



Migration Guide

11.1

January 2026

DOCUMENT ACCESS

Public

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Migration Guide

Estimated time to read: 4 minutes

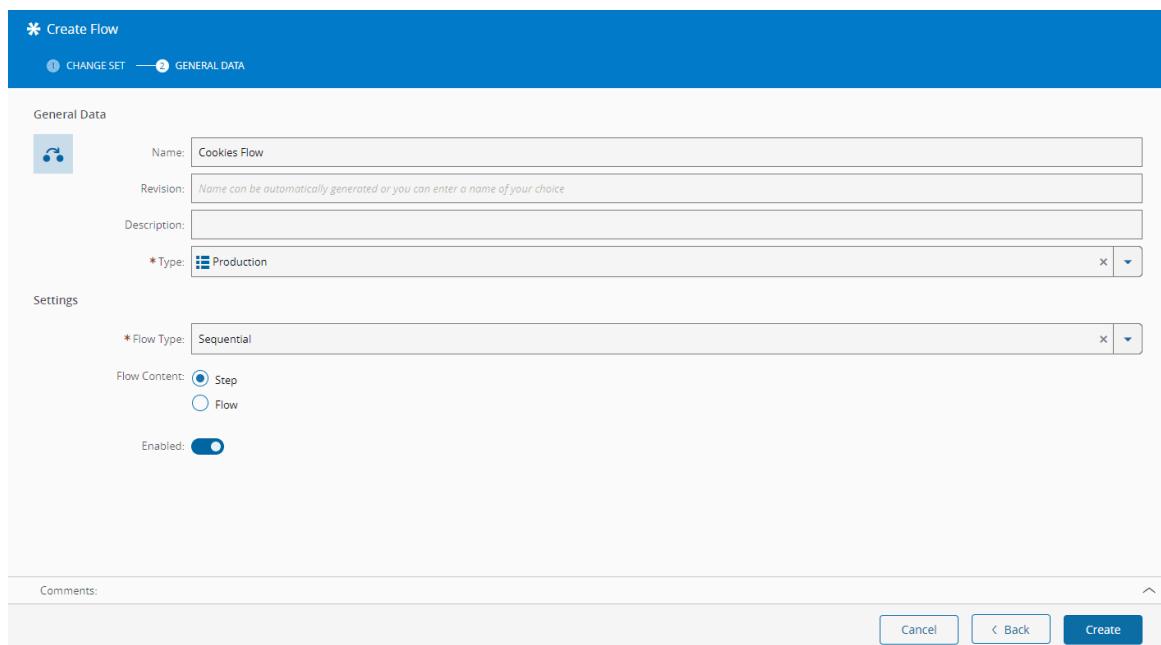
Version 11.0 introduced significant changes to Critical Manufacturing MES system, impacting several aspects of how you create and manage **Flows**, **Rework Paths**, and **Master Data Packages**. This guide highlights the key differences and provides step-by-step instructions to help you navigate these updates.

Creating a Flow

General Data

Before version 11.0, in the General Data wizard, when the Flow Type was Sequential or Alternate, you had to specify the type of child nodes for the **Flow**, whether they were **Steps** or **Flows**. After version 11.0, you only need to specify the Flow Type from the following options:

- Sequential
- Alternate (choose Single or Multiple Selection)
- Non-Sequential Block
- Line



*** Create Flow**

1 CHANGE SET — 2 GENERAL DATA

General Data

Name: Cookies Flow

Revision: Name can be automatically generated or you can enter a name of your choice

Description:

* Type: Production

Settings

* Flow Type: Sequential

Flow Content: Step Flow

Enabled:

Comments:

Cancel < Back Create

After version 11.0

* Create Flow

1 CHANGE SET — 2 GENERAL DATA

General Data

Name: Standard Cookie Flow

Revision: *Name can be automatically generated or you can enter a name of your choice*

Description:

