

Tutorial: Floor Life and Expiration Date Propagation

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DOCUMENT ACCESS

Public

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Tutorial: Floor Life and Expiration Date Propagation

Estimated time to read: 2 minutes

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`

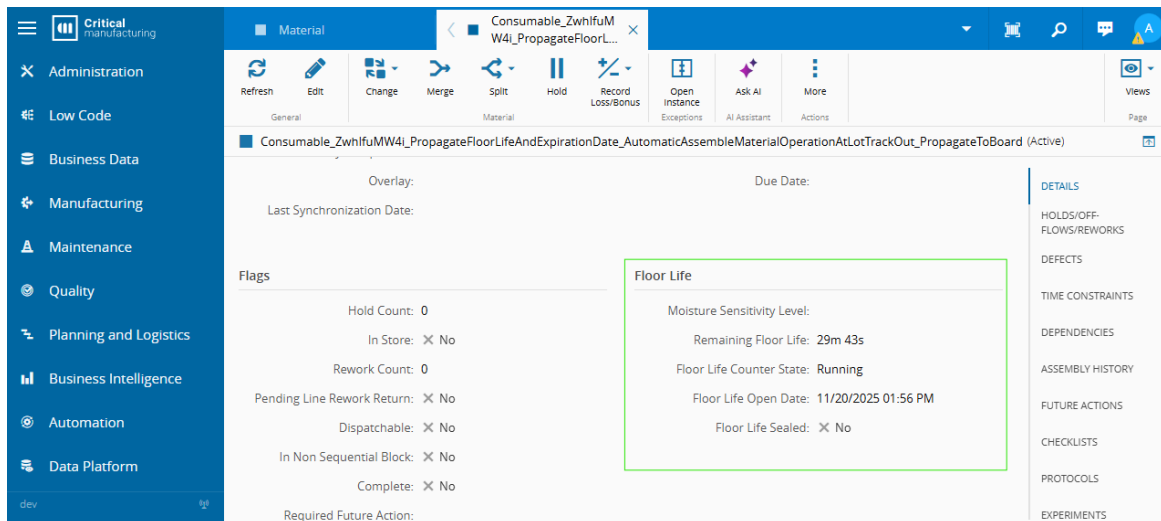
This ensures that materials of this product, when consumed, will propagate these properties during assembly operations.

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)



Material Consumable_ZwhifuMW4L_PropagateFloorLifeAndExpirationDate_AutomaticAssembleMaterialOperationAtLotTrackOut_PropagateToBoard (Active)

Refresh Edit Change Merge Split Hold Record Loss/Bonus Open Instance Ask AI More Views

General Material Exceptions AI Assistant Actions Page

Overlay: Due Date:

Last Synchronization Date:

Flags

Hold Count: 0

In Store: ☒ No

Rework Count: 0

Pending Line Rework Return: ☒ No

Dispatchable: ☒ No

In Non Sequential Block: ☒ No

Complete: ☒ No

Required Future Action:

Floor Life

Moisture Sensitivity Level:

