



Critical
manufacturing
an ASM PT company

Continuous Flows

11.3

June 2026

DOCUMENT ACCESS

Public

DISCLAIMER

The contents of this document are under copyright of Critical Manufacturing S.A. it is released on condition that it shall not be copied in whole, in part or otherwise reproduced (whether by photographic, or any other method) and the contents therefore shall not be divulged to any person other than that of the addressee (save to other authorized offices of his organization having need to know such contents, for the purpose for which disclosure is made) without prior written consent of submitting company.

[Home](#) [Tutorials](#) [All Guides](#) [Medical Devices](#)

medical

Continuous Flows

Estimated time to read: 17 minutes

Overview

The Continuous Flow feature improves handling of scenarios where parts of a lot (Material) gradually move to the next step while the rest of the lot finishes the previous process step.

It enables partial chunks of the lot to be processed in parallel across different steps, while preserving a single lot grouping:

- Step execution activities like Checklists and Data Collections apply to the lot as a whole (not to each partial material individually).
- All partial Materials must be merged back at the end of the Continuous Flow block.

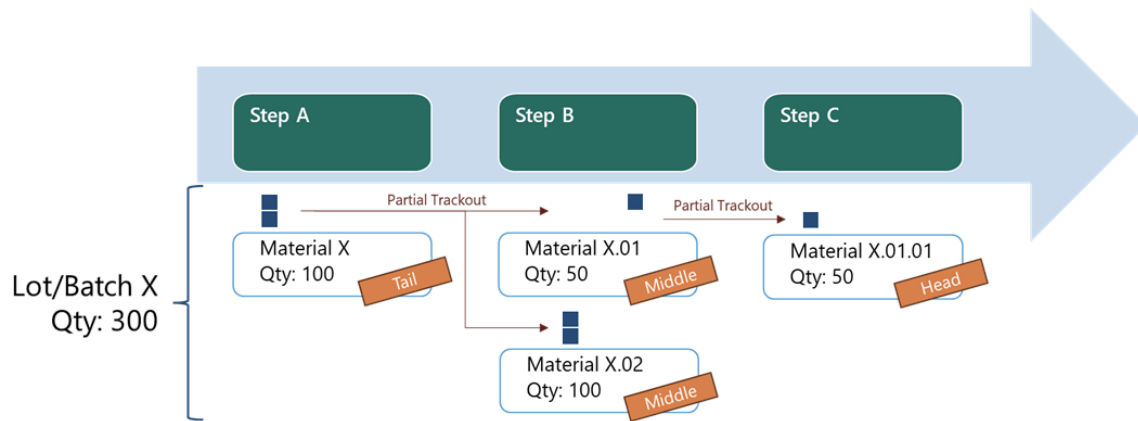
Topics

- [Concept](#)
- [Partial Track-Out](#)
- [Context Resolution](#)
- [Auto Re-Evaluation of Material Ranks](#)
- [Materials Final Merge](#)
- [Auto Partial Merge](#)
- [Scenario](#)
- [Configuration](#)
- [Configuration Entries](#)
- [Generic Tables](#)
- [Lookup Tables](#)
- [Checklists and Data Collections](#)
- [Executing a Continuous Flow](#)

Concept

The logic introduces a Material Rank:

- Head: First/leading material chunk.
- Middle: All other chunks in between.
- Tail: Last/trailing material chunk.



Rank is automatically assigned on Partial Track-Out and recalculated when merging back.

Checklists and Data Collections can be conditioned by Rank, so that, for example, a Checklist can be triggered only for the Head material and a Data Collection can be filled only when the final Tail material passes through the step.

A step can be configured as a Merge Step, causing all partial Materials to be automatically merged together once they reach the Step.

Partial Track-Out

- During Track-Out, set the primary quantity below the main Material's primary quantity to split a chunk.
- The first split tracked out becomes Head; the remaining InProcess main material becomes Tail. Additional splits become Middle.
- If the flow contains a Step with attribute *MedDevsPartialMatMergeStep* = true, a Future Action is created/updated on Partial Track-Out to automatically merge at the merge Step.
- Additional partial Track-Outs in subsequent steps split the then-current Head into a new Head and Middle.

Context Resolution

- In Steps following a Partial Track-Out, Checklists/Data Collections appear only for the configured rank(s) as defined in the context tables.

Auto Re-Evaluation of Material Ranks

This functionality will enable MES to automatically re-evaluate Material ranks, to ensure continuity in the flow when Materials overtake others during the process.

It will guarantee that, even when the relative positions of the Materials change, the first Material in the Flow will always be the "Head", the last will always be the "Tail" and everyone in between will be "Middle".

Note

This is a core function of the Feature and thus it is recommended to always have it enabled. Otherwise, MES will assume that the rank update will be performed manually.

Materials Final Merge

- If a final merge Step is predefined:

- Partial Materials are blocked at the merge Step waiting for the Merge Future Action to be applied.
- Once all partial Materials arrive, the system automatically merges and releases the Material.
- If no automatic merge is configured, users must manually merge partial Materials.
- When recording full loss on a material, the system attempts to merge with the next material in the flow; if the merge Future Action performs the merge, `AutoReEvaluationOfMaterialRanks` does not execute.
- When the full loss is recorded while the material is in active rework, Continuous Flows first resolves the rework case:
- Non-main rework materials are terminated without updating the main flow.
- Main rework materials complete the remaining rework path, return to the main flow, and then continue with the standard auto-movement and merge logic.
- This applies to `Record Loss/Bonus` and `Track-Out`.

Auto Partial Merge

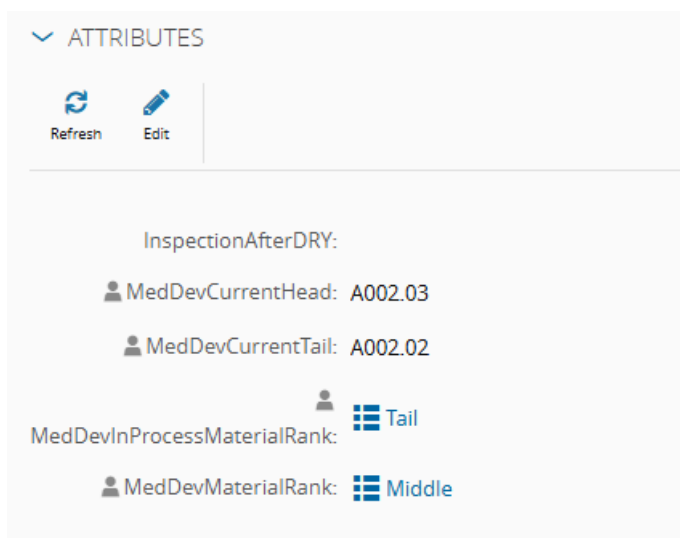
Supports automatically merging partial materials when they share the same conditions, reducing proliferation of partials in short cycle-time environments. The source and target materials must share the same:

- System State (Queued/In Process/Processed)
- Production Order
- Manufacturer Lot Number
- Resource (applies only to In Process)
- Resource Lane (if it exists, applies only to In Process)

Save In-Process Material Rank for Rework Returns

When a Material is Tracked-In with a certain rank, the user may require it to maintain the same rank throughout the entire process, ensuring that it performs Checklists or Data Collections which are configured for Track-Out/Move-Next in the context of that rank, to guarantee continuity.

This functionality enables MES to keep track of the Material's rank when it was Tracked-In, even if the rank is afterwards updated due to a Material returning from rework, by saving it in the Material's attribute **MedDevInProcessMaterialRank**, and use this attribute as the primary driver for context resolution.



In this example, the Material was Tracked-In with rank "Tail", and may already have executed some Checklist or Data Collection configured in the context of this rank. While the Material was In-Process, a Material returned from Rework to a step behind its position, being awarded the "Tail" and causing this Material's rank to be updated to "Middle".

With this functionality enabled, the original "Tail" rank is saved in the Material, and it will be used to resolve the tables when Track-Out and Move-Next are performed.

Assumptions

To use the Continuous Flow logic, the process should follow these assumptions:

- The material quantity should represent a bulk of non-serialized units. If sub-materials are used, a Line-Flow based approach might be more adequate.
 - The Partial Track-Out feature is used to Split the chunks of materials for the next Step.
 - The processing of different material chunks will be executed in sequence, e.g. a Tail will not surpass its Head.
-

Scenario

Enabling Continuous Flows

This Feature can either be enabled globally in MES, or only for specific contexts.

A) Global Configuration

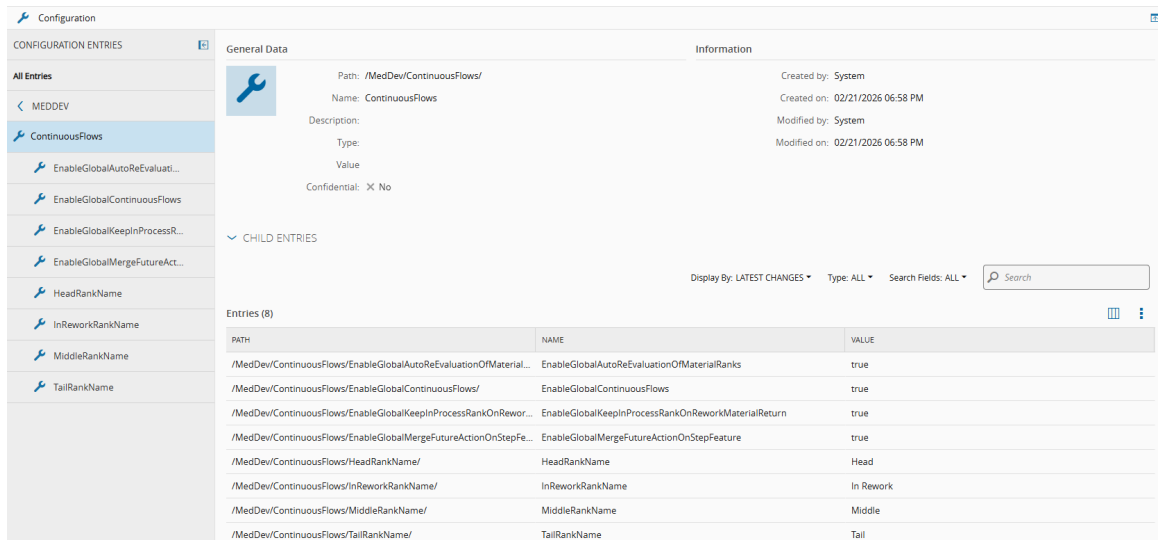
To enable this feature globally across MES, the following actions need to be taken:

1. Configurations

- Enable Feature globally through `/MedDev/ContinuousFlows/EnableGlobalContinuousFlows`.

These optional configurations can also be enabled, to apply these functionalities globally:

- Enable Auto-Merging through `/MedDev/ContinuousFlows/EnableGlobalMergeFutureActionOnStepFeature`
- Enable Auto Re-Evaluation of Material Ranks through `/MedDev/ContinuousFlows/EnableGlobalAutoReEvaluationOfMaterialRanks`
- Enable Keep In-Process Rank on Rework Material Return through `/MedDev/ContinuousFlows/EnableGlobalKeepInProcessRankOnReworkMaterialReturn`



The screenshot shows the 'Configuration' window with 'ContinuousFlows' selected. The 'General Data' section shows the path `/MedDev/ContinuousFlows/`, name `ContinuousFlows`, and description. The 'Information' section shows it was created and modified by 'System' on 02/21/2026 at 06:58 PM. Below, the 'CHILD ENTRIES' table lists 8 entries with their paths, names, and values.

PATH	NAME	VALUE
<code>/MedDev/ContinuousFlows/EnableGlobalAutoReEvaluationOfMaterial...</code>	EnableGlobalAutoReEvaluationOfMaterialRanks	true
<code>/MedDev/ContinuousFlows/EnableGlobalContinuousFlows/</code>	EnableGlobalContinuousFlows	true
<code>/MedDev/ContinuousFlows/EnableGlobalKeepInProcessRankOnRework...</code>	EnableGlobalKeepInProcessRankOnReworkMaterialReturn	true
<code>/MedDev/ContinuousFlows/EnableGlobalMergeFutureActionOnStepFe...</code>	EnableGlobalMergeFutureActionOnStepFeature	true
<code>/MedDev/ContinuousFlows/HeadRankName/</code>	HeadRankName	Head
<code>/MedDev/ContinuousFlows/InReworkRankName/</code>	InReworkRankName	In Rework
<code>/MedDev/ContinuousFlows/MiddleRankName/</code>	MiddleRankName	Middle
<code>/MedDev/ContinuousFlows/TailRankName/</code>	TailRankName	Tail

Note

Useful documentation on how to [Manage Configuration Entries](#)

B) Context-Specific Configuration

Instead of enabling the Continuous Flow feature globally, it is possible to enable it and its optional functionalities for specific contexts (e.g., per Flow, Product, or Production Order) using the `MedDevContinuousFlowFeaturesConfig` smart table:

1. Navigate to the `MedDevContinuousFlowFeaturesConfig` smart table.
2. Add a new row, filling in the key columns that define the context (one or more of: Flow, LogicalFlowPath, Product, ProductGroup, ProductionOrder).
3. Set the desired value column(s) to `true`: `ContinuousFlowsEnabled`, `AutoReEvaluationOfMaterialRanksEnabled`, `MergeFutureActionOnStepEnabled`, `KeepInProcessRankOnReworkMaterialReturnEnabled`.

Note

The global configuration entries need to be **disabled** for context-specific overrides to take effect. If a global entry is enabled, the smart table is ignored for that setting. The override logic is applied only for *enabling* scenarios like the one described above, not *disabling* ones (e.g., configuration entry is enabled, but the smart table has it set to false for a specific context).