* Type:  Production

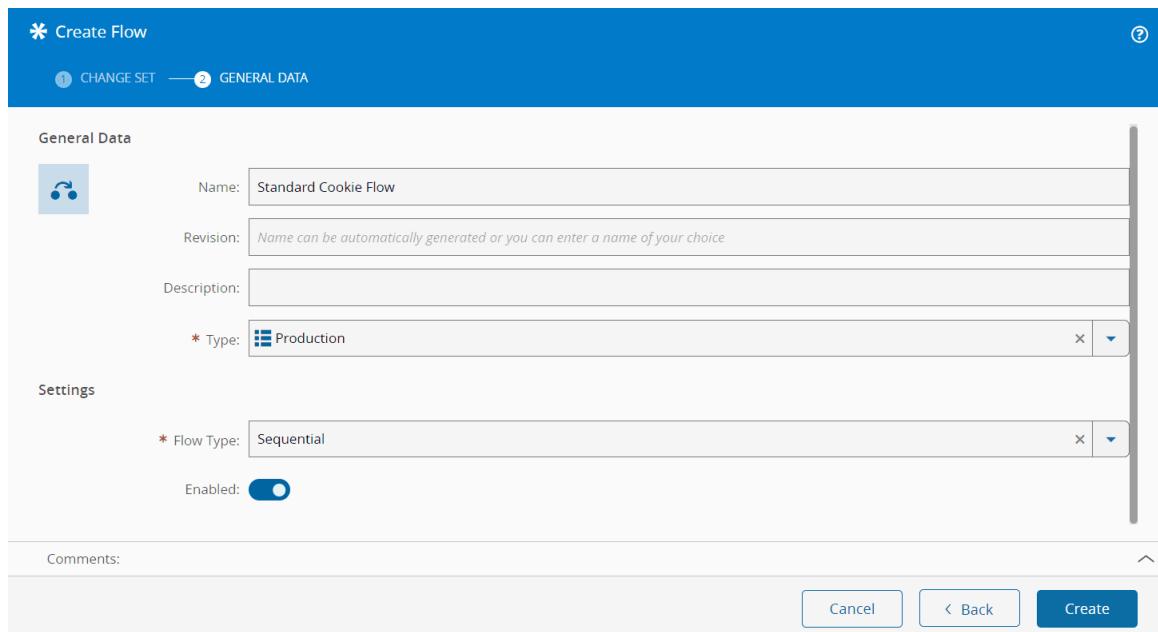
Settings

* Flow Type: Sequential

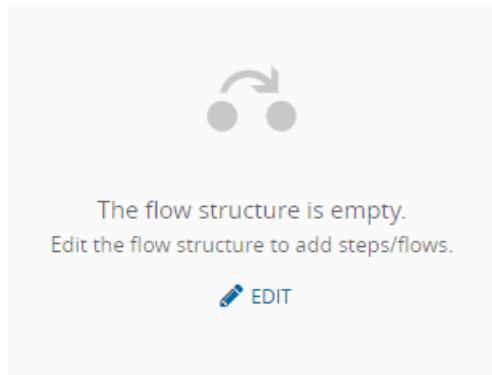
Enabled: 

Comments:

Cancel Back Create



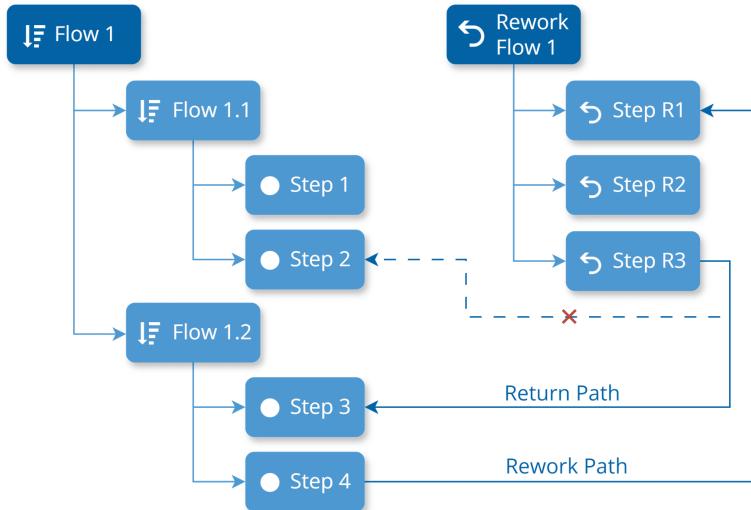
This means you don't have to indicate whether your **Flow** comprises only **Steps** or **Flows**; it can include both at the same level. You can add as many **Flow Items** as you like by selecting the  button.



