



PUBLIC

How-To Merge - BADI **USMD_SSW_PARA_RESULT_HANDLER** to merge result of parallel workflow tasks

Applicable releases:

All

Version: 3.0

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Owner: PCP Master Data Governance



Document History

Document Version	Description
1.0	First official release of this guide
1.1	Additional SAP Notes
1.2	Additional Information on Chapter 4.2.2
1.3	Small corrections (March 2014)
2.0	Complete Update (April 2022)
3.0	Formatting, Code adjustments

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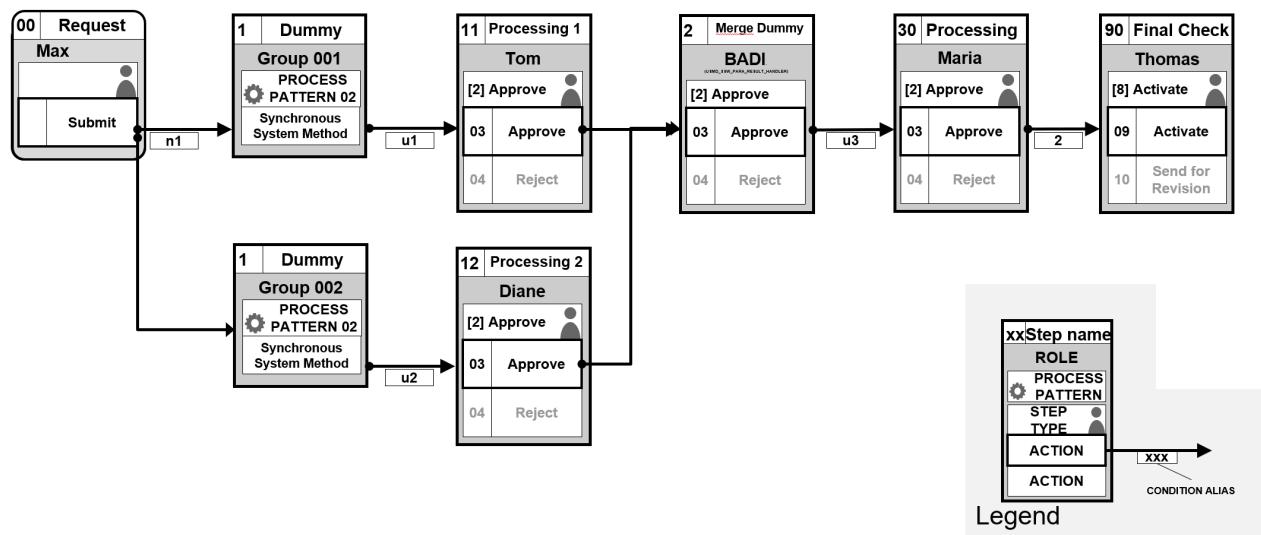
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1. Business Scenario

SAP Master Data Governance provides business processes to find, create, change, and mark master data for deletion. It supports the governance of master data in a central hub and the distribution to connected operational and business intelligence systems.

The processes are workflow-driven and can include several approval and revision phases, and the collaboration of all users participating in the master data maintenance.

This How To Guide describes the solution to have parallel workflow items in the workflow. This is shown here using the workflow for material creation as an example.



2. Background Information

The Business Add-In (BAdl) USMD_SSW_PARA_RESULT_HANDLER is used to merge the result of the parallel workflow items. You can use this BAdl to implement the result of a parallel workflow merge in the rule-based workflow. The BAdl uses the method HANDLE_PARALLEL_RESULT to handle and merge the results of the parallel workflows into one result. The input for this BAdl is the change request number, current step number, parallel step action table, and the service name. By using the change request number, it is possible to access all data within this change request. The input parameter Service Name enables you to use the same BAdl implementation for multiple service names. For example, when two service names are used in the configuration of the same change request workflow, and the user wants to create only one BAdl implementation, having the service name as the input parameter enables you to separate the processing logic based on the service name input. With this BAdl you can change the workflow generic-context table in the workflow. This BAdl also returns the next workflow step, the action taking place in the workflow step, and the message table.

Requirements

You have defined the filter value Service Name in view V_USMD201C_SSW. You need to create a separate implementation for the handling of a specific parallel result.

Standard settings For more information about the standard settings (filters, single or multiple uses), see the Enhancement Spot Element Definitions tab in the BAdl Builder (transaction SE18). No default BAdl implementation is preactivated in the standard system. The BAdl is filter-dependent. The BAdl is not designed for multiple uses.

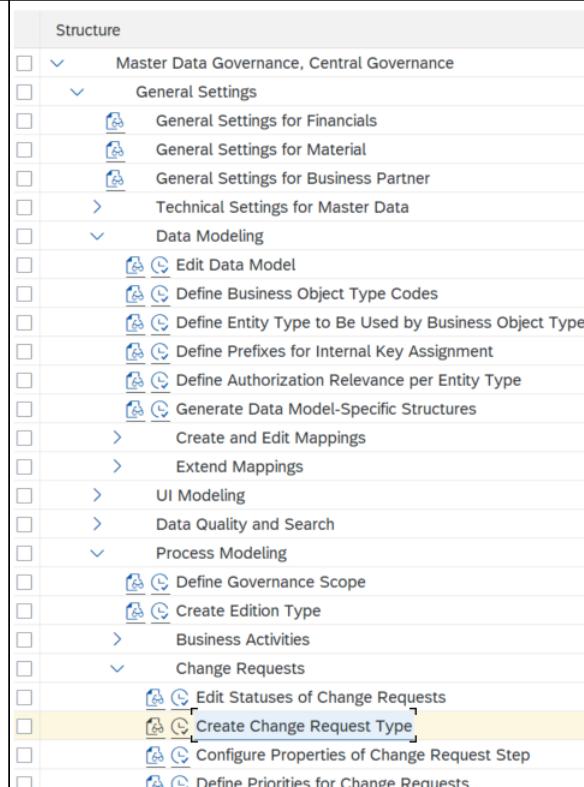
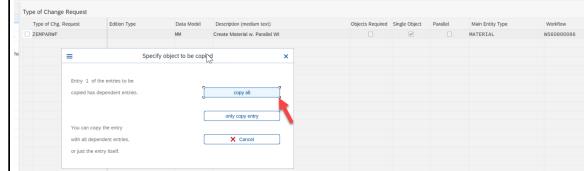
Activities

For information about implementing **BAdls** in the context of the **Enhancement Concept**, see the SAP Library for SAP NetWeaver under **BAdls - Embedding in the Enhancement Framework**.

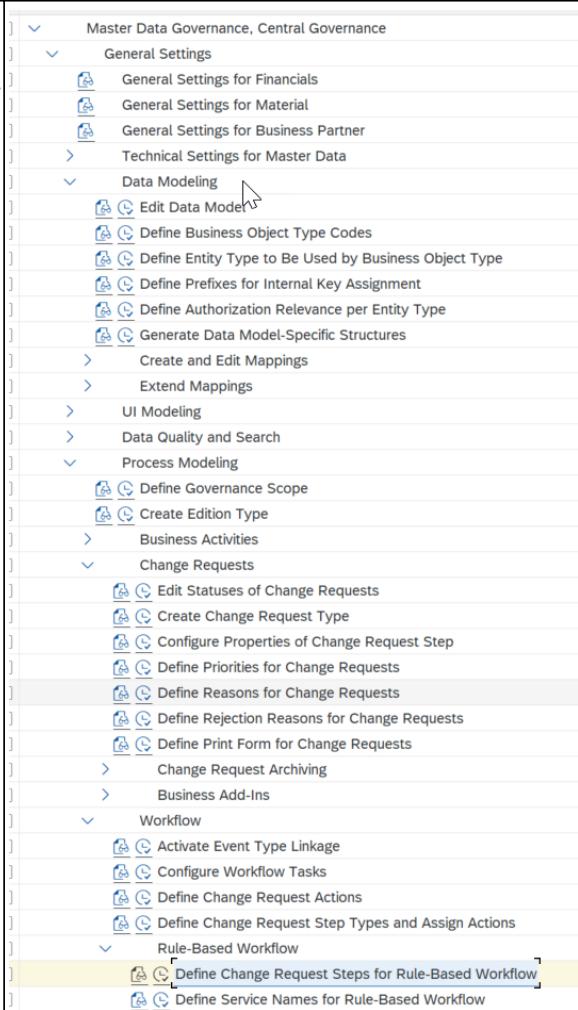
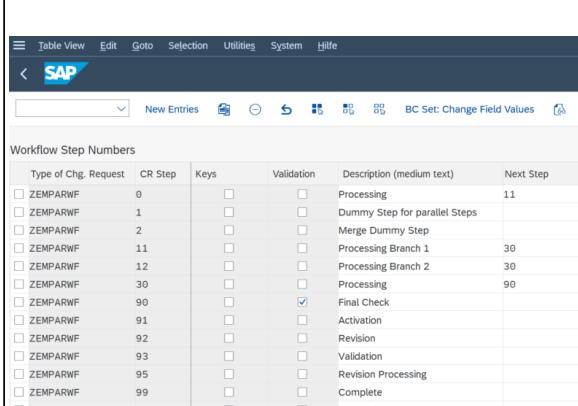
3. Step-by-Step Procedure

