



## Future Actions

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### DOCUMENT ACCESS

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## Future Actions

**Future Actions** in Critical Manufacturing MES are predefined actions that will be triggered when a specific context is met during the journey of a **Material** through a process **Flow**.

These actions facilitate operations by automating activities such as changing **Flow** or **Step**, placing **Materials** on hold, executing **Rules**, setting **Services** or **Resources**, splitting or merging **Materials**, and more — all based on specific triggers.

### Overview

The goal of this tutorial is to provide a comprehensive understanding of how **Future Actions** work within Critical Manufacturing MES, by covering the following key topics:

- **Definition:** Learn how to define **Future Actions** that are directly tied to individual **Materials**, or set at the **Step** level.
- **Precedence:** Understand how **Future Actions** behave when defined at multiple levels.
- **Future Action Types:** Get familiar with the different types of **Future Actions** available in the system.
- **Manage vs Special Manage:** Learn how to manage **Future Actions**, including how to create, edit, and delete them.
- **Scenarios:** Watch guided videos demonstrating examples of configuring and executing **Future Actions**.

### Topics

#### Definition

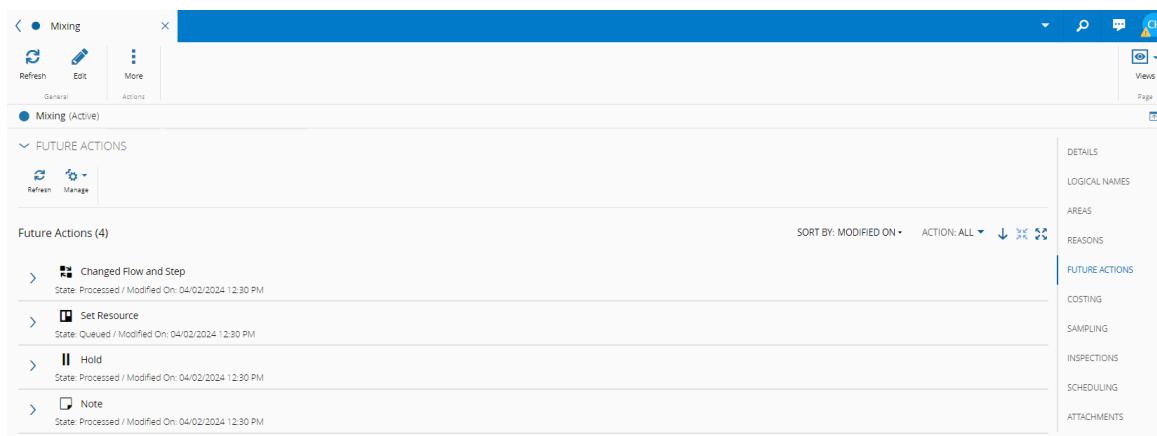
The **Future Actions** section in the Material Details View allows users to view planned actions specifically defined for the **Material**, which will be triggered when the appropriate context is met.

Also, the **Future Actions** section in the Step Details View displays actions defined at the **Step** level, which will be applied to all **Materials** passing through the step under the right conditions.

From both views, **Future Actions** can be managed and edited. Additionally, in the Material Details View, even terminated **Future Actions** can be displayed for reference.

The screenshot shows the Critical Manufacturing MES software interface. The main window is titled 'MAT\_01'. The top navigation bar includes icons for Refresh, Edit, View Reports, Dispatch and Track, Change, Split, Hold, Off-Flow, Record Loss/Bonus, Store, Open Instance, Perform, Request, Print, View, and More. The left sidebar shows a tree view with 'MAT\_01 (Active)' selected, under which 'FUTURE ACTIONS' is expanded, showing 'Future Actions (3)'. The right sidebar contains links for 'DETAILS', 'HOLDS/OFF-FLOWS', 'DEFECTS', 'TIME CONSTRAINTS', 'DEPENDENCIES', 'FUTURE ACTIONS', 'PROTOCOLS', 'EXPERIMENTS', and 'TRANSFER REQUIREMENTS'. The main content area displays a table for 'Future Actions (3)' with columns for 'Step', 'Action Type', 'Description', and 'Modified On'. The table shows three entries: 'Merge' (Step: Baking2 / State: Queued / Modified On: 07/04/2022 10:15 AM), 'Change Flow/Step' (Step: Ash Clean / State: Queued / Modified On: 07/04/2022 10:07 AM), and 'Collapse' (Step: Ash Clean / State: Queued / Modified On: 07/04/2022 10:07 AM).

