Consolidation Strategies in D365 F&O/SCM and AX2012

Q3 Virtual D365/AX UG Kentucky Chapter Meeting
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Andrew Lencsak

Solution Delivery Manager
Arbela Technologies

• Former end user Master planner and Inventory control analyst
• Has implemented Dynamics AX3.0, 4.0, 2009, 2012, and D365
• Hosted 7-part Master Planning webinar series for AXUG in AX2012 and D365
• Co-hosted MB-320 Exam Prep webinar series with Kelly Kane
By the Numbers

- 200+ Resources
- 300+ MS Exams Passed
- 9 Gold Certifications

US, UA, UK, DK, CA
Nationalities
Languages Spoken

Arbela Products
Integrated Practices
X as a Service’s

Industry

- Manufacturing & Distribution (CTO, ETO, MTO)
- Professional Services
- Connected Field Service
- Media / Entertainment
- On-Prem – Cloud

Overview

- Dynamics 365 Sales
- Dynamics 365 Customer Service
- Dynamics 365 Field Service
- Dynamics 365 Finance & Operations
- Dynamics 365 Customer Insights
- Dynamics 365 Talent
- BI & Analytics
- Azure
- Audit & Security Manager
- Arbela Data Insights
- One Step Consolidation
- Master Data Centralization
- BI as a Service
- Marketing as a Service
- Security as Customer Engagement as a Service

Microsoft Partner

Gold Cloud Customer Relationship Management
Gold Cloud Business Applications
Gold Enterprise Resource Planning
Gold Application Development
Gold Cloud Platform
Gold Data Analytics
Gold Data Platform
Gold Datacenter
Gold ISV

Media / Entertainment
Membership Management, Artist Management, Project Based Tracking

On-Prem – Cloud
15+ On-Prem to Cloud Migrations

Professional Services
Engineering Services

Connected Field Service
Energy Distribution & Fleet Maintenance, IoT

Dynamics 365
Finance & Operations
Dynamics 365
Customer Insights
Dynamics 365
Field Service
Dynamics 365
Sales
Dynamics 365
Talent
BI & Analytics
Azure
Audit & Security Manager
Arbela Data Insights
One Step Consolidation
Master Data Centralization
BI as a Service
Marketing as a Service
Security as Customer Engagement as a Service
Agenda

- Objectives
- Planning Strategies
- Manufacturing Strategies
- Warehouse Strategies
- Recap
Learning Objectives

• Know your options for aligning Dynamics to your S&OP process
• Understand how you can reduce number of system “touches”
• Recognize system capabilities to eliminate excess transport and handling time and costs
Master Planning

• Are you trying to reduce inventory carrying costs?
• Do you have physical constraints in the warehouse or point of use areas?
• Are you Make to Order, Make to Stock, Engineer to order?
• Are you factoring in minimum volume, weight, or transport fees?
Default Order settings

**Default order settings**

**ID**

- Rank: 0
- Item number: Drew Kit
- Product name: Drew Kit

**Purchase order**

- Unit: ea
- Default warehouse: 24
- Default site: 2
- Mandatory site: ☐
- Mandatory warehouse: ☐

**Purchase Quantity**

- Multiple: 10.00
- Min. order quantity: 100.00
- Max. order quantity: 0.00
- Standard order quantity: 0.00

**Other**

- Purchase lead time: 0
- Working days: ☐
- Stopped: ☐
Period based Coverage groups
Grouping

Master planning parameters

Set up firming planned order settings

FIRM - PURCHASE
- Group by vendor: Yes
- Group by buyer group: No
- Group by purchase agreement: No

FIRM - TRANSFER
- Group by period: No

Finance and Operations

Save Options

Search for a page

USMF

D365UG
Finance & Operations
Grouping and Firming

You can only group planned orders that have the same item number.
Firming to existing orders

When firmed this planned order would be added as a line to the PO selected in this dropdown.
Manufacturing
Same options for coverage groups and manual consolidation

![Diagram of Planned production orders in Finance and Operations](image)
Production Scheduling

- Schedule like jobs together
- Maximize machine and resource uptime
- Minimize machine and resource changeovers
Ways to schedule for max uptime

• Production pools – simple way to group production orders into categories
• Properties – attributes assigned to resource operations, items, and production orders to aid in scheduling
### Working times

