Critical manufacturing
an ASM PT company

Tutorial: Floor Life and Expiration Date Propagation

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Tutorial: Floor Life and Expiration Date Propagation

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Objective

Learn how to configure and validate the propagation of floor life and expiration date during material operations, ensuring that the most critical material conditions are preserved throughout assembly.

Step 0: Validate Preconditions

Before executing propagation, ensure:

- Source materials have:
  - Floor Life defined
  - Expiration Date defined (if applicable)
- The relevant Product Revision has:
  - `SMTPropagateFloorLife = true` (if floor life propagation is required)
  - `SMTPropagateExpirationDate = true` (if expiration propagation is required)
- A valid **BOM** exists (for assembly scenarios)

Step 1: Configure Product for Propagation

- Navigate to the **Product** and enable:
  - `SMTPropagateFloorLife = true`
  - `SMTPropagateExpirationDate = true`

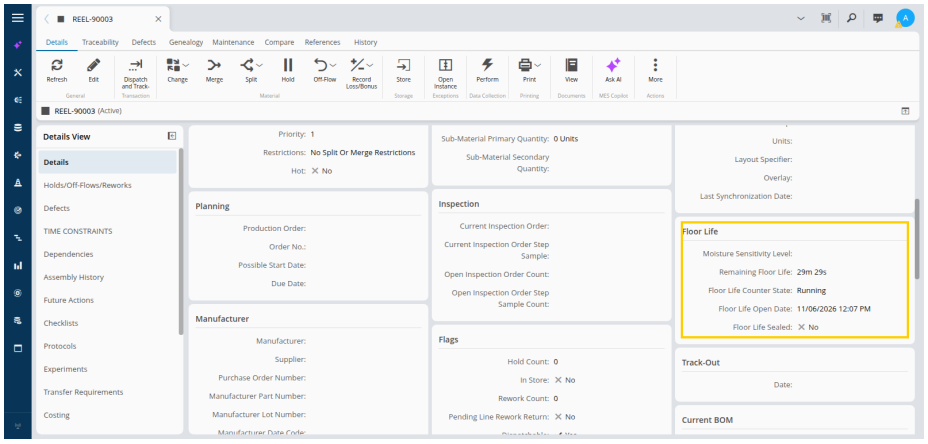
> This ensures that materials of this product, when consumed, will propagate these properties during assembly operations.

Step 2: Prepare Materials

2.1 Define Source Material Conditions

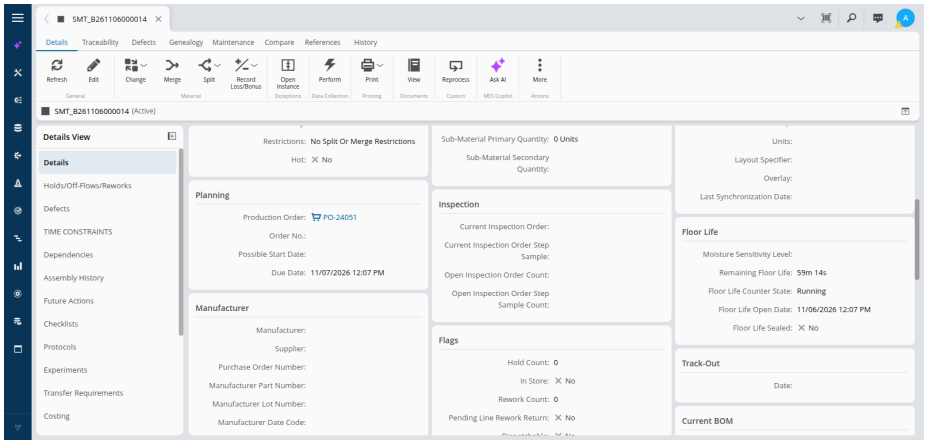
- Create or identify consumable materials
- The materials should have set:
  - A **floor life remaining time**
  - An **expiration date**

> Ensure at least one material is more critical (e.g., earlier expiration, lower remaining floor life)



2.2 Prepare Target Material

- Create or identify the target material (e.g., Board)
- Verify its current:
  - Floor life
  - Expiration date

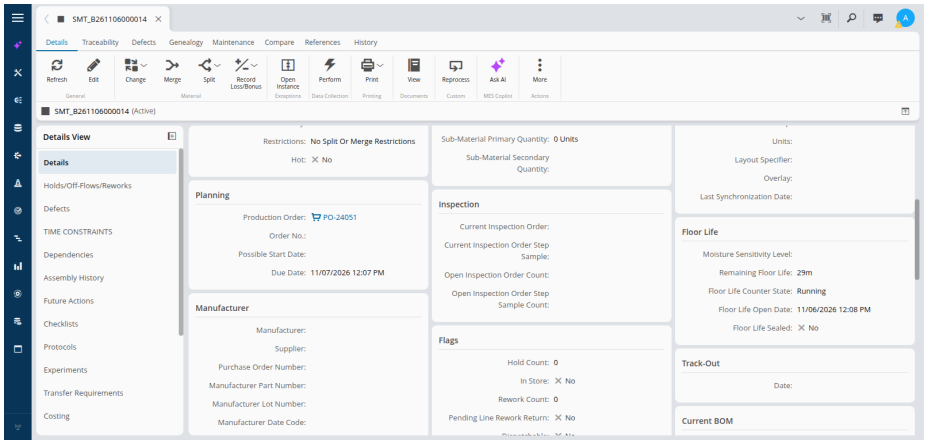


Step 3: Execute Assembly Operation

- Perform one of the supported operations:
  - Automatic Assemble Material (recommended for this scenario)
    (or any supported operation like Assemble, Combine, Compose)
- Ensure materials are correctly assembled and processed

Step 4: Validate Propagation

- After execution, open the **target material**
- Verify:
  - The **expiration date** is updated to the earliest from source materials
  - The **floor life remaining** reflects the lowest available value



Expected Result

- Target material inherits the most critical values:
  - Lowest floor life remaining
  - Earliest expiration date
- If the target already had more critical values:
  - No changes are applied

Frequent Configuration Questions

Why is no propagation occurring?

Check that the product attributes are correctly configured:

- `SMTPropagateFloorLife`
- `SMTPropagateExpirationDate`

Why is propagation only occurring partially?

Ensure that both attributes are enabled. Floor life and expiration date propagation are independent and must be configured separately.

Why is the target material not being updated?

The target material may already contain the most critical value. This is the expected behavior.

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