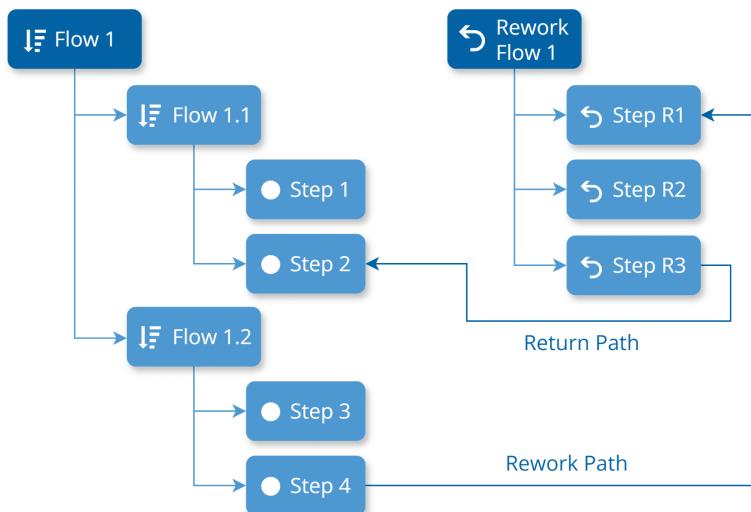
Rework Paths

Before version 11.0, when configuring Rework Flows, the Return Path had to be a **Step** within that **Flow**. So, in the **Before version 11.0** example shown below, if the Rework Path was configured in Step 4, the Return point would have to be Step 3. After version 11.0, Rework Paths can be defined at the **Parent Flow** level, allowing Return Paths to any **Step** within its structure. These Return Paths are anchored to the **TopMost Flow** where they are defined, rather than to a specific **Flow Item**. For instance, in the **After version 11.0** diagram, the Return Path can be any **Step** (e.g., Step 1, Step 2, Step 3, or Step 4) within the **TopMost Flow** (Flow 1).

Before version 11.0



After version 11.0



Master Data Template

Before version 11.0, the **Flow** sheet in the Master Data required specifying the Child Type (column D), indicating whether it was a **Step** or a **Flow**. After version 11.0, this requirement moved to the **Flow Items** sheet (column B).

Before version 11.0

A	B	C	D	E	F	G	H	I	J	K	L
Name	Description	Type	ChildType	IsAlternate	IsEnabled	IsNonSequentialBlock	IsLineFlow	DocumentationURL	IsTemplate	LastCorrelationID	ContainsLogicalNames
CookieProductionFlow [C.2]	Cookie Production Flow	Production	Step	No	Yes	No	No	No	No	5	No
Main Flow [A.2]	Flow with Flows	Production	Flow	No	Yes	No	No	No	No	No	No
Alternate Flow Example [A.1]	Alternate Flow Example	Production	Step	Yes	Yes	No	No	No	No	No	No
Non-Sequential Block [A.1]	Non-Sequential Block	Production	Step	No	Yes	Yes	No	No	No	No	No
Flow With Rework Paths [A.1]	Flow With Rework Paths	Production	Step	No	Yes	No	No	No	No	No	No