Remaining Floor Life: 29m 43s

Floor Life Counter State: Running

Floor Life Open Date: 11/20/2025 01:56 PM

Floor Life Sealed: ☒ No

DETAILS

HOLDS/OFF-FLOWS/REWORKS

DEFECTS

TIME CONSTRAINTS

DEPENDENCIES

ASSEMBLY HISTORY

FUTURE ACTIONS

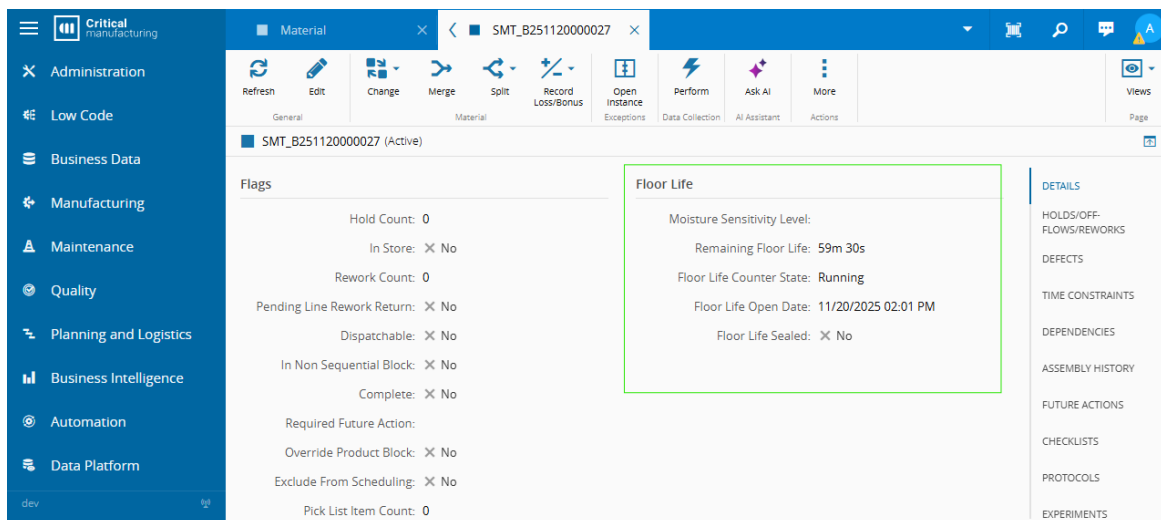
CHECKLISTS

PROTOCOLS

EXPERIMENTS

2.2 Prepare Target Material

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



Material SMT_B251120000027 (Active)

Refresh Edit Change Merge Split Hold Record Loss/Bonus Open Instance Perform Ask AI More Views

General Material Exceptions Data Collection AI Assistant Actions Page

Flags

Hold Count: 0

In Store: ☒ No

Rework Count: 0

Pending Line Rework Return: ☒ No

Dispatchable: ☒ No

In Non Sequential Block: ☒ No

Complete: ☒ No

Required Future Action:

Override Product Block: ☒ No

Exclude From Scheduling: ☒ No

Pick List Item Count: 0

Floor Life

Moisture Sensitivity Level:

Remaining Floor Life: 59m 30s

Floor Life Counter State: Running

Floor Life Open Date: 11/20/2025 02:01 PM

Floor Life Sealed: ☒ No

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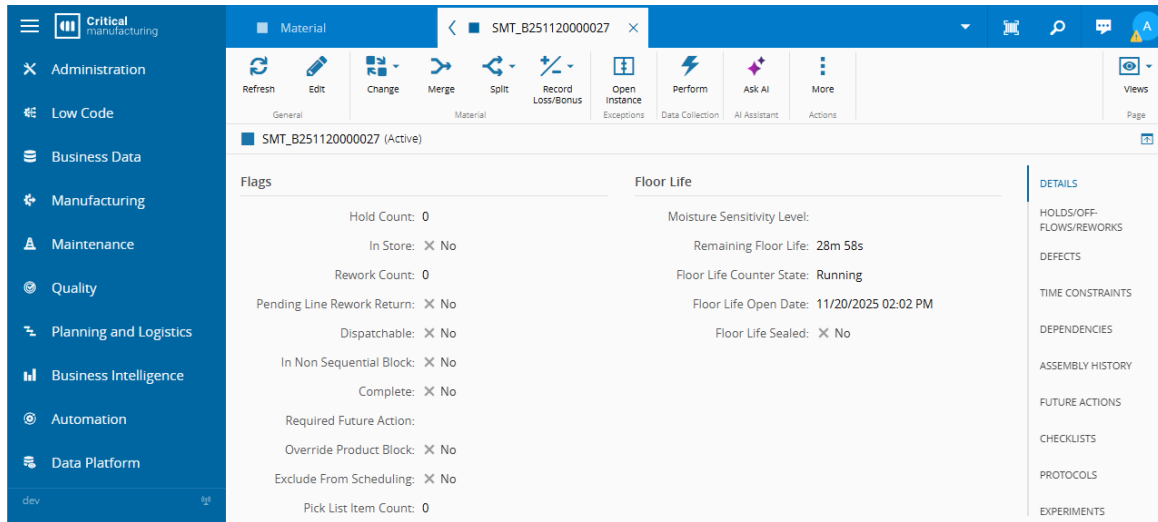
EXPERIMENTS

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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