

PUBLIC

How-To Utilize Business Add-In Rule-Based Workflow - Call System Method to Create a Follow-Up Change Request

Applicable Releases:
MDG 7.0 and higher

Version 4.0
December 2024

Document History

Document Version	Description
1.0	First official release of this guide
1.1	Small corrections
2.0	Adapt current template, elaborate step-by-step description
3.0	Switch to new API-method (3199378 - MDG Framework: Create Follow-Up Change Request via standard API) (April 2022)
4.0	Layout update (December 2024)

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1. BUSINESS SCENARIO

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

The MDG 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 scenario addresses the customer requirement for activation and distribution before the complete maintain process for material creation is completed.

This How-To guide describes the solution to automatically create a new change request after the activation of a material create change request (follow-up change request).

2. BACKGROUND INFORMATION

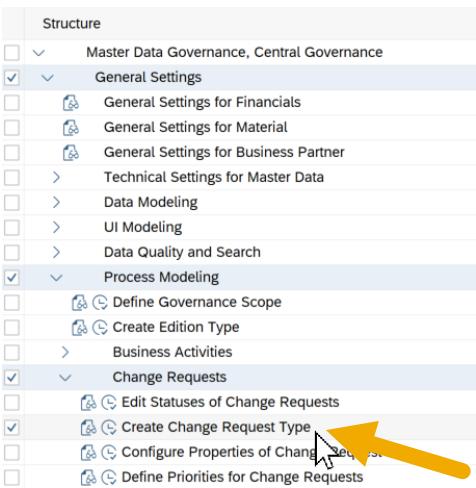
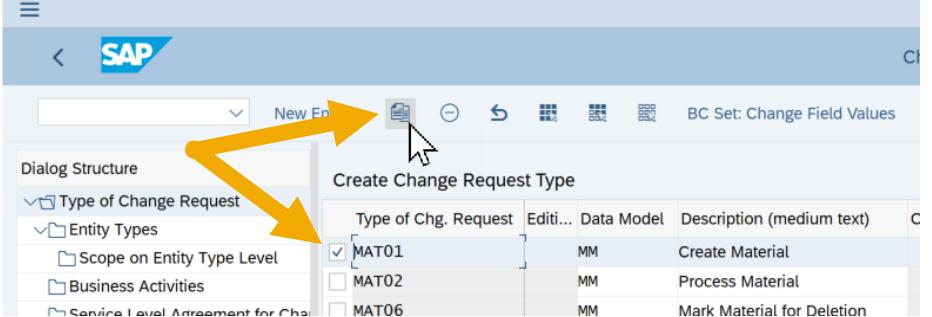
The Business Add-In (BAdI) *Rule-Based Workflow - Call System Method* (USMD_SSW_SYSTEM_METHOD_CALLER) is used to create the new change request automatically. It enables calling a system method in a rule-based workflow in SAP Master Data Governance. You might refer to the BAdI documentation for further details.

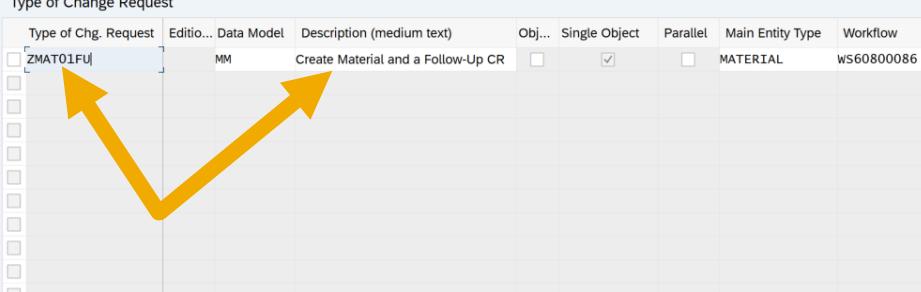
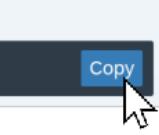
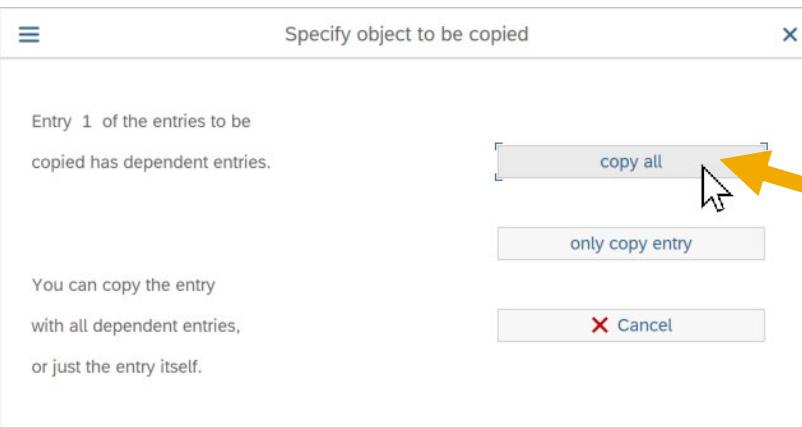
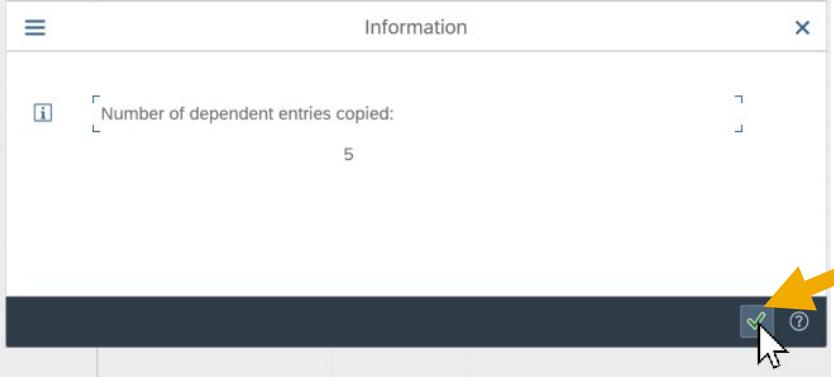
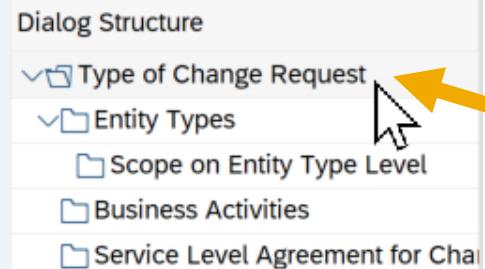
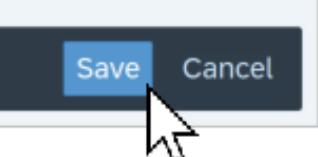
3. STEP BY STEP EXPLANATION