After version 11.0

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Name	Type	Target	IsOptional	Reworks	Rule	LineFlow	LogicalName	OnEnterRule	OnExitRule	ConditionType	ConditionExpression	ConditionRule	Conditions		
Alternate Flow Example [A.1]	Flow	Alternate Flow Multiple Selection	No	No						Expression	\$contains(Name, "Material01")				
Alternate Flow Example [A.1]	Flow	Alternate Flow Single Selector	No	No						Expression	\$contains(Name, "Material02")				
Alternate Flow Multiple Selection [A.1]	Step	Step 01	No	No						Rule	isMaterial01				
Alternate Flow Multiple Selection [A.1]	Step	Step 02	No	No						Rule	isMaterial02				
Alternate Flow Multiple Selection [A.1]	Step	Step 03	No	No						Rule	isMaterial01				
Alternate Flow Multiple Selection [A.1]	Step	Step 04	No	No						Rule	isMaterial02				
Alternate Flow Multiple Selection [A.1]	Step	Step 05	No	No						Expression	\$contains(Name, "Material01")				
Alternate Flow Single Selection [A.1]	Step	Step 01	No	No						Expression	\$contains(Name, "Material02")				
Alternate Flow Single Selection [A.1]	Step	Step 02	No	No						Rule	isMaterial01				
Alternate Flow Single Selection [A.1]	Step	Step 03	No	No						Rule	isMaterial02				
Chocolate [A.1]	Step	Chocolate Preparation	No	No						Expression	\$contains(Name, "Material01")				
Chocolate [A.1]	Step	Chocolate Mixing	No	No						Expression	\$contains(Name, "Material02")				
Chocolate [A.1]	Step	Chocolate Cooking	No	No						Rule	isMaterial01				
Chocolate [A.1]	Step	Chocolate Packaging	No	No						Rule	isMaterial02				
CookiesFlow [A.2]	Step	Woolding	No	No						NotificationOnEnter	NotificationOnExit				
CookiesFlow [A.2]	Step	Baking	No	No											
CookiesFlow [A.2]	Step	Cooling	No	No											
CookiesFlow [A.2]	Step	Packing	No	No											
Flow With Enter and Exit Rules [A.1]	Step	Step 01	No	No											
Flow With Enter and Exit Rules [A.1]	Step	Step 02	No	No											
Flow With Inherited Rework Paths [A.2]	Step	Step 01	No	No	description[1]!gotoflowpath[1]No										
Flow With Inherited Rework Paths [A.2]	Step	Step 02	No	No	description[1]!gotoflowpath[1]No										
Main Flow [A.2]	Step	Step 01	No	No	description[1]!gotoflowpath[1]No										
Main Flow [A.2]	Step	Step 02	Yes	No	description[1]!gotoflowpath[1]No										
Main Flow [A.2]	Step	Step 03	No	No											
Main Flow [A.2]	Step	Step 04	No	No											
Main Flow [A.2]	Step	Step 05	No	No											
Main Flow [A.2]	Step	Step 06	No	No											
Main Flow [A.2]	Step	Step 07	No	No											
Main Flow [A.2]	Step	Step 08	No	No											
Main Flow [A.2]	Step	Step 09	Yes	No											
Non-Sequential Block [A.1]	Step	Step 01	No	No											
Non-Sequential Block [A.1]	Step	Step 02	No	No											
Non-Sequential Block [A.1]	Step	Step 03	No	No											
Sequential Flow With Conditional Steps [A.1]	Step	Step 01	No	No											
Flow With Rework Paths [A.1]	Step	Step 02	No	No											

After version 11.0, it is also possible to choose whether your **Alternate Flow** uses Single or Multiple Selection (column J). Single Selection considers only the first **Flow Item** whose condition resolves to true when attempting to move the **Material** to the next **Step**, while Multiple Selection allows choosing from any **Flow Items** with true conditions. Before version 11.0, Multiple Selection was the default setting, and this choice wasn't available.

Before version 11.0

A	B	C	D	E	F	G	H	I	J	K	L
Name	Description	Type	ChildType	IsAlternate	IsEnabled	IsNonSequentialBlock	IsLineFlow	DocumentationURL	IsTemplate	LastCorrelationID	ContainsLogicalNames
CookieProductionFlow [C.2]	Cookie Production Flow	Production	Step	No	Yes	No	No	No	No	5	No
Main Flow [A.2]	Flow with Flows	Production	Flow	No	Yes	No	No	No	No	No	No
Alternate Flow Example [A.1]	Alternate Flow Example	Production	Step	Yes	Yes	No	No	No	No	No	No
Non-Sequential Block [A.1]	Non-Sequential Block	Production	Step	No	Yes	Yes	No	No	No	No	No
Flow With Rework Paths [A.1]	Flow With Rework Paths	Production	Step	No	Yes	No	No	No	No	No	No

