Dynamics 365 Solutions

Armanino – Microsoft Dynamics 365 Advanced Warehousing Overview

armanino

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)

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

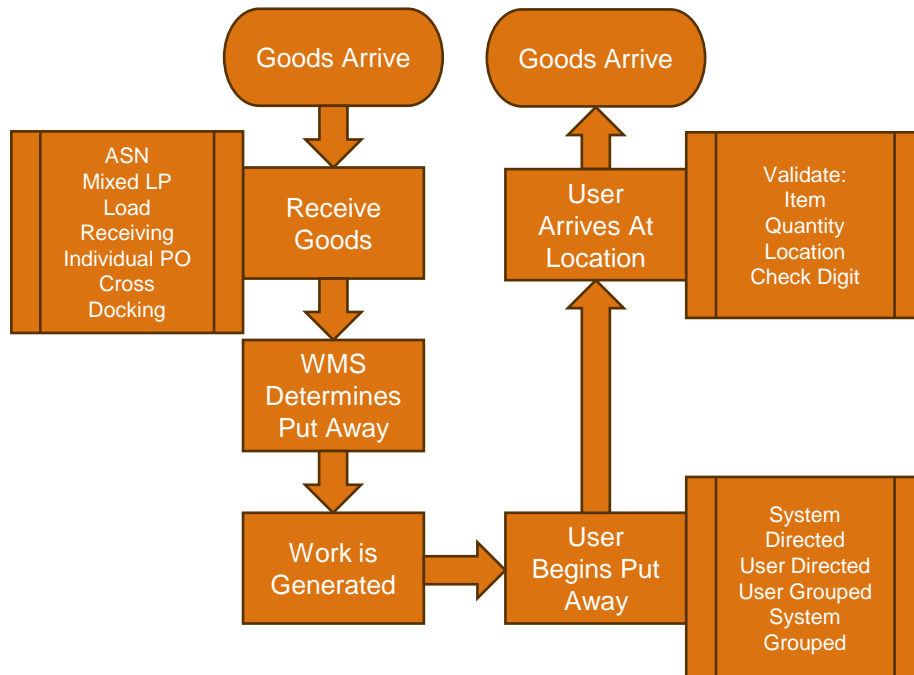## MICROSOFT DYNAMICS 365 FSCM WAREHOUSE MANAGEMENT

- **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
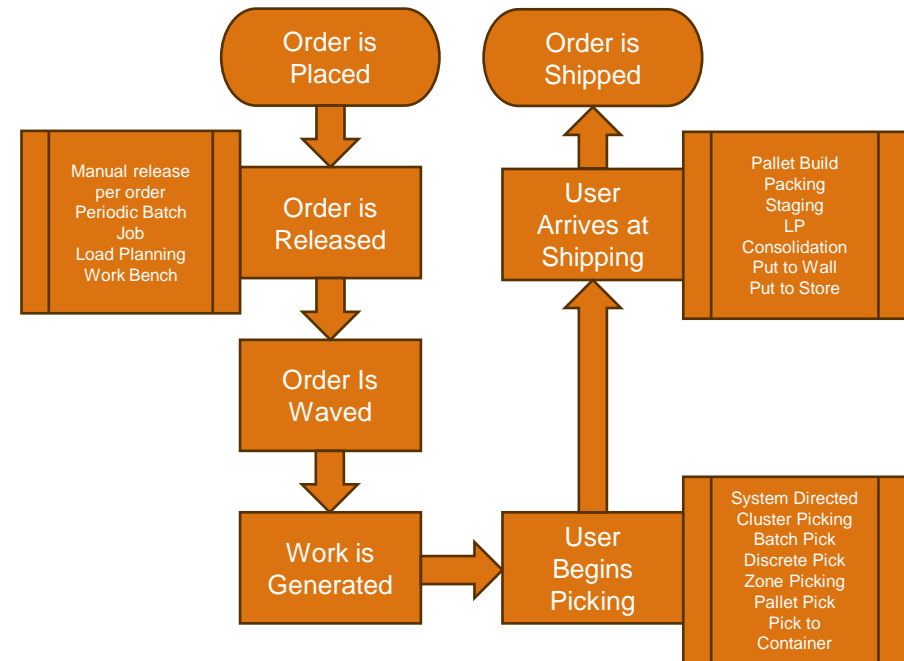 - Inventory status dimension – Available, Quarantine, Inspection, etc.