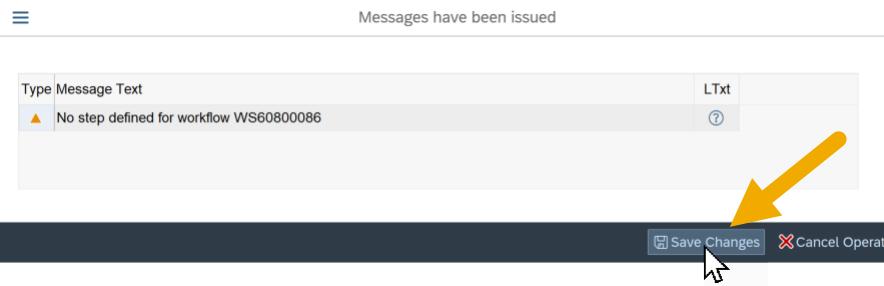
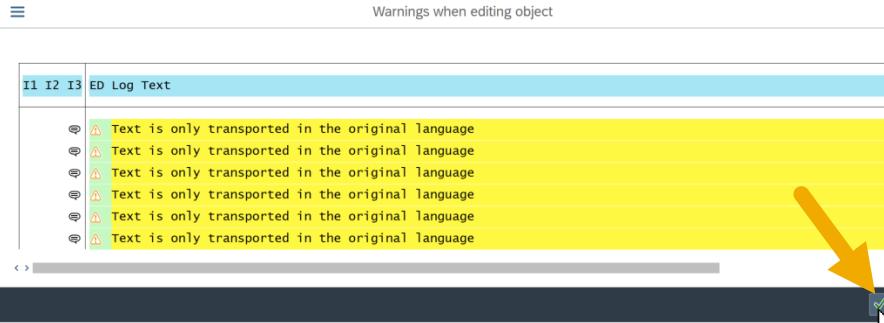
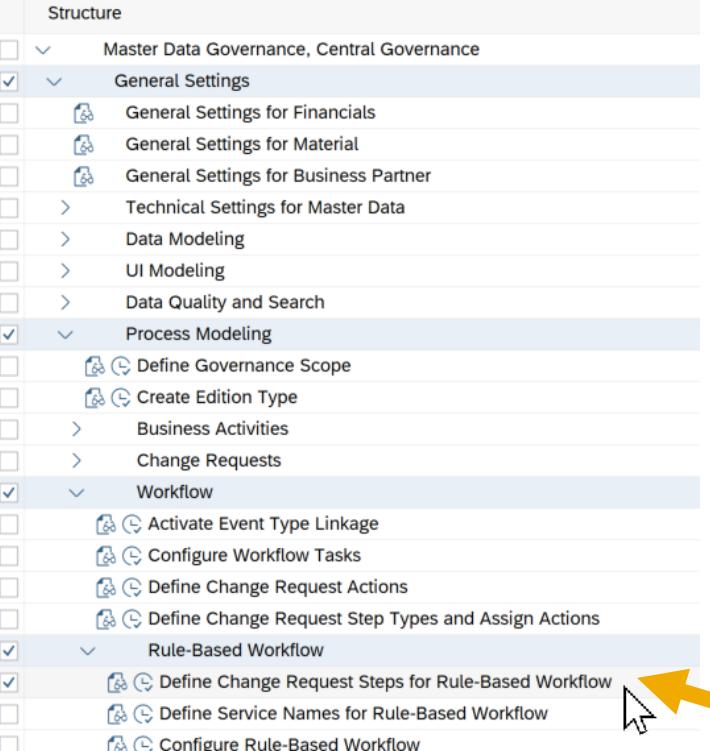
Goal	Approach
During creation of a new material a follow-up change request for this material shall be automatically created after successful activation.	Via configuration and a BAdl implementation a specific change request type is configured so that a follow-up change request is created referencing the current change request for the new material.
Summary	<p>In this document for a non-disruptive approach, a new change request type is created and configured (chapter 3.1). To omit starting from scratch the SAP-delivered change request type MAT01 (Create Material) is copied and adjusted. Chapter 3.2 describes the definition of a new service name for rule-based workflow. The configuration of a rule-based workflow for the new change request type is described in chapter 3.3. A new BAdl implementation for BAdl USMD_SSW_SYSTEM_METHOD_CALLER is created to implement the creation of a follow-up change request (chapter 3.4). In chapter 3.5 the whole configuration and implementation is tested.</p>

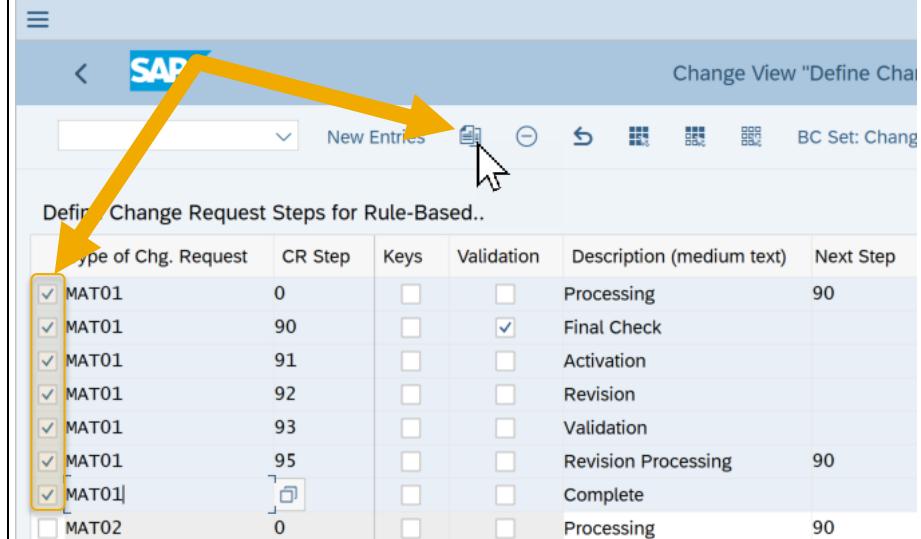
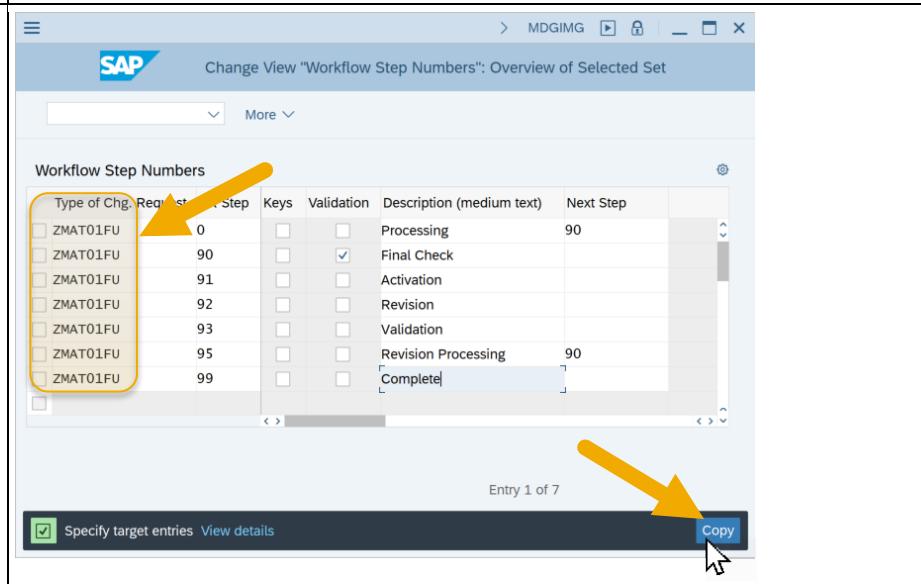
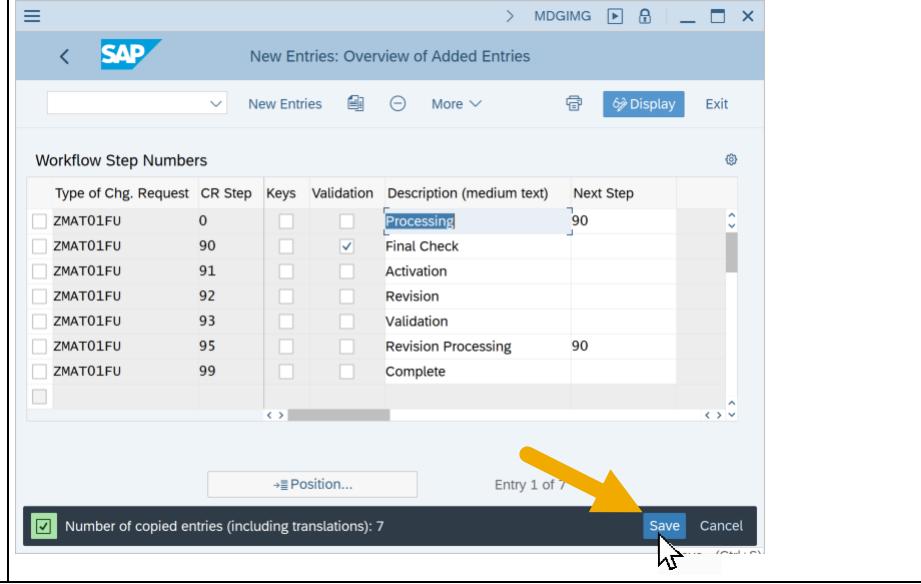
3.1. Create new CR-Type and configure CR Steps

To bring this sub-workflow into action it shall be incorporated in a rule-based workflow. In this document for a non-disruptive approach, a new change request type is created and configured. To omit starting from scratch the SAP-delivered change request type MAT01 (Create Material) is copied and adjusted.

Step	Explanation	Screenshot													
1	Start transaction MDGIMG. Navigate to <i>General Settings > Process Modeling > Change Requests > Create Change Request Type</i> .														
2	Select change request type MAT01 and press <i>Copy As</i> .	 <table border="1"> <thead> <tr> <th>Type of Chg. Request</th> <th>Edit...</th> <th>Data Model</th> <th>Description (medium text)</th> </tr> </thead> <tbody> <tr> <td>MAT01</td> <td>MM</td> <td>Create Material</td> </tr> <tr> <td>MAT02</td> <td>MM</td> <td>Process Material</td> </tr> <tr> <td>MAT06</td> <td>MM</td> <td>Mark Material for Deletion</td> </tr> </tbody> </table>	Type of Chg. Request	Edit...	Data Model	Description (medium text)	MAT01	MM	Create Material	MAT02	MM	Process Material	MAT06	MM	Mark Material for Deletion
Type of Chg. Request	Edit...	Data Model	Description (medium text)												
MAT01	MM	Create Material													
MAT02	MM	Process Material													
MAT06	MM	Mark Material for Deletion													

Step	Explanation	Screenshot
3	Enter the following values: <ul style="list-style-type: none">Type of Change Request: ZMAT01FUDescription: Create Material and Follow-Up CR	
4	Press <i>Copy</i> .	
5	In pop-up <i>Specify object to be copied</i> press <i>Copy All</i> .	
6	Acknowledge the information on number of dependent entries copied by pressing <i>Continue</i> .	
7	Navigate to <i>Type of Change Request</i> .	
8	Press <i>Save</i> .	