After version 11.0

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Name	Description	Type	ChildType	IsAlternate	IsEnabled	IsNonSequentialBlock	IsLineFlow	DocumentationURL	IsTemplate	LastCorrelationID	ContainsLogicalNames	AlternateFlowSelectionType			
Alternate Flow Example [A.1]	Alternate Flow Example	Production	Step	Yes	No	No	No	No	No	5	No	Multiple			
Alternate Flow Multiple Selection [A.1]	Alternate Flow Multiple Selection	General	Step	Yes	No	No	No	No	No	No	No	Multiple			
Alternate Flow Single Selection [A.1]	Alternate Flow Single Selection	General	Step	Yes	No	No	No	No	No	No	No	Single			
Chocolate [A.1]	Chocolate Flow	Production	Step	No	Yes	No	No	No	No	No	No				
CookiesFlow [A.2]	CookiesFlow Flow	Production	Step	No	Yes	No	No	No	No	No	No				
Flow With Enter and Exit Rules [A.1]	Flow With Enter and Exit Rules	General	Step	No	Yes	No	No	No	No	No	No				
Flow With Inherited Rework Paths [A.2]	Flow With Inherited Rework Paths	General	Step	No	Yes	No	No	No	No	No	No				
Line Flow [A.1]	Line Flow	FrontEnd	Step	No	Yes	No	No	No	Yes	No	No				
Main Flow [A.2]	Main Flow With Sampling Steps	General	Step	No	Yes	No	No	No	No	No	No				
Non-Sequential Block [A.1]	Non-Sequential Block	Production	Step	No	Yes	Yes	No	No	No	No	No				
Sequential Flow With Conditional Steps [A.1]	Sequential Flow With Conditional Steps	General	Step	No	Yes	No	No	No	No	No	No				
Standard Cookie Flow [A.1]	Standard Cookie Flow	Production	Step	No	Yes	No	No	No	No	No	No				

In version 11.0, the **Flow Structure** sheet was renamed to **Flow Items**, requiring you to change the name of this sheet in your Master Data template to be compatible with versions above 11.0. In addition, it's now possible to set Rework Path conditions, such as Expressions (column L), Rules (column M), Sampling Steps (column N), and Sampling Plans (column O). You can also define entry and exit Rules for **Steps** (columns J and K).

Before version 11.0

After version 11.0

A	B	C	D	E	F	G	H	I	J	K	L	M
Flow	Type	Target	IsOptional	Reworks	IsLine	LineFlow	LogicalName	OnEnterRule	OnExitRule	ConditionType	ConditionExpression	ConditionRule
2	Alternate Flow Example [A.1]	Flow	Alternate Flow Multiple Select	No								
3	Alternate Flow Example [A.1]	Flow	Alternate Flow Single Selector	No								
4	Alternate Flow Multiple Selection [A.1]	Step	Step 01	No						Expression	\$contains(Name, "Material01")	
5	Alternate Flow Multiple Selection [A.1]	Step	Step 02	No						Expression	\$contains(Name, "Material02")	
6	Alternate Flow Multiple Selection [A.1]	Step	Step 03	No						Rule		isMaterial01
7	Alternate Flow Multiple Selection [A.1]	Step	Step 04	No						Rule		isMaterial02
8	Alternate Flow Multiple Selection [A.1]	Step	Step 05	No								
9	Alternate Flow Single Selection [A.1]	Step	Step 01	No						Expression	\$contains(Name, "Material01")	
10	Alternate Flow Single Selection [A.1]	Step	Step 02	No						Expression	\$contains(Name, "Material02")	
11	Alternate Flow Single Selection [A.1]	Step	Step 03	No						Rule		isMaterial01
12	Alternate Flow Single Selection [A.1]	Step	Step 04	No						Rule		isMaterial02
13	Chocolate [A.1]	Step	Chocolate Preparation	No								
14	Chocolate [A.1]	Step	Chocolate Mixing	No								
15	Chocolate [A.1]	Step	Chocolate Cooking	No								
16	Chocolate [A.1]	Step	Chocolate Packaging	No								
22	CookiesFlow [A.2]	Step	Mixing	No								
23	CookiesFlow [A.2]	Step	Preparation	No								
24	CookiesFlow [A.2]	Step	Baking	No								
25	CookiesFlow [A.2]	Step	Cooling	No								
26	CookiesFlow [A.2]	Step	Packing	No								
27	Flow With Enter and Exit Rules [A.1]	Step	Step 01	No						NotificationOnEnt	NotificationOnExit	
28	Flow With Enter and Exit Rules [A.1]	Step	Step 02	No								
30	Flow With Inherited Rework Paths [A.2]	Step	Step 01	No								
31	Flow With Inherited Rework Paths [A.2]	Step	Step 02	No								
32	Flow With Inherited Rework Paths [A.2]	Step	Step 03	No								
59	Main Flow [A.2]	Step	Step 01	No								
59	Main Flow [A.2]	Step	Step 02	Yes								
59	Main Flow [A.2]	Step	Step 03	No								
59	Main Flow [A.2]	Flow	Sequential Flow With Condition	No								
59	Main Flow [A.2]	Flow	Alternate Flow Multiple Select	No								
59	Main Flow [A.2]	Flow	Alternate Flow Single Selector	No								
59	Main Flow [A.2]	Flow	Flow With Enter and Exit Rules	No								
59	Main Flow [A.2]	Flow	Flow With Inherited Rework Paths	No								
165	Non-Sequential Block [A.1]	Step	Step 01	No								
167	Non-Sequential Block [A.1]	Step	Step 02	No								
168	Non-Sequential Block [A.1]	Step	Step 03	No								
169	Sequential Flow With Conditional Steps [A.1]	Step	Step 01	Yes								
169	Sequential Flow With Conditional Steps [A.1]	Step	Step 02	No								
< > ...	StepReason <DM> Flow <DM> Resource <DM> Product <ST> ServiceContext <DM> Material	FlowItems	ReworkPaths	+						Expression	\$contains(Name, "Material01")	

