Critical manufacturing
an ASM PT company

Tutorial: Packing Process

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Tutorial: Packing Process

Estimated time to read: 3 minutes

Objective

Learn how to execute the full packing process, including creating containers, adding/removing materials, and finalizing containers for storage or shipment.

Step 0: Validate Preconditions

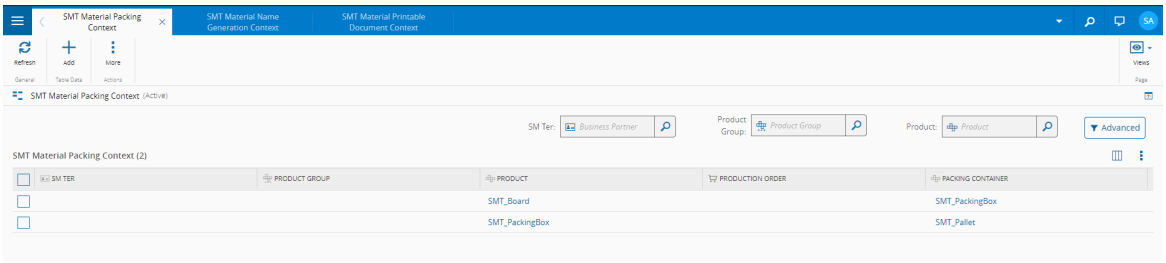
Before starting the packing process, ensure:

- Feature is enabled:
  - `/SMT/MaterialPacking/IsEnabled = True`
- The packing step has:
  - `IsPacking = True`
- Container product is configured with:
  - `IsPackingContainer = True`
- Materials to be packed:
  - Have a valid Flow Path
  - Are compatible (same product/context where required)

Step 1: Configure Packing Smart Tables

1.1 Configure Packing Context

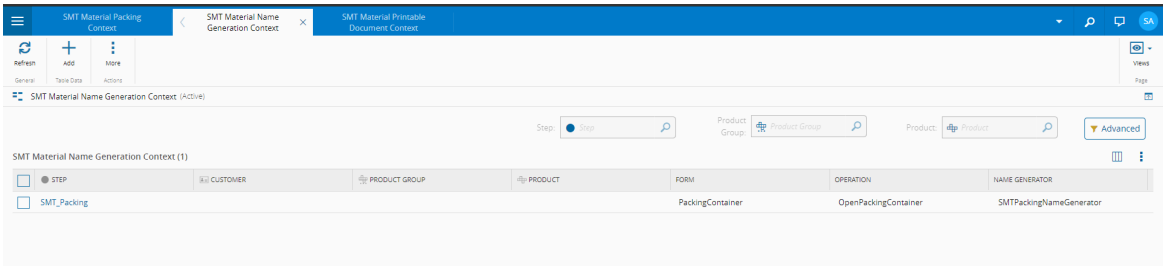
- Navigate to **Administration > Tables > Smart Tables**
- Open:
  - `SMTMaterialPackingContext`
- Define:
  - Product to be packed (e.g., Board)
  - Container Product (e.g., Packing Box)



> This defines allowed packing relationships (e.g., Board, then Box, then Pallet)

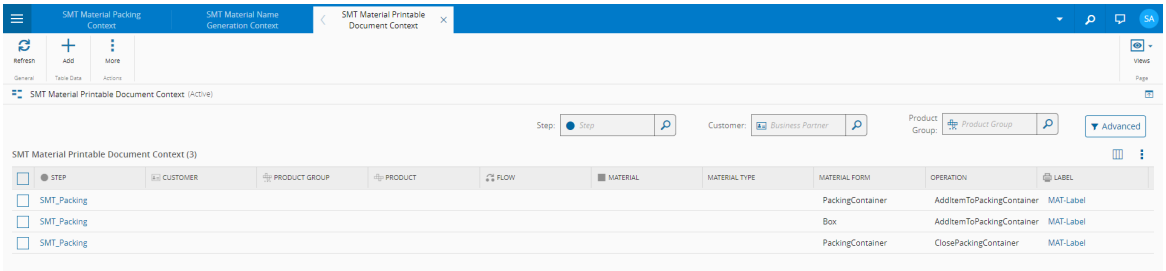
1.2 Configure Name Generation

- Open:
  - `SMTMaterialNameGenerationContext`
- Configure:
  - Step = Packing Step
  - Form = PackingContainer
  - Name Generator