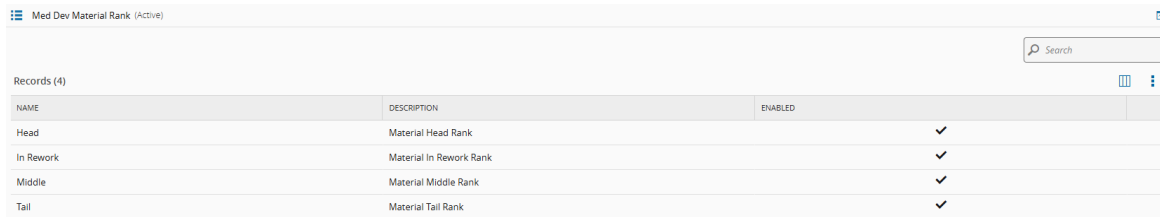
Rank names

The default values for the Rank Names are `Head`, `Middle`, `Tail` and `InRework`. If required, these names can be changed by:

1. Configurations

- Set Material Rank Names:
 - `/MedDev/ContinuousFlows/HeadRankName`
 - `/MedDev/ContinuousFlows/MiddleRankName`
 - `/MedDev/ContinuousFlows/TailRankName`
 - `/MedDev/ContinuousFlows/InReworkRankName`

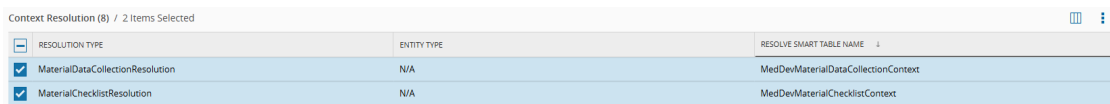
2. **Update Lookup Table 'MedDevMaterialRank'** with new names, so that the MedDev Smart Tables are prepared to use them.



NAME	DESCRIPTION	ENABLED
Head	Material Head Rank	✓
In Rework	Material In Rework Rank	✓
Middle	Material Middle Rank	✓
Tail	Material Tail Rank	✓

Generic Tables

1. Update **Generic Table** `ContextResolution` with both MedDev Smart Tables to ensure the resolution includes the Material `MedDevMaterialRank`:
2. `MaterialChecklistResolution`: `MedDevMaterialCheckListContext`
3. `MaterialDataCollectionResolution`: `MedDevMaterialDataCollectionContext`



RESOLUTION TYPE	ENTITY TYPE	RESOLVE SMART TABLE NAME
<input checked="" type="checkbox"/> MaterialDataCollectionResolution	N/A	MedDevMaterialDataCollectionContext
<input checked="" type="checkbox"/> MaterialChecklistResolution	N/A	MedDevMaterialCheckListContext

Warning

This will override the existing `MaterialChecklistContext` and `MaterialDataCollectionContext` tables - all data from the original context tables should be copied to the new MedDev equivalent tables before switching the `ContextResolution` settings.

Configuration

To assess how this industry and production requirement is addressed, consider a simplified model:

Basic entities like **Step**, **Resource**, **Flow**, **Product**, and **Material** can be configured as detailed below:

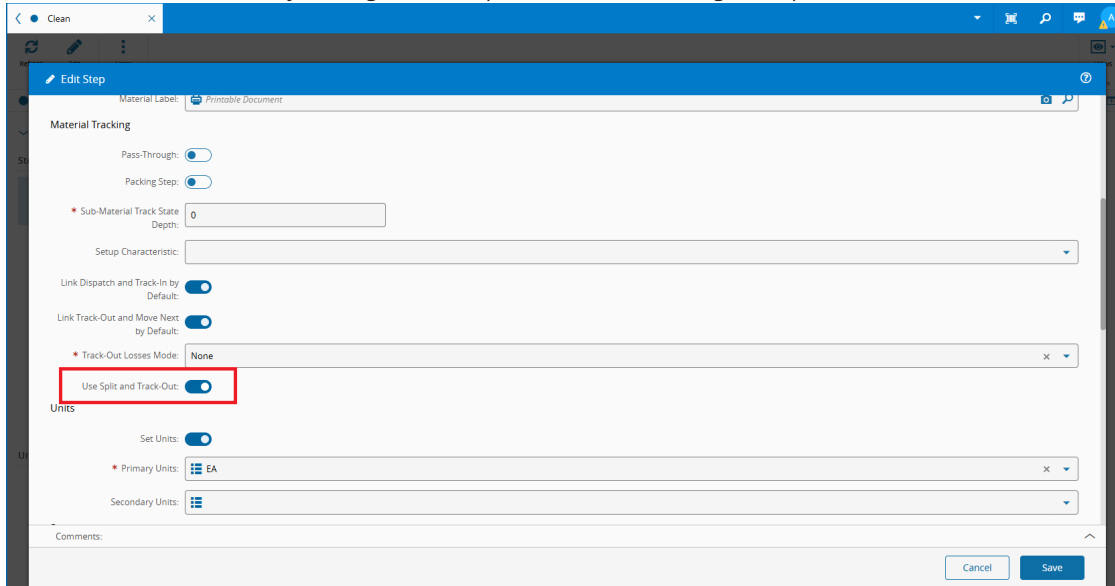
- Steps:
 - Catheter Production Order Starts
 - Assemble
 - Clean
 - After Clean
 - Dry
 - After Dry
 - Catheter Packing
 - Shipping
 - Final Packing
 - Shipping Customer
 - Flow - Flow Catheter
 - Product - Foley V Catheter
 - Material - Lot Foley V Catheter#01 (this Material represents a lot with 500 units)

Note

This is the [Master Data](#) file used to create this model.

Continuous flow should be applied to steps **Clean** → **After Clean** → **Dry** → **After Dry** → **Catheter Packing**:

- Enable Partial Track-Out by setting the Use Split and Track-Out flag in step **Clean**



- Configure additional Split/Track-Out options in the `StepSplitTrackOutContext` Smart Table
- To auto-merge at the end of the flow block, set the `MedDevIsPartialMatMergeStep` attribute on the designated merge step **Catheter Packing**
- If no such Step is found, the system assumes Materials will be merged manually
- To automatically perform merge action on this step, set the `MedDevIsPartialMatMergeStep` attribute

● Catheter Packing (Active)

SCHEDULING

ATTRIBUTES

Refresh Edit

MedDevAllowAutoPartialMerge No

MedDevsPartialMatMergeStep: Yes

- Additionally, if the cycle time is short, consider enabling the Auto Partial Merge, by setting the `MedDevAllowAutoPartialMerge` attribute for any steps throughout the process where several Materials of the same group may accumulate.

ATTRIBUTES

Refresh Edit

MedDevAllowAutoPartialMerge Yes

Checklists and Data Collections

For all remaining configurations, follow these steps:

1. Create two Parameters:

Edit Parameter

General Data

Name: Residual Moisture

Description:

* Type: Standard

Information

Display Name:

* Scope: EDC_SPC

* Data Type: Decimal

Format:

Units: %

Scale:

Minimum Value: 0

Maximum Value: 100

Comments:

Edit Parameter

General Data

Name: Particle Contamination Level

Description:

* Type: Standard

Information

Display Name:

* Scope: EDC_SPC

* Data Type: Decimal

Format:

Units: μm

Scale:

Minimum Value:

Maximum Value:

Comments:

Note

Useful Documentation

- [Create Parameter](#)
- [How to: Create a Parameter](#)

2. Create a Data Collection

DC After Clean [A.1]

New Refresh Edit Lock Perform Open More

DC After Clean [A.1] (Default) 1 (Effective)

DETAILS

Data Collection

Name: DC After Clean

Description:

Type: Standard

Universal State: Effective

Details

Scope: General

SPC Post Mode: On Post Per Sample

User Interface: Modern

DETAILS

PARAMETERS

LIMIT SETS

INSTANCES

ATTRIBUTES

ATTACHMENTS

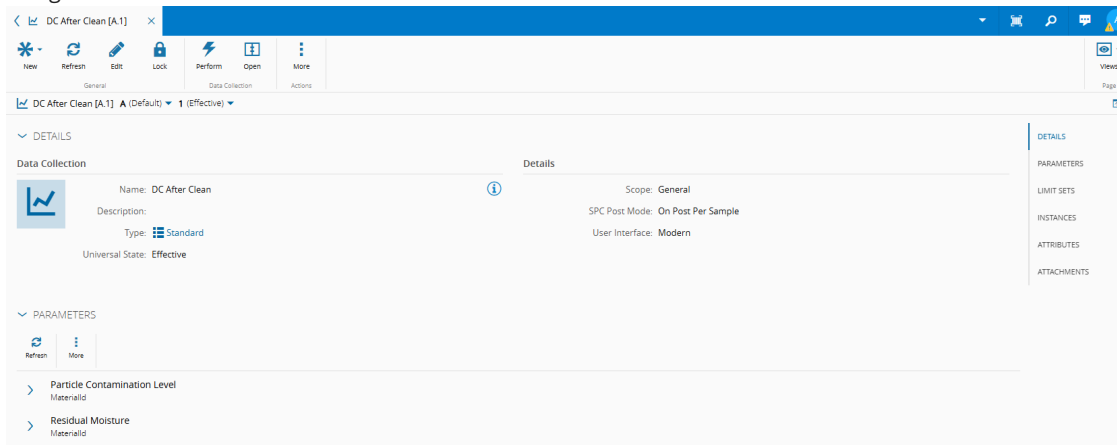
Particle Contamination Level
MaterialId

<p>Parameter Details</p> <p>Parameter: Particle Contamination Level</p> <p>Optional: <input checked="" type="checkbox"/> No</p> <p>Group:</p>	<p>Instrument</p> <p>Capture Behavior: None</p> <p>Instrument Type:</p>
<p>Samples</p> <p>Source:</p> <p>Type: Material Id</p> <p>Sample Id Material Property: Name</p> <p>Minimum Samples: 1</p> <p>Maximum Samples: 1</p> <p>Sample Count Is Percentage: <input checked="" type="checkbox"/> No</p>	<p>Readings</p> <p>Minimum Sample Readings: 1</p> <p>Maximum Sample Readings: 1</p> <p>Default Value:</p> <p>Reading Names: <input checked="" type="checkbox"/> No</p>
<p>Calculation</p> <p>Calculation: None</p> <p>Grouping: None</p> <p>Limit Checking: Individual Value</p> <p>Rule:</p>	<p>Protocols</p> <p>Warning:</p> <p>Error:</p>

Residual Moisture
MaterialId

<p>Parameter Details</p> <p>Parameter: Residual Moisture</p> <p>Optional: <input checked="" type="checkbox"/> No</p> <p>Group:</p>	<p>Instrument</p> <p>Capture Behavior: None</p> <p>Instrument Type:</p>
<p>Samples</p> <p>Source:</p> <p>Type: Material Id</p> <p>Sample Id Material Property: Name</p> <p>Minimum Samples: 1</p> <p>Maximum Samples: 1</p> <p>Sample Count Is Percentage: <input checked="" type="checkbox"/> No</p>	<p>Readings</p> <p>Minimum Sample Readings: 1</p> <p>Maximum Sample Readings: 1</p> <p>Default Value:</p> <p>Reading Names: <input checked="" type="checkbox"/> No</p>
<p>Calculation</p> <p>Calculation: None</p> <p>Grouping: None</p> <p>Limit Checking: Individual Value</p> <p>Rule:</p>	<p>Protocols</p> <p>Warning:</p> <p>Error:</p>

3. Assign both **Parameters** to the **Data Collection** created above:



The screenshot shows the 'DC After Clean [A.1]' configuration window. The 'DETAILS' section includes:

- Name: DC After Clean
- Description:
- Type: Standard
- Universal State: Effective
- Scope: General
- SPC Post Mode: On Post Per Sample
- User Interface: Modern

The 'PARAMETERS' section lists the following assigned parameters:

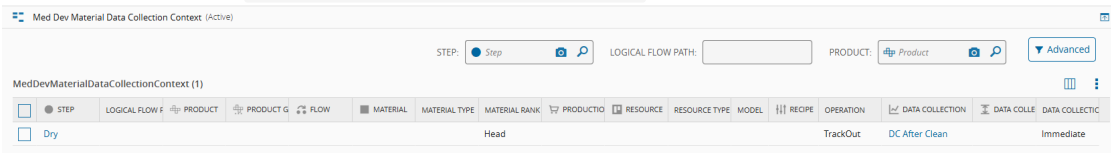
- Particle Contamination Level (MaterialId)
- Residual Moisture (MaterialId)

Note

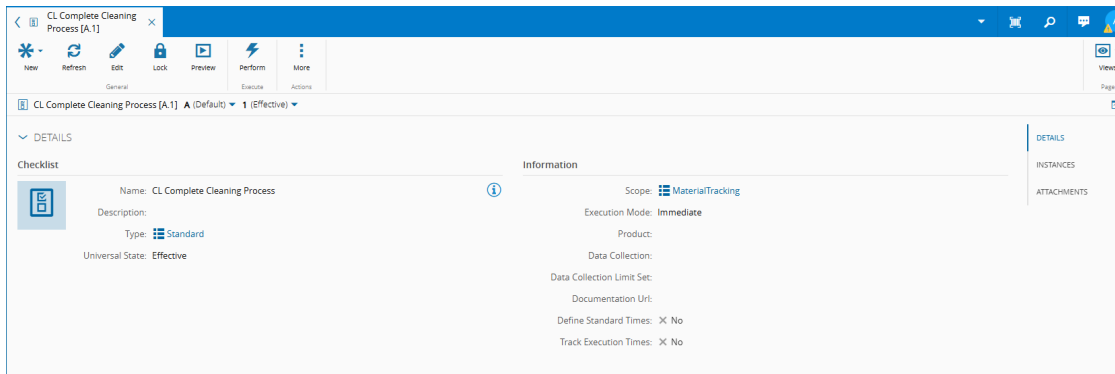
Useful Documentation

- [Create Data Collection](#)
- [How to: Create a Data Collection](#)
- [MaterialDataCollectionContext](#)
- [How to: Add Value to Smart Table](#)