Beyond the basic information, you can specify additional settings in version 11.0, such as whether the Rework Path applies to Queued and Processed States (columns O and P), and set Rules for On Rework (column Q).

Before version 11.0

A	H	I	J	IsTemplate	K	L	M	N	O	P	Q
Flow	GoToFlow	GoToStep		IsTemplate	ReturnFlowPath	ReturnStep	BeworkReason	SourceFlowPath	SourceFlowVersion	Order	SourceStepPosition
CookieProductionFlow [C.2]	Remolding [A]	Remixing	No	No	CookieProductionFlow:C:1/Baking:3	Baking	Deformed	CookieProductionFlow:C:1/Molding:2	CookieProductionFlow [C.2]	1	2
Flow With Rework Paths [A.2]	CookiesFlow [A]	Mixing	No	No	Flow With Inherited Rework Paths:A:1/Step 01:1	Step 01	Deformed	Flow With Inherited Rework Paths:A:1/Step 02:2	Flow With Rework Paths [A.2]	1	2
Flow With Rework Paths [A.2]	CookiesFlow [A]	Mixing	No	No	Flow With Inherited Rework Paths:A:1/Step 01:1	Step 01	Deformed	Flow With Inherited Rework Paths:A:1/Step 01:1	Flow With Rework Paths [A.2]	1	1

After version 11.0

A	B	C	D	E	F	G	H	I	J
Flow	SourceStep	GoToFlowPath	ReturnStepPosition	IsInLineRework	Description	GoToFlow	GoToStep	IsTemplate	ReturnFlowPath
Flow With Inherited Rework Paths [A.2]	Step 02	CookiesFlow:A:1/Mixing:4	1		CookiesFlow [A] Mixing	No			Flow With Inherited Rework Paths:A:1/Step 01:1
Flow with Inherited Rework Paths [A.2]	Step 01	CookiesFlow:A:1/Mixing:1	1		CookiesFlow [A] Mixing	No			Flow With Inherited Rework Paths:A:1/Step 01:1
Main Flow [A.2]	Step 02	CookiesFlow:A:1/Packing:5	6		CookiesFlow [A] Packing	No			Main Flow:A:1/Step 03:6
Main Flow [A.2]	Step 01	CookiesFlow:A:1/Packing:5	6		CookiesFlow [A] Packing	No			Main Flow:A:1/Step 03:6

K	L	M	N	O	P	Q	R	S	T
ReturnStep	BeworkReason	SourceFlowPath	Order	ApplicableToProcessed	ApplicableToQueued	OnReworkRule	ReturnFlow	SourceFlow	SourceStepPosition
Step 01	Deformed	Flow With Inherited Rework Paths:A:1/Step 02:2	1	Yes	Yes	NotificationOnRework	Flow With Inherited Rework Paths [A]	Flow With Inherited Rework Paths [A]	2
Step 01	Deformed	Flow With Inherited Rework Paths:A:1/Step 01:1	2	Yes	Yes	NotificationOnRework	Flow With Inherited Rework Paths [A]	Flow With Inherited Rework Paths [A]	1
Step 03	Deformed	Main Flow:A:1/Flow With Inherited Rework Paths:A:1/Step 02:2	1	Yes	No	NotificationOnRework	Main Flow [A]	Flow With Inherited Rework Paths [A]	2
Step 03	Deformed	Main Flow:A:1/Flow With Inherited Rework Paths:A:1/Step 01:1	2	Yes	No	NotificationOnRework	Main Flow [A]	Flow With Inherited Rework Paths [A]	1



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