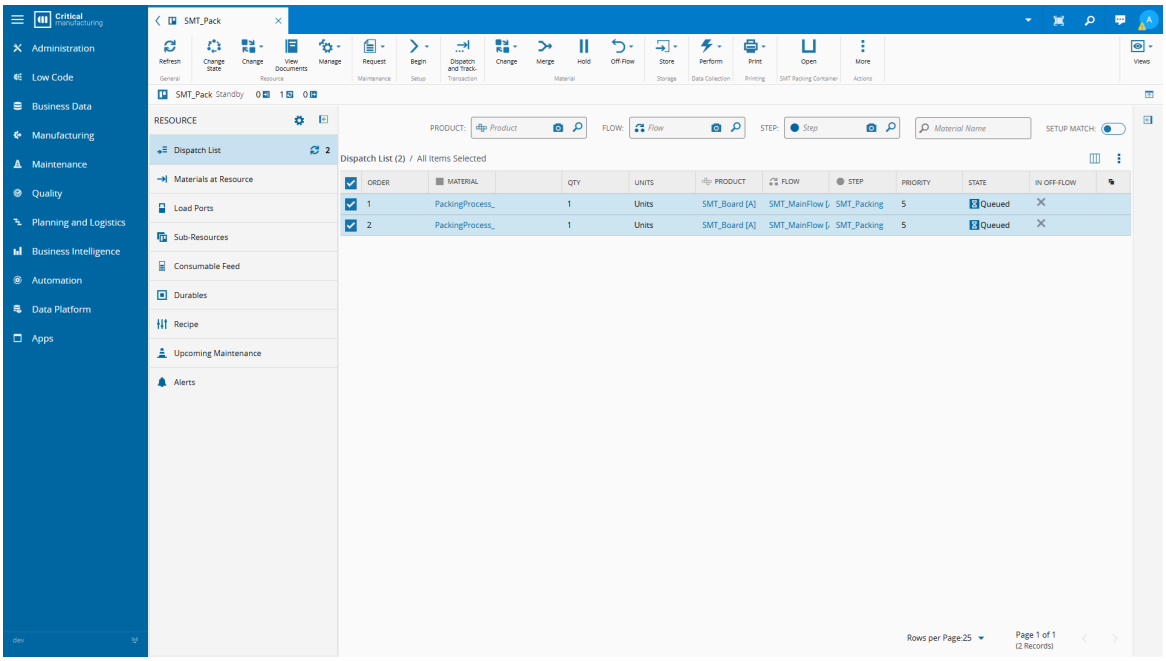
1.3 Configure Labels (Optional)

- Open:
  - `SMTMaterialPrintableDocumentContext`
- Configure labels for:
  - Open Container
  - Add Items
  - Close Container

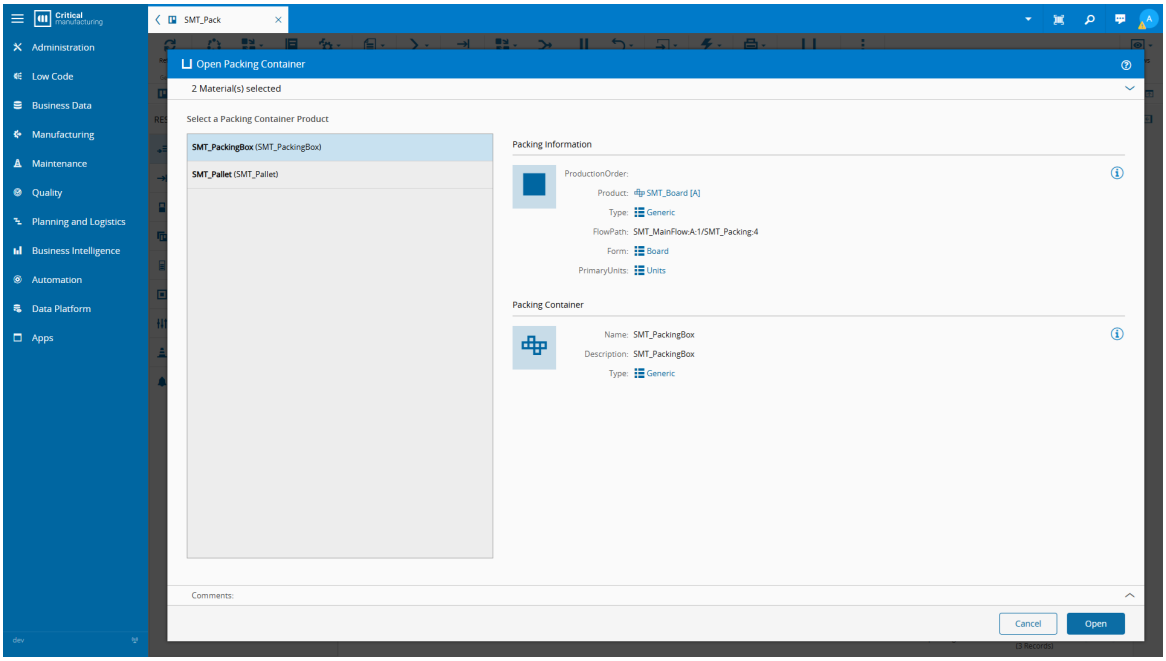


Step 2: Open Packing Container

- Navigate to **Resource View**
- Locate the material(s) to be packed and click **Open Container**