#### Step Future Actions



Future Actions (4)

SORT BY: MODIFIED ON ▾ ACTION: ALL ▾

DETAILS  
LOGICAL NAMES  
AREAS  
REASONS  
FUTURE ACTIONS  
COSTING  
SAMPLING  
INSPECTIONS  
SCHEDULING  
ATTACHMENTS

Changed Flow and Step  
State: Processed / Modified On: 04/02/2024 12:30 PM

Set Resource  
State: Queued / Modified On: 04/02/2024 12:30 PM

Hold  
State: Processed / Modified On: 04/02/2024 12:30 PM

Note  
State: Processed / Modified On: 04/02/2024 12:30 PM

#### For more information, see these pages

- Material - [Manage Material Future Actions](#)
- Step - [Manage Future Actions](#)
- [Perform Future Action](#)

## Precedence

**Future Actions** can be defined at the **Material** or **Step** level. When multiple actions are configured for the same context, the system needs to determine which one should be executed, this is where precedence comes into play.

Precedence defines the execution priority of overlapping actions. By default, Experiment-level **Future Actions** take precedence, meaning they will override actions defined at the **Material** or **Step** level if a conflict occurs.

However, it is possible to manually adjust this behavior. When configuring a **Future Action** on a **Material** or **Step**, selecting the **High** precedence option in the Action details will elevate its priority above the default.

### Action Details

\* Action:

Precedence:  Standard  High

#### Info

You can find the predefined **Future Actions** precedence keys listed here: [Future Actions Precedence Keys](#).

## Future Action Types

The system supports a wide range of **Future Actions** that can be triggered based on defined conditions. These actions are used to facilitate the production process and user experience, by triggering common tasks such as changing **Flow** and **Step**, setting **Resources** or splitting **Materials**.



The following table outlines the available types of **Future Actions**, indicating whether each action can be configured at the **Step** or **Material** level, along with relevant notes or requirements for its execution.

Future Action	On Step Entity	On Material Entity	Comments
<b>Change Flow And Step</b>	Yes	Yes	Configuration of <b>Flow</b> and <b>Step</b> is required
<b>Collapse</b>	Yes	Yes	Applicable for Sub <b>Materials</b>
<b>Create Send-Ahead Run</b>	Yes	Yes	
<b>Execute Rule</b>	Yes	Yes	Configuration of the <b>Rule</b> is required
<b>Hold</b>	Yes	Yes	Configuration of the Hold <b>Reason</b> and optionally a Release Role is required
<b>Merge</b>	No	Yes	Execution can be automatic or manual
<b>Send Mail</b>	Yes	Yes	
<b>Set Note</b>	Yes	Yes	
<b>Set Resource</b>	Yes	Yes	Configuration of the <b>Resource</b> to be used is required
<b>Set Service</b>	Yes	Yes	Configuration of the <b>Service</b> to be used is required
<b>Skip Process</b>	No	Yes	<b>Step</b> should be skippable
<b>Split</b>	No	Yes	Execution can be automatic or manual
<b>Split For Step</b>	No	Yes	Execution can be automatic or manual
<b>Temporary Off Flow</b>	No	Yes	Configuration of the Off Flow <b>Reason</b> and <b>Flow</b> and <b>Step</b> is required
<b>Terminate</b>	Yes	Yes	Configuration of the Loss <b>Reason</b> with Terminate option is required

## Manage vs Special Manage

Within both the **Step** and **Material Detail Views**, users have access to a Manage **Future Actions** option. This functionality allows users to create, edit, or remove **Future Actions** associated with the selected **Step** or **Material**. It is typically used to manage actions that the user has previously created.

In addition, the system provides a Special Manage **Future Actions** option. This extended capability enables users to manage **Future Actions** that were created by other users. However, this option is only available if the user has been granted the `FutureAction.SpecialEdit` feature.

 For more information, see these pages

- [Special Manage Material Future Actions](#)
- [Special Manage Future Actions](#)