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Inbound Process

Goods Arrive → Receive Goods

ASN
Mixed LP
Load
Receiving
Individual PO
Cross
Docking

WMS Determines Put Away

Work is Generated → User Begins Put Away

System Directed
User Directed
User Grouped
System Grouped

User Arrives At Location → Goods Arrive

Validate:
Item
Quantity
Location
Check Digit

Outbound Process

Order is Placed → Order is Released

Manual release per order
Periodic Batch Job
Load Planning
Work Bench

Order Is Waved

Work is Generated → User Begins Picking

System Directed
Cluster Picking
Batch Pick
Discrete Pick
Zone Picking
Pallet Pick
Pick to Container

User Arrives at Shipping → Order is Shipped

Pallet Build
Packing
Staging
LP Consolidation
Put to Wall
Put to Store

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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

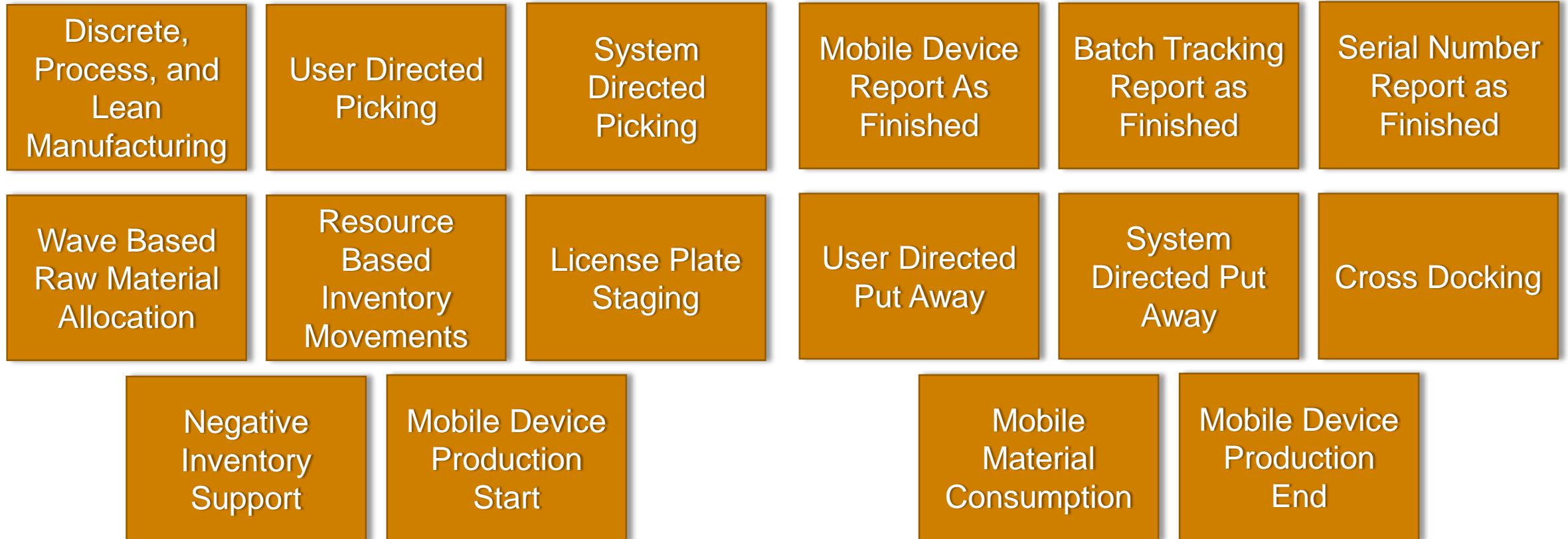|		
User Directed Picking	System Directed Picking	Cluster Picking
Cross Docking	Containerization	Container Packing
Integrated Mobile Device	Integrated Label Creation	

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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 <u>on the way</u>...

