
Microsoft Dynamics AX

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Introduction

The following information provides descriptions about many of the features that will be available in the upgrade of Process industries for Microsoft Dynamics® AX 2009 to Microsoft Dynamics® AX 2012 Process Manufacturing Production and Logistics.

Disclaimer: This document provides a high-level summary of the features that have been implemented in Microsoft Dynamics® AX 2012 Process Manufacturing Production and Logistics. It is intended for internal employees, partners, and select customers. Familiarity with Microsoft Dynamics AX or other business management software is assumed. This is an early snapshot of the feature set and is subject to change without notice.

Refer here for module and feature information for Process Manufacturing Production and Logistics:

[Process Manufacturing Production and Logistics upgrade](#)

[Product information management](#)

[Inventory and warehouse management](#)

[Procurement and sourcing](#)

[Sales and marketing](#)

[Production control](#)

[Reporting](#)

Process Manufacturing Production and Logistics upgrade

Process Manufacturing Production and Logistics incorporates new and enhanced functionality that improves various manufacturing and distribution processes in Product information management, Inventory and warehouse management, Quality management, Production control, Reporting, and other areas of business.

This release also accommodates the upgrade to the new user interface and includes features and enhancements implemented in Microsoft Dynamics AX 2012.

Product information management

Products and product variants

Products and product variants (previously called items and item dimensions) now originate at the enterprise level and are then released to the company level, where they can be further maintained. If you choose to create a product at the company level, the system creates the product in the enterprise level and then immediately releases that product to the company where it originated.

Product variants, on the other hand, can only be created at the enterprise level. Storage and tracking dimensions (previously part of the item dimension group) can be maintained at the enterprise level and then released to the companies for enterprise-wide consistency, or they can be maintained uniquely at the company level.

To accommodate these changes, the size, color, and configuration dimensions in the Item dimension group definition have moved to the enterprise level and are now called Product dimension group.

Released products

Specific functions are included in the new Released products list page and Released product details form for Process Manufacturing Production and Logistics.

New product type

Product type (previously called Item type) is no longer used to configure a product as being either manufactured or purchased. It is now used to identify whether a product is a physical item that can be stocked, or a service item.

Because product type no longer determines how an item is acquired, a new default order type is introduced for products at the company level. This default order type is used to determine replenishment needs when it cannot be determined by other means, such as through item coverage settings. For more information about the default order type, see the [Inventory and warehouse management section](#).

In conjunction with the product type changes, prior limitations pertaining to purchased products are removed. Products may have formulas, BOMs, and routes even if the products are not normally produced. It is also no longer necessary to delete a formula version if a product that is usually produced is changed to purchased.

New production type

Production type replaces Product type to accommodate the change in how product type is used in Process Manufacturing Production and Logistics. Production type works functionally the same as product type in prior releases. The new production types are described below:

- Co-product — Activates the Planning formula field (previously called Planning item) for selecting the formula or planning item to use to initiate a planned order for the co-product when a replenishment order is needed.
- By-product — Identifies the product as a by-product item, which can contribute burden to the cost of production.
- Planning item — Identifies the group of co-products and/or by-products that will be grouped together for planning and costing purposes.
- BOM and Formula items — Indicates the type of production that will produce these types of items. In prior releases, these two settings were included in the Item type option, which is now called Product type.
- None — Indicates that the product is none of the above. This setting remains the default setting.

Apply product template

A product definition no longer needs to be created for each product to be released to a company. You can now release multiple products, including product variants, to multiple companies.

Once a product is released to the legal entity, you can use the Apply template feature to copy the data values in the template to a new product or to multiple products. For Process Manufacturing Production and Logistics, certain values will not copy to the new product, but must be added to the product based on the actual setup criteria. These values are catch weight item, restricted material, regulated material, and reportable material.

If values applied to a product change the original Production type for the product, then any existing versions of that product are removed and the Planning formula field is cleared.

In this release, you can create templates using the Create personal template and Create shared template buttons in the Templates action pane located in the ribbon area of the Released products list page.

Containerized packaging

Containerized packaging has been enhanced in Process Manufacturing Production and Logistics. This feature allows batch orders for a packed product to be consolidated with similar packed products and a parent bulk product. Consolidated order forms have been updated to reflect UI changes. Other changes are described in the table below.

Feature	Description of change
Consolidated on-hand	This form replaces the Bulk/Pack On-hand form from AX 2009. The new Bulk product tab contains a dimensions display that includes configuration, size, and color. This tab does not contain storage and tracking dimensions, as those dimensions apply only to packed products. The Packed product tab contains site, warehouse, location, pallet ID, configuration, size, color, batch number, and serial number.
Bulk product conversion	Bulk item conversion is renamed Bulk product conversion in this release. The Bulk product conversion setup form and details form are available only for items of Production type Formula. The form is updated with new unit conversion methodology.
Consolidated orders list page	From the Consolidated orders list page, you can create new consolidated orders. You can also double-click an existing consolidated order to go directly to the Consolidated order details form, where you can then add batch orders to it.
Consolidated order details	When you double-click a batch order in this form, the Batch order details form opens for you to maintain the batch order.
Firm consolidated orders	The Firm consolidated orders form is updated to reflect the new UI changes. Other changes include the following: • The Make Qty field is now titled Adjusted quantity. • Adjusted quantity has been added to the Bulk orders grid. • The required (Req) quantity field is updated based on changes to Adjusted quantity only after the consolidated order is selected and firmed. Once firmed, the Adjusted quantity is available to use as the Batch order quantity.

Catch weight products

In Process Manufacturing Production and Logistics, catch weight products originate at the enterprise level like all other new products. However, the specific setup variables for a new catch weight product are configured at the company level. Once the product is released to the company, the catch weight nominal weight, units of measure, and other variables are defined and maintained for the product. The following changes have been made to catch weight functionality for this release:

- A catch weight product check box has been added to the Released product details form and the Create product form. You select this check box to indicate that a new product is a catch-weight product. Once a catch weight product is released to companies, you cannot clear the check box setting unless all companies using the catch weight product have deleted it. Conversion to the catch weight unit of measure is calculated at the enterprise level.
- Various catch weight fields are available on the Manage inventory fast tab in the Released product details form. If the catch weight item check box is selected, the catch weight unit and minimum and maximum quantities are enterable. Once a catch weight unit is entered, it can be modified, but not removed from the product. If either the inventory unit of measure or

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