3.1. Customizing

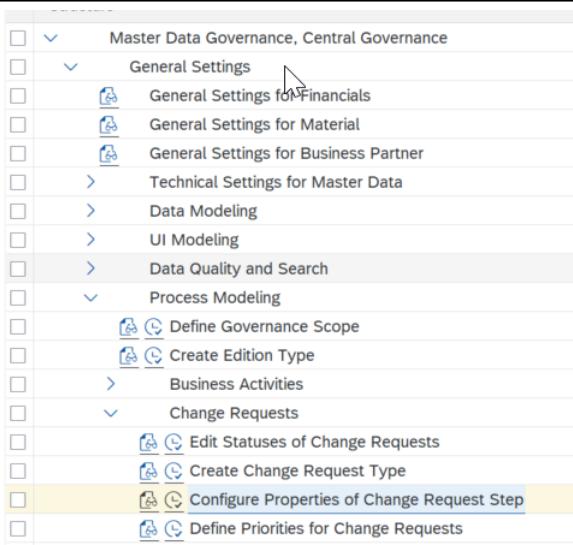
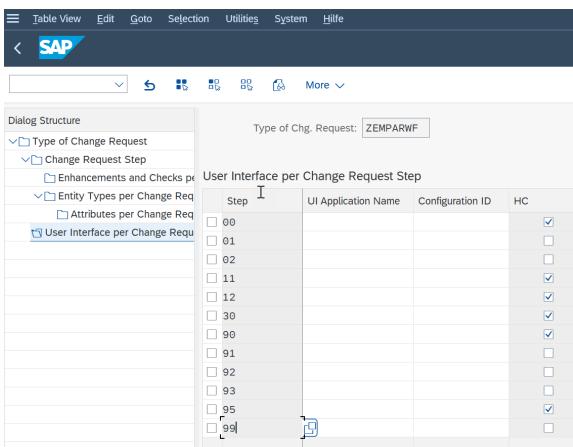
3.1.1. Create new Change Request Type

Step	Explanation	Screenshot
1	<p>Start transaction MDGIMG.</p> <p>Navigate to _General Settings > Process Modeling > Change Requests >Change Requests</p>	
2	<p>Mark a similar CR type (for example MATL01) and press <i>Copy</i>.</p> <p>Change the name and description and press <i>copy all</i>.</p>	

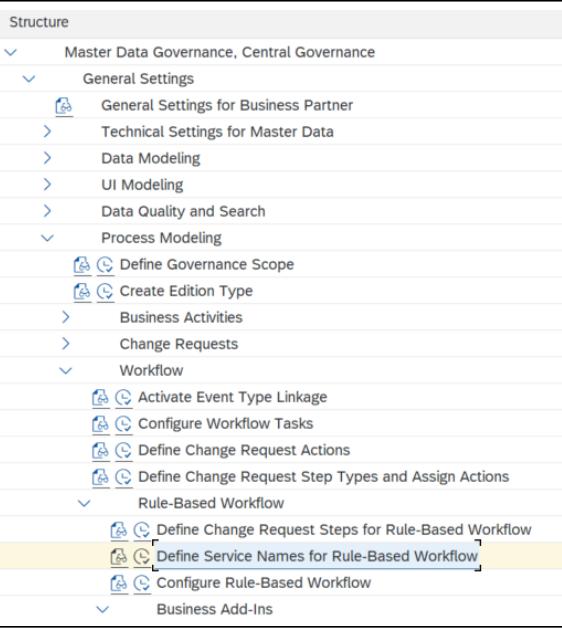
3.1.2. Define Workflow Step

Step	Explanation	Screenshot																																																																														
1	<p>Start transaction MDGIMG.</p> <p>Navigate to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow > Define Change Request Steps for Rule-Based Workflow.</p>																																																																															
2	Maintain the relevant CR steps.	 <table border="1"> <thead> <tr> <th>Type of Chg. Request</th> <th>CR Step</th> <th>Keys</th> <th>Validation</th> <th>Description (medium text)</th> <th>Next Step</th> </tr> </thead> <tbody> <tr> <td>ZEMPARWF</td> <td>0</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Processing</td> <td>11</td> </tr> <tr> <td>ZEMPARWF</td> <td>1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Dummy Step for parallel Steps</td> <td></td> </tr> <tr> <td>ZEMPARWF</td> <td>2</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Merge Dummy Step</td> <td></td> </tr> <tr> <td>ZEMPARWF</td> <td>11</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Processing Branch 1</td> <td>30</td> </tr> <tr> <td>ZEMPARWF</td> <td>12</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Processing Branch 2</td> <td>30</td> </tr> <tr> <td>ZEMPARWF</td> <td>30</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Processing</td> <td>90</td> </tr> <tr> <td>ZEMPARWF</td> <td>90</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Final Check</td> <td></td> </tr> <tr> <td>ZEMPARWF</td> <td>91</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Activation</td> <td></td> </tr> <tr> <td>ZEMPARWF</td> <td>92</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Revision</td> <td></td> </tr> <tr> <td>ZEMPARWF</td> <td>93</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Validation</td> <td></td> </tr> <tr> <td>ZEMPARWF</td> <td>95</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Revision Processing</td> <td></td> </tr> <tr> <td>ZEMPARWF</td> <td>99</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Complete</td> <td></td> </tr> </tbody> </table>	Type of Chg. Request	CR Step	Keys	Validation	Description (medium text)	Next Step	ZEMPARWF	0	<input type="checkbox"/>	<input type="checkbox"/>	Processing	11	ZEMPARWF	1	<input type="checkbox"/>	<input type="checkbox"/>	Dummy Step for parallel Steps		ZEMPARWF	2	<input type="checkbox"/>	<input type="checkbox"/>	Merge Dummy Step		ZEMPARWF	11	<input type="checkbox"/>	<input type="checkbox"/>	Processing Branch 1	30	ZEMPARWF	12	<input type="checkbox"/>	<input type="checkbox"/>	Processing Branch 2	30	ZEMPARWF	30	<input type="checkbox"/>	<input type="checkbox"/>	Processing	90	ZEMPARWF	90	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Final Check		ZEMPARWF	91	<input type="checkbox"/>	<input type="checkbox"/>	Activation		ZEMPARWF	92	<input type="checkbox"/>	<input type="checkbox"/>	Revision		ZEMPARWF	93	<input type="checkbox"/>	<input type="checkbox"/>	Validation		ZEMPARWF	95	<input type="checkbox"/>	<input type="checkbox"/>	Revision Processing		ZEMPARWF	99	<input type="checkbox"/>	<input type="checkbox"/>	Complete	
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3.1.3. Activate Highlighting

