Products

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Products are the definition of a part/material usually corresponding to part numbers in an ERP system.

However, sometimes it is desirable to make Eyelit MES products more “generic” than ERP part numbers.

For example, if you make a single product which can be packaged in three different languages, this may be represented by three part numbers in an ERP system.

If you are only recording actual labour hours vs standard, and the language on the product label does not impact the manufacturing process at all, you may choose to create a generic language-independent product in Eyelit MES. This reduces the number of products that need to be maintain.

Products may be:

- Made or purchased.
- Serialised or non-serialised.

If a product is manufactured it will have one or more workflows defined.

Products may have a bill of materials (BOM) that contains other products (see Bill of Material).

The following needs to be configured before you can create a product:

- A Product Type.
- A Product Group is required so that the product can be assigned to it.

Product Type

The Product Type is a group of products that share common attributes such as the quality checks that are performed. Products that you create must be assigned to a Product Type.

A product can belong to just a single Product Type. For example, a medical device manufacturer produces orthopaedic hips and knees in many sizes. In this case the Product Types are hips and knees and each size would be represented by different products.

Create a Product Type

1. Navigate to the **Products** screen and click the **Product Types** button.
2. In the **Product Types** screen that opens, click **New**.
3. Provide a name (mandatory) and a description (optional).
4. Click **Save**.

Product Groups

Products may belong to one or more groups. These groups are used solely for reporting, for example to allow you to show all the failures for all the products in a particular product range, or all the products supplier to a particular customer.

Create a Product Group

1. Navigate to the **Product Groups** page.
2. Click new and add a name for the Product Group.
3. Add a product by selecting the group and clicking the **Assign New** button and selecting the product.

Create a product

1. Navigate to the **Products** page and click **New**.
2. Complete the input screen.

New/Edit Product form

The product creation/edit pop up contains the following items:

Blue fields in the form are required and are flagged with an asterisk (*) in this document.

Product Type*: The Product Type this product is assigned to.

SUID*: an external-facing identifier which is typically used to map an object in Eyelit MES with a third-party system. Alphanumeric and special characters are accepted.

Name*: The name of the product.

Description: The product description.

Version*: A version indicates the current design revision of a product. Default: 1.

Base Unit*: The default unit of measure for recording inventory of the product. For example, EA (each), KG (kilograms). Alternative units of measure may be defined for a product (with conversion factors) but only one unit is the base unit of measure.

Cost Per Unit*: The standard cost of a single base unit of the product.

Currency*: GBP, USD, EUR

Ownership*: Indicates if a product is internal-owned or if it's owned by a customer/supplier.

Default Batch Size*: The default batch size, e.g., the default is to make 100kg of this product at a time or 100 units at a time.

Receipt Profile*: This applies to a product that is received from an external source and it is the profile that will be used when taking receipt (i.e., which details are to be displayed or entered). For example, an expiry date.

Serial range: Determines how serial numbers are allocated to new lots/items. You can:

- Leave blank: user will be prompted to input a serial number manually on item creation/receipt.
- Select [Schedule Job Specified]: the serial number(s) to use will be specified in advance against the works order.
- Select a range that will generate an incrementing number from a predefined stack.

Receipt Recipe*: This field only shows in the **Edit Product** screen. Leads you to the workflow that will be executed for incoming inspection. If you receive an item and this field is configured, it will immediately start a task for that workflow upon receipt. You receive the item then you create a repair job against it which. The start will always be *Start Scheduled Existing*.

Location*: This field only shows in the **New Product** screen. Indicates the default location for the product. When you generate an item for that product, that's where it's automatically assigned to. The default location can be changed via the **Stock Locations** button.

Min Schedule Batch Size: The minimum batch size that will be automatically scheduled by MRP.

Max Schedule Batch Size: The maximum batch size that will be automatically scheduled by MRP.

Schedule Batch Increment: The increment in batch size that will be scheduled by the MRP if the demand is greater than the Min Schedule Batch Size.

Pegging Expiry Days: When planning using APS software, it's the amount of time a product is considered as available to use after the planned completion date, i.e., when do we plan for this to expire.

Shelf Life Days: The default life, in days, of a product. This doesn't automatically set an expiry date but is used in custom configuration to set the expiry date. For example:

- A fresh food manufacturer may want to set the expiry based on the time something came out of an oven, not when the product was completed.
- A manufacturer may need the expiry to be based on the completion of the workflow, or the start of the workflow.

This setting does not impact APS or Eyelit MES unless custom work is added.

Inventory Qty Decimal Places: The number of decimal places that quantities are specified in.

Planning constraint checkbox: This is only relevant if you are using the APS module. It is used to determine whether this product will be considered a constraint when doing finite capacity planning.

Product is active checkbox: A checkbox that indicates if a product is actively in use vs pending/obsolete.

Copy

You can create a new product by copying an existing product. You have control over which related workflows, BoMs and recipes are copied to the newly created product.

1. Navigate to the **Products** page and select the product you want to copy.
2. Click the **Copy** button.
3. Complete the **Product Copy** pop-up.
   a. SUID (mandatory)
   b. **Name** (mandatory): The name of the new product you are creating.
   c. **Description**: A description for the product.
   d. **Copy Mode**: Determines what gets copied over to the new product. Options:
      i. **None**: No workflow, BoM, or recipe is copied.
      ii. **All**: All workflow, BoM and recipes are copied.
      iii. **All Approved**: Copy all approved workflows and BoMs even if they are not linked to an approved recipe.
      iv. **All Required By The Approved Recipe**: Only copy those workflows and BoMs that are needed for approved recipes.

Specifications

Product specifications define acceptance criteria for products. For more information, see the documentation on Link to the Product Specifications documentation.

Customer / Supplier

There could be more than one supplier / customer for a product. In the products screen you can manage multiple customers/suppliers and set a default for each.

1. Navigate to the **Products** screen, select a product and click the **Customer / Supplier** button to display the **Customers / Suppliers** pop-up.

2. Click the **New** button to display the **Assign Customer / Supplier** input screen.

Add/Edit Customer/Supplier input screen

Blue fields in the form are required and are flagged with an asterisk (*) in this document.

- **Type***: Type is either a customer or a supplier.
- **Organisation***: Select the organisation.
- **Third Party Part Number***: Part number as defined by the customer / supplier.
- **Default Price**: Default price of the product.
- **Currency**: Currency of the price of the product.
- **Minimum Order Qty**: Minimum qty per order if it is applicable.
- **Comments**: Leave a comment.
- **Lead Time**: The amount of time from the order being placed and receiving the item.