Step	Explanation	Screenshot
9	In case pop-up <i>Messages have been issued</i> is displayed acknowledge message 'No step defined for Workflow WS60800086' by pressing <i>Save Changes</i> .	
10	<p>Also, pop-up <i>Warning when editing objects</i> (if displayed) has to be acknowledged with <i>Continue</i>.</p> <p>Note: You might need to chose a transport request to record your changes.</p>	
11	<p>Go back to MDGIMG. Navigate to <i>General Settings > Process Modeling > Workflow > Rule-Based Workflow > Define Change Request Steps for Rule-Based Workflow</i>.</p>	

Step	Explanation	Screenshot																																																						
12	Select all entries for change request type MAT01 and press <i>Copy As</i> .	 <p>Change View "Define Change Request Steps for Rule-Based.."</p> <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>MAT01</td><td>0</td><td></td><td></td><td>Processing</td><td>90</td></tr> <tr><td>MAT01</td><td>90</td><td></td><td></td><td>Final Check</td><td></td></tr> <tr><td>MAT01</td><td>91</td><td></td><td></td><td>Activation</td><td></td></tr> <tr><td>MAT01</td><td>92</td><td></td><td></td><td>Revision</td><td></td></tr> <tr><td>MAT01</td><td>93</td><td></td><td></td><td>Validation</td><td></td></tr> <tr><td>MAT01</td><td>95</td><td></td><td></td><td>Revision Processing</td><td>90</td></tr> <tr><td>MAT01</td><td>99</td><td></td><td></td><td>Complete</td><td></td></tr> <tr><td>MAT02</td><td>0</td><td></td><td></td><td>Processing</td><td>90</td></tr> </tbody> </table>	Type of Chg. Request	CR Step	Keys	Validation	Description (medium text)	Next Step	MAT01	0			Processing	90	MAT01	90			Final Check		MAT01	91			Activation		MAT01	92			Revision		MAT01	93			Validation		MAT01	95			Revision Processing	90	MAT01	99			Complete		MAT02	0			Processing	90
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MAT02	0			Processing	90																																																			
13	Change the name of the change request type to ZMAT01FU. Keep all other values as they are. Press <i>Copy</i> .	 <p>Change View "Workflow Step Numbers": Overview of Selected Set</p> <table border="1"> <thead> <tr> <th>Type of Chg. Request</th> <th>Request Step</th> <th>Keys</th> <th>Validation</th> <th>Description (medium text)</th> <th>Next Step</th> </tr> </thead> <tbody> <tr><td>ZMAT01FU</td><td>0</td><td></td><td></td><td>Processing</td><td>90</td></tr> <tr><td>ZMAT01FU</td><td>90</td><td></td><td></td><td>Final Check</td><td></td></tr> <tr><td>ZMAT01FU</td><td>91</td><td></td><td></td><td>Activation</td><td></td></tr> <tr><td>ZMAT01FU</td><td>92</td><td></td><td></td><td>Revision</td><td></td></tr> <tr><td>ZMAT01FU</td><td>93</td><td></td><td></td><td>Validation</td><td></td></tr> <tr><td>ZMAT01FU</td><td>95</td><td></td><td></td><td>Revision Processing</td><td>90</td></tr> <tr><td>ZMAT01FU</td><td>99</td><td></td><td></td><td>Complete</td><td></td></tr> </tbody> </table> <p>Entry 1 of 7</p> <p>Specify target entries View details</p> <p><input checked="" type="checkbox"/> Copy</p>	Type of Chg. Request	Request Step	Keys	Validation	Description (medium text)	Next Step	ZMAT01FU	0			Processing	90	ZMAT01FU	90			Final Check		ZMAT01FU	91			Activation		ZMAT01FU	92			Revision		ZMAT01FU	93			Validation		ZMAT01FU	95			Revision Processing	90	ZMAT01FU	99			Complete							
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14	Press Save. Note: You might need to chose a transport request to record you changes.	 <p>New Entries: Overview of Added Entries</p> <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>ZMAT01FU</td><td>0</td><td></td><td></td><td>Processing</td><td>90</td></tr> <tr><td>ZMAT01FU</td><td>90</td><td></td><td></td><td>Final Check</td><td></td></tr> <tr><td>ZMAT01FU</td><td>91</td><td></td><td></td><td>Activation</td><td></td></tr> <tr><td>ZMAT01FU</td><td>92</td><td></td><td></td><td>Revision</td><td></td></tr> <tr><td>ZMAT01FU</td><td>93</td><td></td><td></td><td>Validation</td><td></td></tr> <tr><td>ZMAT01FU</td><td>95</td><td></td><td></td><td>Revision Processing</td><td>90</td></tr> <tr><td>ZMAT01FU</td><td>99</td><td></td><td></td><td>Complete</td><td></td></tr> </tbody> </table> <p>Number of copied entries (including translations): 7</p> <p>Position... Entry 1 of 7</p> <p><input checked="" type="checkbox"/> Save Cancel</p>	Type of Chg. Request	CR Step	Keys	Validation	Description (medium text)	Next Step	ZMAT01FU	0			Processing	90	ZMAT01FU	90			Final Check		ZMAT01FU	91			Activation		ZMAT01FU	92			Revision		ZMAT01FU	93			Validation		ZMAT01FU	95			Revision Processing	90	ZMAT01FU	99			Complete							
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3.2. Create a Service Name in IMG

This chapter describes the definition of a service name for the rule-based workflow. It serves as Business Add-In (BAI) filter value (see next chapter) and is at the same time available for definitions in the rule-based workflow (BRF+) for process pattern *Synchronous System Method (02)*.

Usage of the service name as BAI filter:

The screenshot shows the SAP Business Rule Framework plus interface. A filter configuration window is open with the following details:

- Filter Type:** Character-like
- Value 1:** ZMY_SERVICE_NAME
- Comparator 1:** =
- Filter:** SERVICE_NAME
- Value 2:** (empty)

Usage of the service name in a rule-based workflow:

The screenshot shows the SAP Business Rule Framework plus interface with a decision table open. The table has the following structure:

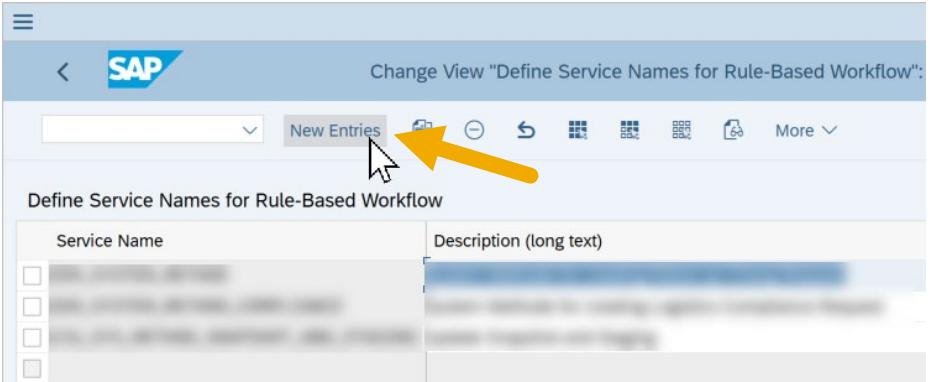
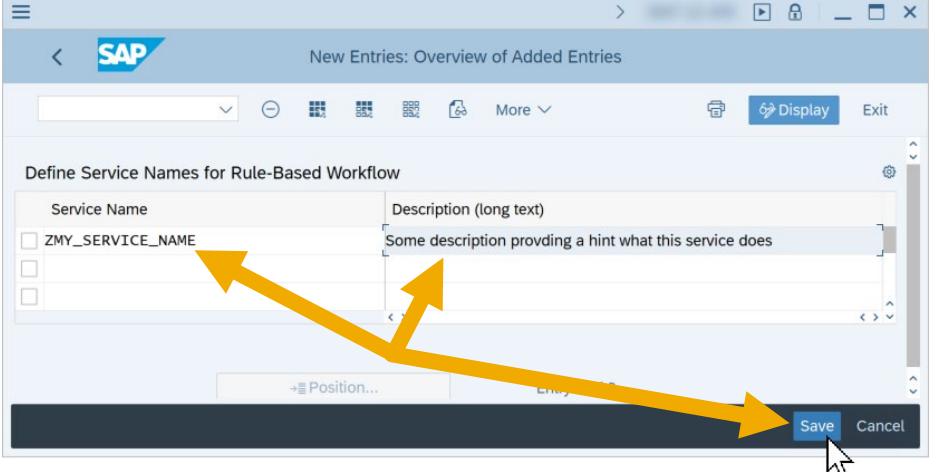
Condition Alias	Agent Group	Process Pattern	Service Name
=1	001	05 Activation (Bypass Snapshot)	ZMY_SERVICE_NAME
=2	001	99 Complete (Sub-)Workflow	
=4 ; =6	001	06 Activation (Bypass Snapshot)	
=8	001	99 Complete (Sub-)Workflow	
=10	001	02 (Synchronous System Method)	ZMY_SERVICE_NAME

A yellow box highlights the row where the condition alias is '=10' and the process pattern is '02 (Synchronous System Method)'. A yellow arrow points to the 'OK' button at the bottom of the dialog.