Step	Explanation	Screenshot																																																				
1	<p>Log on to Cross Client Customizing Client. Start transaction MDGIMG. Navigate to General Settings > Process Modeling > Change Requests > Configure Properties of Change Request Step.</p>																																																					
2	<p>Select the new CR type New Entries and choose User Interface per Change Request Step. Select the Highlighting Indicator for all dialog steps.</p>	 <table border="1" data-bbox="890 983 1432 1266"> <thead> <tr> <th data-bbox="890 983 949 1266">Step</th> <th data-bbox="949 983 1049 1266">UI Application Name</th> <th data-bbox="1049 983 1149 1266">Configuration ID</th> <th data-bbox="1149 983 1192 1266">HC</th> </tr> </thead> <tbody> <tr><td data-bbox="890 1028 949 1057">00</td><td data-bbox="949 1028 1049 1057"></td><td data-bbox="1049 1028 1149 1057"></td><td data-bbox="1149 1028 1192 1057"><input checked="" type="checkbox"/></td></tr> <tr><td data-bbox="890 1057 949 1087">01</td><td data-bbox="949 1057 1049 1087"></td><td data-bbox="1049 1057 1149 1087"></td><td data-bbox="1149 1057 1192 1087"><input type="checkbox"/></td></tr> <tr><td data-bbox="890 1087 949 1116">02</td><td data-bbox="949 1087 1049 1116"></td><td data-bbox="1049 1087 1149 1116"></td><td data-bbox="1149 1087 1192 1116"><input type="checkbox"/></td></tr> <tr><td data-bbox="890 1116 949 1145">11</td><td data-bbox="949 1116 1049 1145"></td><td data-bbox="1049 1116 1149 1145"></td><td data-bbox="1149 1116 1192 1145"><input checked="" type="checkbox"/></td></tr> <tr><td data-bbox="890 1145 949 1174">12</td><td data-bbox="949 1145 1049 1174"></td><td data-bbox="1049 1145 1149 1174"></td><td data-bbox="1149 1145 1192 1174"><input checked="" type="checkbox"/></td></tr> <tr><td data-bbox="890 1174 949 1203">30</td><td data-bbox="949 1174 1049 1203"></td><td data-bbox="1049 1174 1149 1203"></td><td data-bbox="1149 1174 1192 1203"><input checked="" type="checkbox"/></td></tr> <tr><td data-bbox="890 1203 949 1233">90</td><td data-bbox="949 1203 1049 1233"></td><td data-bbox="1049 1203 1149 1233"></td><td data-bbox="1149 1203 1192 1233"><input checked="" type="checkbox"/></td></tr> <tr><td data-bbox="890 1233 949 1262">91</td><td data-bbox="949 1233 1049 1262"></td><td data-bbox="1049 1233 1149 1262"></td><td data-bbox="1149 1233 1192 1262"><input type="checkbox"/></td></tr> <tr><td data-bbox="890 1262 949 1291">92</td><td data-bbox="949 1262 1049 1291"></td><td data-bbox="1049 1262 1149 1291"></td><td data-bbox="1149 1262 1192 1291"><input type="checkbox"/></td></tr> <tr><td data-bbox="890 1291 949 1320">93</td><td data-bbox="949 1291 1049 1320"></td><td data-bbox="1049 1291 1149 1320"></td><td data-bbox="1149 1291 1192 1320"><input type="checkbox"/></td></tr> <tr><td data-bbox="890 1320 949 1349">95</td><td data-bbox="949 1320 1049 1349"></td><td data-bbox="1049 1320 1149 1349"></td><td data-bbox="1149 1320 1192 1349"><input checked="" type="checkbox"/></td></tr> <tr><td data-bbox="890 1349 949 1379">99</td><td data-bbox="949 1349 1049 1379"></td><td data-bbox="1049 1349 1149 1379"></td><td data-bbox="1149 1349 1192 1379"><input type="checkbox"/></td></tr> </tbody> </table>	Step	UI Application Name	Configuration ID	HC	00			<input checked="" type="checkbox"/>	01			<input type="checkbox"/>	02			<input type="checkbox"/>	11			<input checked="" type="checkbox"/>	12			<input checked="" type="checkbox"/>	30			<input checked="" type="checkbox"/>	90			<input checked="" type="checkbox"/>	91			<input type="checkbox"/>	92			<input type="checkbox"/>	93			<input type="checkbox"/>	95			<input checked="" type="checkbox"/>	99			<input type="checkbox"/>
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3.1.4. Define Service (Cross Client)

Step	Explanation	Screenshot								
1	<p>Log on to Cross Client Customizing Client.</p> <p>Start transaction MDGIMG.</p> <p>Navigate to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow > Define Service Names for Rule-Based Workflow.</p>									
2	<p>Press New Entries and create new entries with the following data:</p> <p>Service Name and Description.</p> <p>Press Save.</p>	 <table border="1"> <thead> <tr> <th colspan="2">Maintenance View of Table USMD201C_SSW</th> </tr> <tr> <th>Service Name</th> <th>Description (long text)</th> </tr> </thead> <tbody> <tr> <td>ZEM_MERGE_PAR</td> <td>Merge parallel steps in material workflow</td> </tr> <tr> <td>ZEM_SET_PAR</td> <td>Set parallel steps in material workflow</td> </tr> </tbody> </table>	Maintenance View of Table USMD201C_SSW		Service Name	Description (long text)	ZEM_MERGE_PAR	Merge parallel steps in material workflow	ZEM_SET_PAR	Set parallel steps in material workflow
Maintenance View of Table USMD201C_SSW										
Service Name	Description (long text)									
ZEM_MERGE_PAR	Merge parallel steps in material workflow									
ZEM_SET_PAR	Set parallel steps in material workflow									

3.1.5. BRF+ Tables

Start transaction MDGIMG. Navigate to *General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow*. Enter the newly created change request type and press *Continue*. Set up the BRF+ tables.

Here are the examples for CR Type ZEMPARWF.

Single Value Decision Table

■ Decision Table: DT_SINGLE_VAL_ZEMPARWF

<input type="button" value="Back"/> <input type="button" value="Edit"/> <input type="button" value="Check"/> <input type="button" value="Save"/> <input type="button" value="Activate"/> <input type="button" value="Delete"/> <input type="button" value="More"/>								
General								
Detail								
<input type="button" value="Export To Excel"/> <input type="button" value="Context Overview"/> <input type="button" value="Start Simulation"/>								
Table Contents								
Find:		<input type="button" value="Next"/>	<input type="button" value="Previous"/>					
<input type="checkbox"/> CR Previous Step	Previous Action	CR Parent Step	Paralle...	Condition ...	New Chng. Req. Step	New CR Status	Merge Type	Merge Parameter
<input type="checkbox"/> =00 (Processing)				n1	03 (Dummy Step for parallel Steps)	03 (To Be Considered and Appro...	B (Add)	ZEM_MERGE_PAR (Merge para...
<input type="checkbox"/> =01 (Dummy Step for parallel...		=01 (Dummy St...	=001	u1	11 (Processing Branch 1)	01 (To Be Considered and Appro...		
<input type="checkbox"/> =01 (Dummy Step for parallel...		=01 (Dummy St...	=002	u2	12 (Processing Branch 2)	01 (To Be Considered and Appro...		
<input type="checkbox"/> =11 (Processing Branch 1)				99	99 (Complete)			
<input type="checkbox"/> =12 (Processing Branch 2)				99	99 (Complete)			
<input type="checkbox"/> =02 (Merge Dummy Step)	=03 (Approve)			u3	30 (Processing)	02 (Changes to Be Executed)		
<input type="checkbox"/> =02 (Merge Dummy Step)	=04 (Reject)			8	92 (Revision)	10 (To Revise: Perform Changes)		
<input type="checkbox"/> =30 (Processing)	=03 (Approve)			1	90 (Final Check)	02 (Changes to Be Executed)		
<input type="checkbox"/> =30 (Processing)	=04 (Reject)			8	92 (Revision)	10 (To Revise: Perform Changes)		
<input type="checkbox"/> =90 (Final Check)	=09 (Activate)			2	91 (Activation)	02 (Changes to Be Executed)		
<input type="checkbox"/> =90 (Final Check)	=10 (Send for Revision)			3	95 (Revision Processing)	10 (To Revise: Perform Changes)		
<input type="checkbox"/> =91 (Activation)	=31 (Activation successful)			4	99 (Complete)	05 (Final Check Approved)		
<input type="checkbox"/> =91 (Activation)	<>31 (Activation successful)			5	90 (Final Check)	11 (Process Errors After Activation)		
<input type="checkbox"/> =92 (Revision)				6	99 (Complete)	06 (Final Check Rejected)		
<input type="checkbox"/> =95 (Revision Processing)	=07 (Resubmit)			7	90 (Final Check)	02 (Changes to Be Executed)		
<input type="checkbox"/> =95 (Revision Processing)	=08 (Withdraw)			8	92 (Revision)	03 (To Be Revised)		

User Agent Table

For reasons of simplicity, the same user agent is always used.

