

The Largest Independent Gathering
of the Microsoft User Ecosystem

What's new in Warehouse Management

Decrease Complexities,
Deliver Results.

@ 2022 Dynamic Communities

 **COMMUNITY
SUMMIT**
For Users, By Users



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About Me



Director of Solution
Architecture at
Argano



11 years Dynamics
experience

- Dynamics AX 2009 & 2012
- Dynamics 365 Finance and Supply Chain



Background in
Chemical Engineering



3-time Fast Track
Recognized Solution
Architect



Experience in variety
of industries

- Chemical
- Service
- Transportation
- Medical
- Aerospace
- Assemble to Order

2022/2023
INNERCIRCLE
for Microsoft Business Applications

Winner

Microsoft Partner
2022 U.S. Partner of the Year
Dynamics 365 Finance Award



By the Numbers

270+ Resources	8 US, UA, UK, DK, CA, AU	10 Arbela D365 Products	21 Languages Spoken	30 Nationalities
26,000+ Seats of Dynamics	85+ D365 Subscriptions	30+ Azure Subscriptions	100+ Arbela IP Clients	83% Active on Licenses
4 Integrated Practices	11 Gold Certifications	500+ MS Exams Passed	4 X as a Service	3 Countries for CSP

Industry

Manufacturing	Life Sciences	Financial Services	Distribution
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Products

ERP CENTRIC	Audit & Security Manager	Master Data Centralization	CRM CENTRIC	CX Connect	Safe Screen
	Data Insights	Workflow Manager		Revenue Forecasting	Duplicate Contact Manager
	One Step Consolidation	Safe Screen		Data Insights	Report Scheduler

Microsoft
Partner



Gold Application Development
Gold Application Integration
Gold Cloud Business Applications
Gold Cloud Platform
Gold Cloud Productivity
Gold Data Analytics
Gold Data Platform
Gold Datacenter
Gold Enterprise Resource Planning
Gold Security
Gold Small and Midmarket Cloud Solutions

| Agenda

- New features released in 2022
- Upcoming features on road-map
- Demonstrations of select features

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Features released in 2022



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Main Warehouse Features From ~ 2022



Quality checks in Work

Packing work for picking station

GSI barcodes

Material handling equipment interface

Inventory visibility add-in

Warehouse mobile lookup

Outbound workload visualization

Round quantity down to nearest sales unit on release to warehouse

Quality Checks in Work

Allows for quick spot checks for quality at the inbound dock

Guides workers to review materials before put-away step for inbound items

- Recorded as pass/fail on mobile device
- If pass, material is accepted and put-away is completed
- If fail, put-away work is redirected to QA location and Quality order is created for further inspection

Work templates

Work order type

Purchase orders

Overview General

✓	Sequence num...	Work template	Work template description	Valid	Automatically ...	Work pool ID	Work priority
	0	25 PO Direct	25 PO Direct	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0
	1	61 PO Direct	61 PO Direct	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0
✓	2	51 PO Receipt	51 POReceipt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	▼	0
	3	62 PO Direct	62 PO Direct	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0
	4	63 PO Direct	63 PO Direct	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0
	5	24 PO Receipt	24 PO Receipt	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0

Work Template Details

+ New Delete Move up Move down Work line breaks

✓	Line number	Work type	Custom work type	Mandatory	Stop work	Freeze	Directive code	Work class ID	Quality check template na...
	1.0000000000	Pick		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Purchase	
	2.0000000000	Quality check	▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Purchase	▼ Visual ▼
	3.0000000000	Put		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Purchase	

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Work templates

Work order type

Quality in quality check

Overview **General**

✓	Sequence num...	Work template	Work template description	Valid	Automatically ...	Work pool ID	Work priority
	1	51 Quality Check	51 Quality Check	✓			0

Work Template Details

+ New Delete Move up Move down Work line breaks

✓	Line number	Work type	Custom work type	Mandatory	Stop work	Freeze	Directive code	Work class ID	Quality check template na...
	1.0000000000	Pick		✓				QC Check	
	2.0000000000	Put		✓				QC Check	

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Packing Work for Picking Station

New type of work for managing packing containers

Supports partial shipments of containers related to loads where items remain unpacked