#### Working days

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Week</th>
<th>Month</th>
<th>Control</th>
<th>Closed for pic...</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/14/2020</td>
<td>Monday</td>
<td>38</td>
<td>September</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>9/15/2020</td>
<td>Tuesday</td>
<td>38</td>
<td>September</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>9/16/2020</td>
<td>Wednesday</td>
<td>38</td>
<td>September</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>9/17/2020</td>
<td>Thursday</td>
<td>38</td>
<td>September</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>9/18/2020</td>
<td>Friday</td>
<td>38</td>
<td>September</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>9/19/2020</td>
<td>Saturday</td>
<td>38</td>
<td>September</td>
<td>Closed</td>
<td></td>
</tr>
</tbody>
</table>

#### Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1114</td>
<td>Polishing worker 4</td>
<td>Human resources</td>
</tr>
</tbody>
</table>

#### General

- **Operation**
  - **Times**
    - Queue time before: 1.00
    - Setup time: 0.00
    - Run time: 0.00
    - Queue time after: 0.00
  - **Overlap**
    - Transfer batch: 1.00
  - **Capacity**
    - Capacity unit: 1.00
    - Capacity: 0.00
    - Batch capacity: 0.00
    - Transit time: 0.00
  - **Scheduling**
    - Efficiency percentage: 100.00

- **Additional properties**
  - **Rent property**: No

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**Image**

The image shows a screenshot of a software interface, likely from a manufacturing or production management system. The interface is set to display **Working times**, with a focus on **Working days**. It lists dates and associated days of the week, with options for month, control status, and closed for particular days. Below, resources are detailed, specifically highlighting a resource labeled **Polishing worker 4**. The general settings for this resource include various operational parameters such as times, overlaps, and capacities, with a particular note on the **Rent property** being set to **No**.
Gantt chart

- Use as a visual tool to help align orders with jobs taking up the same resources
# Picking

## Released product details

**JBC-1000 : JBC-10000**

## Manage projects

## Financial dimensions

### Warehouse

<table>
<thead>
<tr>
<th>PHYSICAL DIMENSION</th>
<th>FIXED PRODUCT LOCATIONS</th>
<th>GROUPING OF FILTER CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit sequence group ID</td>
<td>Warehouse</td>
<td>Group 1</td>
</tr>
<tr>
<td>ea</td>
<td>Site</td>
<td>Group 2</td>
</tr>
<tr>
<td>Maximum pick quantity</td>
<td>Location</td>
<td>PRODUCTION</td>
</tr>
<tr>
<td>0.00</td>
<td></td>
<td>Material picking in license plate location...</td>
</tr>
<tr>
<td>Pack size category ID</td>
<td></td>
<td>Staging</td>
</tr>
<tr>
<td>Physical dimension group ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catch weight item handling policy</td>
<td></td>
<td>Allow pick work center negative</td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td>PRODUCT FILTER CODES</td>
<td>Default production or receiving quantity</td>
</tr>
<tr>
<td></td>
<td>Code 1</td>
<td>0.00</td>
</tr>
</tbody>
</table>

## D365UG Finance & Operations
Grouping putaway

• What do you do with WIP or FG once production is completed?
• Are there quality steps that need to be completed?
• Are there production holding areas?
• Do goods get cross docked for shipping or use in another production area?
Warehousing
Release to Warehouse

- Are you consolidate multiple orders to the same customer?
- Are you consolidating internal transfer orders?
- Are you trying to fill a truck, rail, or sea container?
This parameter from AX2012 and D365 now deprecated

New policies for defining rules of consolidation
Mobile menu options

- Manually group Work Ids to pick in sequence
- Group Work Ids based on shared value, i.e. by work order, or by Work pool and pick in sequence
- Cluster pick – pick multiple orders simultaneously stopping at each location once for total qty required of the item
Replenishment consolidation

- Min/max replenishment
- Wave and Load Demand based replenishment
- Immediate replenishment
Demo

- Automatic consolidation review
- Demo of manual consolidation from Shipments
- Demo of mobile menu consolidation of picking
  - System grouping scanning order to pick multiple work ids
  - Show cluster picking example
Recap

Align planning with Vendor and Production capacities for physical and time constraints

Eliminate multiple touches of the same inventory

Consolidate demand wherever possible to reduce transport costs and lead times
Questions?
Thank you!

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