■ Decision Table: DT_USER_AGT_GRP_ZEMPARWF

<input type="button" value="Back"/> <input type="button" value="Edit"/> <input type="button" value="Check"/> <input type="button" value="Save"/> <input type="button" value="Activate"/> <input type="button" value="Delete"/> <input type="button" value="More"/>				
General				
Detail				
<input type="button" value="Export To Excel"/> <input type="button" value="Context Overview"/> <input type="button" value="Start Simulation"/>				
Table Contents				
Find:		<input type="button" value="Next"/>	<input type="button" value="Previous"/>	
<input type="checkbox"/> Condition Alias	User Agt Grp ...	Step Type	User Agent Type	User Agent Value
<input type="checkbox"/> =u1	001	2 (Approve Change Requ...	AG (Role)	SAP_MDGM_MENU_09
<input type="checkbox"/> =u2	001	2 (Approve Change Requ...	AG (Role)	SAP_MDGM_MENU_08
<input type="checkbox"/> =u3	001	2 (Approve Change Requ...	AG (Role)	SAP_MDGM_MENU_09
<input type="checkbox"/> =3	001	4 (Revise Change Request)	AG (Role)	SAP_MDGM_MENU_09
<input type="checkbox"/> =1 ; =5 ; =7	001	8 (Activate Change Requ...	AG (Role)	SAP_MDGM_MENU_09

Non User Agent

■ Decision Table: DT_NON_USER_AGT_GRP_ZEMPARWF

[Back](#) | [Edit](#) | [Check](#) | [Save](#) | [Activate](#) | [Delete](#) | [More](#)

> General

▼ Detail

[Export To Excel](#) | [Context Overview](#) | [Start Simulation](#)

Table Contents

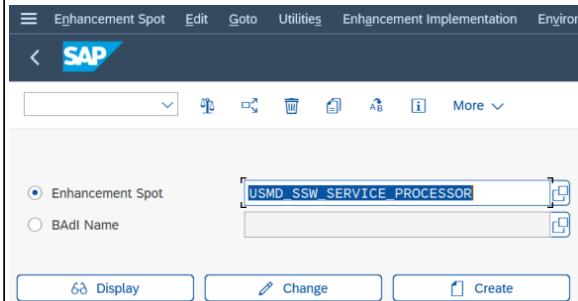
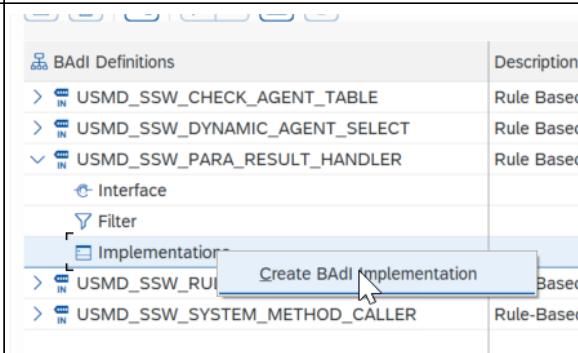
Find: [Next](#) [Previous](#)

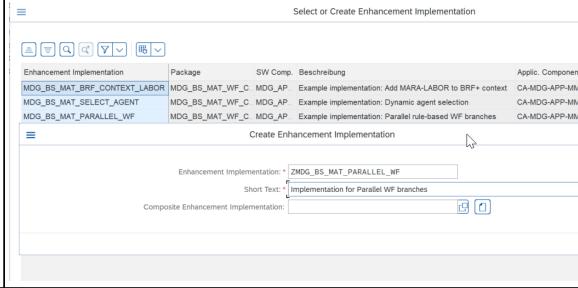
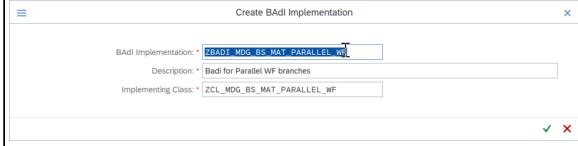
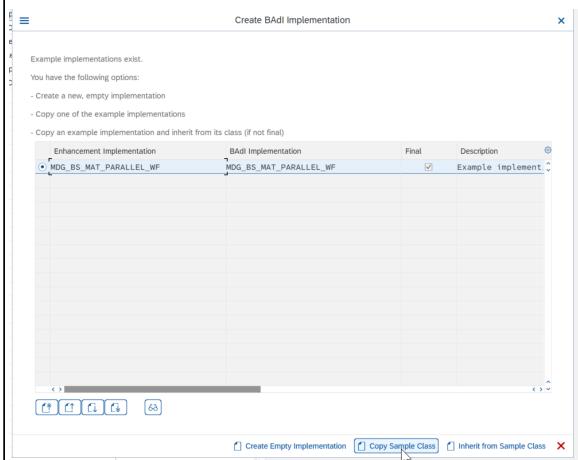
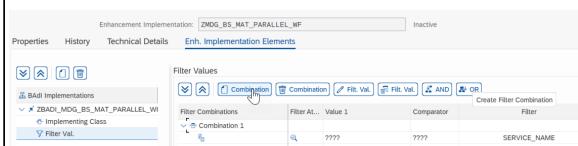
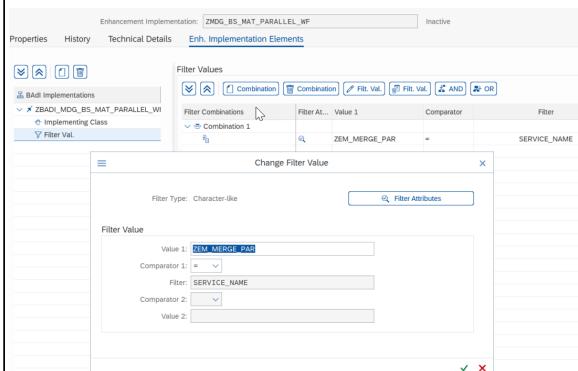
Condition Alias	Agent Group	Process Pattern	Service Name
=n1	001	02 (Synchronous System Method)	ZEM_SET_PAR (Set parallel steps in material workflow)
=n1	002	02 (Synchronous System Method)	ZEM_SET_PAR (Set parallel steps in material workflow)
=99	001	99 (Complete (Sub-)Workflow)	
=2	001	06 (Activation (Bypass Snapshot))	
=4 ; =6	001	99 (Complete (Sub-)Workflow)	
=8	001	08 (Roll Back Change Request)	

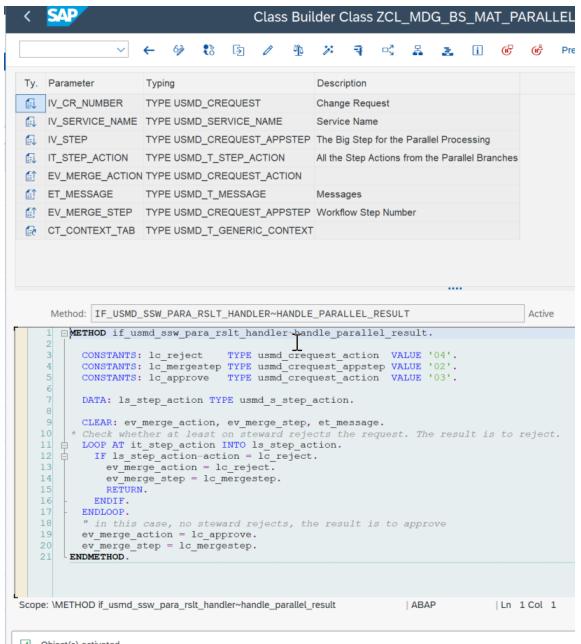
3.2. Enhancement Spot: USMD_SSW_SERVICE_PROCESSOR

3.2.1. Create Enhancement Implementation for USMD_SSW PARA RESULT HANDLER

In this chapter a Business Add-In (BAI) implementation for BAI USMD_SSW PARA RESULT HANDLER is created. The BAI uses the method HANDLE_PARALLEL_RESULT to handle and merge the results of the parallel workflows into one result. You might refer to the BAI documentation for further details. The service name defined in a previous chapter serves as BAI filter. The actual implementation of the BAI method depends on the use case that should be accomplished.

