Tutorial: SMT Partial Track Out

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Tutorial: SMT Partial Track Out

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Estimated time to read: 3 minutes

Objective

Learn how to automatically detach sub-materials (e.g., panels) from a lot during line flow execution, allowing them to proceed independently without waiting for the entire lot to complete.

Step 0: Validate Preconditions

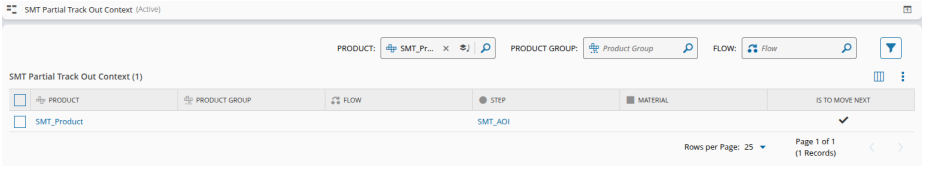
Before using Partial TrackOut, ensure:

- Feature is enabled:
  - `/SMT/MaterialPartialTrackOut/IsEnabled = True`
- You are working in a **Line Flow scenario** where:
  - A **lot (main material)** is in process
  - **Sub-materials (e.g., panels)** are processed in sub-resources

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Step 1: Configure Partial TrackOut Context

- Navigate to **Administration > Tables** and open **SMTPartialTrackOutContext**
- Add a new entry defining:
  - Product / Product Group
  - Flow / Step where Partial TrackOut applies



> This step is mandatory — without this configuration, the feature will not trigger.

Step 2: Prepare Line Flow Scenario

- Start a **lot (main material)** in a Line Flow
- Ensure:
  - The lot contains **sub-materials** (e.g., panels)
  - Sub-materials are processed in **sub-resources** within the line

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Step 3: Process Sub-Materials

- Move the lot through the Line Flow
- Process sub-materials (panels) individually through the steps

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Step 4: Execute Final Step of Line Flow

- When a sub-material reaches the **last step of the Line Flow**
- Perform **Track-Out** on the sub-material
- The system automatically:
  - Detaches the sub-material (panel) from the lot
  - Moves it to the **next step in the main flow**

> This happens automatically — no manual action is required.

Step 6: Validate Result

After Track-Out, verify:

Sub-Material (Panel)

- Has moved to the next step in the main flow

- Is now an independent **main material**

Lot (Original Main Material)

- Remains in the line flow
- Continues processing remaining sub-materials

Expected Result

- Sub-materials exit the line flow independently
- No need to wait for the full lot to complete
- Production flow becomes more efficient and continuous

Frequent Configuration Questions

Why is the sub-material not being detached?

Check that the `SMTPartialTrackOutContext` configuration is correctly defined and associated with the process.

Why is the feature not being triggered?

Verify that the feature is enabled by confirming that the `IsEnabled` setting is configured correctly.

Why does the material remain in the lot after Track-Out?

Ensure that the Track-Out operation is being performed at the correct step in the process flow.

Why am I experiencing unexpected behavior?

Confirm that the scenario is configured as a **Line Flow with sub-material processing**, as this feature is intended for that specific use case.

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