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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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

Dynamics 365 SCM Warehouse Management only mode

DEPLOYMENT PLATFORM

ERP/Order systems

LCS D365 SCM CLOUD

Only warehouse processes
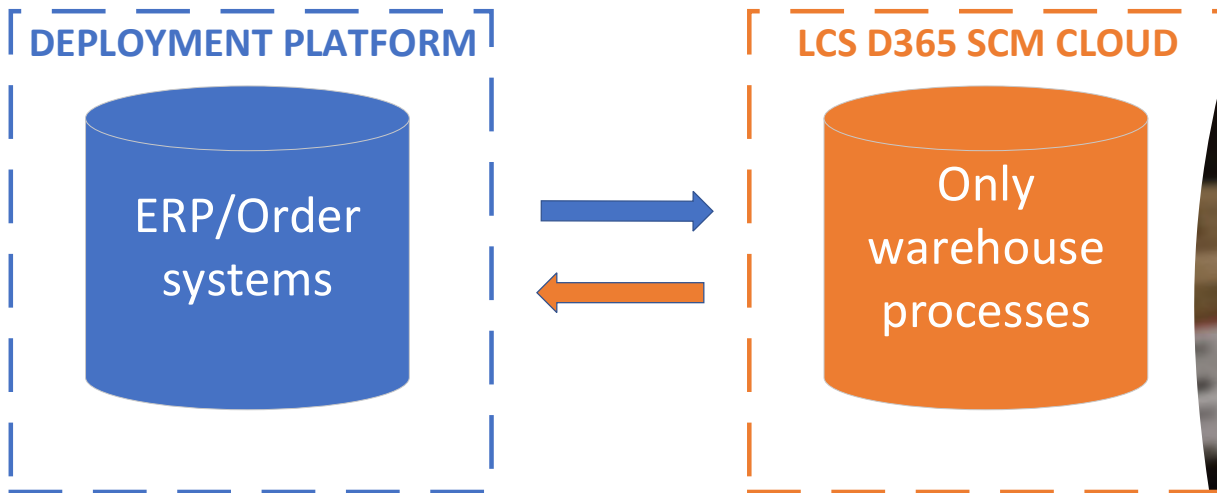
The same Warehouse management capabilities

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Rule engine	Integrated processes	Scanning	Material handling & Carrier Integration	Embedded Analytics	Continuous updates
Flexible workflows	Production, Procurement, Quality, Retail, Project, Sales, Returns	Guided paperless task experience Out of box	Integrate to automation and Carrier hubs	Gain advanced insights	
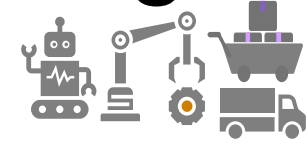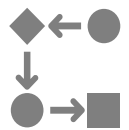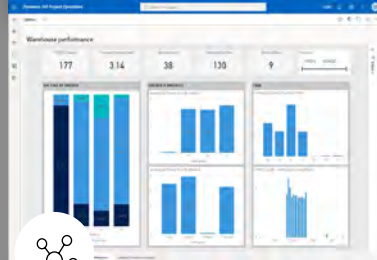
Manufacturing(Discrete, Lean, Process, Mixed-mode), Automotive, eCommerce, Retail, Healthcare , Food, High-tech
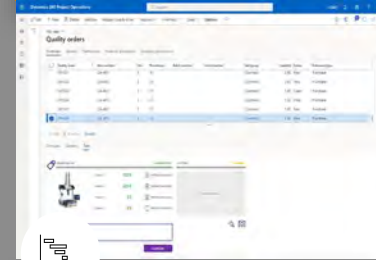
Inventory Management
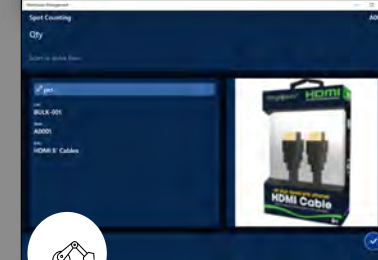
Inbound
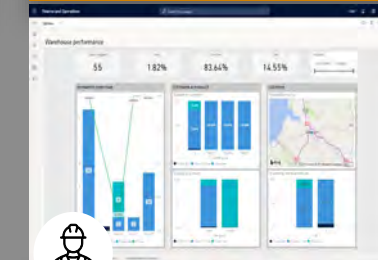
Quality Management

Warehouse Operations

Outbound

Labor management

Warehouse management only mode

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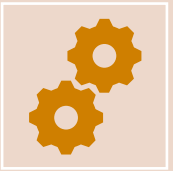 - Production

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

Shipping performance

Warehouse planning and optimization

Receive and put away

Outbound wave and Work processing

Ship

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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