Step	Explanation	Screenshot
1	Start transaction SE18. Select option <i>Enhancement Spot Name</i> and enter USMD_SSW_SERVICE_PROCESSOR . Press <i>Display</i> .	
2	Open the context menu on the Implementations for BAI USMD_SSW PARA RESULT HANDLER with Right click on and chose Create BAI Implementation. In pop-up <i>Select or Create Enhancement Implementation</i> chose Create Enhancement Implementation.	

Step	Explanation	Screenshot
3	<p>In pop-up <i>Create Enhancement Implementation</i> enter the necessary data. Press <i>Creation of Enhancement</i>. Choose a suitable development package or store the enhancement implementation as local object depending on your needs.</p>	
4	<p>In pop-up <i>Select or Create Enhancement Implementation</i> amongst others the new enhancement implementation is listed. Select it and press <i>Select Specified Enhancement Implementation</i>. In pop-up <i>Create BAdI Implementation</i> enter the necessary data: Press <i>Continue</i>.</p>	
5	<p>In the next pop-up chose enhancement implementation MDG_BS_MAT_PARALLEL_WF and press <i>Copy Sample Class</i>. Press Save.</p>	
6	<p>Navigate to the <i>Filter Values</i> for the BAdI implementation and go to edit mode. Create a filter SERVICE_NAME to be ZMY_SERVICE_NAME, matching the service defined in IMG activity Define Service Names for Rule-Based Workflow (see 3.2). Hence, press <i>Create Combination</i>.</p>	
7	<p>Double-click the combination or press <i>Value</i>. In pop-up <i>Change Filter Value</i> enter/ select the relevant data. Press <i>Continue</i>. Press Save.</p>	
8	<p>Navigate to <i>Implementing Class</i> and double-click BAdI method IF_USMD_SSW_PARA_RSLT_HANDLER~HANDLE_PARALLEL_RESULT</p>	

Step	Explanation	Screenshot
9	<p>Go to edit mode. Change the example implementation according to your needs. Activate the method. In case other objects are still to be adjusted, select them too for activation.</p>	 <p>The screenshot shows the SAP Class Builder interface for the class ZCL_MDG_BS_MAT_PARALLEL. It displays the following information:</p> <ul style="list-style-type: none"> Parameters: <ul style="list-style-type: none"> IV_CR_NUMBER (TYPE USMD_CREQUEST) - Description: Change Request IV_SERVICE_NAME (TYPE USMD_SERVICE_NAME) - Description: Service Name IV_STEP (TYPE USMD_CREQUEST_APPSTEP) - Description: The Big Step for the Parallel Processing IT_STEP_ACTION (TYPE USMD_T_STEP_ACTION) - Description: All the Step Actions from the Parallel Branches EV_MERGE_ACTION (TYPE USMD_CREQUEST_ACTION) ET_MESSAGE (TYPE USMD_T_MESSAGE) - Description: Messages EV_MERGE_STEP (TYPE USMD_CREQUEST_APPSTEP) - Description: Workflow Step Number CT_CONTEXT_TAB (TYPE USMD_T_GENERIC_CONTEXT) Method: IF_USMD_SSW_PARA_RSLT_HANDLER~HANDLE_PARALLEL_RESULT Code: <pre> METHOD if_usmd_ssw_para_rslt_handler~handle_parallel_result. ... CONSTANTS: lc_reject TYPE usmd_crequest_action VALUE '04'. CONSTANTS: lc_mergestep TYPE usmd_crequest_appstep VALUE '02'. CONSTANTS: lc_approve TYPE usmd_crequest_action VALUE '03'. ... DATA: ls_step_action TYPE usmd_s_step_action. ... CLEAR: ev_merge_action ev_merge_step et_message. * Check whether at least one steward rejects the request. The result is to reject. LOOP AT ls_step_action ASSIGNING ls_step. IF ls_step.action = lc_reject. ev_merge_action = lc_reject. ev_merge_step = ls_step.step. RETURN. ENDIF. ENDLOOP. * in this case, no steward rejects, the result is to approve ev_merge_action = lc_approve. ev_merge_step = ls_step.step. ENDMETHOD. </pre> Scope: METHOD if_usmd_ssw_para_rslt_handler~handle_parallel_result Language: ABAP Line: 1 Col: 1

3.2.2. Create Enhancement Implementation for USMD_SSW_SYSTEM_METHOD_CALLER

Follow the steps above. Click on Implementation, right mouse click for creating Enhancement Implementation.

Create Enhancement Implementation: ZMDG_BS_MAT_PARALLEL_WF_SYSTEM

Create BAdI Implementation (do not copy any sample class, create empty implementation and empty class).

BAdI Implementation: ZBADI_MDG_MAT_PARALLEL_WF_SYST

Implementing Class: ZCL_MDG_BS_MAT_PARALLEL_WF_SYSTEM

Method

Then double click on method and enter * DUMMY. Save and activate.

The screenshot shows the SAP Class Builder interface for the class ZCL_MDG_BS_MAT_PARALLEL_WF_SYSTEM. The top navigation bar says "Class Builder Class ZCL_MDG_BS_MAT_PARALLEL_WF_SYS Display". Below it is a toolbar with various icons. The main area has a table for parameters:

Ty.	Parameter	Typing	Description
	IV_CR_NUMBER	TYPE USMD_CREQUEST	Change Request
	IV_SERVICE_NAME	TYPE USMD_SERVICE_NAME	Service Name
	EV_ACTION	TYPE USMD_CREQUEST_ACTION	
	ET_MESSAGE	TYPE USMD_T_MESSAGE	Message Table
	CT_CONTEXT_TAB	TYPE USMD_T_GENERIC_CONTEXT	Generic Context Table
	CX_BO_TEMPORARY		Temporary Business Exception

Below the table is a section for methods:

Method: IF_USMD_SSW_SYSTEM_METHOD_CALLER~CALL_SYSTEM_METHOD Active

```

1 | method IF_USMD_SSW_SYSTEM_METHOD_CALLER~CALL_SYSTEM_METHOD.
2 | * Dummy.
3 |
4 | endmethod.

```

Create Filter

Create filter and set service name= ZEM_SET_PAR. Save and activate.

The screenshot shows the SAP Enhancement Implementation screen for the ZMDG_BS_MAT_PARALLEL_WF_SYSTEM enhancement. The top navigation bar says "Enhancement Implementation ZMDG_BS_MAT_PARALLEL_WF_SYSTEM Change". Below it is a toolbar. The main area has tabs: Properties, History, Technical Details, and Enh. Implementation Elements (which is selected). The enhancement implementation field is set to ZMDG_BS_MAT_PARALLEL_WF_SYSTEM. On the left, there's a sidebar for BAdI Implementations with ZBADI_MDG_MAT_PARALLEL_WF_SYST selected. On the right, there's a "Filter Values" section with a table:

Filter Combinations	Filter At...	Value 1	Comparator	Filter
Combination 1		ZEM_SET_PAR	=	SERVICE_NAME

At the bottom left, there's a "<<<" symbol.

