Critical manufacturing
an ASM PT company

# Tutorial: Material Reprocess

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# Tutorial: Material Reprocess

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*Estimated time to read: 3 minutes*

## Objective

Learn how to configure and execute material reprocess.

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## Step 1: Configure Reprocess Behavior

- Go to system configuration
- Under `/SMT/MaterialTracking/ReprocessMaterials/`, set:
  - `AllowWizardlessReprocessOperation`
    - `false` (default): clicking Reprocess opens the wizard
    - `true`: clicking Reprocess executes the operation without the wizard
  - `AllowAutomaticTrackInAtProcessResource`
    - Sets the initial Automatic Track-In at Previous Resource choice (default `true`)

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## Step 2: Configure Reprocess Limits

- Configure the `SMTReprocessLimitContext` Smart Table to define the maximum **number of reprocesses** allowed

> **Note**
>
> The initial processing pass is not counted. A limit of `0` allows initial processing but blocks any reprocess.

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## Step 3: Grant Permission

- Make sure the operator has access to `SMT.PerformMaterialReprocess`

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## Step 4: Select the Material

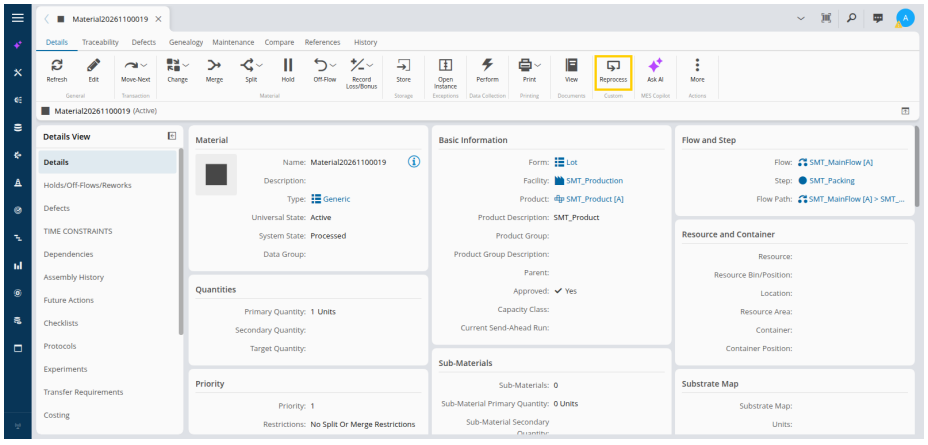
- Use one of the following views:
  - **Material** entity page: open the Material
  - **Resource** entity page > Views > **Dispatch View**: select exactly one Material in the Dispatch List or Materials at Resource
  - **Step** entity page > Views > **Step View**: select exactly one Material in the Step Materials list

The Material must be in the `Queued` or `Processed` state and not be on hold.

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## Step 5: Start Reprocess

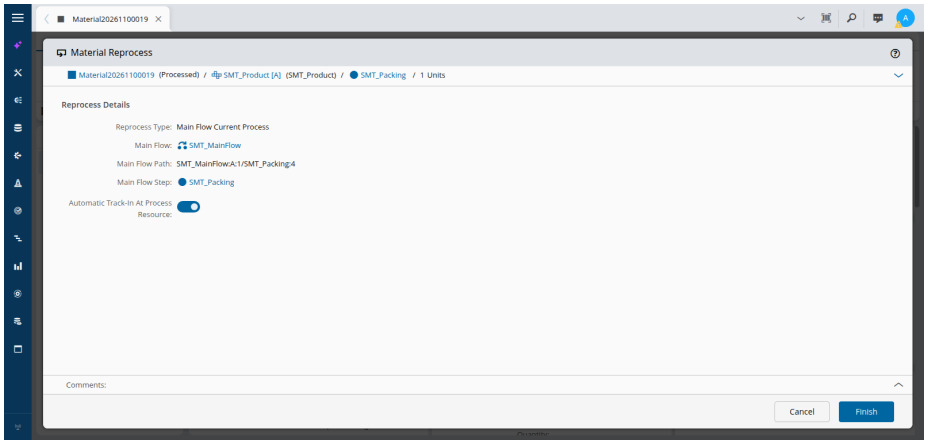
- Open the entity page view:
  - Click **Reprocess** in the action bar
    - If the wizardless operation is enabled, the operation runs now and the next step is skipped
    - If the wizardless operation is disabled, the wizard modal will pop-up




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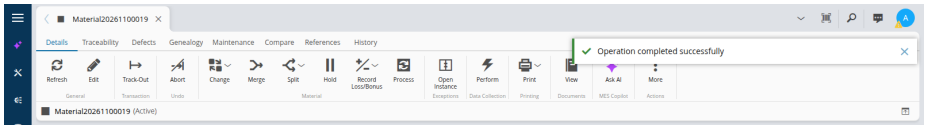
## Step 6: Review and Finish (Wizard)

- In the **Details** step, review the resolved **Reprocess Type** and routing information
- Set **Automatic Track-In At Process Resource** as required
- Click **Finish**




## Expected Result

- The Material is moved to the resolved main-flow or line-flow process
- If Automatic Track-In is enabled, the Material is tracked into the target process Resource
- If Automatic Track-In is disabled, the Material is routed but not tracked-in into the target process Resource
- Success or error feedback is displayed




## Frequent Configuration Questions

### Why is the Reprocess action not available?

Verify the following:

- The operator has access to `SMT.PerformMaterialReprocess`.

- Exactly one Material is selected.
- The Material state is `Queued` or `Processed` and it is not on hold.
- The Material complies with the configured reprocess limits.
- The last process Step of the Material is in its current main Flow or main Flow Line Flow.

### Why is the wizard not displayed?

`AllowWizardlessReprocessOperation` is set to `true`. Set it to `false` to display the wizard.

### Why can't I change the routing in the wizard?

The target routing is resolved automatically from the Material's latest execution history and current flow context. Only **Automatic Track-In At Process Resource** can be changed.

### Why was the Material not tracked in after reprocess?

Check that Automatic Track-In is enabled. If it is enabled, a valid target process Resource must exist, otherwise the operation is rejected with an error.

### Why is the Material blocked by the reprocess limit?

The number of reprocesses allowed in `SMTReprocessLimitContext` was reached. A limit of `0` blocks all reprocessing at the matched Step.

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