4. Fill in the Smart Table `MedDevMaterialDataCollectionContext` with the **Data Collection** created above



5. Create a **Checklist**

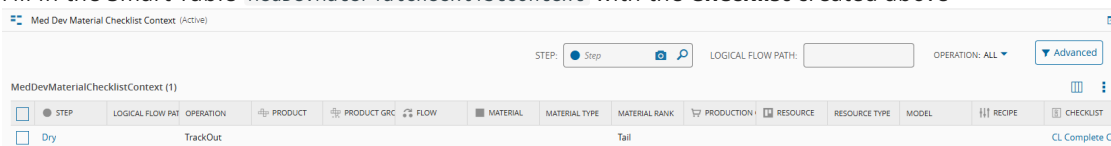


Note

Useful Documentation

- [Create Checklist](#)
- [How to: Create a Checklist](#)

6. Fill in the Smart Table `MedDevMaterialChecklistContext` with the **Checklist** created above



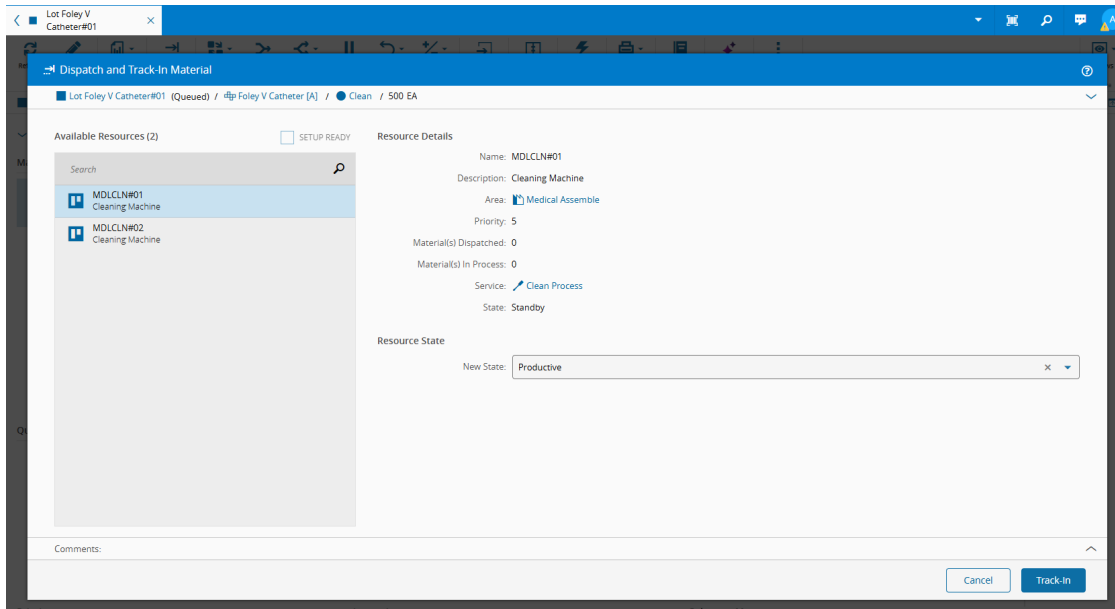
Executing a Continuous Flow

This section explores the Continuous Flows operations. To test and execute this functionality, follow the use case outlined in a step-by-step scenario.

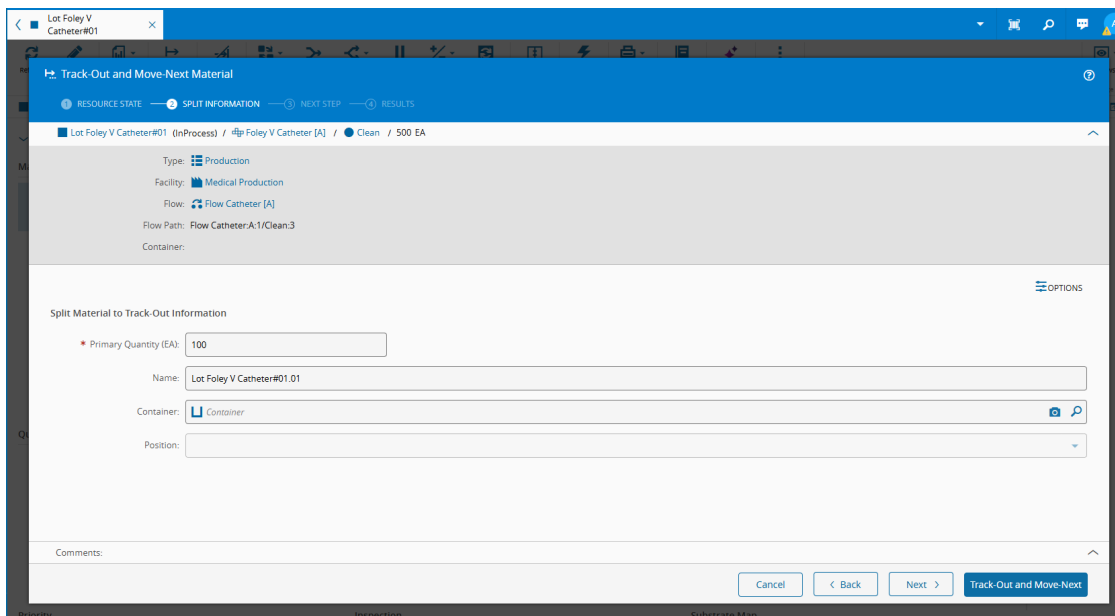
Note

This example does not contain any Rework flows configured. If a Material is sent to Rework while in a Continuous Flow, MES will handle the rank update automatically according to the specific scenario. A detailed explanation of this logic can be found in the User Guide.

1. In the **Step** Clean, perform a **Material Track In** of the **Material** Lot Foley V Catheter#01





2. Perform a partial track-out and move next on **Material** Lot Foley V Catheter#01





- A new material **Material** Lot Foley V Catheter#01.01 is created with:
- Quantity: 100
- Rank: Head
- Manufacturing Lot Number: Lot Foley V Catheter#01


Lot Foley V Catheter#01
Lot Foley V Catheter#01.01
✕



Refresh
General



Edit


View Reports
Reports


Dispatch and Track
Transaction


Change


Merge


Split
Material

Lot Foley V Catheter#01.01 (Active)

Manufacturer

Manufacturer:

Supplier:

Purchase Order Number:


Manufacturer Part Number:


Manufacturer Lot Number: Lot Foley V Catheter#01


Manufacturer Date Code:


RoHS Compliant: ✕ No


Lot Foley V Catheter#01
Lot Foley V Catheter#01.01
✕



Refresh
General



Edit


View Reports
Reports


Dispatch and Track
Transaction


Change



Merge



Split
Ma

Lot Foley V Catheter#01.01 (Active)

COLLECTED DATA


▼ ATTRIBUTES


Refresh

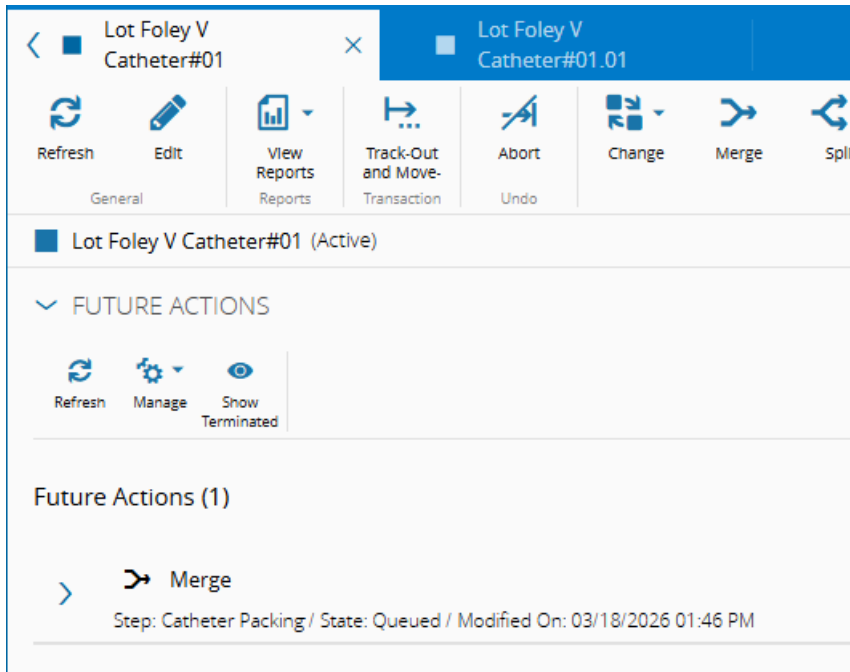

Edit

MedDevCurrentHead:

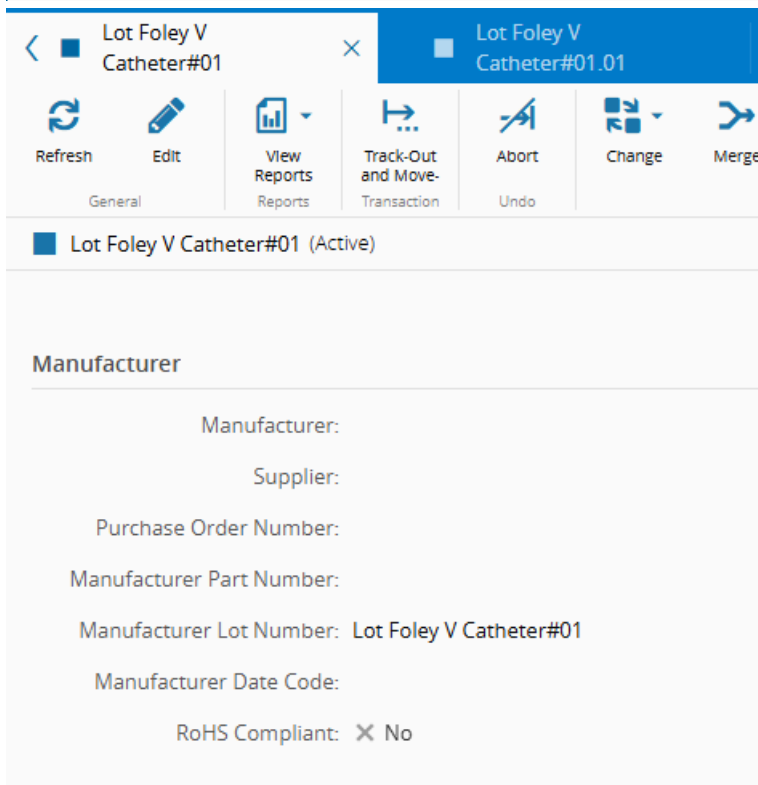
MedDevCurrentTail:

MedDevMaterialRank:  Head

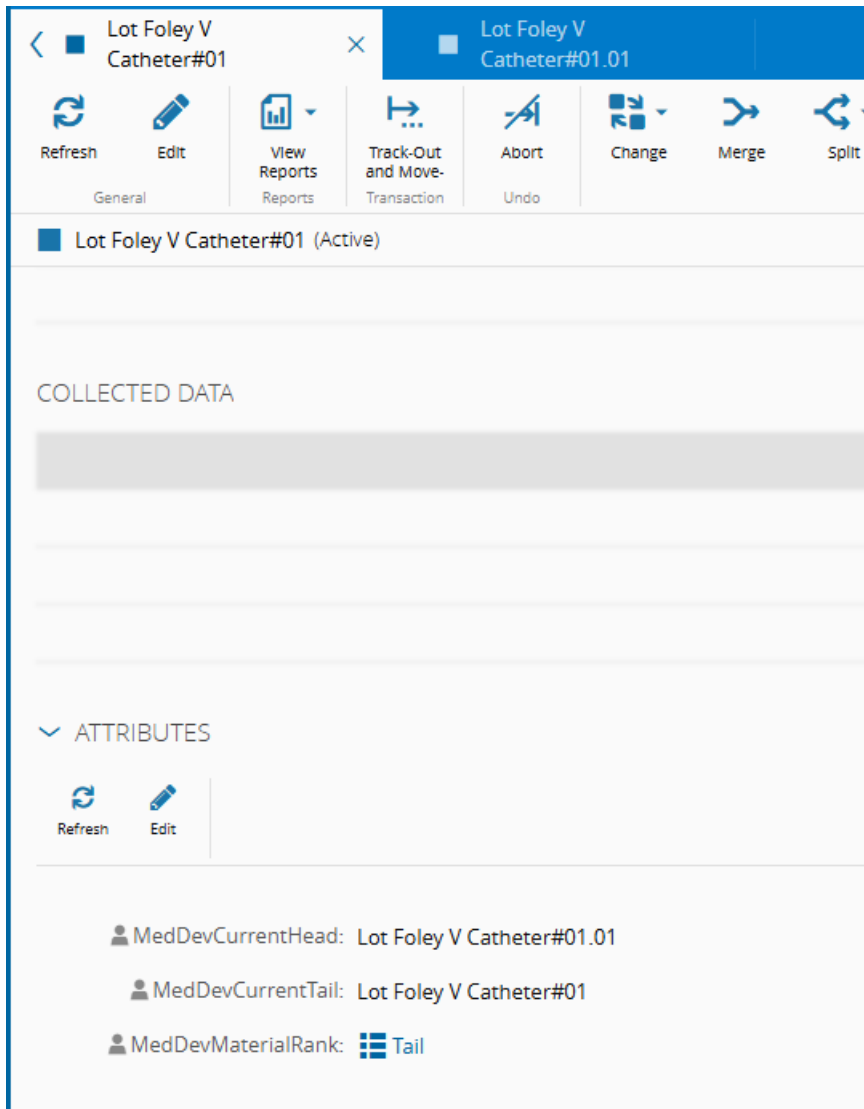
- Main **Material** Lot Foley V Catheter#01 is updated with:
- Future action created for future merge
- Rank: Tail
- Manufacturing Lot Number: Lot Foley V Catheter#01
- Current Head: Lot Foley V Catheter#01.01
- Current Tail: Lot Foley V Catheter#01



