

Deep Dive into New Warehouse Management Functionality in R3 presented by:

Brian Lindenmeyer

November 18, 2014



Innovate. Invigorate. Inspire.

Agenda

WMS Feature Overview

WMS Setup Overview

WMS Functionality Demonstrations





Objectives

- Review Microsoft Dynamics Warehousing (& Transportation) modules
 - New for 2012 R3 IP was acquired from Microsoft partner
 - Brings best-of-breed functionality to AX for warehousing and transportation management
- Provide a "HIGH LEVEL" overview of the AX Warehousing modules to introduce some of the system capabilities prior to gathering requirements.
- The result of this overview should be to give you a better understanding of the capabilities of base WMS functionality
 - A key take-away is the vocabulary / terms used in Warehouse Management
 - Understand the various modules / ISV's that support distribution and fulfillment operations





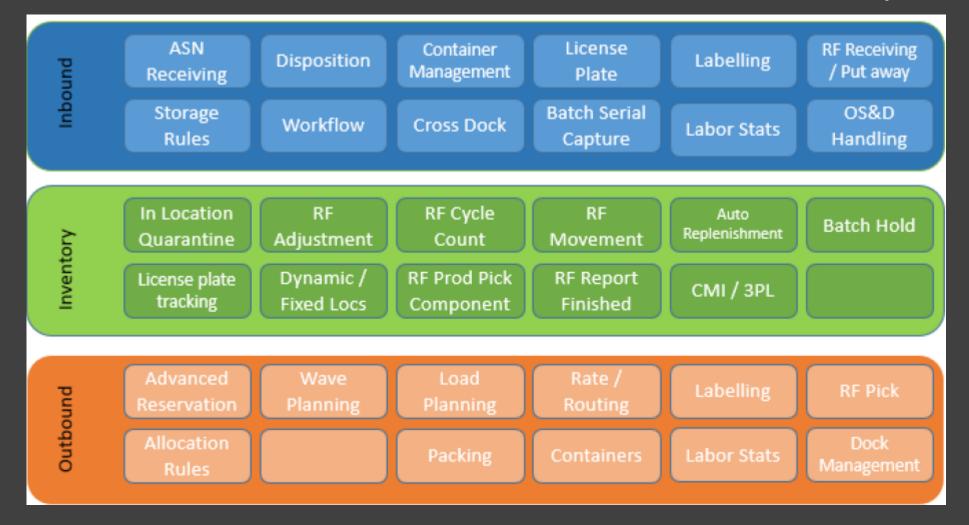
Session Sponsor Introduction – MT Mobility



- John Danielson Sales Manager
 - 104 S 8th Avenue, Marshalltown IA 50158
 - Phone: 641-753-5999 x151
 - E-mail: jdanielson@Marshalltown.com



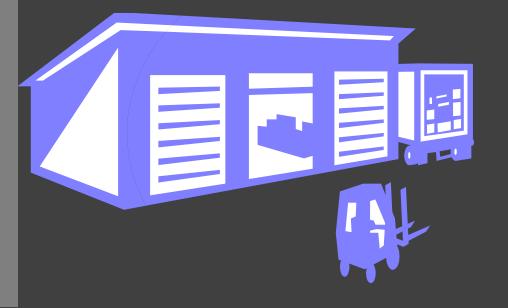
Overview of WMS & TMS Functionality







Warehouse Setup in AX







Warehouse Setup

General Warehouse Parameters

• Number Sequences for Warehouse Management

Warehouse Setup (Locations)

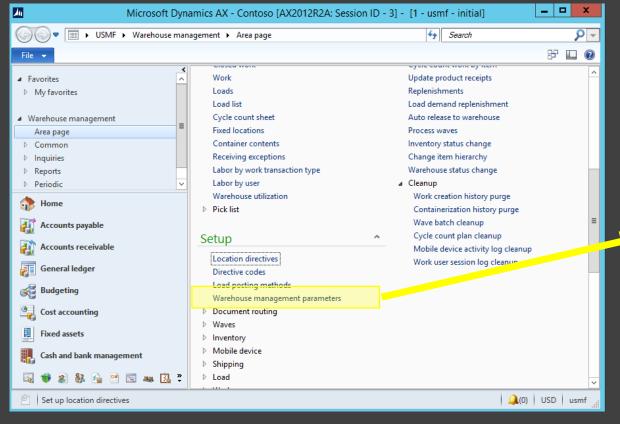
• Set up parameters to create locations

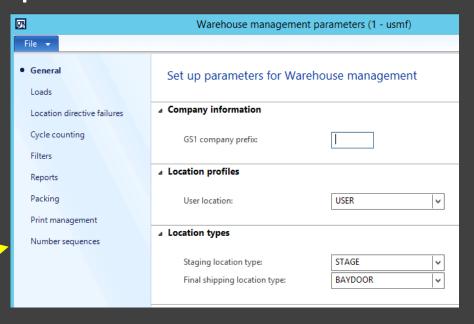
Other configurations

- Reservation Hierarchies
- Unit Sequence Groups
- Work Pools
- Label Printing
- Work Templates
- Location Directives