In the following steps generic names and descriptions are used. For this guide, replace them as follows:

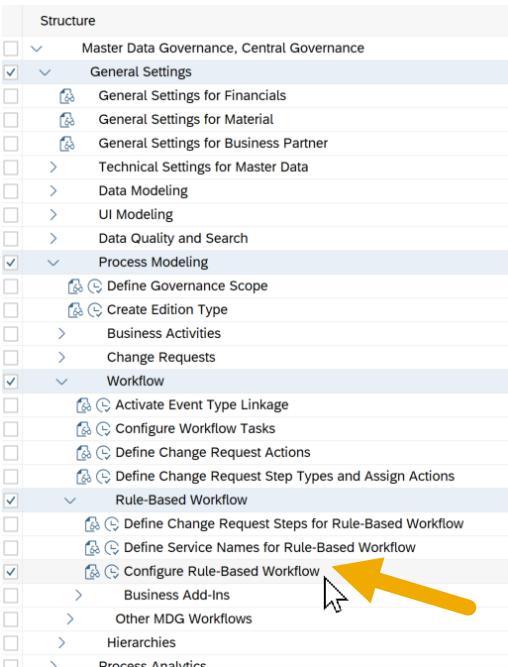
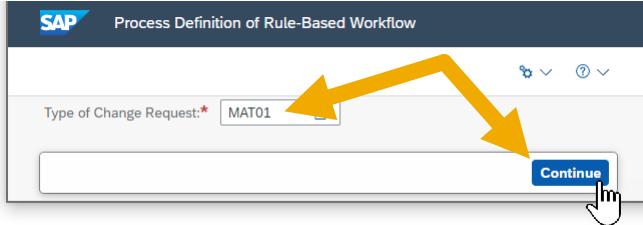
Object	Name / Description	To be replaced by:
Service Name	ZMY_SERVICE_NAME	ZCREATE_FOLLOW_UP_CR
Service Description	Some description providing a hint what this service does	Create Follow-Up Change Request

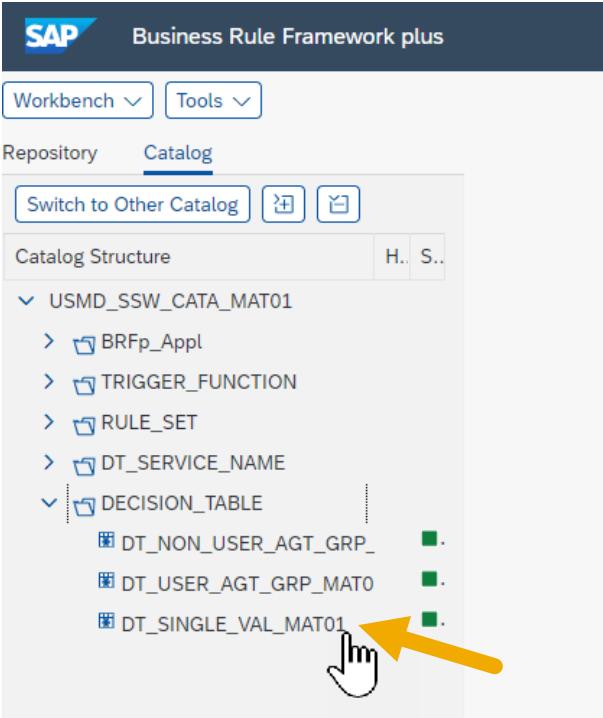
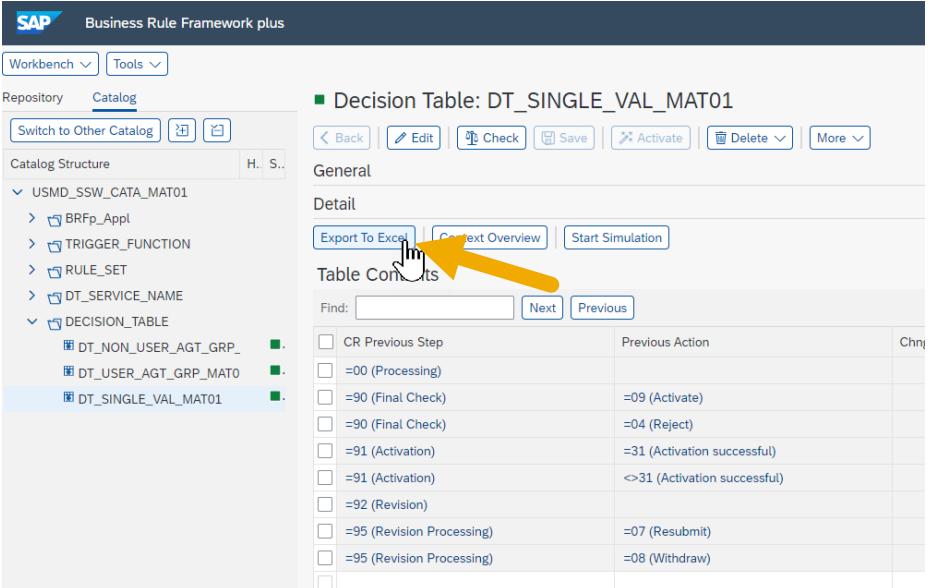
Step	Explanation	Screenshot
1	Start transaction MDGIMG. Navigate to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow > Define Service Names for Rule-Based Workflow .	<p>The screenshot shows the SAP Fiori launchpad with the following navigation path highlighted in yellow:</p> <ul style="list-style-type: none"> Master Data Governance, Central Governance General Settings Process Modeling Rule-Based Workflow Define Service Names for Rule-Based Workflow <p>A large yellow arrow points to the final step in the path.</p>

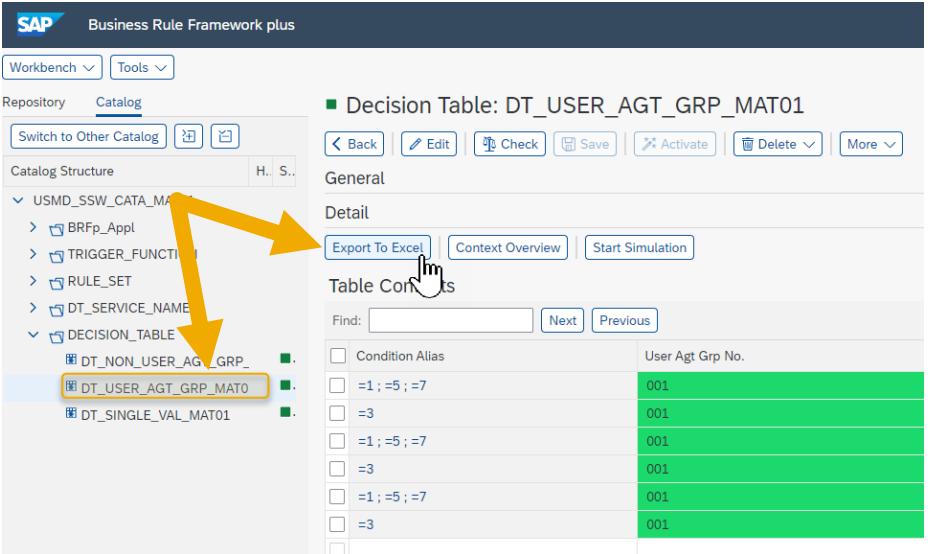
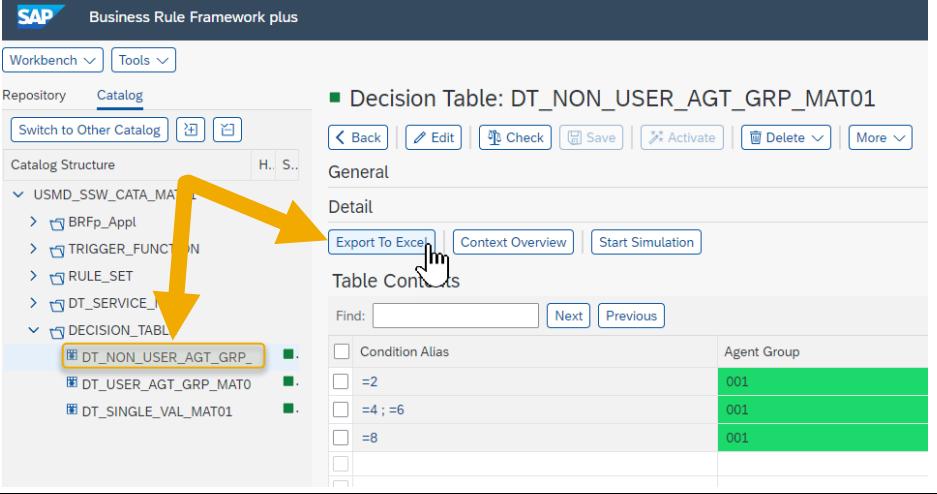
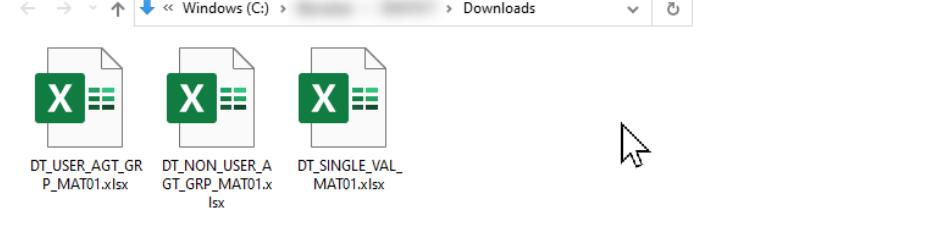
Step	Explanation	Screenshot
2	Press <i>New Entries</i> .	
3	<p>Create a new entry with the following data:</p> <ul style="list-style-type: none"> • Some <i>Service Name</i> which gives the service a suitable and handy name, here: ZMY_SERVICE_NAME • A <i>Description</i> providing a hint what this service does <p>Press <i>Save</i>.</p> <p>Note: You might need to chose a transport request to record you changes.</p>	

