoft Dynamics 365 Advanced Warehousing Overview

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MICROSOFT DYNAMICS 365 FSCM WAREHOUSE MANAGEMENT

Advanced Warehouse module design and flexibility:

- Adv. Warehouse module is a query-based WMS designed to build rules for each business process
- Adv. Warehousing is designed to maximum user productivity and reduce user decision making, while minimizing inventory movements.
- WMS can be implemented quickly with broad rule sets or built out with specific rules
- Queries can be built to leverage information across the platform with Advanced Queries joining SQL tables
- WMS includes a dedicated WMS App to support data validation with barcode scanning
- WMS supports inbound/outbound distribution and logistics, general inventory management practices, and production control (Discrete, Process, and Lean)

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MICROSOFT DYNAMICS 365 FSCM WAREHOUSE MANAGEMENT

- Competes with Tier 1 WMS Solutions without the issues related to having a WMS Interface
- Seamless Inventory Transacting across the system, especially in Manufacturing
- Over 60 Features released since late 2019, including:

GS1 Barcode Support	Cross Docking	Material Handling Equipment Interface
Outbound Sorting (Pallet Build)	FIFO and LIFO License Plate Picking	System Directed Cluster Picking

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MICROSOFT DYNAMICS 365 FSCM WAREHOUSE MANAGEMENT

- **Warehouse Management Concepts**
  - License plate (LP) - Moveable Inventory Dimension below Location
  - Location Profiles and Zones – Location Characteristics and Grouping Mechanism
  - Reservation Logic – Order Level and Work Level
  - Location directive – What, How Many, and Where
  - Wave template – Mechanism for Grouping Orders Together for Processing
  - Work template – How we complete the Work
  - RF configuration – Flexible and can be User Specific
  - Inventory status dimension – Available, Quarantine, Inspection, etc.

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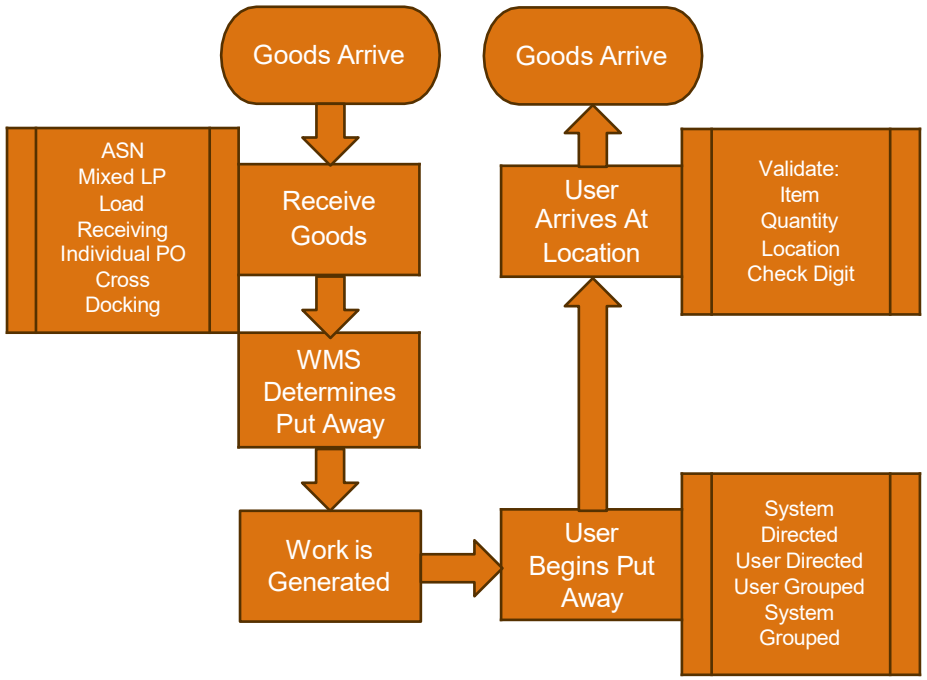
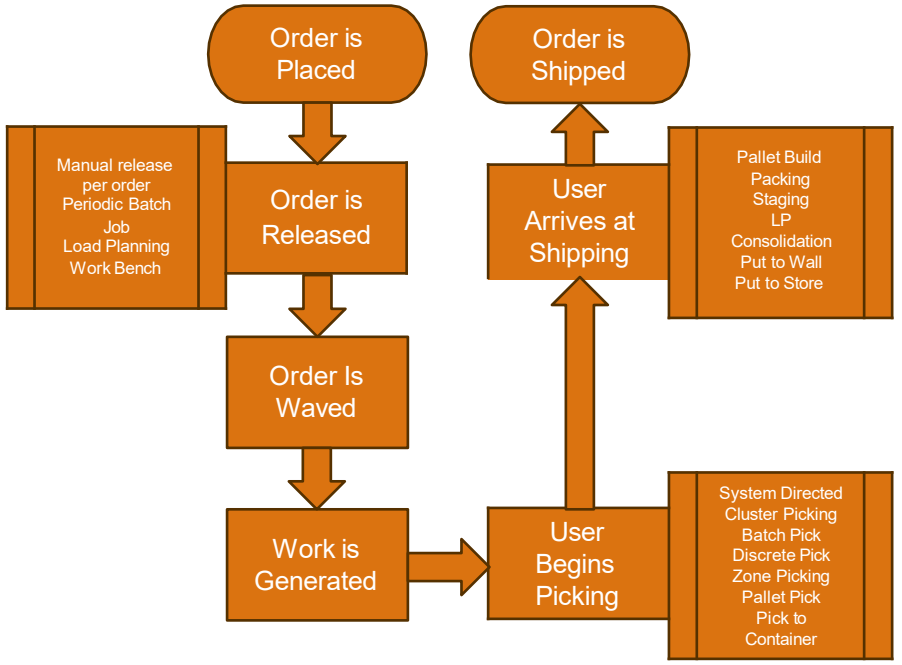
Inbound Process