Check status and runtime behavior:

SAP Enhancement Implementation ZMDG_BS_MAT_PARALLEL_WF_SYSTEM Change

Enhancement Implementation: ZMDG_BS_MAT_PARALLEL_WF_SYSTEM Active

Properties History Technical Details Enh. Implementation Elements

BADI Implementations: ZBADI_MDG_MAT_PARALLEL_WF_SYST

Description: BADI for Set Parallel WF branches

Default Implementation
 Example Implementation

Customizing Lock: X Customizing not supported

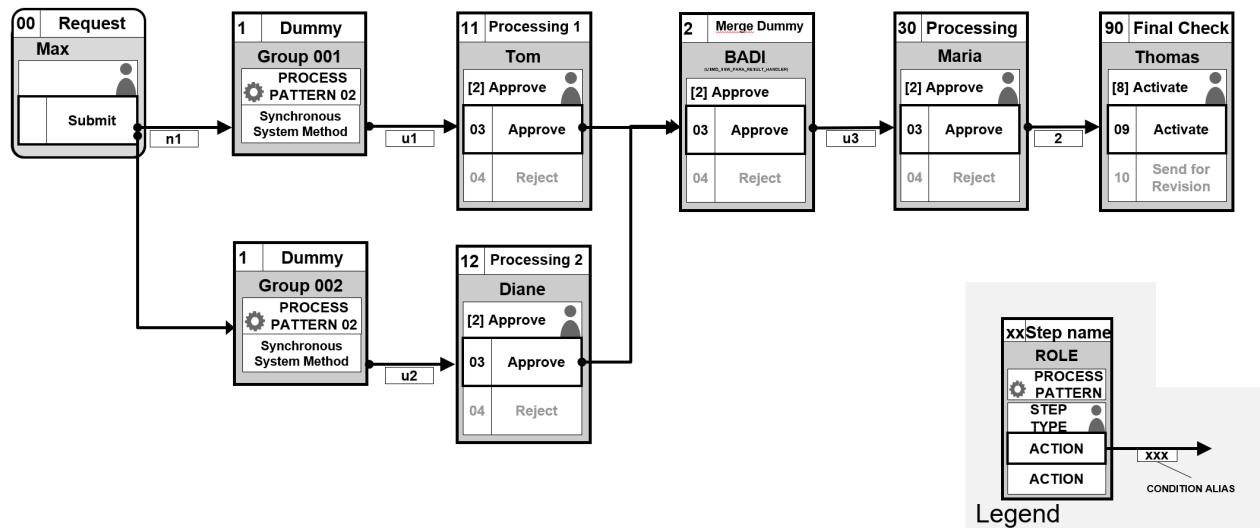
Runtime Behavior: Implementation is active
Runtime Behavior: Execution depends on runtime filter values

Properties of BADI Definition:
BADI Definition Name: USMD_SSW_SYSTEM_METHOD_CALLER
Description: Rule-Based Workflow - Call System Method
Interface: IF_USMD_SSW_SYST_METHOD_CALLER
Instance Creation Mode: Reuse of BADI Instance

Further Implementations in Other Systems (perhaps already deleted)

4. Process

In this chapter the new process is tested. A material is created using the newly created and configured change request type ZEMPARWF and parallel workflow items are created.



4.1. Step 0: Requestor Max

Create a new material using Material Governance. Navigate to Change Requests > Material Processing > Search Material or Create Material.

Max maintains necessary data and submits the Change Request.

SAP Material: New P-070422P-70

Change Request Edit

General Notes Attachments

General Data

Process Data

Status: Changes to Be Executed
Current Work Item: New Change Request What's Next
Created On/By: 07.04.2022 16:21:33
Type of Change Request: Create Material w. Parallel WI

Basic Data Edit Replication Status

General Data

Material: P-070422P-70
Base Unit of Measure: EA each
Material Type: ZM... MDQ Testing
Industry Sector: M Mechanical engineering
Material Group: 01 Tools
Old Material Number:
Authorization Group:
Cross-Plant Material Status:
Batch Management:
Serialization Level:
Approved Batch Record Required Indicator:
Division:

Grouping

External Material Group: Product Hierarchy: Generic Item Group Category: NO... Standard item
Material Group Packaging Materials:

Design Data

Lab/Office: Industry Standard Description: Basic Material: Production/Inspection Memo: Page Format of Production Memo: CAD Indicator: No

Configuration

Cross-Plant Configurable Material: Material Configurable: No
Environment Environmentally Relevant: No
Dangerous Goods Indicator Profile: GTIN/EAN EANUPC: EAN Category: EAN Version:

ATP

Save Submit Cancel

What's Next Pop Up:

Change Request Tracker

Step	Description	Status	Action	Date	Time
00	Processing				
11	Processing Branch 1				
30	Processing				
90	Final Check				

Close

In Display Change Request: Click on Work Items or Workflow Log to switch or to see the 2 work items.

SAP Material: New Pump

Expand all Collapse all Refresh Check Work Items Change Documents Workflow Log Assignment Block:

Change Request Edit

General Notes Attachments

General Data

Process Data

Status: To Be Considered and Approved
Current Work Item: Process Change Request 1318 (C... What's Next
Created On/By: 30.03.2022 15:57:35
Changed On/By: 30.03.2022 16:00:36
Type of Change Request: Create Material w. Parallel WI
Step Type: Approve Change Request

Reason:

Work Items and Workflow Log buttons are highlighted with red arrows.

4.2. Parallel Branch Step 11 User Tom

Tom approves (Step 11 and Action 03):

Change Request Tracker

Step	Description	Status	Action	Date	Time
00	Processing	02 Changes to Be Executed	Submit	07.04.2022	16:26:20
11	Processing Branch 1	01 To Be Considered and Ap...			
12	Processing Branch 2	01 To Be Considered and Ap...			
30	Processing				
90	Final Check				

Close

SAP Material: New P-070422P-70

Expand all Collapse all Refresh Check Work Items Change Documents Workflow Log Assignment Block:

Change Request Edit

General Notes Attachments

General Data

Change Request:	1397	Status:	To Be Considered and Approved
Description:	Create material with ZEMPARWF	Current Work Item:	Process Change Request 1397 (Create ...)
Priority:		Created On/By:	07.04.2022 16:21:33
Due Date:		Changed On/By:	07.04.2022 16:26:24
Reason:		Type of Change Request:	Create Material w. Parallel WI
		Step Type:	Approve Change Request

Basic Data Replication Status

Material:	P-070422P-70	External Material Group:	
Base Unit of Measure:	EA each	Product Hierarchy:	
Material Type:	ZMDO MDO Testing	Generic Item Group Category:	NORM Standard item
Industry Sector:	M Mechanical engineering	Material Group:	Packaging Materials
Material Group:	01 Tools	Design Data:	
Old Material Number:		Lab/Office:	
Authorization Group:		Industry Standard Description:	
Cross-Plant Material Status:		Basic Material:	
Batch Management:	<input type="checkbox"/> No	Production/Inspection Memo:	
Serialization Level:	Serialization within the stock material number	Page Format of Production Memo:	

Save Approve Reject Cancel

4.2.1. TX SWI6 - Workflows for Object

Workflow log (View with technical details)

Hide Details ActiveX version log More

Tree View

Steps

Steps	Created By	Workite...	Node Number	Task Id
✓ Check if there is assigned agent	SAP_WFRT	3356644	177	TS60807950
> Get Change Request Attributes	SAP_WFRT	3356645	29	TS60807945
Agent and Route Finder			34	
Check if the WF is root and Status not Initial				
Check if Single Agent-Group Processing	SAP_WFRT	3356647	45	TS60807946
✓ Check if Single/Parallel Processing	SAP_WFRT	3356648	50	
> Get Agent Group	SAP_WFRT	3356649	152	TS60807953
> Get Parallel Change Request Group	SAP_WFRT	3356650	157	TS60807955
✓ MDAF Single Step Workflow New			162	
◆ Loop 1	SAP_WFRT	3356651	162	WS60800086
MDAF Rule-Based Workflow	SAP_WFRT	3356664	4	TS60807944
> Get Change Request Type by Change Request Number	SAP_WFRT		8	
UNTIL Loop				
> ◆ Loop 1				
> ◆ Loop 2				
MDAF Rule-Based Workflow	SAP_WFRT	3356650	162	WS60800086
> Get Change Request Type by Change Request Number	SAP_WFRT	3356652	4	TS60807944
UNTIL Loop			8	
> ◆ Loop 1				
> ◆ Loop 2				
> ◆ Loop 3				
Check if there is assigned agent	SAP_WFRT	3356676	177	TS60807950
Get Change Request Attributes	SAP_WFRT	3356677	29	TS60807945
Agent and Route Finder			34	
Check if the WF is root and Status not Initial				
Check if Single Agent-Group Processing	SAP_WFRT	3356678	45	TS60807946
Check if Single/Parallel Processing	SAP_WFRT	3356679	50	
Check if the WF is Completed				