Turn on using Feature management

Confirm and transfer

Packing work for packing stations

Must set Allow load split during ship confirm to Yes

GS1 bar codes are a global standard for the exchange of data between companies

- Linear and 2D barcode support for data scanning

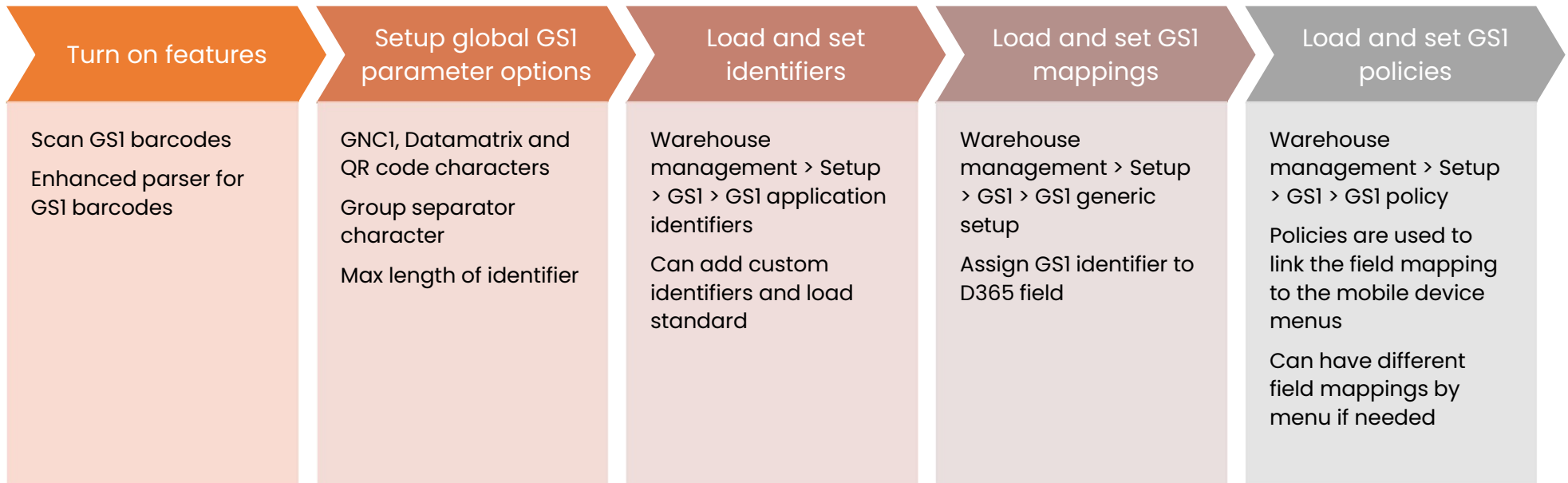
Encode the data and utilize application identifiers to define the meaning

- Single barcode can capture multiple types of data, such as item and batch
- Standardized prefixes so multiple companies can use the same barcode for single-scan solution

Simplifies the scanning process in warehouses where pallets or items are identified using GS1 barcodes

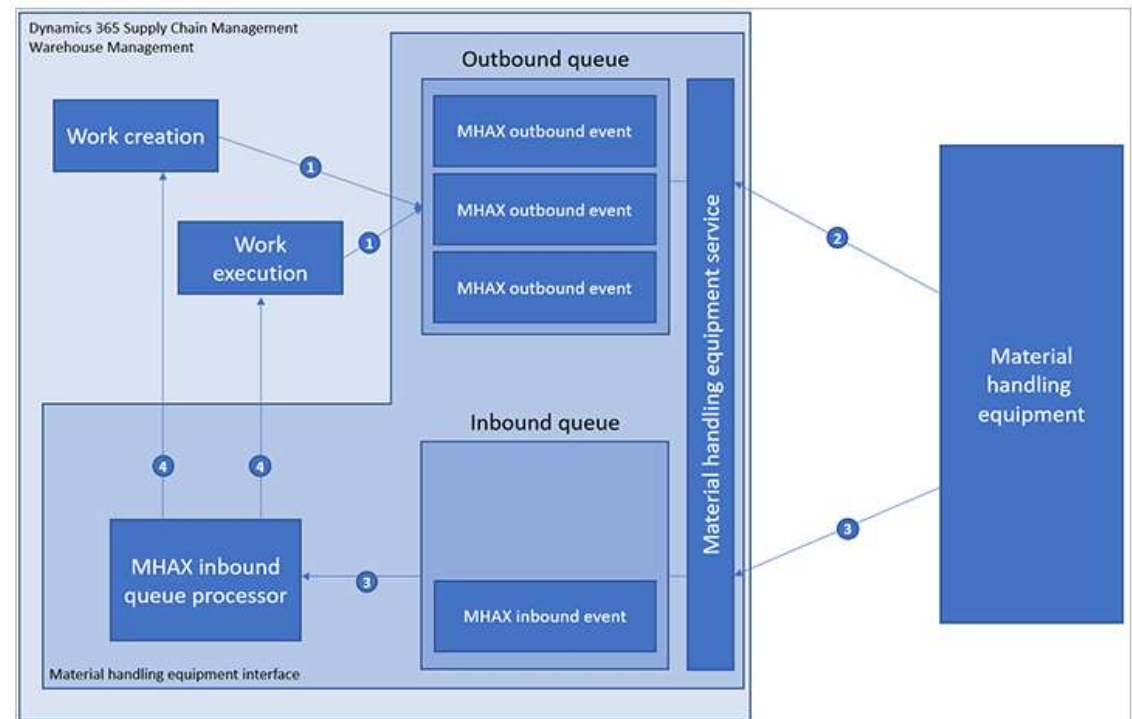
- A single scan can populate multiple fields within a workflow