## Scenarios

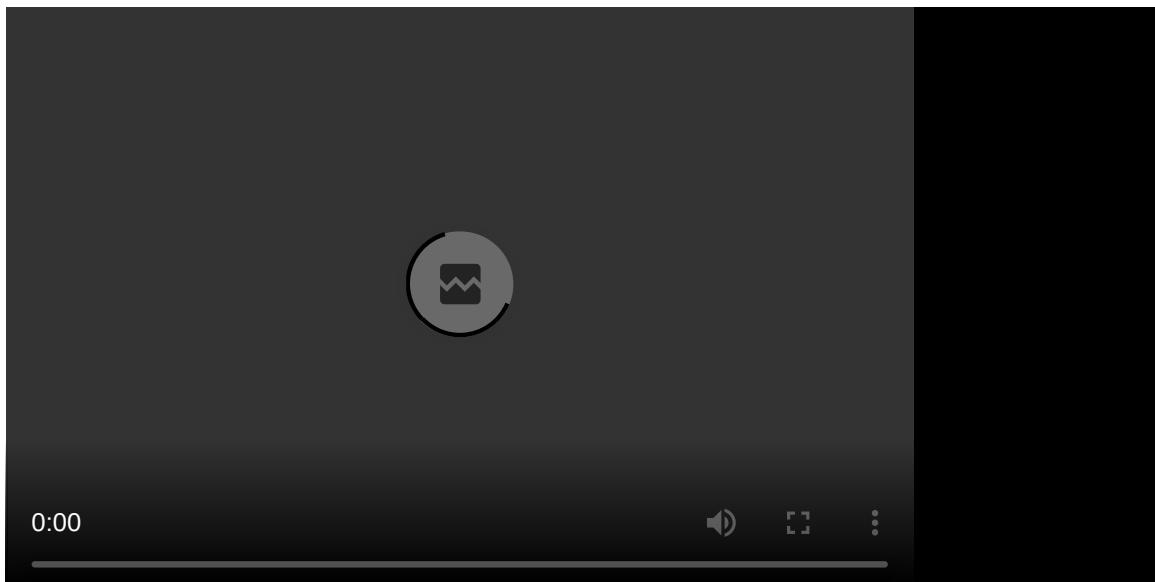
This section includes a series of short video demonstrations showcasing how to create and manage **Future Actions** at both the **Step** and **Material** levels. These examples illustrate practical use cases and guide you through the expected behavior and execution logic.

### Create Future Actions on a Step

In this scenario, we walk through a process flow composed of five **Steps**, where the first is a line **Step**, each configured with specific **Future Action**:

- Step 1 (Line Step): Collapse action triggered when the **Material** is Processed
- Step 2: Set Note when the **Material** is Queued, and Hold when it is Processed
- Step 3: Set **Service** on when the **Material** is Queued, and Execute **Rule** when it is Processed
- Step 4: Set **Resource** when the **Material** is Queued, and Detach when it is Processed
- Step 5: Change **Flow** and **Step** when the **Material** is Queued
- New Flow Step: Terminate action triggered when the **Material** is Queued

Watch how this scenario unfolds in the video below.

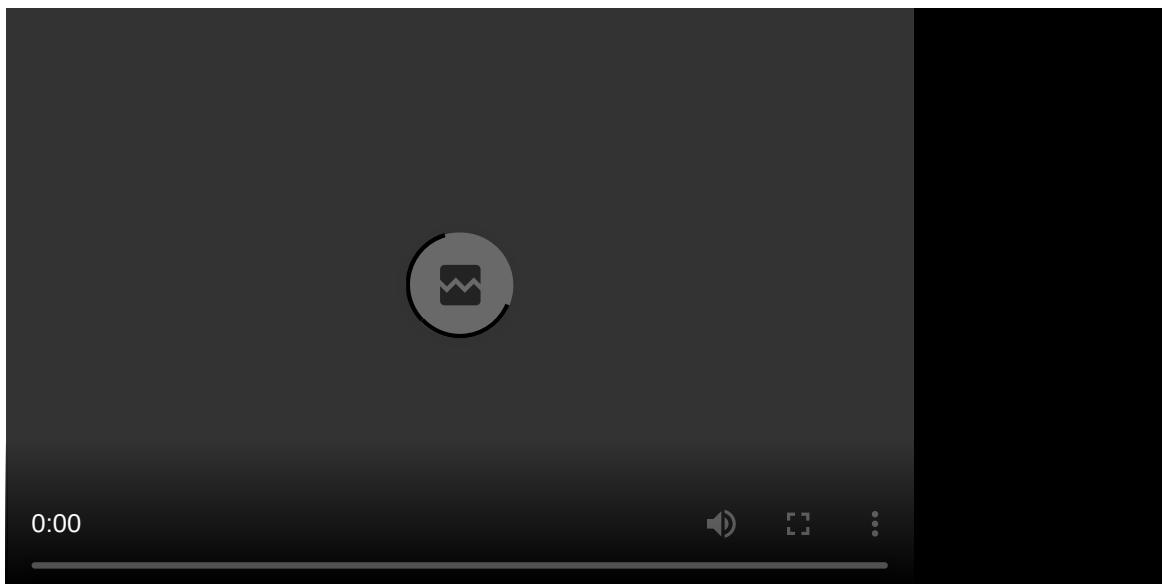


### Create Future Actions on a Material

In this scenario, the **Material** follows a **Flow** composed of three **Steps**, with configured **Future Actions**:

- Step 1: Send to Temporary Off Flow when the **Material** is Processed.
- Off Flow Step: Split the **Material** when it is in the Queued state.
- Step 2: Skip Process, followed by an Automatic Merge when the **Material** is Processed.
- Step 3: Split for **Step** action is triggered.

Take a closer look at how this scenario plays out in the video below.





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