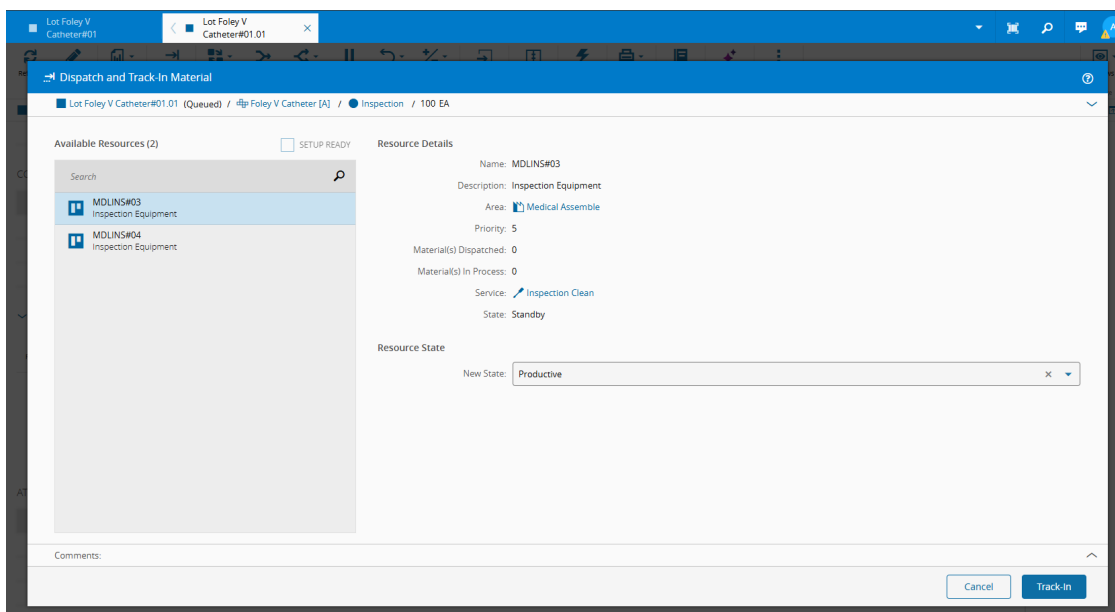
The screenshot shows the SAP Future Actions interface for Lot Foley V Catheter#01. The top navigation bar includes tabs for 'Lot Foley V Catheter#01' and 'Lot Foley V Catheter#01.01'. Below the navigation bar is a toolbar with icons for Refresh, Edit, View Reports, Track-Out and Move-Transaction, Abort, Change, Merge, and Split. The main content area is titled 'Lot Foley V Catheter#01 (Active)' and contains a section for 'FUTURE ACTIONS'. This section includes a sub-toolbar with Refresh, Manage, and Show Terminated icons. Below this, there is a list of 'Future Actions (1)' with one entry: 'Merge'. The entry details are: 'Step: Catheter Packing / State: Queued / Modified On: 03/18/2026 01:46 PM'.



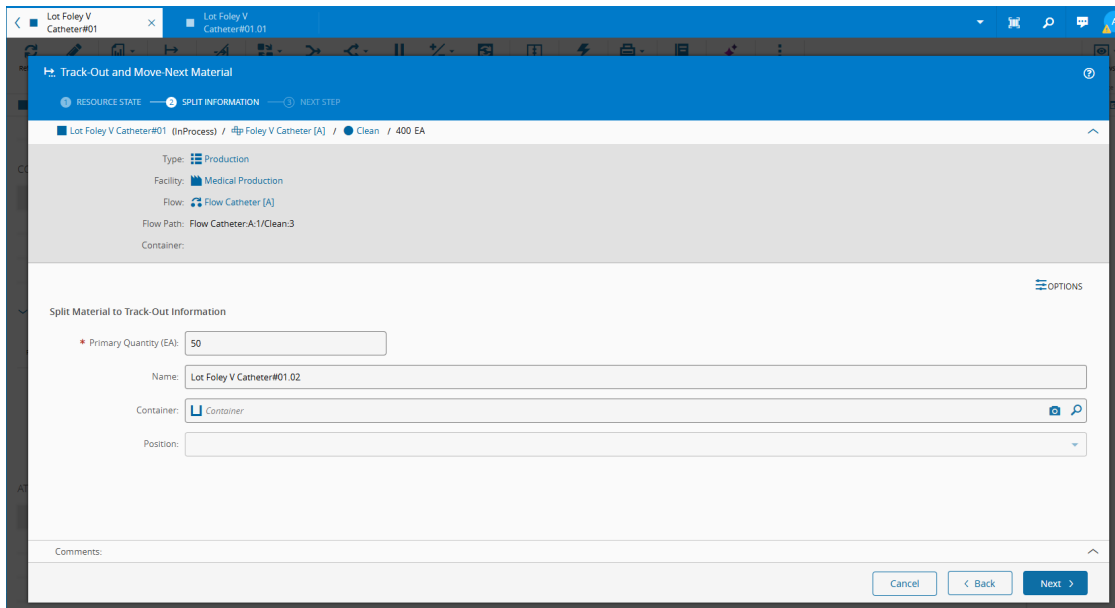
The screenshot shows the SAP Manufacturer information interface for Lot Foley V Catheter#01. The top navigation bar includes tabs for 'Lot Foley V Catheter#01' and 'Lot Foley V Catheter#01.01'. Below the navigation bar is a toolbar with icons for Refresh, Edit, View Reports, Track-Out and Move-Transaction, Abort, Change, and Merge. The main content area is titled 'Lot Foley V Catheter#01 (Active)' and contains a section for 'Manufacturer'. This section lists the following information: 'Manufacturer:', 'Supplier:', 'Purchase Order Number:', 'Manufacturer Part Number:', 'Manufacturer Lot Number: Lot Foley V Catheter#01', 'Manufacturer Date Code:', and 'RoHS Compliant: X No'.



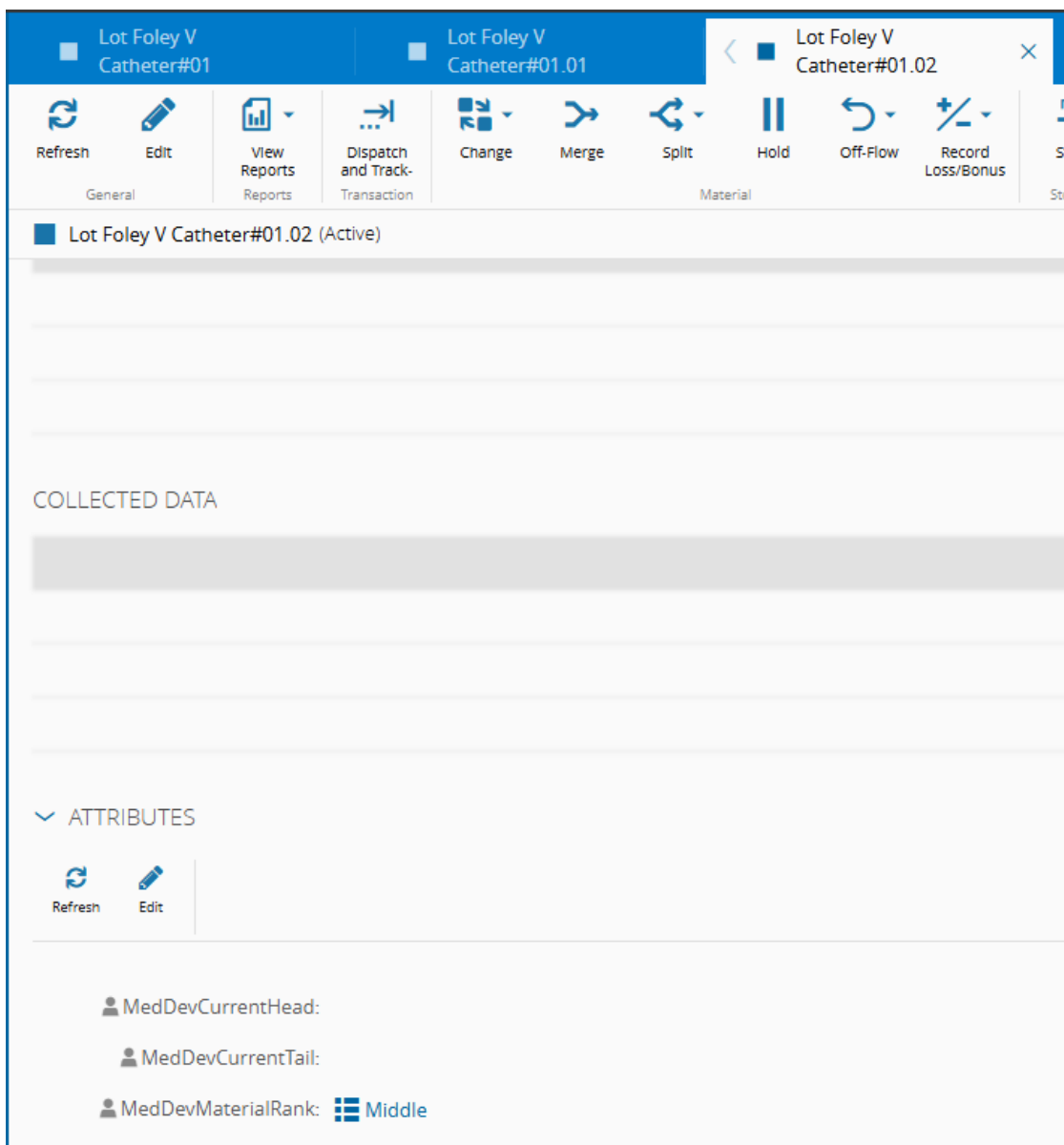
3. Dispatch and track-in **Material** Lot Foley V Catheter#01.01 to **Step** After Clean



4. Perform a partial track-out and move next on **Material** Lot Foley V Catheter#01

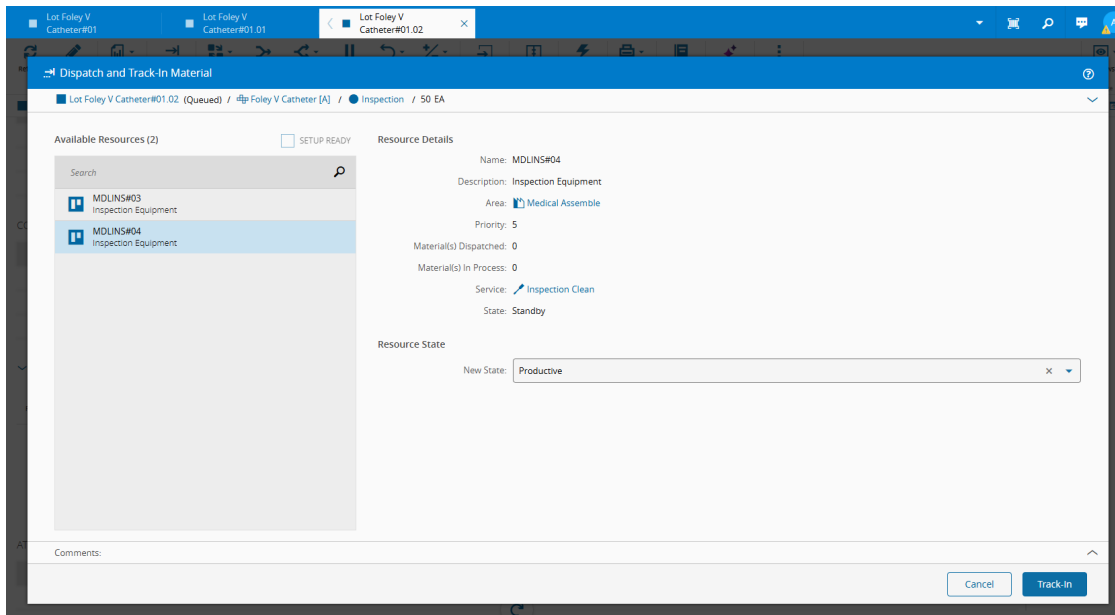


- A new material **Material** Lot Foley V Catheter#01.02 is created with:
- Quantity: 50
- Rank: Middle
- Manufacturing Lot Number: Lot Foley V Catheter#01