- Confirm the operation in the wizard

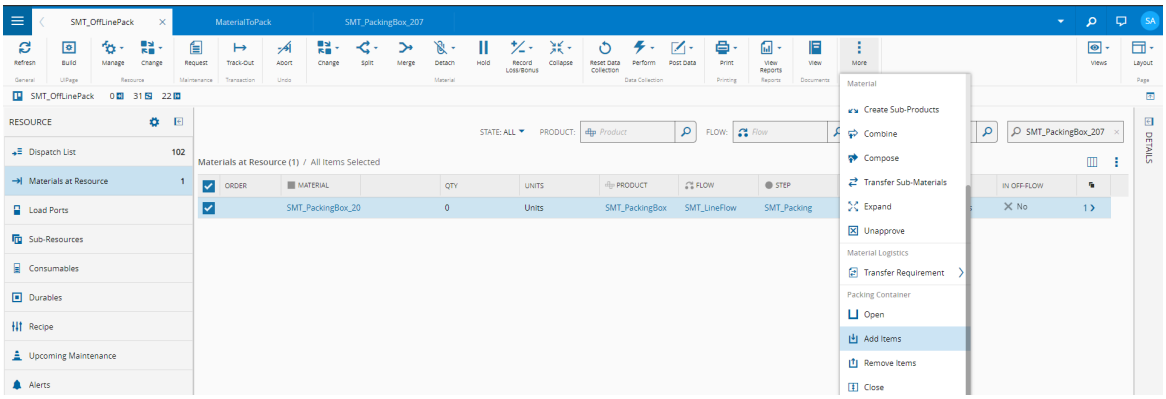


Result

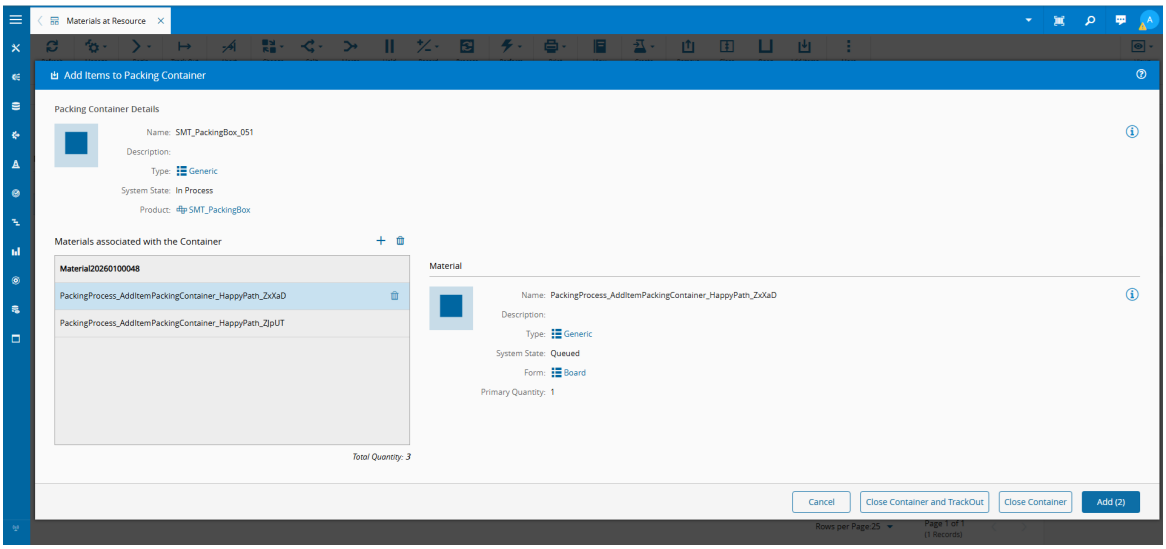
- A **Packing Container Material** is created
- Container state = **Open**
- Container is ready to receive materials