GS1 Barcode Setup



Material Handling Equipment Interface

- Ability to connect with external handling equipment for creation and completion of work
- Out of the box APIs with configurable mapping for work completion and creation



Inventory Visibility Add-In

Allows for web API calls to obtain on-hand near-real time inventory quantities

- Batch job setup in D365 to refresh Dataverse every minute with updates to inventory levels

API call can request specific item, warehouse, location, batch information

- Add-in run via Power App where specific dimensions and groups can be setup for use

API security using Bearer tokens with Azure AD

Feedback provided in JSON message to requestor

- Includes on-hand, available, and reservation details
- Summations based upon setup in Power App

Enable Inventory Visibility



LCS

- Deploy Power Platform for environment with Dual-write
- Deploy the Inventory Visibility Power Platform Add-in
 - Must have the Azure API key that the API will use at the time of deployment

Power App setup










- Set product index hierarchy and dimension grouping sets
 - Allows for filtering of data based upon product index hierarchy
 - Grouping sets display information based upon requested dimensions
- Enable applicable Feature sets based upon use
 - Advanced WHS, OnHand Reservations, Allocations, ATP
- Verify connections and update configurations with API Key and Secret

D365 setup

- Inventory visibility integration parameters
 - API end point
 - Reservation offset
 - WHS item integration
 - Max records responses
- Initialize the export batch jobs

Apps

Apps Component libraries

 Name	Modified
 Sales Hub	... 1 mo ago
 Inventory Visibility	... 2 mo ago
 CRM Hub	... 2 mo ago
Omnichannel Administration	... 2 mo ago
 Customer Service workspace	... 2 mo ago
 Omnichannel admin center	... 2 mo ago
 Customer Service Hub	... 2 mo ago
 Customer Service admin center	... 2 mo ago
 Dynamics 365 App for Outlook	... 2 mo ago

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Inventory Visibility Configuration

Product Index Hierarchy

Data Source

Calculated Measure

Soft Reservation


ATP Setting

Allocation

Feature Management

Set Product Index Hierarchy

Partition	Dimension	Hierarchy ↑
	SiteId	1
	LocationId	2

Set Number	Dimension	Hierarchy ↑	
1	WMSLocationId	1	Edit Delete
1	BatchId	2	Edit Delete

[+](#) Add

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Standard view ▾

Inventory Visibility integration parameters

General

Set up Inventory Visibility integration

Reservation offset	Inventory Visibility endpoint	Maximum number of records in a sing...	Resync before initial push.
Enable WHS Items	<input type="text" value="https://inventoryservice.eus-il10..."/>	<input type="text" value="512"/>	<input checked="" type="checkbox"/> No

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Warehouse mobile lookup

New feature in 10.0.30 (planned)

- Allow for data inquiry by workers instead of manual data entry

Possible scenarios

- Barcodes are damaged or missing
- Vendor does not provide barcodes
- Manual entry needed in process flow

Admin configure the mobile device menu item

- Provides a card view so user can select instead of type
- Worker can use wildcards to search for information
 - EX: Partial vendor name to find POs

Round Quantity Down for Sales Work

Feature that became
mandatory with
10.0.29

When enabled restricts order quantities on release to warehouse for sales orders

- Rounds quantities down to the nearest whole sales UOM
- Orders for less than a whole sales UOM are rejected at release
- Setup on the released product

Demonstrations

- Quality checks in work
- GS1 barcodes
- Warehouse mobile lookup
- Packing work for containers

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Questions?



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Survey



**Thank you for
attending!**

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