Warehouse Parameters Setup





Locations

License Plates

Inventory Adjustments

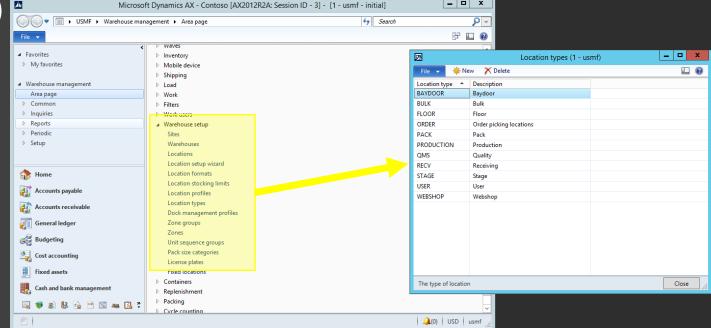
Work

Warehouse Mobile Devices

Inventory Status

Warehouse Setup - Locations

- Location Types
 - Two mandatory (Stage / Shipping)
- Location Format
- Dock Management Profile
 - Assigned to location profiles
- Location Profile
 - Specify attributes of locations
- Warehouse Zone / Zone Groups
 - Mainly for reporting
- Create Locations
 - Check digits







WMS ITEM SETUP

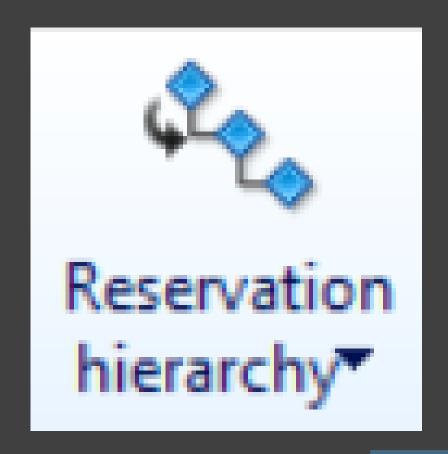






Item Setup - Reservation Hierarchy

- Automatic information retrieval
- Order elements in hierarchy
- Dimensions required by order entry
- Inventory reservation hierarchy
- Assigning to released products
- Changing for items w/ transactions
- Storage dimension groups
- (Opt) Tracking dimension groups

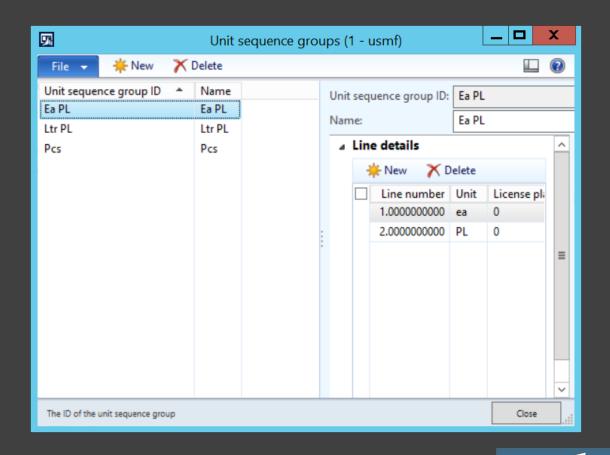






Item Setup – Unit Sequence Group

- P.I.M. maintains primary unit
- Within WMS, manage sequence
- Define how product should be grouped on license plates
 - Example of receiving 220
 - 1 each, 10 / case, 100 / pallet
- Define unit for cycle counting
- P.I.M. WMS setup







WORK POOLS & TEMPLATES, MOBILE DEVICE SETUP, & OTHER SETUPS







Work Pools & Work Templates

WORK POOLS

- Work pools help organize work into groups
 - For all work types except counting, we can assign a pool to a template
- If you use work templates to create work, the work pool is automatically assigned
 - Mobile device (user setup)
- Work pools can also be assigned using "LOCATION DIRECTIVES"

WORK TEMPLATES

- Used to create and process work
 - Should be specified in pairs (e.g. pick and put)
- Typically setup for:
 - Inbound transactions
 - Picking
 - Inventory transfers
 - Replenishments



Mobile (RF) Device Setup

- Define work classes
- Setup mobile device menus
- Setup users for mobile access







Label Printing

- Enable workers to print or reprint labels
- Must setup one or more document routing layouts
- Print commands for printing barcodes (e.g. ZPL, ZPL II)



- Document routing manages creation of paperwork with work
 - Document routing defines several factors
- Can add print step to work templates for each type of work order
- Allowing mobile devices to print / reprint labels
 - NOTE: if print label is selected in work template, labels are always printed



Location Directives



- Location Directives (Rules) help dictate how:
 - Incoming product is put away
 - How outbound product is picked and staged
 - How replenishment of forward pick locations will occur
- Pre-Req's:
 - Using Warehouse Mgnt Processes
 - Create Locations, Location Types, Location Profiles, Location Formats
 - Create Sites, Zones, Zone Groups





DAY IN THE LIFE WITH WAREHOUSE MANAGEMENT







Main Warehouse Operations Support

- Inbound Operations & Put Away
 - Purchase Orders
 - Return Orders
 - Transfer Orders
 - Production Orders and Kanban (not covered in this session)
- Outbound Operations Picking
 - Sales orders
 - Transfer orders
 - Production orders and Kanban (not covered in this session)
- Inventory Operations
 - Movements
 - Replenishment (Min / Max & and On-Demand at Order Release)
 - Cycle Counting (Schedule Plans & Thresholds, e.g. Zero Qty Cycle Counts)
 - Adjustment
 - Inventory Status Change Blocking



Summary of New Feature Sets

- License plate (LP) Inbound, Outbound, Inventory
 - Replaces Pallet ID
- Location Directives Inbound, Outbound, Inventory
- Wave Templates Outbound
- Work Templates Inbound, Outbound, Inventory
- RF Menu Configurations Inbound, Outbound, Inventory
- Replenishment templates –Inventory
- Load Planning Workbench Inbound, Outbound
- Inventory Status Dimension Inbound, Outbound, Inventory





DEMONSTRATIONS







OPEN FORUM / QUESTIONS?