Details Step History Deadlines Task Description Message Container

Definition

Element Values

CR_NUMBER	1397
USER_AGENT	< No Entries >
NON_USER_AGENT	< 1 Entry >
STEP_RESULT.Merge_Handler	
ACTION	03
STEP	11
CR_TYPE	ZEMPARWF
CR_STATUS	
NEXT_STEP	99
MESSAGE_TAB	< No Entries >

4.3. Parallel Branch Step 12 User Diane

Diane approves (Step 12 and Action 03):

The screenshot shows the SAP Change Requests interface. At the top, there's a toolbar with buttons for 'Change Query', 'Define New Query', 'Personal', 'Print Version', 'Export', and others. Below the toolbar is a list of change requests. One specific request, 'Process Change Request 1397 (Create material with ZEMPARWF)', is highlighted with a red arrow. This request has a status of 'To Be Considered and Approved'. Below this list is a 'Change Request Tracker' window showing a history of steps taken on the request. The step '12 Processing Branch 2' is highlighted with a blue circle and a red arrow, indicating it's the current step being reviewed. The tracker shows the following steps:

Step	Description	Status	Action	Date	Time
00	Processing	02 Changes to Be Exec...	Submit	07.04.2022	16:26:20
11	Processing Branch 1	01 To Be Considered a...	Approve	07.04.2022	16:28:47
12	Processing Branch 2	01 To Be Considered a...			
30	Processing				
90	Final Check				

At the bottom of the tracker is a 'Close' button.

Below the tracker is a detailed view of the 'Process Change Request 1397'. The 'General Data' section shows the following details:

- Change Request: 1397
- Description: Create material with ZEMPARWF
- Status: To Be Considered and Approved
- Current Work Item: Process Change Request 1397 (C...)
- Created On/By: 07.04.2022 16:21:33
- Changed On/By: 07.04.2022 16:26:24
- Type of Change Request: Create Material w. Parallel WI
- Step Type: Approve Change Request

The 'Basic Data' section shows:

- Material: P-070422P-70
- External Material Group:
- Product Hierarchy:
- Base Unit of Measure: EA each

At the bottom right of the detail view are buttons for 'Save', 'Approve' (highlighted with a red arrow), 'Reject', and 'Cancel'.

4.3.1. TX SWI6 Workflows for Object

SAP Workflow log (View with technical details)

Tree View

Steps

Created By	Workitem...	Node Number	Task Id
Elke Menninger	3356642	1	WS60800086
SAP_WFRT	3356643	4	TS60807944
		8	
		14	
SAP_WFRT	3356647	45	TS60807946
		50	
SAP_WFRT	3356648	152	TS60807953
SAP_WFRT	3356649	157	TS60807955
		162	
		243	
SAP_WFRT	3356651	162	WS60800086
SAP_WFRT	3356654	4	TS60807944
		8	
		14	
SAP_WFRT	3356761	177	TS60807950
SAP_WFRT	3356762	29	TS60807945
		34	
SAP_WFRT	3356763	45	TS60807946
		50	
		9	
SAP_WFRT	3356650	162	WS60800086
SAP_WFRT	3356652	4	TS60807944
		...	

Details Step History Deadlines Task Description Message Container

Definition

Element	Values
CR_NUMBER	1397
> USER_AGENT	< No Entries >
> NON_USER_AGENT	< 1 Entry >
> STEP_RESULT_MERGE_HANDLE	
ACTION	03
STEP	12
CR_TYPE	ZEMPARWF
CR_STATUS	
NEXT_STEP	99
MESSAGE_TAB	< No Entries >

4.4. Step 2: Merge Dummy

Automatic Check, if Workflow is completed → after User Tom also had approved → Workflow is merged BAdI Parallel

Step Result Merge: action 03 (Approve) and step 2

Steps	Created By	WorkID
> MDAF Rule-Based Workflow	SAP_WFRT	33566
> Get Change Request Type by Change Request Number	SAP_WFRT	33566
> UNTIL Loop		
> ◆ Loop 1		
> Check if there is assigned agent	SAP_WFRT	33566
> Check If Single Agent-Group Processing	SAP_WFRT	33566
> Check if Single/Parallel Processing	SAP_WFRT	33566
> Get Agent Group	SAP_WFRT	33566
> Get Parallel Change Request Group	SAP_WFRT	33566
> MDAF Single Step Workflow	SAP_WFRT	33566
> ◆ Loop 1		
> End of Fork	SAP_WFRT	33566
> MDAF Rule-Based Workflow	SAP_WFRT	33566
> MDAF Rule-Based Workflow	SAP_WFRT	33567
> Parallel Step Result Merge	SAP_WFRT	33567
> Clear Step-Action Table	SAP_WFRT	33567
> Check if the WF is Completed	SAP_WFRT	33567
> ◆ Loop 2		
> Check if there is assigned agent	SAP_WFRT	33567
> Get Change Request Attributes	SAP_WFRT	33567
> Agent and Route Finder	SAP_WFRT	33567
> Check if the WF is root and Status not Initial	SAP_WFRT	33567
> Check If Single Agent-Group Processing	SAP_WFRT	33567
> Check if Single/Parallel Processing		
> Get Process Pattern	SAP_WFRT	33567
> Fork to Process Pattern	SAP_WFRT	33567

Details Step History Deadlines Task Description Message Container

Element	Values
CR_NUMBER	1397
> USER_AGENT	< 1 Entry >
> NON_USER_AGENT	< No Entries >
> STEP_RESULT_MERGE_HANDLE	
ACTION	03
STEP	2
CR_TYPE	ZEMPARWF
CR_STATUS	02
NEXT_STEP	30
< MESSAGE_TAB >	< No Entries >

Automatic Dummy Step 2 (Loop 2): step 2 and action 03 → Status 02 (Changes to be executed) and next step 30

4.5. Step 30: User Maria

Maria approves (Step 30 and Action 03):

Change Request Tracker						
	Step	Description	Status	Action	Date	Time
00	Processing	02 Changes to Be Executed	Submit	07.04.2022	16:26:20	
11	Processing Branch 1	01 To Be Considered and Approved	Approve	07.04.2022	16:28:47	
12	Processing Branch 2	01 To Be Considered and Approved	Approve	07.04.2022	17:54:26	
30	Processing	02 Changes to Be Executed				
90	Final Check					

SAP Material: New Pump

Edit Expand all Collapse all Refresh Check Change Documents Workflow Log Assignment Block: Descriptions

Change Request

General Notes Attachments

General Data

Change Request: 1397
Description: Create material with ZEMPARWF
Priority:
Due Date:
Reason:

Process Data

Status: Changes to Be Executed
Current Work Item: Process Change Request 1397 (C... What's Next
Created On/By: 07.04.2022 16:21:33
Changed On/By: 07.04.2022 17:54:28
Type of Change Request: Create Material w. Parallel WI
Step Type: Approve Change Request

Basic Data

General Data

Material: P-070422P-70
Base Unit of Measure: EA each

Grouping

External Material Group:
Product Hierarchy:

Save Approve Reject Cancel

4.5.1. TX SWI6 - Workflows for Object

Steps

- MDAF Rule-Based Workflow
 - Get Change Request Type by Change Request Number
- UNTIL Loop
 - Loop 1
 - Loop 2
 - Loop 3
 - Check if there is assigned agent
 - Get Change Request Attributes
 - Agent and Route Finder
 - Check if the WF is root and Status not Initial
 - Check If Single Agent-Group Processing
 - Check if Single/Parallel Processing