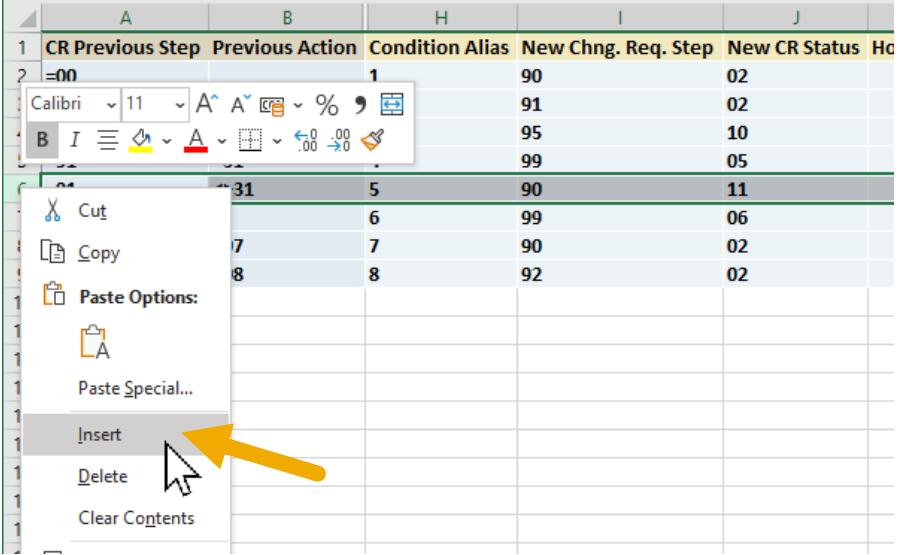
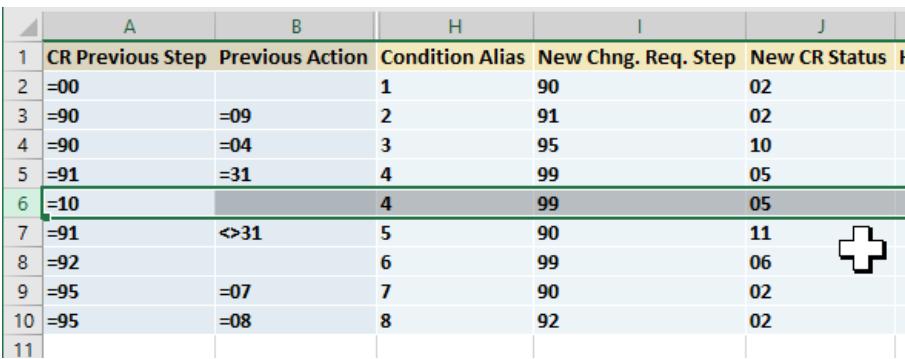
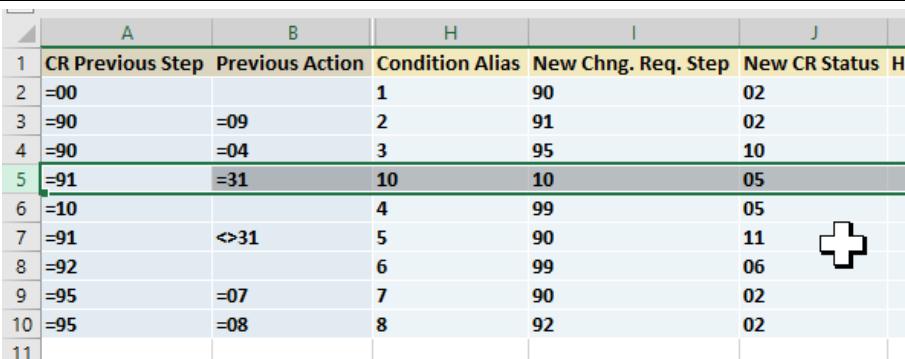
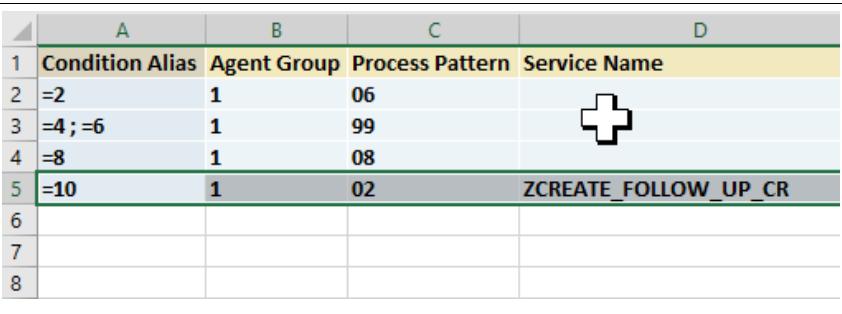
3.3. Configure Rule-Based Workflow for new CR-Type

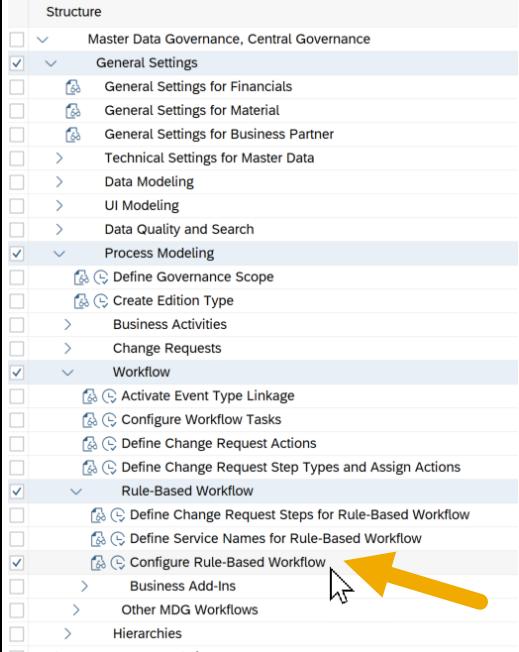
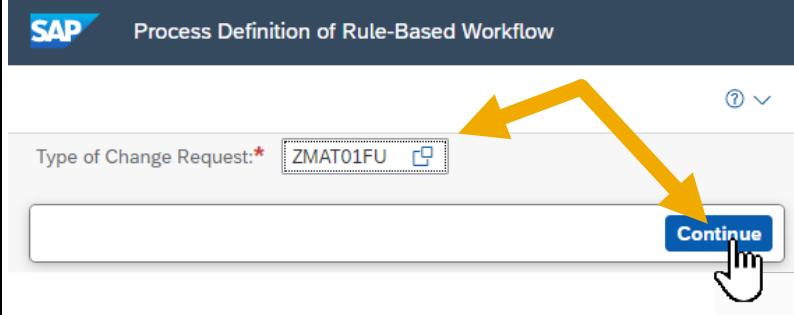
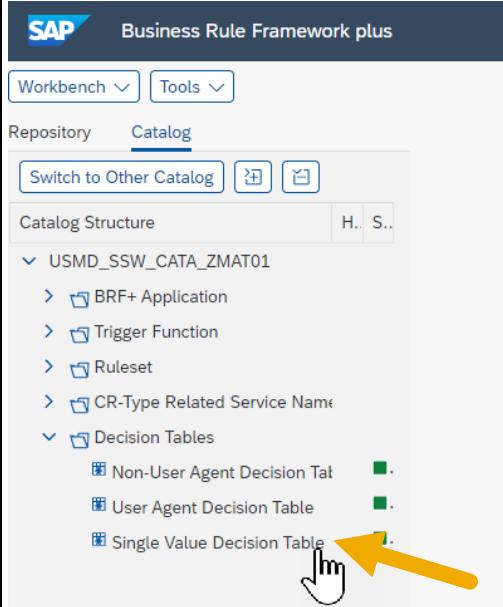
This chapter describes the configuration of a rule-based workflow for the new change request type. To omit starting from scratch the BRF+ decision tables of the SAP-delivered change request type MAT01 (Create Material) are copied and adjusted.