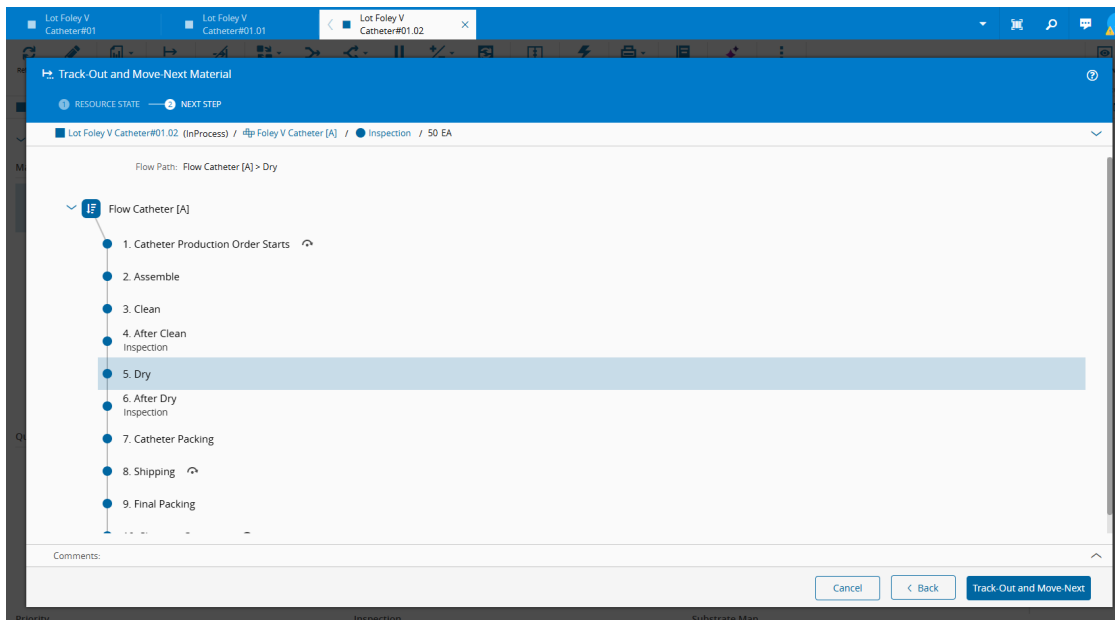


The screenshot displays the software interface for 'Lot Foley V Catheter#01.02 (Active)'. At the top, there are three tabs: 'Lot Foley V Catheter#01', 'Lot Foley V Catheter#01.01', and the active 'Lot Foley V Catheter#01.02'. Below the tabs is a menu bar with icons for 'Refresh', 'Edit', 'View Reports', 'Dispatch and Track', 'Change', 'Merge', 'Split', 'Hold', 'Off-Flow', and 'Record Loss/Bonus'. The 'Dispatch and Track' menu is expanded, showing options for 'General', 'Reports', 'Transaction', and 'Material'. The 'Material' option is selected, and the 'Dispatch and Track' menu is highlighted. Below the menu bar, the main area is titled 'COLLECTED DATA' and contains a large greyed-out area. At the bottom, there is an 'ATTRIBUTES' section with 'Refresh' and 'Edit' icons, and a list of attributes: 'MedDevCurrentHead:', 'MedDevCurrentTail:', and 'MedDevMaterialRank: Middle'.

5. Dispatch and track-in **Material** Lot Foley V Catheter#01.02 to **Step** After Clean





6. Track-out **Material** Lot Foley V Catheter#01.02 from **Step** After Clean into **Step** Dry





- **Material** Lot Foley V Catheter#01.01 is updated with:
- Rank: **Middle**


Lot Foley V Catheter#01
Lot Foley V Catheter#01.01
Lot Foley V Catheter#01.02



 Refresh
General



 Edit



 View Reports
Reports



 Track-Out and Move-Transaction



 Abort
Undo


 Change


 Merge


 Split



 Hold



 Record Loss/Bonus
Material

■ Lot Foley V Catheter#01.01 (Active)

COLLECTED DATA

▼ ATTRIBUTES


 Refresh


 Edit

👤 MedDevCurrentHead:

👤 MedDevCurrentTail:

👤 MedDevMaterialRank: Middle

- **Material** Lot Foley V Catheter#01.02 is update with:
- Rank: Head

Lot Foley V Catheter#01
Lot Foley V Catheter#01.01
Lot Foley V Catheter#01.02

Refresh

Edit

View Reports

Dispatch and Track-

Change

Merge

Split

Hold

Off-Flow

Record Loss/Bonus

Lot Foley V Catheter#01.02 (Active)

COLLECTED DATA

▼ ATTRIBUTES

Refresh

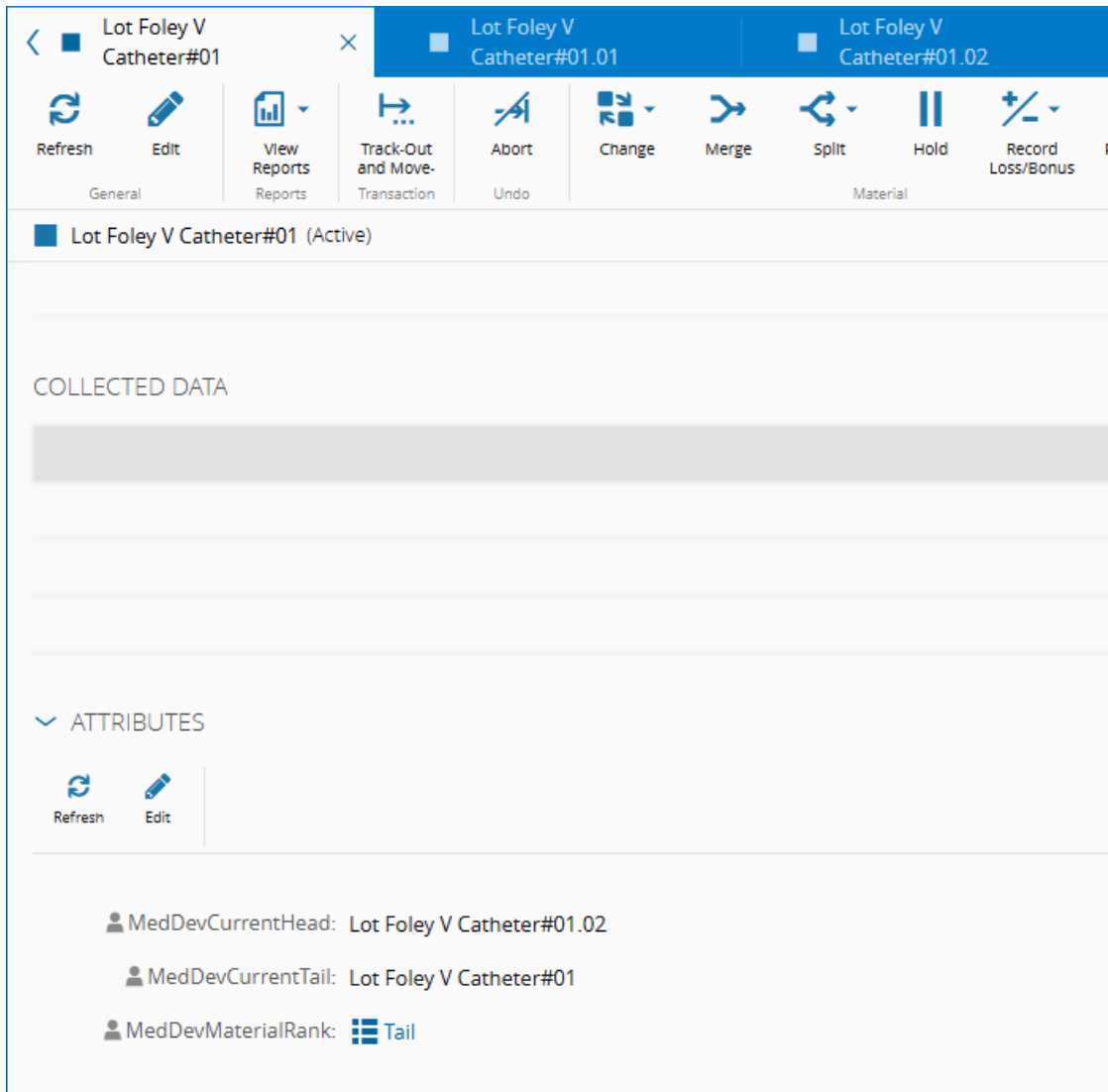
Edit

👤 MedDevCurrentHead:

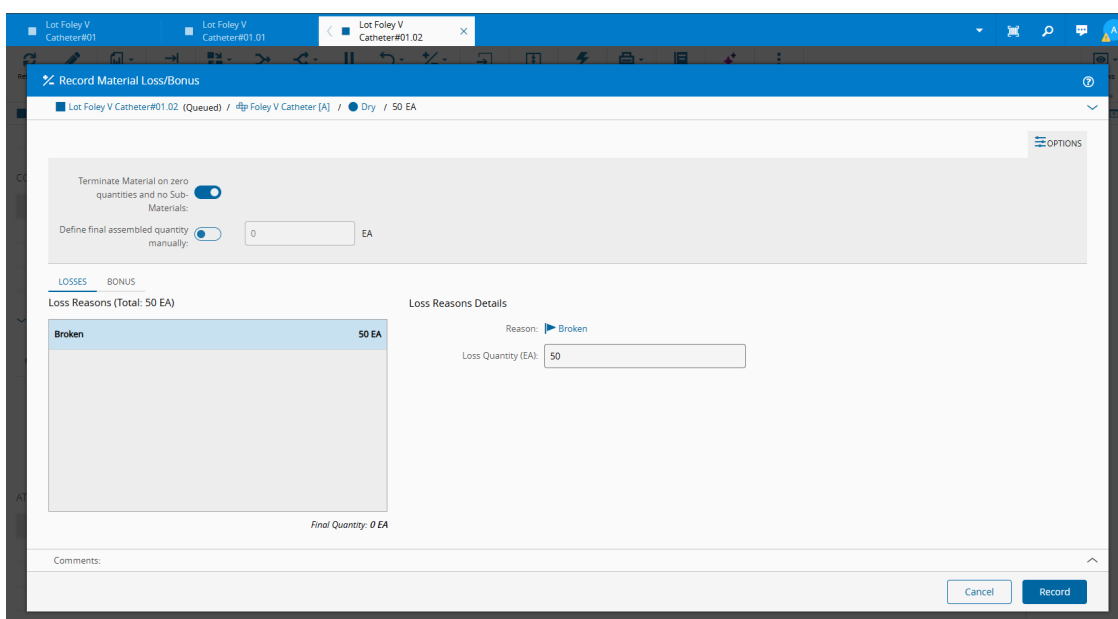
👤 MedDevCurrentTail:

👤 MedDevMaterialRank: Head

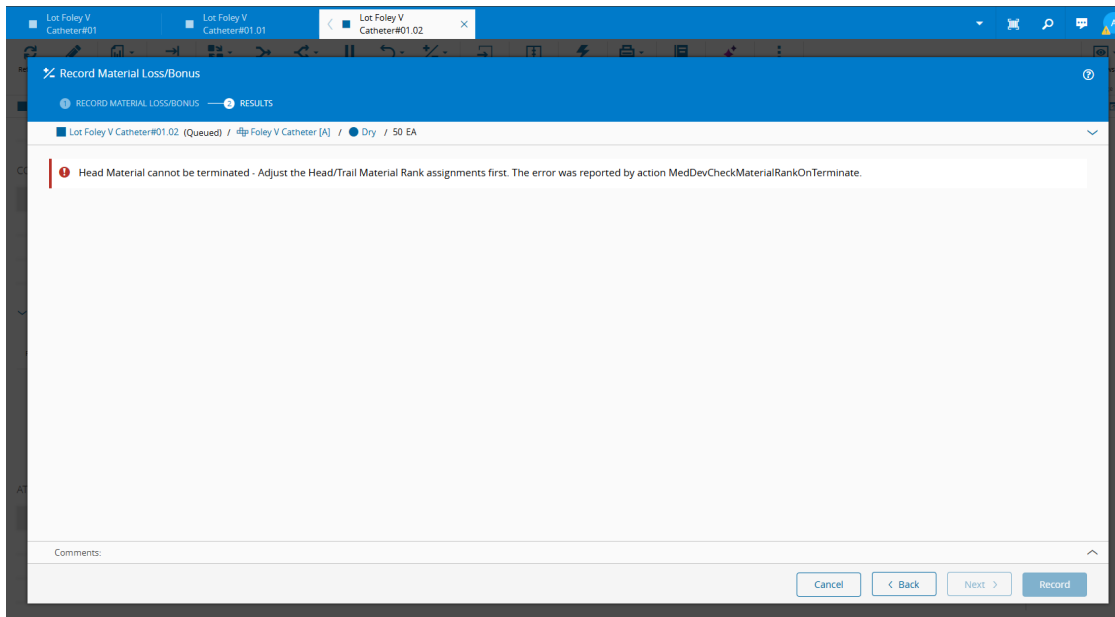
- **Material** Lot Foley V Catheter#01 is update with:
- Current Head: Lot Foley V Catheter#01.02



