Critical manufacturing
an ASM PT company

Tutorial: SMT Partial Track Out

11.3

August 2026

DOCUMENT ACCESS

Public

Tutorial: SMT Partial Track Out

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

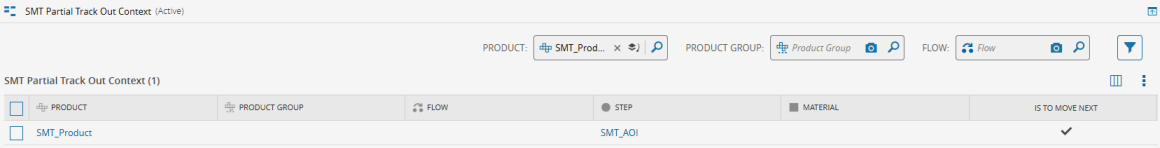
Before using Partial TrackOut, ensure:

- 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

---

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

Step 3: Process Sub-Materials

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

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.

Legal Information

Disclaimer

The information contained in this document represents the current view of Critical Manufacturing on the issues discussed as of the date of publication. Because Critical Manufacturing must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Critical Manufacturing, and Critical Manufacturing cannot guarantee the accuracy of any information presented after the date of publication. This document is for informational purposes only.

Critical Manufacturing makes no warranties, express, implied or statutory, as to the information herein contained.

Confidentiality Notice

All materials and information included herein are being provided by Critical Manufacturing to its Customer solely for Customer internal use for its business purposes. Critical Manufacturing retains all rights, titles, interests in and copyrights to the materials and information herein. The materials and information contained herein constitute confidential information of Critical Manufacturing and the Customer must not disclose or transfer by any means any of these materials or information, whether total or partial, to any third party without the prior explicit consent by Critical Manufacturing.

Copyright Information

All title and copyrights in and to the Software (including but not limited to any source code, binaries, designs, specifications, models, documents, layouts, images, photographs, animations, video, audio, music, text incorporated into the Software), the accompanying printed materials, and any copies of the Software, and any trademarks or service marks of Critical Manufacturing are owned by Critical Manufacturing unless explicitly stated otherwise. All title and intellectual property rights in and to the content that may be accessed through use of the Software is the property of the respective content owner and is protected by applicable copyright or other intellectual property laws and treaties.

Trademark Information

Critical Manufacturing is a registered trademark of Critical Manufacturing.

All other trademarks are property of their respective owners.