Container

Definition

Element	Values
_Method_Objects	< Not Set >
CR_NUMBER	1397
USER_AGENT	< 1 Entry >
NON_USER_AGENT	< No Entries >
STEP_RESULT_MERGE_HANDLE	
ACTION	03
STEP	30
CR_TYPE	ZEMPARWF
CR_STATUS	02
NEXT_STEP	90
MESSAGE_TAB	< No Entries >
CR_PRIORITY	00

4.6. Step 90: User Thomas

Thomas activates the Change Request (Step 90 and Action 09)

Change Request Tracker

Step	Description	Status	Action	Date	Time
00	Processing	02 Changes to Be Executed	Submit	07.04.2022	16:26:20
11	Processing Branch 1	01 To Be Considered and Appro...	Approve	07.04.2022	16:28:47
12	Processing Branch 2	01 To Be Considered and Appro...	Approve	07.04.2022	17:54:26
30	Processing	02 Changes to Be Executed	Approve	07.04.2022	18:03:39
90	Final Check	02 Changes to Be Executed	Activate	07.04.2022	18:08:49

Close

SAP Material: New Pump

Edit Expand all Collapse all Refresh Check Change Documents Workflow Log Assignment Block: Descriptions

Change Request Edit

General Notes Attachments

General Data Process Data

Change Request:	1397	Status:	Changes to Be Executed
Description:	Create material with ZEMPARWF	Current Work Item:	Process Change Request 1397 (C... What's Next
Priority:		Created On/By:	07.04.2022 16:21:33 Elke Menninger
Due Date:		Changed On/By:	07.04.2022 18:03:40 Elke Menninger
Reason:		Type of Change Request:	Create Material w. Parallel WI
		Step Type:	Activate Change Request

Basic Data Edit Replication Status

General Data Grouping

Material:	P-070422P-70	External Material Group:
Base Unit of Measure:	EA each	Product Hierarchy:

Save Activate Reject Cancel

4.7. Step 91: Background

Background Step 91 and Action 31 (Activation) → next Step 99 (last step) and Status 05 (Final Check Approved)

4.8. Step 99: Last Step

Change Request is finished. Status 05 (Final Check Approved)

Change Request Tracker

Step	Description	Status	Action	Date	Time
00	Processing	02 Changes to Be Executed	Submit	07.04.2022	16:26:20
11	Processing Branch 1	01 To Be Considered and Appro...	Approve	07.04.2022	16:28:47
12	Processing Branch 2	01 To Be Considered and Appro...	Approve	07.04.2022	17:54:26
30	Processing	02 Changes to Be Executed	Approve	07.04.2022	18:03:39
90	Final Check	02 Changes to Be Executed	Activate	07.04.2022	18:08:49

Close

SAP Material: New Pump

Expand all Collapse all Refresh Validation Log Change Documents Workflow Log Assignment Block: Descriptions

Change Request

General Notes Attachments

General Data		Process Data	
Change Request:	1397	Status:	Final Check Approved
Description:	Create material with ZEMPARWF	Current Work Item:	What's Next
Priority:		Created On/By:	07.04.2022 16:21:33
Due Date:		Changed On/By:	07.04.2022 18:08:50
Reason:		Finalized On/By:	07.04.2022 18:08:51
		Type of Change Request:	Create Material w. Parallel WI
		Step Type:	Activate Change Request

Basic Data Replication Status

General Data		Grouping	
Material:	P-070422P-70	External Material Group:	

Save **Cancel**

4.8.1. TX SWI6 - Workflows for Object

Steps

Step	Created By	Workite
MDAF Rule-Based Workflow		335664
> Get Change Request Type by Change Request Number	SAP_WFRT	335664
UNTIL Loop		
> Loop 1		
> Loop 2		
> Loop 3		
> Loop 4		
> Loop 5		
> Check if there is assigned agent	SAP_WFRT	335678
> Get Change Request Attributes	SAP_WFRT	335678
> Agent and Route Finder	SAP_WFRT	335678
> Check if the WF is root and Status not initial	SAP_WFRT	335678
> Check If Single Agent-Group Processing	SAP_WFRT	335678
> Check if Single/Parallel Processing	SAP_WFRT	335678
> Check if the WF is Completed		

Details Step History Deadlines Task Description Message Container

Definition

Element	Values
> _Adhoc_Objects	< Not Set >
> _Attach_Objects	< Not Set >
□ _Vi_Actual_Agent	< Not Set >
> _Vi_Group_ID	< No Instance >
> _Workitem	WORKINGWI:000003356789
> _Rule_Result	< No Instance >
> _Method_Objects	< Not Set >
□ CR_NUMBER	1397
> USER_AGENT	< No Entries >
> NON_USER_AGENT	< 1 Entry >
> STEP_RESULT_MERGE_HANDL-	
□ ACTION	31
□ STEP	91
□ CR_TYPE	ZEMPARWF
□ CR_STATUS	05
□ NEXT_STEP	99
> MESSAGE_TAB	< No Entries >
□ CR_PRIORITY	00
□ CR_REASON_REJ	
□ CR_REASON	

5. Additional Information

5.1. Further Reading

Product SAP Master Data Governance	https://www.sap.com/products/master-data-governance.html
What's New Viewer – SAP S/4HANA	https://help.sap.com/doc/474a13c5e9964c849c3a14d6c04339b5/100/en-US/8880de6dbfb94ea3b0de1f26b40816dc.html? with Line of Business Cross Applications and Search Term MDG
MDG Community	https://community.sap.com/topics/master-data-governance
SAP Master Data Governance at a Glance With Key and What's New Presentations	https://blogs.sap.com/2020/07/21/sap-master-data-governance-at-a-glance/
Online Help SAP MDG in S/4HANA	https://help.sap.com/viewer/6d52de87aa0d4fb6a90924720a5b0549/latest/en-US/56a57357f2b1aa6be1000000a4450e5.html
Online Help SAP MDG on ECC	https://help.sap.com/viewer/product/SAP_MASTER_DATA_GOVERNANCE/latest/en-US
Road Map Explorer	https://roadmaps.sap.com/board?PRODUCT=901B0ED1A0641EDA9FF75276E440C0EF&range=FIRST-LAST#Q3%202020
Business Function Online Help	https://help.sap.com/viewer/7113856e409647838af7891e1429b807/latest/en-US/18a64e59f0744143a0c2ff9bc1b6aabc.html
How-to Information for SAP Master Data Governance	https://community.sap.com/topics/master-data-governance/how-to
Video S/4HANA 2021	Media Share: https://video.sap.com/playlist/details/1_0n327xkg/categoryId/65627981 YouTube: https://www.youtube.com/playlist?list=PLWV533hWWvDnDSbXAtplj4aZRVMd6aRUz

5.2. SAP Notes

In addition to the detailed explanations written in this document, please see the following SAP Notes for further important information.

Note Number	Note Description
SAP Note 3116111	MDG Workflow Log Navigation Issue
SAP Note 3094459	Workflow tracker popup shows unexpected workflow steps
SAP Note 3065269	MDG Workflow: email notifications do not show master ID for profit and cost centerSAP Note
SAP Note 3114112	Navigation parameter workflow step for adaptions missing when navigating from CR InboxSAP Note
SAP Note 3158840	German text in WS60800086 Step 73 Outcomes Description
SAP Note 3170411	MDG-C: Changes requests remain in the "Approval" step and do not reach the final approval or activationSAP Note
SAP Note 3084590	Work item selection for side panel my change request is not working correctlySAP Note
SAP Note 2989863	MDG: Agent determination fails
SAP Note 3063297	Reject change request
SAP Note 2816571	Functional Restrictions in MDG for Material on SAP S/4HANA 1909
SAP Note 2948873	Functional Restrictions in MDG for Material on SAP S/4HANA 2020
SAP Note 3070012	Functional Restrictions in MDG for Material on SAP S/4HANA 2021
SAP Note 2816557	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 1909SAP Note
SAP Note 2925030	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2020SAP Note
SAP Note 3070003	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2021SAP Note
SAP Note 3043582	MDG Customer Connection 2020
SAP Note 2888104	MDG Customer Connection 2019
SAP Note 2765664	MDG Customer Connection 2018