Outbound Process



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MICROSOFT DYNAMICS 365 FSCM WAREHOUSE MANAGEMENT

WMS Inbound Out of Box Functionality

- Mixed License Plate Receiving
- ASN Receiving
- Customer Returns Receiving
- User Directed Put Away
- System Directed Put Away
- User Grouped Put Away
- Integrated Mobile Device
- Integrated Label Creation

WMS Outbound Out of Box Functionality

- User Directed Picking
- System Directed Picking
- Cluster Picking
- Cross Docking
- Containerization
- Container Packing
- Integrated Mobile Device
- Integrated Label Creation

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WMS Miscellaneous Inventory Out of Box Functionality

- Location to Location Movements
- Demand Based Slotting
- Item Consolidation Planning
- Inventory Status Adjustments
- Integrated Quality Control
- Labor Standards
- Min/Max Based Replenishment
- Zone Based Replenishment
- Wave Based Replenishment
- Cycle Count Plans
- Threshold Based Cycle Counts
- Inventory Adjustments
- Integrated Mobile Device
- Integrated Label Creation
- User Directed Cycle Counting
- System Directed Cycle Counting

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WMS Production Out of Box Functionality

- Discrete, Process, and Lean Manufacturing
- User Directed Picking
- System Directed Picking
- Mobile Device Report As Finished
- Batch Tracking Report as Finished
- Serial Number Report as Finished
- Wave Based Raw Material Allocation
- Resource Based Inventory Movements
- License Plate Staging
- User Directed Put Away
- System Directed Put Away
- Cross Docking
- Negative Inventory Support
- Mobile Device Production Start
- Mobile Material Consumption
- Mobile Device Production End

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SCENARIO 1

Let's start with….

Material Demand from multiple floors of a Hospital building.

What we want to accomplish…

- Provide a variety of Items and Quantities
- Provide a variety of Units of Measure (ea, case, PL)
- Utilize different styles of picking
- Fulfill for the Various Floors of the Hospital
- Reduce errors with System-directed picking to fulfill the demand orders

With Dynamics 365 SCM Warehouse Management, we'll show…

Cluster Picking

Case Picking

Full PL Pick

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SCENARIO 2

With material on the way…

Put-away the material to the Supply rooms or closets on each floor

What we want to accomplish…

- Provide an easy, intuitive way for staff members or associates to receive the goods
- Reduce the amount of paperwork in the process
- Maintain an accurate count of inventory

With a Power App integrated to Dynamics 365 SCM Warehouse Management, we'll show…

A mobile application that quickly executes these material put-away activities and confirms transactions with the back-office

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MICROSOFT DYNAMICS 365 FSCM WAREHOUSE MANAGEMENT

SCENARIO 3

With material <u>on-hand</u>…

We need to consume material for use on the hospital patient floors or operating rooms

What we want to accomplish…

- Provide an easy, intuitive way for staff members or associates to consume material, track usage and align charge codes
- Reduce the amount of paperwork in the process
- Maintain an accurate count of inventory
- Automatically trigger re-orders or Request re-supplies

With a Power App integrated to Dynamics 365 SCM Warehouse Management, we'll show…

A mobile application that quickly consumes the inventory and supports inventory visibility, accuracy, and re-supply

