

Execution Flow

1. **Workflow Process Creation:** A CPD-controlled item (Change Order, Change Request, Change Task, etc.) creates a Workflow Process based on the default Workflow Map.
2. **Event Trigger:** The Workflow Process onAfterAdd event fires after the workflow is created.
3. **Rule Retrieval:** The dynamic assignment engine queries the related Change Process Definition and retrieves all enabled Workflow Assignment Rules configured for the workflow.
4. **Sequence Ordering:** Rules are sorted by their Sequence value in ascending order (lowest to highest).
5. **Rule Filtering:** The system identifies which rules apply based on Target configuration:
 - o **Workflow** target rules: Execute once with the Workflow Process as context
 - o **Activity** target rules: Execute for each matching Activity in the workflow
6. **Context Preparation:** For each rule execution, the system adds context attributes to the target item:
 - o @context_type_id: Item Type ID of the CPD-controlled item (e.g., Change Order)
 - o @context_item_id: Item ID of the CPD-controlled item
7. **Rule Method Invocation:** Each rule's method is called with the prepared context item:
 - o Method receives Workflow Process or Activity as this
 - o Method can access context attributes to query the source item
 - o Method creates or modifies Activity Assignment items as needed
8. **Assignment Creation:** Rule methods modify Activity Assignment items according to custom business logic.
9. **Error Collection:** The system tracks execution results for each rule (see Section 7.4.2 for error handling details).
10. **Completion:** Workflow becomes active with assignments established or fails if errors occurred.



CO-00000012 ☆

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Change Order

Number	Title	Status
CO-00000012	Update Material Specification for Housing Component P-4521	Draft
Priority	Reason of Change	
High	Current material (ABS plastic) does not meet updated environmental compliance standards (RoHS 3.0). Supplier has discontinued the original material grade.	
Team		
Product Team		
Planned Completion Date	Description	
12/25/2025	Change the housing component material from ABS Grade A-100 to ABS Grade A-200 (halogen-free). This modification ensures compliance with EU RoHS 3.0 directive effective January 2026. The new material maintains equivalent mechanical properties while meeting environmental requirements. Updated material certification documents attached.	
Actual Completion Date		

Affected Items 0 Supporting Data 0 Files 0 Change Requests 0 Change Tasks Workflow Assignments SignOffs

Refresh Filter View 2 Undo Redo Grid

Workflow Activities/Assignments	Voting Weight %	Required	For All Members	Wait For All Votes
CO-00000012				
Prepare Implementation Plan [Active]				<input type="checkbox"/>
Claire Mao	100	<input type="checkbox"/>	<input type="checkbox"/>	
Review Implementation Plan [Pending]				<input checked="" type="checkbox"/>
Change Review Board	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Execute Change Plan [Pending]				<input type="checkbox"/>
Sarah Mitchell	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
James Chen	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Verify Implementation [Pending]				<input checked="" type="checkbox"/>
Change Verifiers	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



CO-0000013 ☆

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CO-0000013

Revise Dimensional Tolerances for Mounting Bracket MB-0893

Draft

Priority

Critical

Reason of Change

Field reports indicate assembly difficulties due to tight tolerances causing interference fit issues. Manufacturing yield has dropped to 87%.

Team

Product Team

Planned Completion Date

12/12/2025

Description

Increase the outer diameter tolerance from ±0.05mm to ±0.10mm on the mounting bracket. This change will improve manufacturability and reduce assembly time by approximately 15%. Engineering analysis confirms the revised tolerance maintains structural integrity and functional requirements.

Actual Completion Date

Affected Items 0 Supporting Data 0 Files 0 Change Requests 0 Change Tasks Workflow Assignments SignOffs

Refresh Filter View 2

Workflow Activities/Assignments	Voting Weight %	Required	For All Members	Wait For All Votes
CO-0000013				
Prepare Implementation Plan [Active]				<input type="checkbox"/>
Claire Mao	100	<input type="checkbox"/>	<input type="checkbox"/>	
Jason Donovan	100	<input type="checkbox"/>	<input type="checkbox"/>	
Review Implementation Plan [Pending]				<input checked="" type="checkbox"/>
Change Review Board	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Jason Donovan	100	<input type="checkbox"/>	<input type="checkbox"/>	
Execute Change Plan [Pending]				<input type="checkbox"/>
Jason Donovan	50	<input type="checkbox"/>	<input type="checkbox"/>	
Maria Rodriguez	50	<input type="checkbox"/>	<input type="checkbox"/>	
Verify Implementation [Pending]				<input checked="" type="checkbox"/>
Change Verifiers	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Jason Donovan	100	<input type="checkbox"/>	<input type="checkbox"/>	



Context Information

Rule methods receive context information through XML attributes on the target item:

```
// These attributes are set by the rule execution engine
string contextTypeId = this.getAttribute("context type id");
string contextItemId = this.getAttribute("context_item_id");
```

```
// Example: Loading the source Change Order
Innovator inn = this.getInnovator();
Item sourceItem = inn.newItem();
sourceItem.setAction("get");
sourceItem.setAttribute("typeId", contextTypeId);
sourceItem.setID(contextItemId);
sourceItem = sourceItem.apply();
```

// Now you can access Change Order properties, affected items, etc.

This context enables rules to make assignment decisions based on

- Affected items and their properties (owners, classification, etc.)
- Supporting data attached to the change
- Change Order properties (priority, description, managed_by_id)
- Related workflow or activity information