Step	Explanation	Screenshot
1	Start transaction MDGIMG. Navigate to <i>General Settings</i> > <i>Process Modeling</i> > <i>Workflow</i> > <i>Rule-Based Workflow</i> > <i>Configure Rule-Based Workflow</i> .	
2	Enter the created change request type MAT01 and press <i>Continue</i> .	

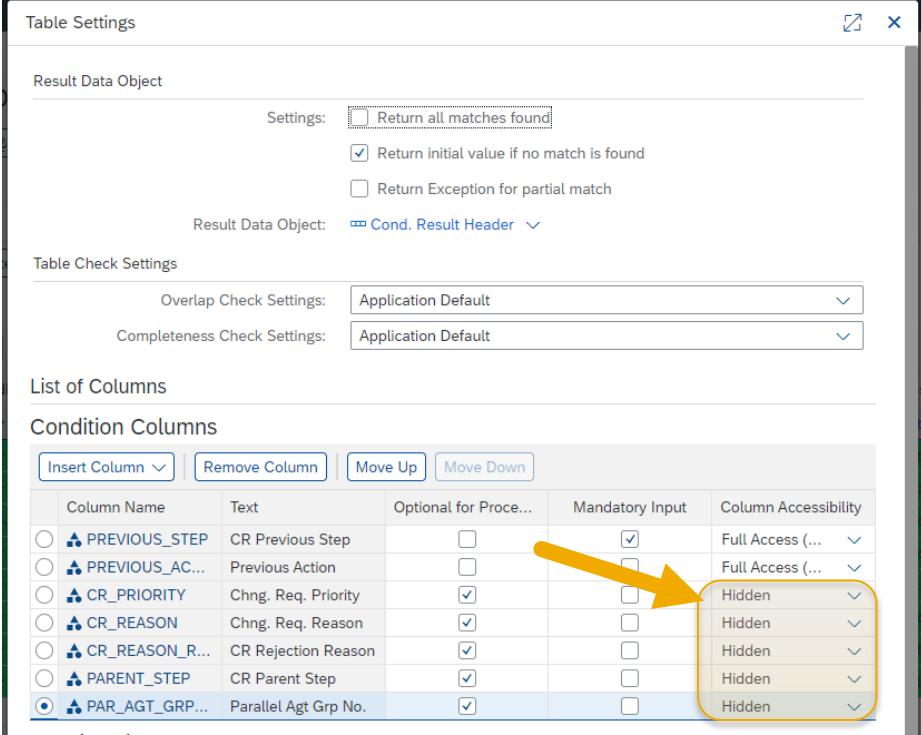
Step	Explanation	Screenshot
3	Navigate to the single value decision table (DT_SINGLE_VAL_MAT01).	 <p>The screenshot shows the SAP Business Rule Framework plus interface. The Catalog tab is selected. In the Catalog Structure tree, under USMD_SSW_CATA_MAT01, there is a node labeled DECISION_TABLE. Inside DECISION_TABLE, three sub-nodes are listed: DT_NON_USER_AGT_GRP_, DT_USER_AGT_GRP_MATO, and DT_SINGLE_VAL_MAT01. A yellow arrow points to the DT_SINGLE_VAL_MAT01 node.</p>
4	Press <i>Export To Excel</i> .	 <p>The screenshot shows the SAP Business Rule Framework plus interface with the DT_SINGLE_VAL_MAT01 decision table selected. The toolbar at the top includes buttons for Back, Edit, Check, Save, Activate, Delete, and More. Below the toolbar, the title bar says "Decision Table: DT_SINGLE_VAL_MAT01". The main area displays the table's structure and a table of contents. A yellow arrow points to the "Export To Excel" button in the toolbar.</p>

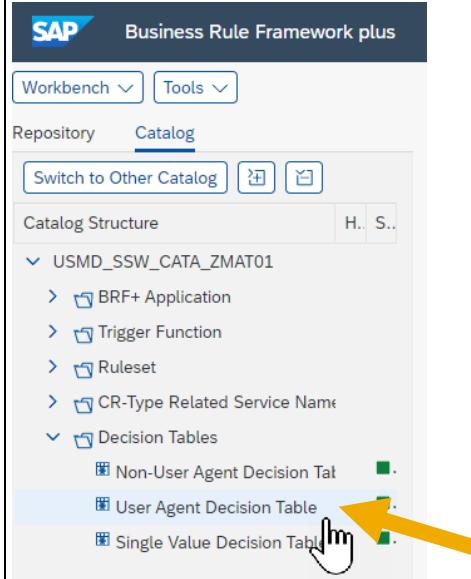
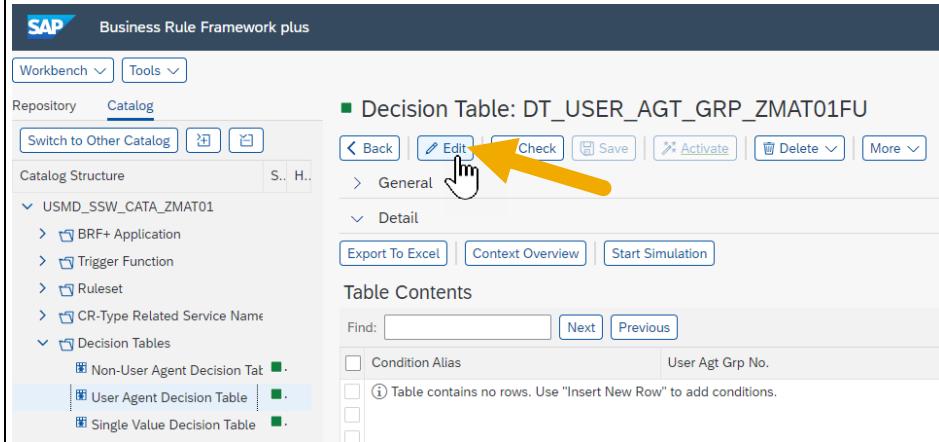
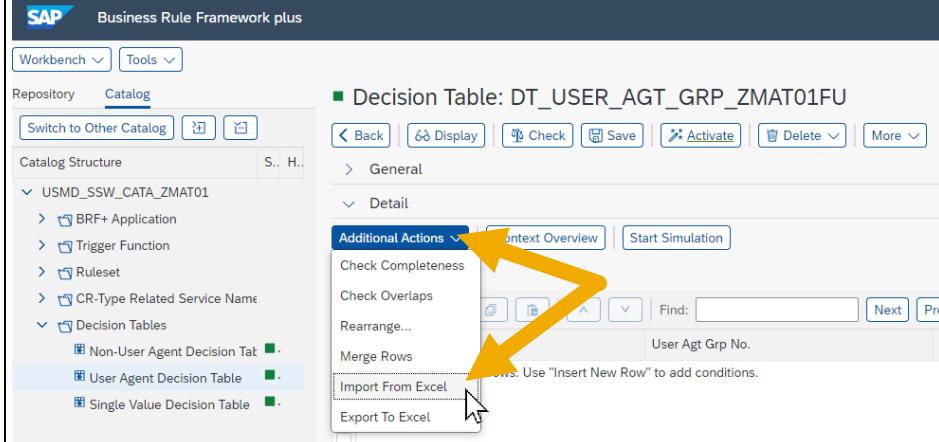
Step	Explanation	Screenshot														
5	Navigate to the user agent decision table (DT_USER_AGT_GRP_MAT01) and press <i>Export To Excel</i> .	 <p>Decision Table: DT_USER_AGT_GRP_MAT01</p> <table border="1"> <thead> <tr> <th>Condition Alias</th> <th>User Agt Grp No.</th> </tr> </thead> <tbody> <tr><td>=1 ; =5 ; =7</td><td>001</td></tr> <tr><td>=3</td><td>001</td></tr> <tr><td>=1 ; =5 ; =7</td><td>001</td></tr> <tr><td>=3</td><td>001</td></tr> <tr><td>=1 ; =5 ; =7</td><td>001</td></tr> <tr><td>=3</td><td>001</td></tr> </tbody> </table>	Condition Alias	User Agt Grp No.	=1 ; =5 ; =7	001	=3	001	=1 ; =5 ; =7	001	=3	001	=1 ; =5 ; =7	001	=3	001
Condition Alias	User Agt Grp No.															
=1 ; =5 ; =7	001															
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=1 ; =5 ; =7	001															
=3	001															
6	Navigate to the non-user agent decision table (DT_NON_USER_AGT_GRP_MAT01) and press <i>Export To Excel</i> .	 <p>Decision Table: DT_NON_USER_AGT_GRP_MAT01</p> <table border="1"> <thead> <tr> <th>Condition Alias</th> <th>Agent Group</th> </tr> </thead> <tbody> <tr><td>=2</td><td>001</td></tr> <tr><td>=4 ; =6</td><td>001</td></tr> <tr><td>=8</td><td>001</td></tr> </tbody> </table>	Condition Alias	Agent Group	=2	001	=4 ; =6	001	=8	001						
Condition Alias	Agent Group															
=2	001															
=4 ; =6	001															
=8	001															
7	There should be three MS Excel files downloaded.															