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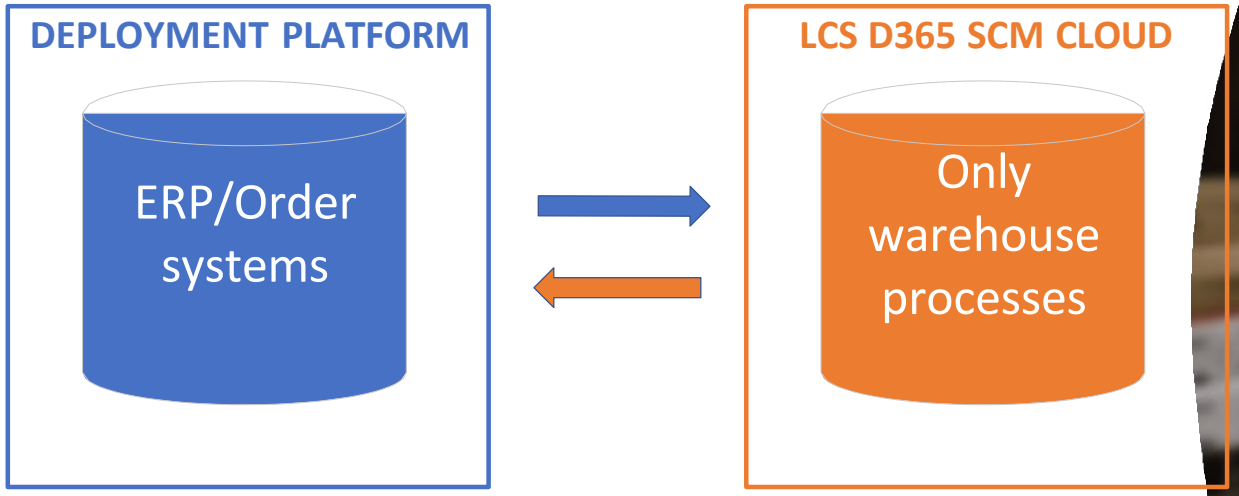
Dynamics 365 SCM Warehouse Management only mode



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The same Warehouse management capabilities

Rule engine
Flexible workflows

Integrated processes
Production, Procurement, Quality, Retail, Project, Sales, Returns

Scanning
Guided paperless task experience
Out of box

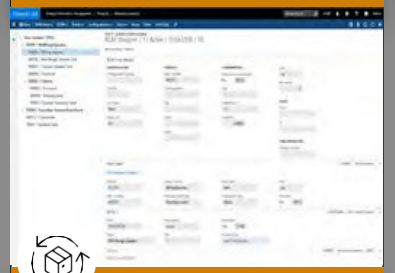
Material handling & Carrier Integration
Integrate to automation and Carrier hubs

Embedded Analytics
Gain advanced insights

Continuous updates

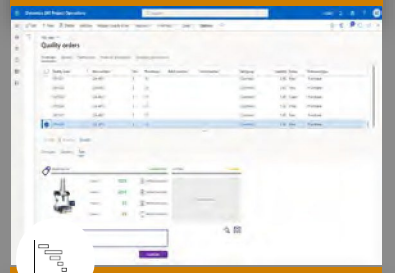
Manufacturing(Discrete, Lean, Process, Mixed-mode), Automotive, eCommerce, Retail, Healthcare , Food, High-tech

Inventory Management

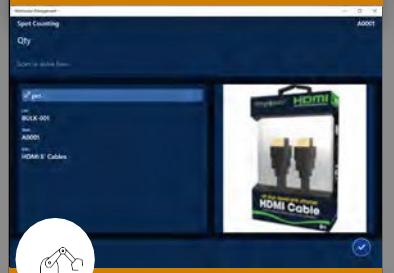


Inbound

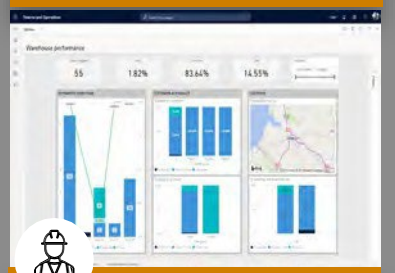
Quality Management



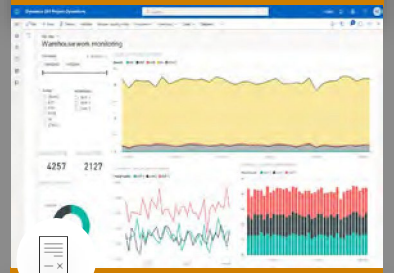
Warehouse Operations



Outbound



Labor management



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Warehouse management only mode

- Master data (Products, etc.)
- Inbound/outbound delivery requests
  - Purchase
  - Sales
  - Return
  - Transfer
  - Production

Other ERP / Intelligent Order Management

MS D365 ERP

Other integrations (Carriers, material equipment, etc.)

- Delivery status updates
- On-hand updates

Same platform as standard

D365 Warehouse

Warehouse planning and optimization → Receive and put away → Outbound wave and Work processing → Ship

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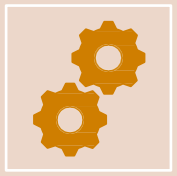
Learning Resources – Warehouse Management Only mode



[Leverage Warehouse management only mode to optimize your business - Blog]

[Warehouse management only mode documentation]

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Let's Start the Demo!

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