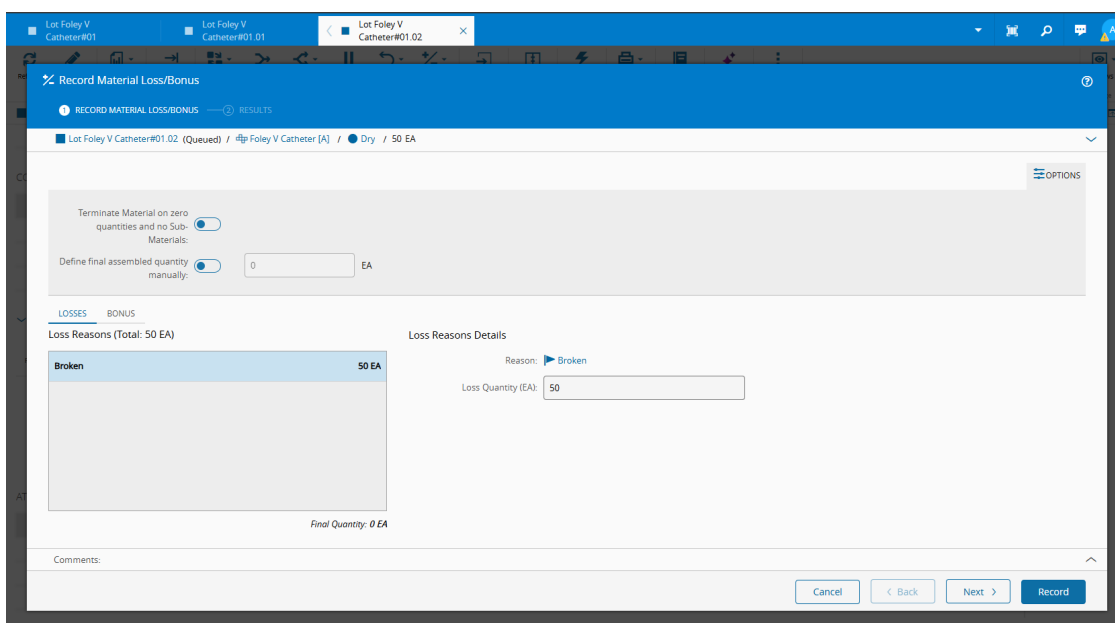
7. Record a full loss on **Material** Lot Foley V Catheter#01.02 with option Terminate Material on zero quantities and no Sub-Materials set to TRUE



- System doesn't allow the operation since Head material cannot be terminated



- Repeat action to record a full loss on **Material** Lot Foley V Catheter#01.02 but this time with option **Terminate Material on zero quantities and no Sub-Materials** set to **FALSE**



- System allows full loss record on **Material** Lot Foley V Catheter#01.02 and material **Quantity** is updated to 0

Lot Foley V Catheter#01 Lot Foley V Catheter#01.01 Lot Foley V Catheter#01.02

Refresh Edit View Reports Dispatch and Track- Change Merge Split Hold Off-Flow Record Loss/Bonus Store Open Instance Perform Print V

General Reports Transaction Material Storage Exceptions Data Collection Printing Docu

Lot Foley V Catheter#01.02 (Active)

DETAILS

Material

Name: Lot Foley V Catheter#01.02 Form: Lot
 Description: Finish Good Catheter Foley V Facility: Medical Production
 Type: Production Product: Foley V Catheter [A]
 Universal State: Active Product Description:
 System State: Queued Product Group:
 Data Group: Product Group Description:
 Parent:
 Approved: Yes
 Capacity Class:
 Current Send-Ahead Run:

Quantities

Primary Quantity: 0 EA
 Secondary Quantity:
 Target Quantity:


Sub-Materials


Sub-Materials: 0
 Sub-Material Primary Quantity: 0 EA
 Sub-Material Secondary Quantity:


8. Track-out and Move Next **Material** Lot Foley V Catheter#01.01 from **Step** After Clean into **Step** Dry


- **Material** Lot Foley V Catheter#01.01 is update with:
- Rank: Head


Lot Foley V Catheter#01
Lot Foley V Catheter#01.01
✕



 Refresh
General



 Edit
Reports


 View Reports
Reports


 Dispatch and Track
Transaction


 Change
Mat



 Merge



 Split

■ Lot Foley V Catheter#01.01 (Active)

COLLECTED DATA

▼ ATTRIBUTES


 Refresh


 Edit


👤 MedDevCurrentHead:


👤 MedDevCurrentTail:


👤 MedDevMaterialRank: ☰ Head


- **Material** Lot Foley V Catheter#01.02 is terminated


Lot Foley V Catheter#01
Lot Foley V Catheter#01.01
Lot Foley V Catheter#01.02
✕



 Refresh
General


 Unterm...
Reports


 View Reports
Printing


 Print
Documents


 View
Actions


 More

■ Lot Foley V Catheter#01.02 (Terminated)

▼ DETAILS

Material

Name: Lot Foley V Catheter#01.02 (i)

Description: Finish Good Catheter Foley V

Type: ☰ Production

Universal State: **Terminated**

System State: **Queued**

Data Group:

Basic Information

Form: ☰ Lot

Facility: 🏭 Medical Production

Product: 🔗 Foley V Catheter [A]

Product Description:

Product Group:

Product Group Description:

Parent:

Approved: Yes

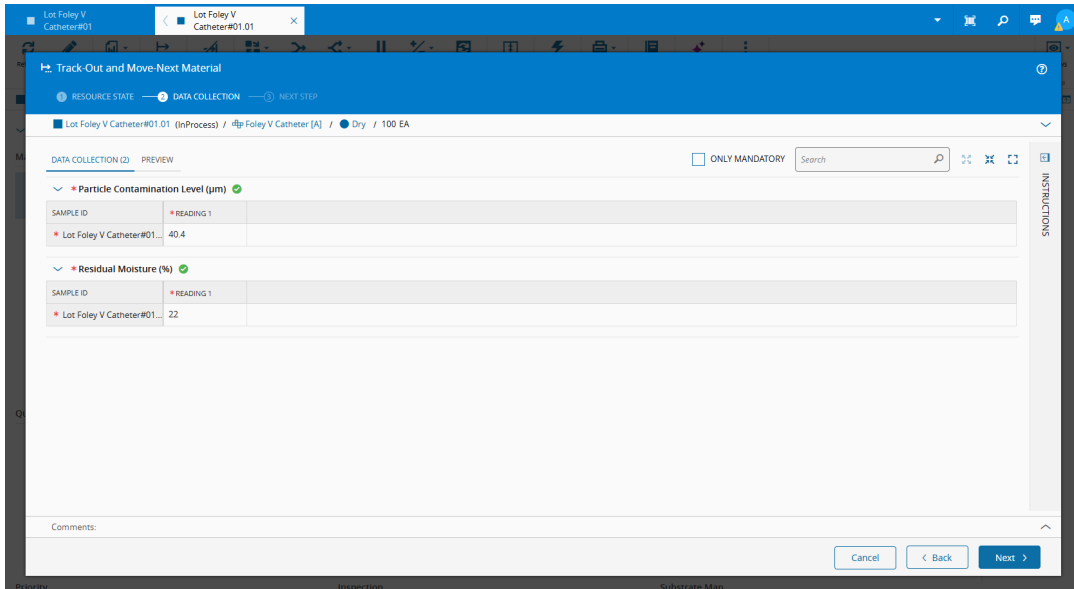
Capacity Class:

Current Send-Ahead Run:

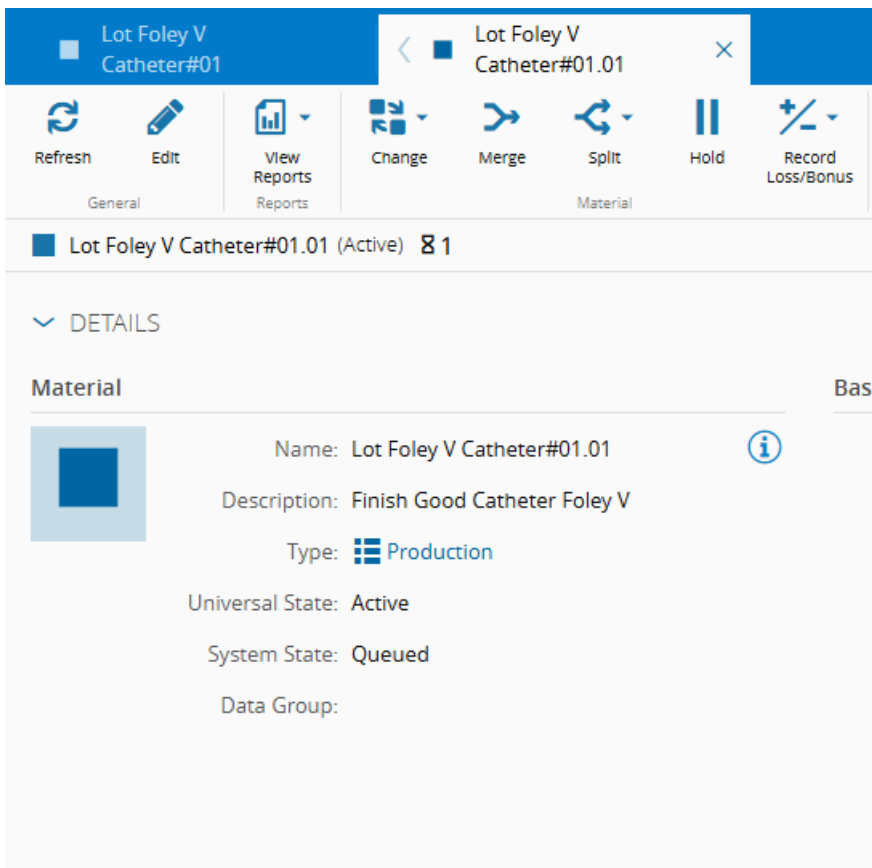
9. Perform next flow steps for **Material** Lot Foley V Catheter#01.01 until material reaches **Step** Catheter Packing

- When track-out operation is performed at **Step** Dry :
- No **Checklist** is triggered for material with rank Head or Middle
- **Data Collection** is performed for **Material** Lot Foley V Catheter#01.01 (Head)

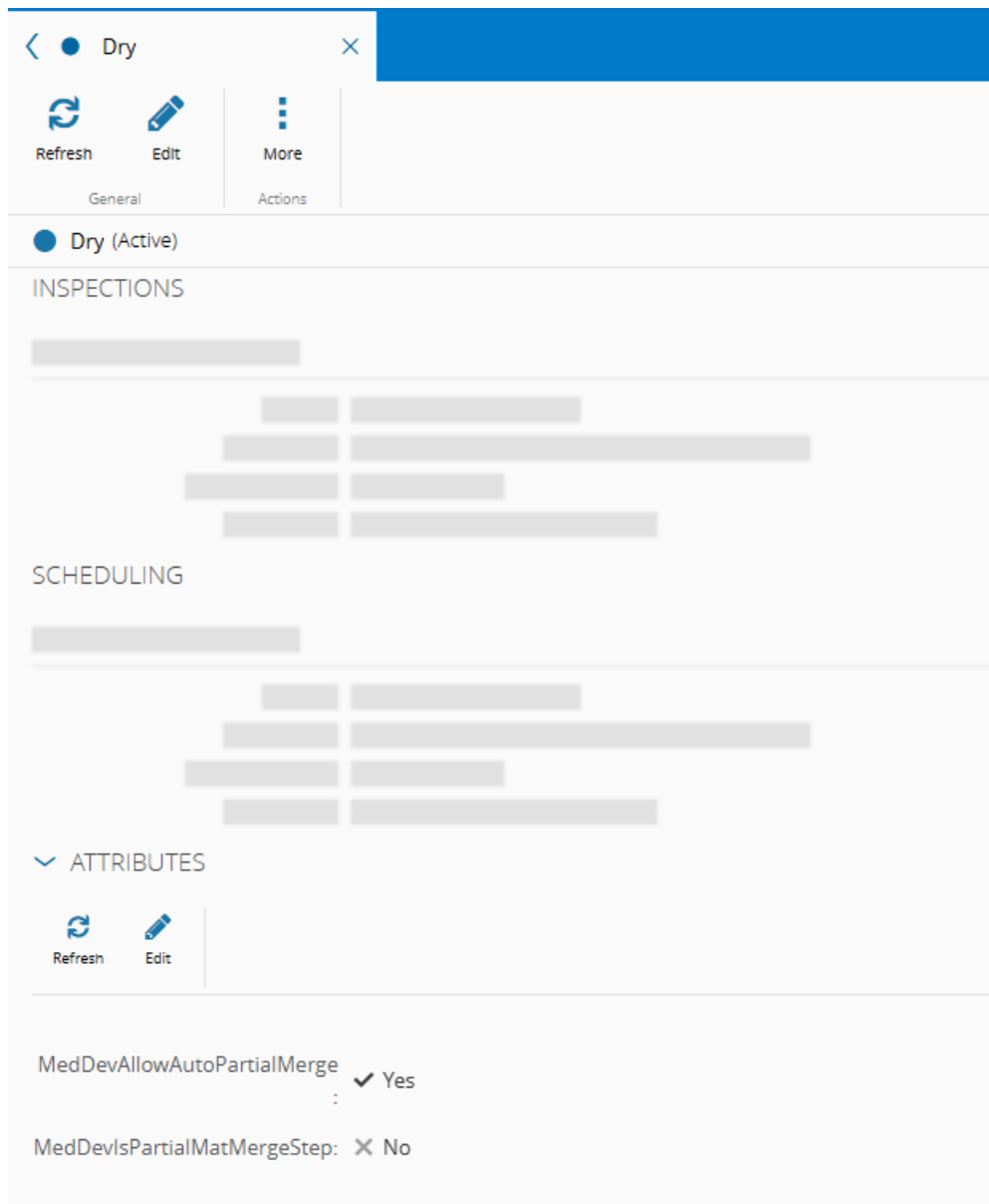
*Refer to configuration in Smart Tables **MedDevMaterialDataCollectionContext** and **MedDevMaterialChecklistContext***