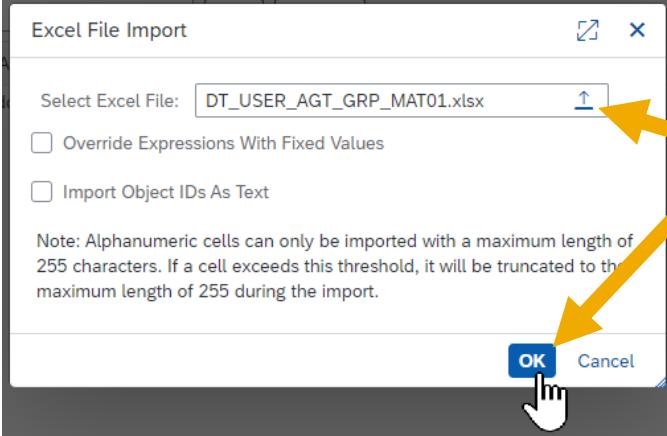
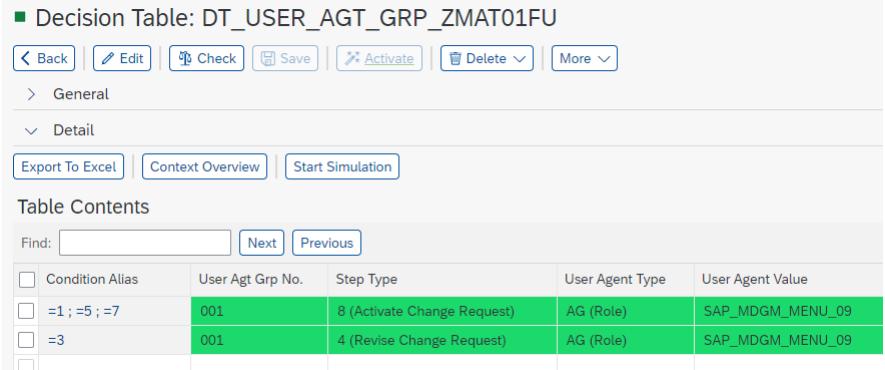
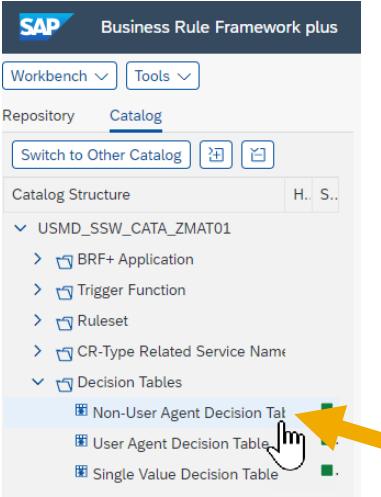
Step	Explanation	Screenshot
8	Open MS Excel document DT_SINGLE_VAL_MAT01.xls x and insert an additional row between the original rows 5 and 6.	 A screenshot of a Microsoft Excel spreadsheet titled 'DT_SINGLE_VAL_MAT01.xls'. The spreadsheet has columns labeled A, B, H, I, and J. Row 5 contains the values '=00', '1', '90', '02', and 'H'. Row 6 contains the values '=90', '2', '91', '02', and 'H'. A context menu is open over the cell containing '1' in row 5, column H. The menu options include Cut, Copy, Paste Options, Paste Special..., Insert, Delete, and Clear Contents. A yellow arrow points to the 'Insert' option in the menu.
9	Insert the following values: <ul style="list-style-type: none">• CR Previous Step: =10• Previous Action: (empty)• Condition Alias: 4• New CR Step: 99• New CR Status: 05	 A screenshot of the same Microsoft Excel spreadsheet after the new row has been inserted. Row 6 now contains the value '=10' in column A. The other values remain the same as in row 5: '=90' in column B, '2' in column H, '91' in column I, and '02' in column J.
10	Change the values of row no. 5: <ul style="list-style-type: none">• Condition Alias: 10• New CR Step: 10	 A screenshot of the Microsoft Excel spreadsheet showing the changes made to row 5. The values are now: '=91' in column A, '=31' in column B, '10' in column H, '10' in column I, and '05' in column J.
11	Save the MS Excel file.	
12	Open MS Excel document DT_NON_USER_AGت_GRP_MAT01.xlsx and add the following values to (new) row no. 5: <ul style="list-style-type: none">• Condition Alias: =10• Agent Group: 10• Process Pattern: 02• Service Name: ZCREATE_FOLLOW_UP_CR	 A screenshot of a Microsoft Excel spreadsheet titled 'DT_NON_USER_AGت_GRP_MAT01.xlsx'. The spreadsheet has columns labeled A, B, C, and D. Row 5 contains the values '=10', '1', '02', and 'ZCREATE_FOLLOW_UP_CR'. Rows 6 through 8 are empty. A yellow plus sign icon is located in the bottom right corner of the spreadsheet area.
13	Save the MS Excel file.	