Step 3: Add Items to Container

- In **Resource View**, select the Packing Container and click **Add Items**



- In the wizard select or scan materials to add and confirm

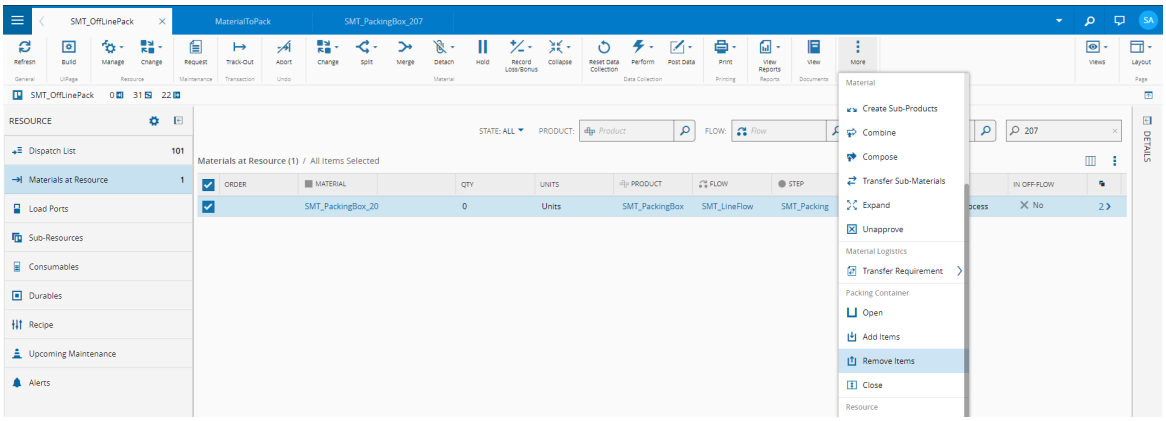


Result

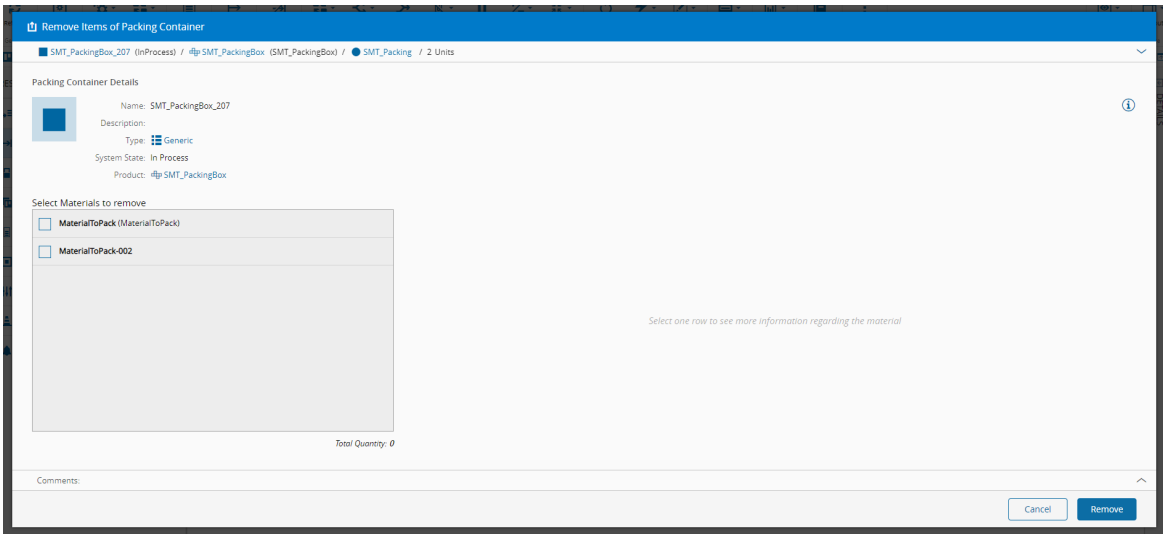
- Materials are added to the container
- Labels may be generated (if configured)
- Container contents are updated