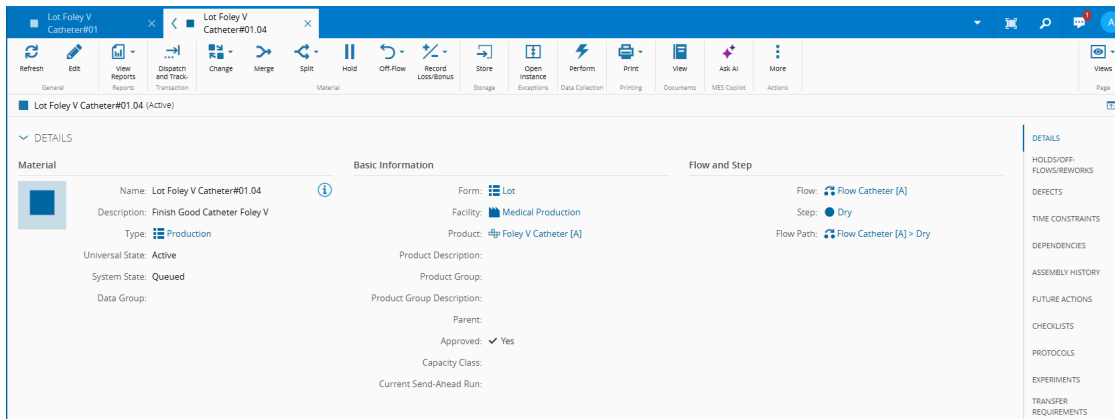
- When **Material** Lot Foley V Catheter#01.01 reaches state Queued in **Step** Catheter Packing :
- **Material** Lot Foley V Catheter#01.01 is set on hold for **Future Action**



10. Perform a partial track-out and move next on **Material** Lot Foley V Catheter#01
 - A new material **Material** Lot Foley V Catheter#01.03 is created with:
 - Quantity: 150
 - Rank: Middle
 - Manufacturing Lot Number: Lot Foley V Catheter#01
11. Perform next flow steps for **Material** Lot Foley V Catheter#01.03 until material reaches **Step** Catheter Packing
 - When track-out operation is performed at **Step** Dry:
 - No **Checklist** is triggered for material with rank Head or Middle
 - No **Data Collection** is triggered for material with rank Middle or Tail
 - *Refer to configuration in Smart Table **MedDevMaterialDataCollectionContext***
 - When **Material** Lot Foley V Catheter#01.03 reaches state Queued in **Step** Catheter Packing:
 - **Material** Lot Foley V Catheter#01.03 is set to on hold for **Future Action**
12. Update **Step** Dry to perform **Auto Partial Merge**
 - Set **Attribute** MedDevAllowAutoPartialMerge to TRUE



13. Perform a partial track-out and move next on **Material** Lot Foley V Catheter#01
 - A new material **Material** Lot Foley V Catheter#01.04 is created with:
 - Quantity: 25
 - Rank: Middle
 - Manufacturing Lot Number: Lot Foley V Catheter#01
14. Perform next flow steps for **Material** Lot Foley V Catheter#01.04 until material reaches **Step** Dry

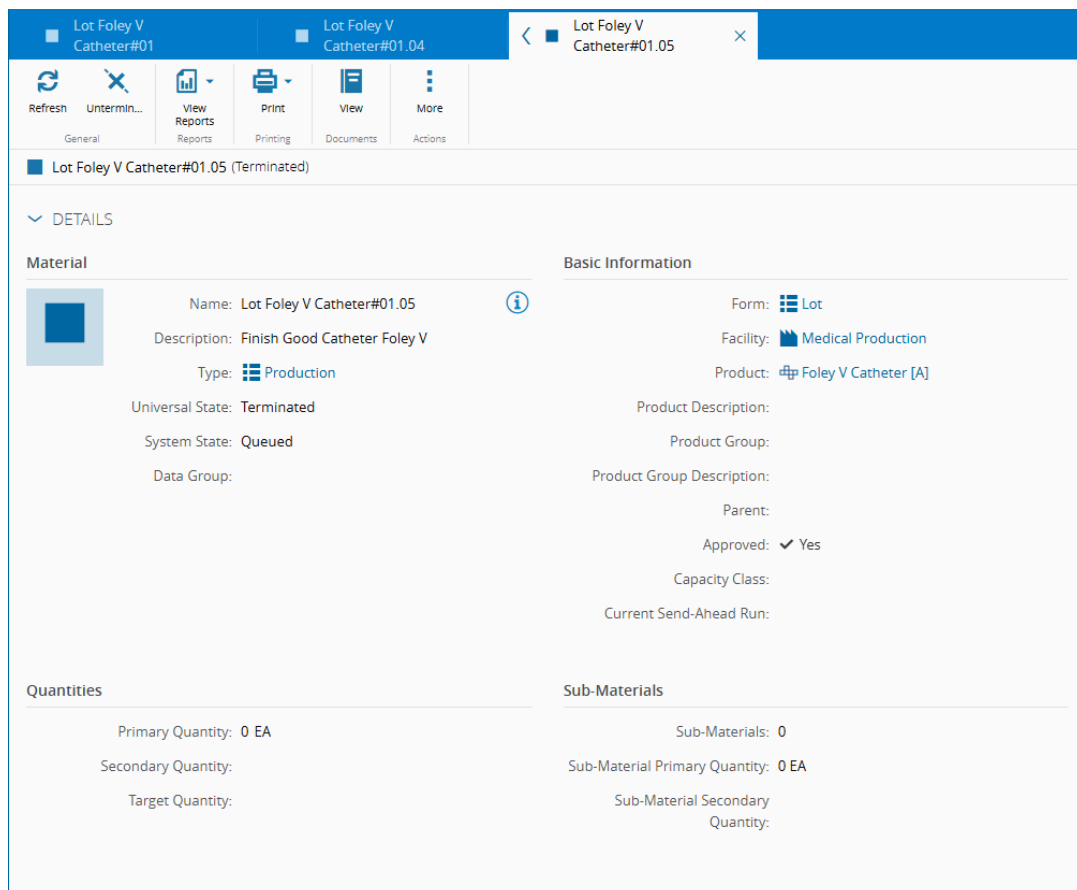


15. Perform a partial track-out and move next on **Material** Lot Foley V Catheter#01

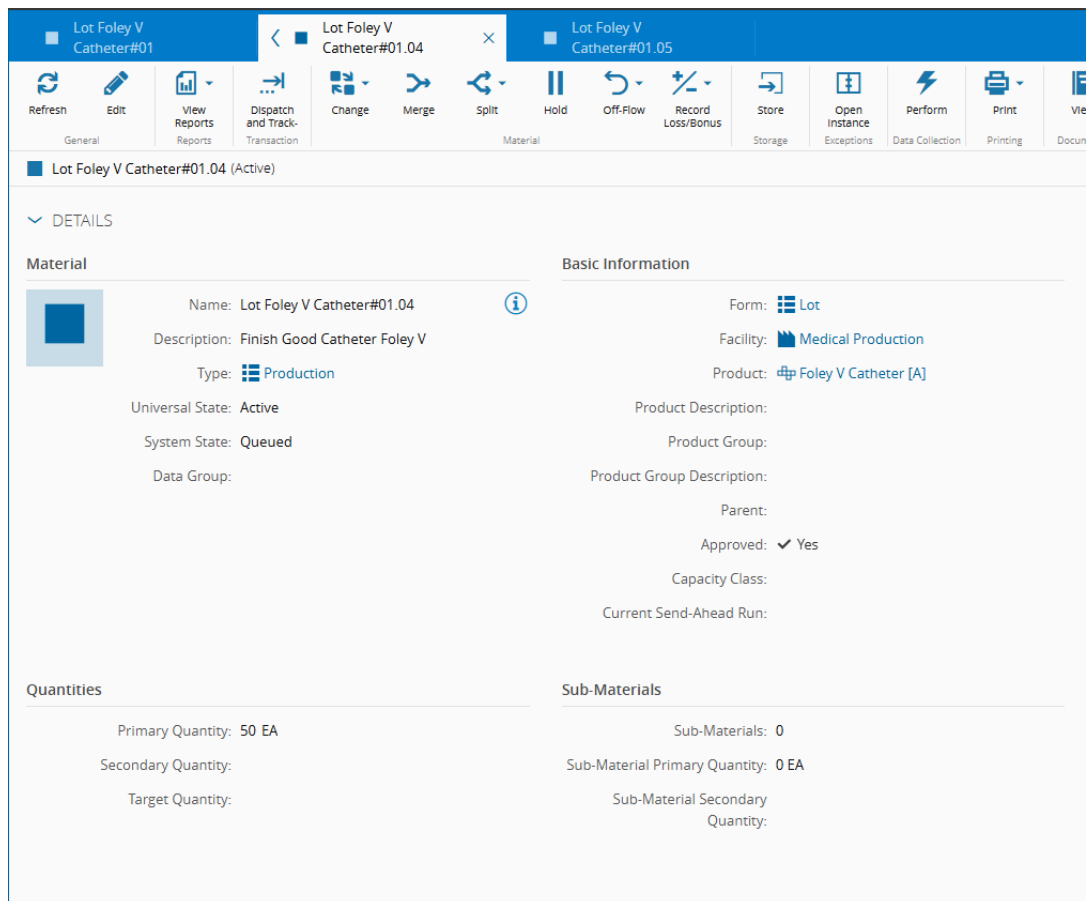
- A new material **Material** Lot Foley V Catheter#01.05 is created with:
- Quantity: 25
- Rank: Middle
- Manufacturing Lot Number: Lot Foley V Catheter#01

16. Perform next flow steps for **Material** Lot Foley V Catheter#01.05 until material reaches **Step** Dry

- **Material** Lot Foley V Catheter#01.05 is merged into **Material** Lot Foley V Catheter#01.04
- **Material** Lot Foley V Catheter#01.05 is terminated



- **Material** Lot Foley V Catheter#01.04 quantity is updated



The screenshot displays the software interface for material management. At the top, there are three tabs for different lots: 'Lot Foley V Catheter#01', 'Lot Foley V Catheter#01.04' (which is active), and 'Lot Foley V Catheter#01.05'. Below the tabs is a toolbar with various icons for actions like Refresh, Edit, View Reports, Dispatch and Track, Change, Merge, Split, Hold, Off-Flow, Record Loss/Bonus, Store, Open Instance, Perform, Print, and View. The main content area is titled 'Lot Foley V Catheter#01.04 (Active)' and contains a 'DETAILS' section. This section is divided into 'Material' and 'Basic Information' panels. The 'Material' panel shows the name 'Lot Foley V Catheter#01.04', description 'Finish Good Catheter Foley V', type 'Production', universal state 'Active', and system state 'Queued'. The 'Basic Information' panel shows form 'Lot', facility 'Medical Production', and product 'Foley V Catheter [A]'. Below these panels are 'Quantities' and 'Sub-Materials' sections. The 'Quantities' section shows a primary quantity of 50 EA, and the 'Sub-Materials' section shows 0 sub-materials.

17. Perform next flow steps for **Material** Lot Foley V Catheter#01 until material reaches **Step** Dry


- **Material** Lot Foley V Catheter#01.04 is merged into **Material** Lot Foley V Catheter#01
- **Material** Lot Foley V Catheter#01.04 is terminated

Lot Foley V Catheter#01
Lot Foley V Catheter#01.04

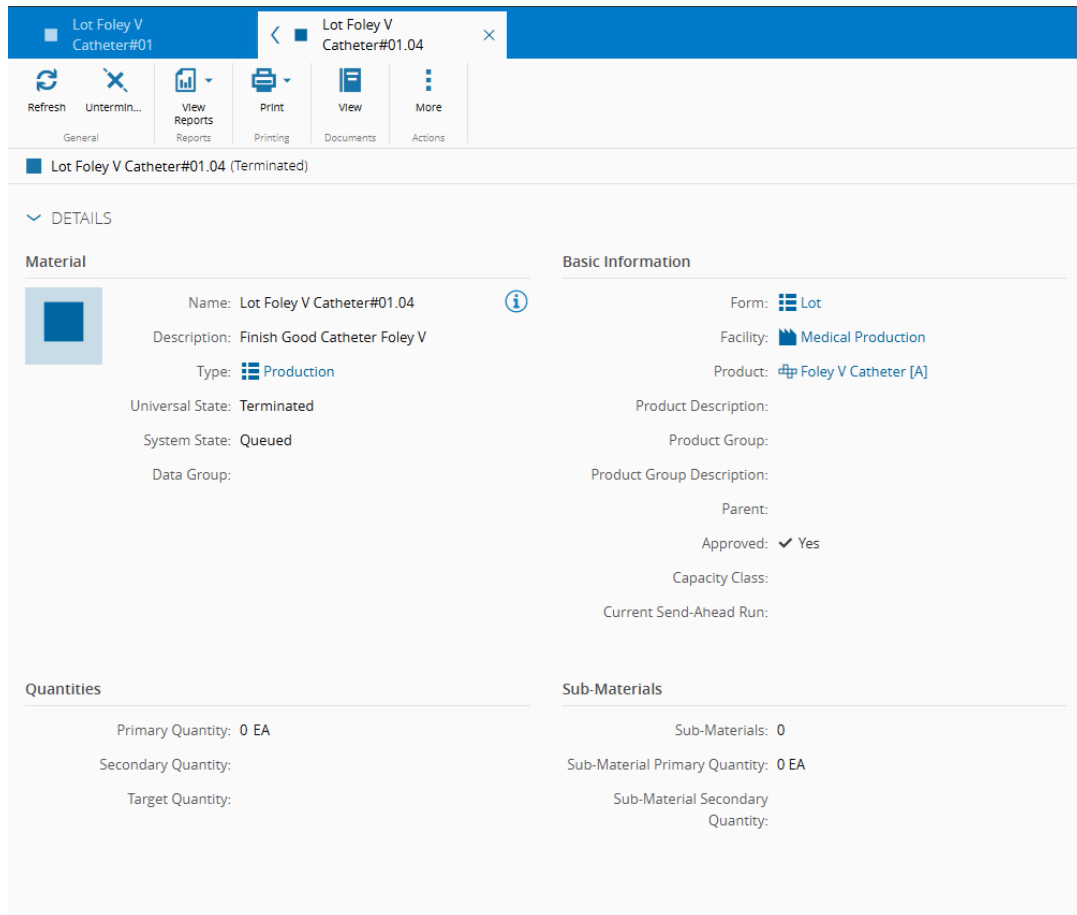
Refresh Edit View Reports Dispatch and Track Change Merge Split Hold Off-Flow Record Loss/Bonus Store Open Instance Perform Print View

