Recipes

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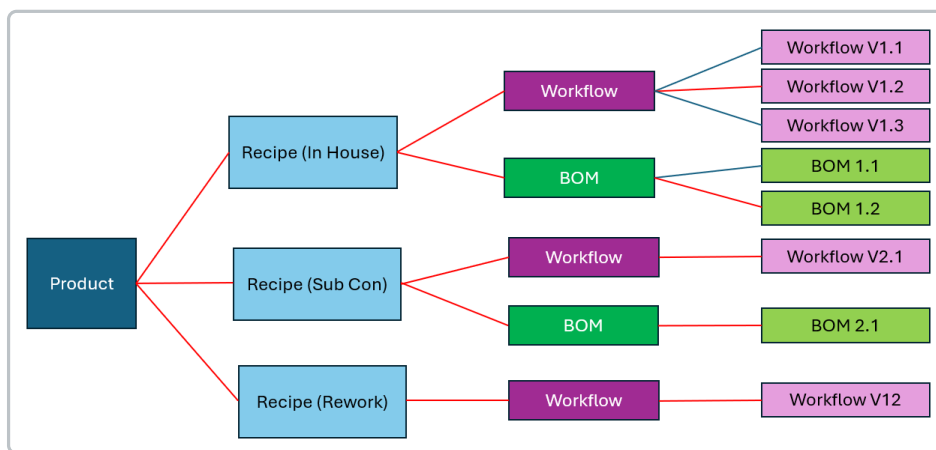
Recipes define a valid combination of workflow and Bill of Materials (BoM) or a valid workflow without a BoM. The recipe is what links a workflow and BoM to a product. Without a recipe, the workflow and BoM cannot be used.

You can only create an order for a valid workflow/BoM combination, as defined by an approved recipe.

When you create a spawned task from the shopfloor, you can only create this for a workflow and BoM combination (if one exists), as defined by an approved recipe.

The image below shows the relationships between a product and its recipes, workflows and BoMs. The red lines show the workflow and BoM versions used by the product's recipes.

The relationships are:
- A product can have many recipes.
- A recipe can link to one workflow and one BoM (if one exists).
- Each workflow and each BoM can have multiple versions – a default/constraint can be set over which versions are used.

Recipe Controls

A recipe can only be used if all of the following are true:
- There is at least one workflow version referenced that is approved.
- Either no BoM is referenced or a BoM is referenced and there is at least one BoM version that is approved.
- The recipe itself is approved.

Create a New Recipe

The **New Recipe** pop-up can be accessed from the **Recipes** page which is available as a pop-up from the **Products** or **Workflows** screens (product pre-selected) or direct (product not pre-selected). These instructions will access the **Recipes** pop-up from the **Products** screen.

1. Navigate to the **Products** screen and search and select a product.

2. Click the **Recipes** button. The Recipes screen is displayed with just the existing recipes that are allowed for the selected product based on the product's workflow type.

3. Click the **New Recipe** button.

4. Complete the **New Recipe** input screen.

New Recipe input screen

The following properties can be defined:

Blue fields in the form are required and are flagged with an asterisk (*) in this document.
- **BoM**: It is possible to have a recipe that has no BoM but has just a workflow. This field is optional.
  - **BoM Search**: Type in part of the BoM to filter the BoM **Search** field based on your search term.
  - **Search***: List of BoMs filtered according to the search term provided in the **BoM Search** field.
  - **Version Control***: *Use the latest approved version* is the default.
- **Workflow**: A recipe will always have a workflow. This field is compulsory.
  - **Workflow Search**: Type in part of the workflow to filter the workflow **Search** field based on your search term.
  - **Search***: List of workflows filtered according to the search term provided in the **Workflow Search** field.
  - **Version Control***: *Use the latest approved version* is the default.
- **Name***: Key identifier for the recipe. This will be visible to select when you create a new works order.
- **SUID**: Useful where you are referencing an equivalent entity in ERP (e.g. production model in SAP).
- **Change Reference**: Development of new recipes is often controlled by a change management process, which is often managed within a specialist PLM system – the change reference can be stored here.
- **Default Product Version**: When you are using this recipe on a works order, this determines the default product version of the item that you are creating.
- **Description**: Can be useful additional information, especially where you have many recipes for one product.

Recipe Status

The allowed statuses for recipes are *Draft, Pending Virtual Test, Pre-production, Pending Approval, Approved* and *Obsolete*. For more information, refer to the Approval and Test Statuses documentation.

Each time you change the status of a recipe a system validation check is done on the workflow to ensure that from a system perspective there are no issues that make it functionally invalid (e.g. missing flows/invalid work centre groups).