Step 4 (Optional): Remove Items from Container

- Select the Packing Container and click **Remove Items**



- In the wizard select materials to remove and confirm

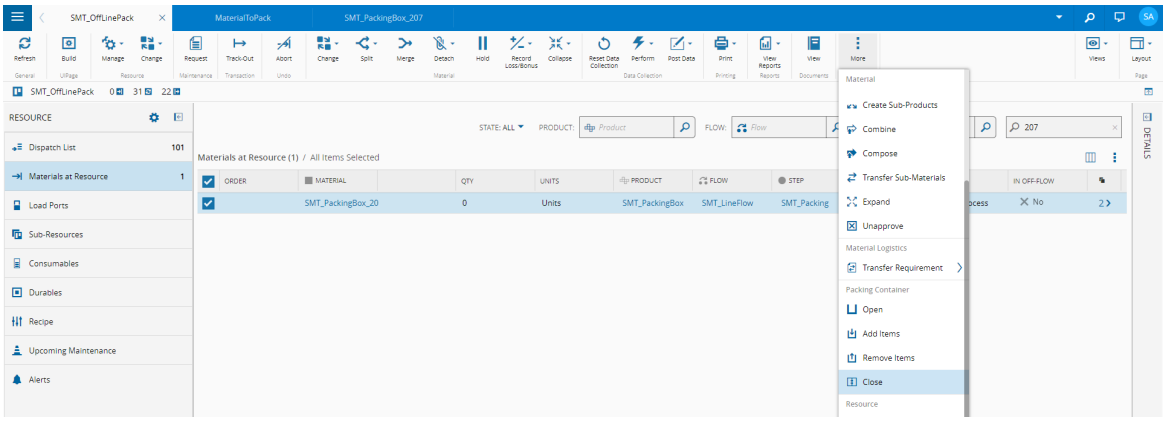


Result

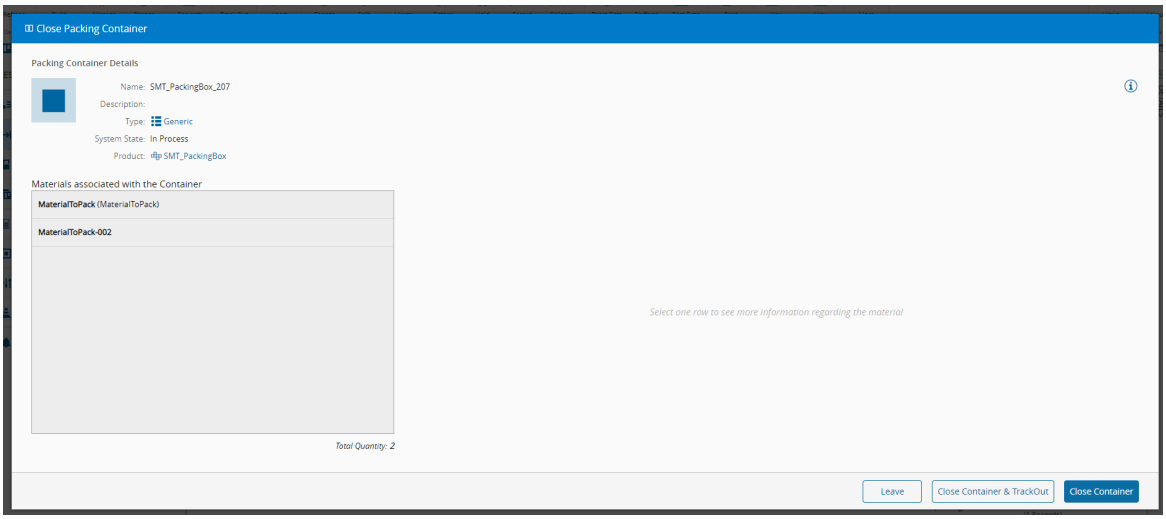
- Selected materials are removed
- Container may return to **Open** state if previously closed
- Materials are available again for packing

Step 5: Close Packing Container

- Select the Packing Container and click **Close**



- Review container details in the wizard and click **Close Container** or **Close & TrackOut**



Result

- Container state = **Closed**
- No further changes allowed
- Labels are printed (if configured)
- Container is moved to next step automatically when **Close & TrackOut** is selected

Expected Result

- Materials are grouped into packing containers
- Containers reflect correct hierarchy (e.g., Board, then Box, then Pallet)
- Containers are finalized and ready for:
  - Storage
  - Shipment

Frequent Configuration Questions

Why can't I open a container?

Verify the following:

- The product has the `IsPackingContainer` attribute enabled.
- The packing step is correctly configured.

Why can't I add materials to a container?

Ensure that the materials are compatible with the container according to the defined rules (for example, product, flow, and other applicable criteria). Also validate the `SMTMaterialPackingContext` configuration.

Why can't a container be closed?

Check the container state. Only containers in the **Open** state can be closed.

Why are container labels not being printed?

Validate that the `SMTMaterialPrintableDocumentContext` configuration is correctly set up.

Why is the container behaving unexpectedly?

Review and confirm the Smart Table configurations associated with the packing process.

Why did the container become empty?

The system may automatically terminate the container when all packed materials have been removed. This is expected behavior.

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