Lot Foley V Catheter#01 (Active)

DETAILS

Material	Basic Information
 <p>Name: Lot Foley V Catheter#01 (i)</p> <p>Description: Finish Good Catheter Foley V</p> <p>Type: Production</p> <p>Universal State: Active</p> <p>System State: Queued</p> <p>Data Group:</p>	<p>Form: Lot</p> <p>Facility: Medical Production</p> <p>Product: Foley V Catheter [A]</p> <p>Product Description:</p> <p>Product Group:</p> <p>Product Group Description:</p> <p>Parent:</p> <p>Approved: <input checked="" type="checkbox"/> Yes</p> <p>Capacity Class:</p> <p>Current Send-Ahead Run:</p>
<p>Quantities</p> <p>Primary Quantity: 200 EA</p> <p>Secondary Quantity:</p> <p>Target Quantity:</p>	<p>Sub-Materials</p> <p>Sub-Materials: 0</p> <p>Sub-Material Primary Quantity: 0 EA</p> <p>Sub-Material Secondary Quantity:</p>

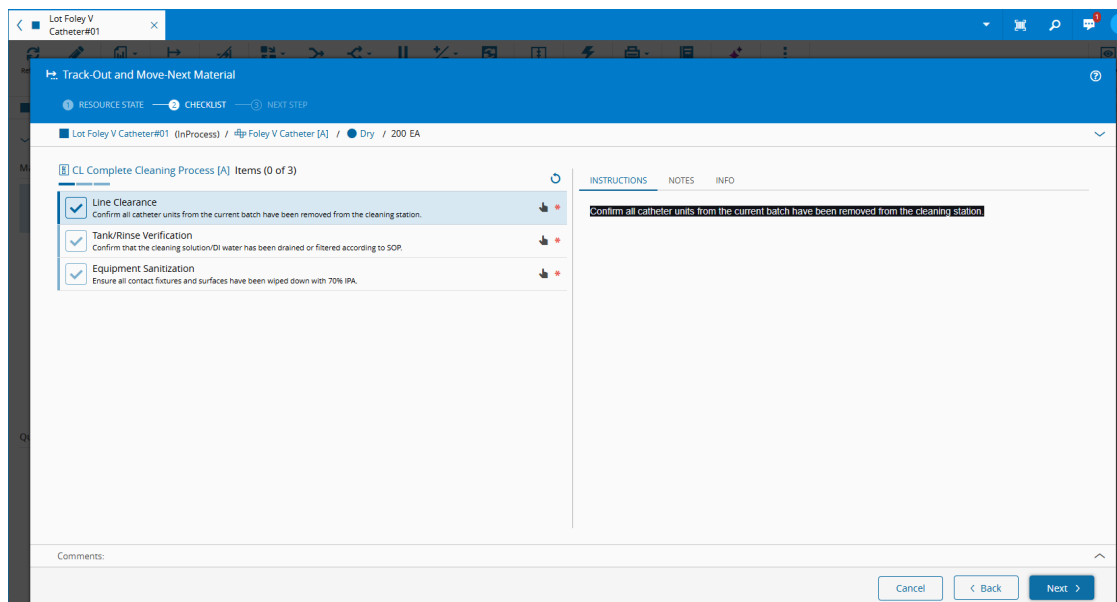
- **Material** Lot Foley V Catheter#01 quantity is updated



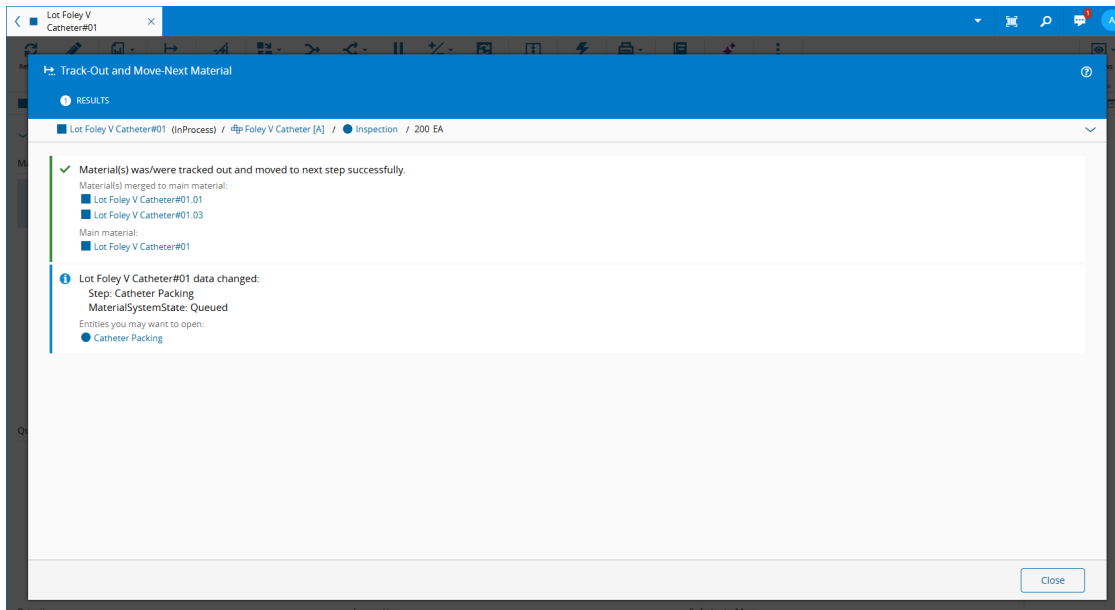
18. Track-out and Move Next **Material** Lot Foley V Catheter#01 from **Step** Dry

- **Checklist** is performed for **Material** Lot Foley V Catheter#01 (Tail)

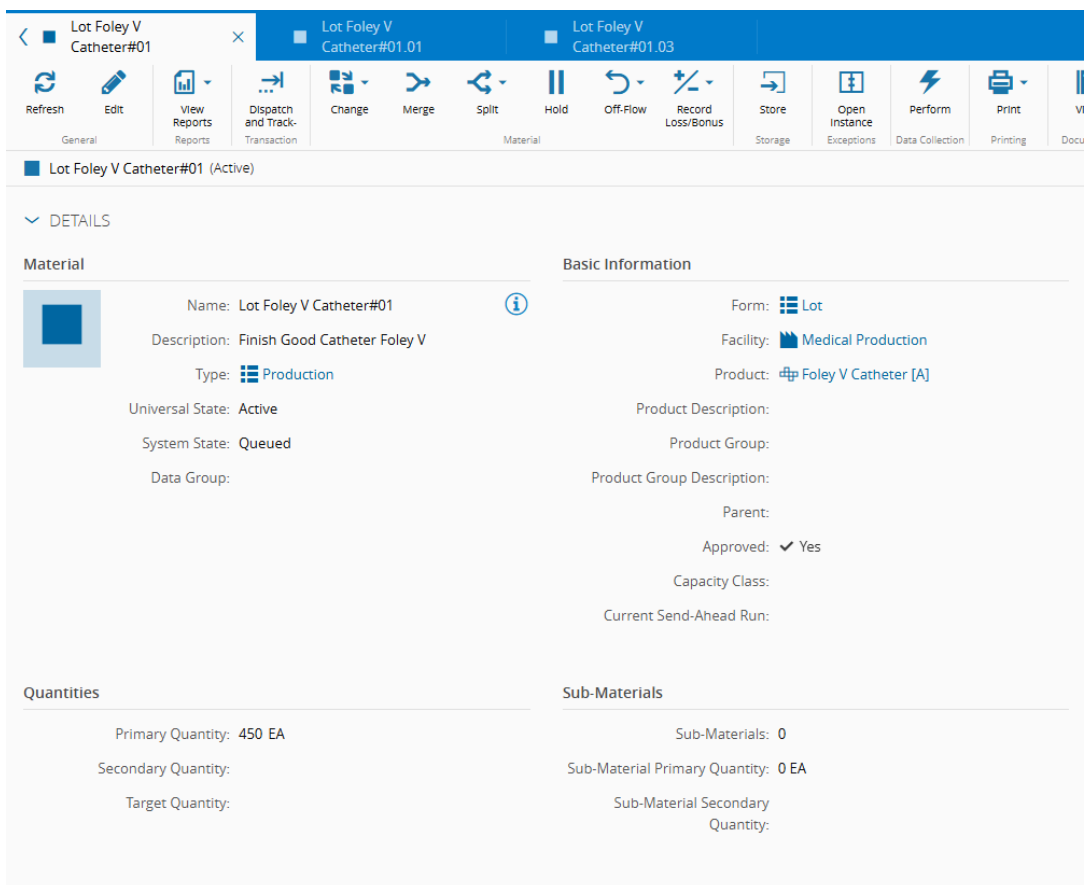
*Refer to configuration in Smart Table **MedDevMaterialChecklistContext***



19. Perform next flow steps for **Material** Lot Foley V Catheter#01 until material reaches **Step** Catheter Packing



- **Materials** Lot Foley V Catheter#01.01 and Lot Foley V Catheter#01.03 are merged into **Material** Lot Foley V Catheter#01
- **Material** Lot Foley V Catheter#01.01 is terminated
- **Material** Lot Foley V Catheter#01.03 is terminated
- **Material** Lot Foley V Catheter#01 is updated
 - Quantity is updated after merge operation



- **Manufacturer Lot Number** is reset

Lot Foley V Catheter#01

Refresh Edit View Reports Dispatch and Track- Change Merge Split

General Reports Transaction Material

Lot Foley V Catheter#01 (Active)

Manufacturer

Manufacturer:

Supplier:

Purchase Order Number:

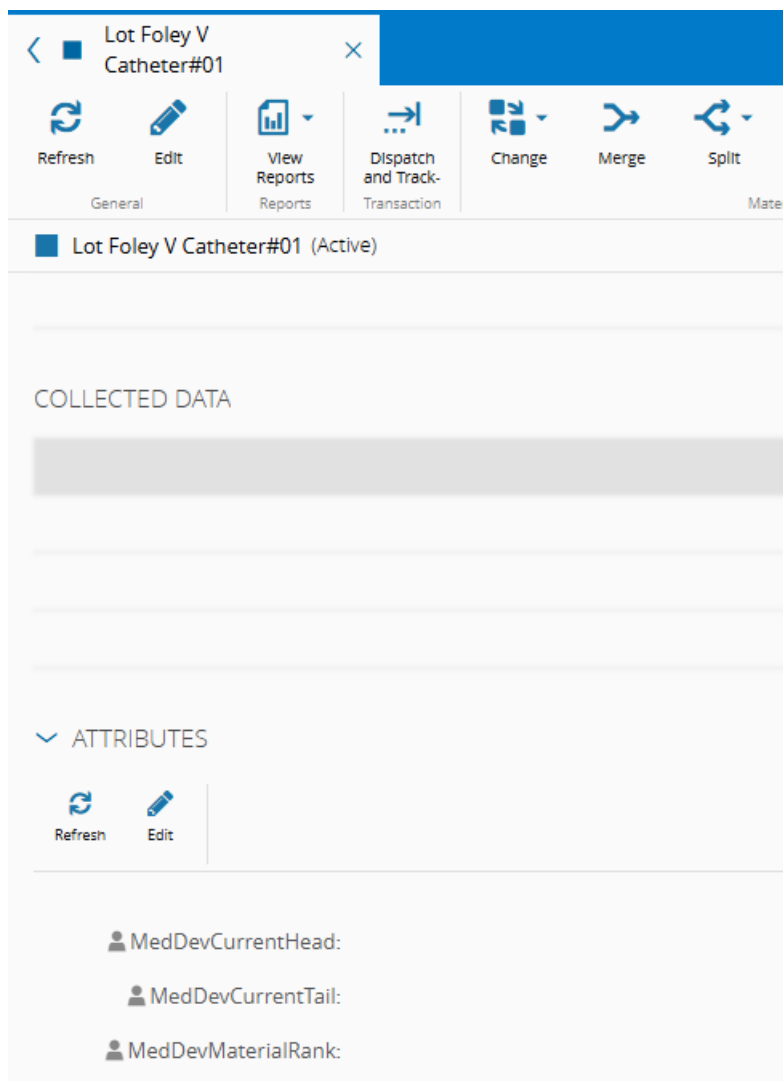
Manufacturer Part Number:

Manufacturer Lot Number:

Manufacturer Date Code:

RoHS Compliant: No

- Attributes are reset



Lot Foley V Catheter#01

Refresh Edit View Reports Dispatch and Track Change Merge Split

General Reports Transaction Material

Lot Foley V Catheter#01 (Active)

COLLECTED DATA

ATTRIBUTES

Refresh Edit

MedDevCurrentHead:
MedDevCurrentTail:
MedDevMaterialRank:

Info

For more information on Continuous Flows, as well as a guide on how it handles Rework scenarios, see [Continuous Flows](#) in the User Guide.



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.