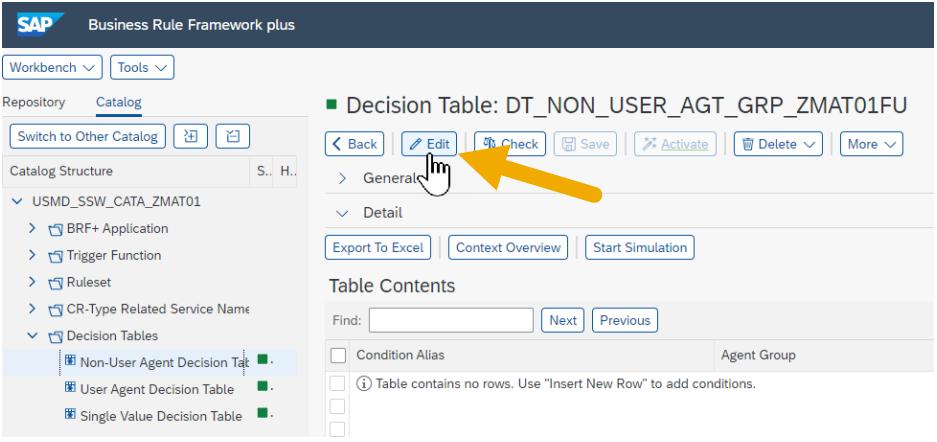
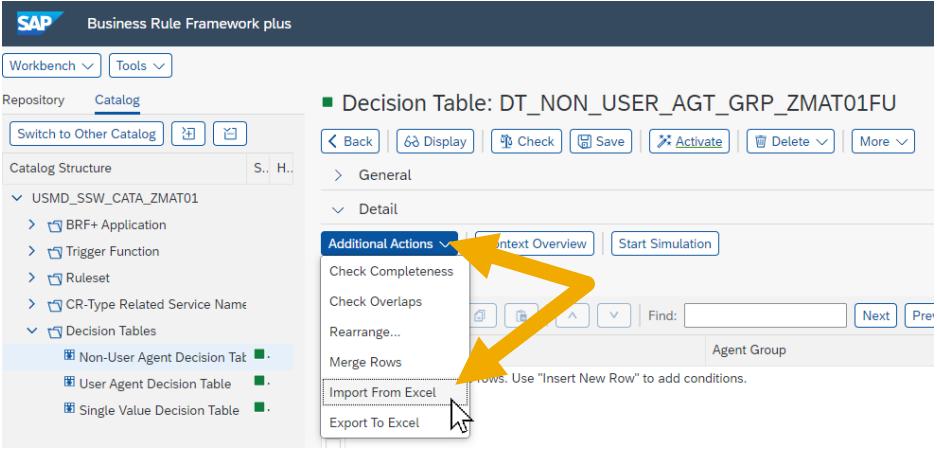
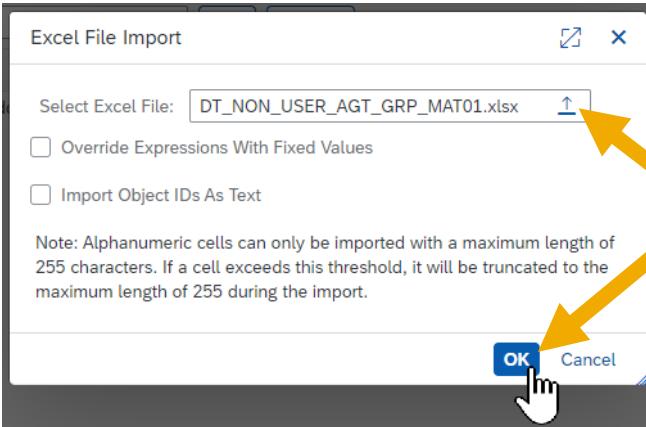
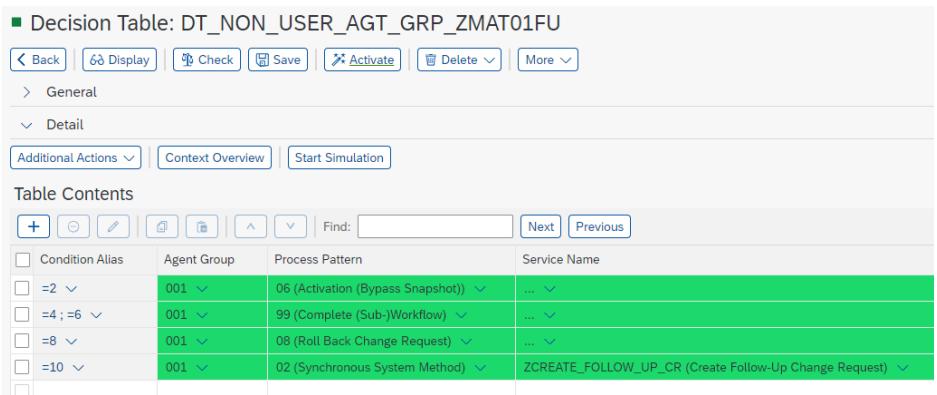
Step	Explanation	Screenshot
14	<p>In the MDG IMG navigate again to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow.</p>	 <p>The screenshot shows the SAP MDG IMG navigation tree. The path selected is: Structure > Master Data Governance, Central Governance > General Settings > Process Modeling > Workflow > Rule-Based Workflow. A yellow arrow points to the 'Configure Rule-Based Workflow' option under the Rule-Based Workflow section.</p>
15	<p>Enter the newly created change request type ZMAT01FU and press Continue.</p> <p>Note: You might need to chose a transport request to record your changes.</p>	 <p>The screenshot shows the 'Process Definition of Rule-Based Workflow' dialog box. It has a field 'Type of Change Request:' containing 'ZMAT01FU' and a 'Continue' button. A yellow arrow points from the 'ZMAT01FU' field to the 'Continue' button.</p>
16	<p>Navigate to the single value decision table (DT_SINGLE_VAL_ZMAT01SC).</p>	 <p>The screenshot shows the 'Business Rule Framework plus' catalog structure. Under 'Catalog Structure', there is a node 'Decision Tables' which contains 'Single Value Decision Table'. A yellow arrow points to this node.</p>

Step	Explanation	Screenshot
17	Press <i>Edit</i> to change to edit mode.	
18	Press <i>Additional Actions > Import From Excel</i> to import the corresponding MS Excel file and apply its content as settings since the actual settings of the single value decision table are empty.	
19	Select MS Excel file DT_SINGLE_VAL_MAT01.xlsx and press OK. Having "..._MAT01..." instead of "..._ZMATFU..." in the file name will not be any issue.	
20	You might want to adjust the Table Settings to hide non-relevant columns.	

Step	Explanation	Screenshot
21	Non-relevant columns in this case are the condition columns CR_PRIORITY and the following ones.	
22	The decision table should contain the adjusted values from the MS Excel file.	
23	Save the decision table.	
24	Activate the decision table.	

Step	Explanation	Screenshot
25	Navigate to the user agent decision table (DT_USER_AGT_GRP_ZMAT01SC).	
26	Press <i>Edit</i> to change to edit mode.	
27	Press <i>Additional Actions > Import From Excel</i> to import the corresponding MS Excel file and apply its content as settings since the actual settings of the single value decision table are empty.	

Step	Explanation	Screenshot															
28	Select MS Excel file DT_USER_AGT_GRP_MAT01.xlsx and press OK.																
29	The decision table should contain the values from the MS Excel file. Make sure the User Agent Type and User Agent Value contain appropriate values.	 <table border="1"> <thead> <tr> <th>Condition Alias</th> <th>User Agt Grp No.</th> <th>Step Type</th> <th>User Agent Type</th> <th>User Agent Value</th> </tr> </thead> <tbody> <tr> <td>=1 ; =5 ; =7</td> <td>001</td> <td>8 (Activate Change Request)</td> <td>AG (Role)</td> <td>SAP_MDGM_MENU_09</td> </tr> <tr> <td>=3</td> <td>001</td> <td>4 (Revise Change Request)</td> <td>AG (Role)</td> <td>SAP_MDGM_MENU_09</td> </tr> </tbody> </table>	Condition Alias	User Agt Grp No.	Step Type	User Agent Type	User Agent Value	=1 ; =5 ; =7	001	8 (Activate Change Request)	AG (Role)	SAP_MDGM_MENU_09	=3	001	4 (Revise Change Request)	AG (Role)	SAP_MDGM_MENU_09
Condition Alias	User Agt Grp No.	Step Type	User Agent Type	User Agent Value													
=1 ; =5 ; =7	001	8 (Activate Change Request)	AG (Role)	SAP_MDGM_MENU_09													
=3	001	4 (Revise Change Request)	AG (Role)	SAP_MDGM_MENU_09													
30	Save the decision table.																
31	Activate the decision table.																
32	Navigate to the user agent decision table (DT_NON_USER_AGT_GRP_ZMAT01SC).																

Step	Explanation	Screenshot
33	Press <i>Edit</i> to change to edit mode.	
34	Press <i>Additional Actions > Import From Excel</i> to import the corresponding MS Excel file and apply its content as settings since the actual settings of the single value decision table are empty.	
35	Select MS Excel file DT_NON_USER_AGT_GRP_MAT01.xlsx and press <i>OK</i> .	
36	The decision table should contain the adjusted values from the MS Excel file.	

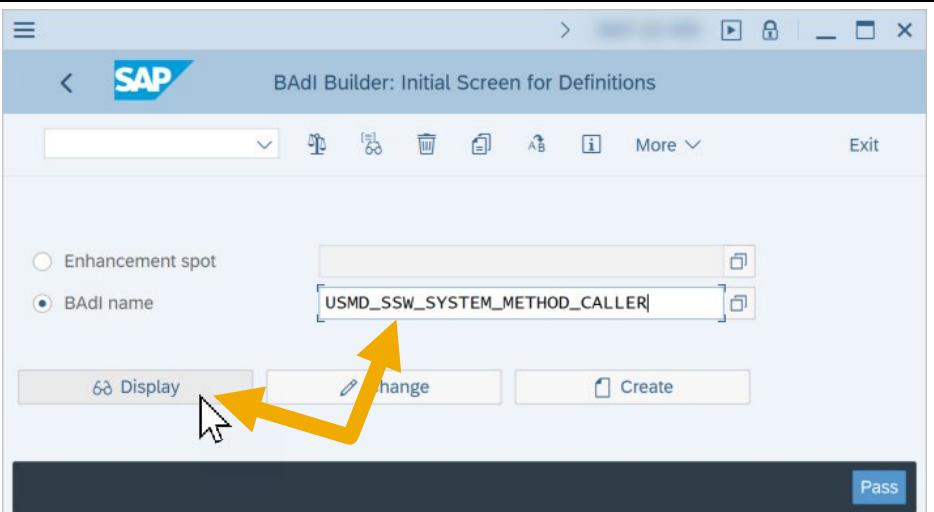
Step	Explanation	Screenshot
37	Save the decision table.	<p>Decision Table: DT_NON_USER_AGT_GRP_ZMAT01FU</p>
38	Activate the decision table.	<p>Decision Table: DT_NON_USER_AGT_GRP_ZMAT01FU Active version available</p>
39	In case a confirmation for the activation is required chose Yes.	<p>⚠️ Confirm Activation</p> <p>Do you really want to activate</p>

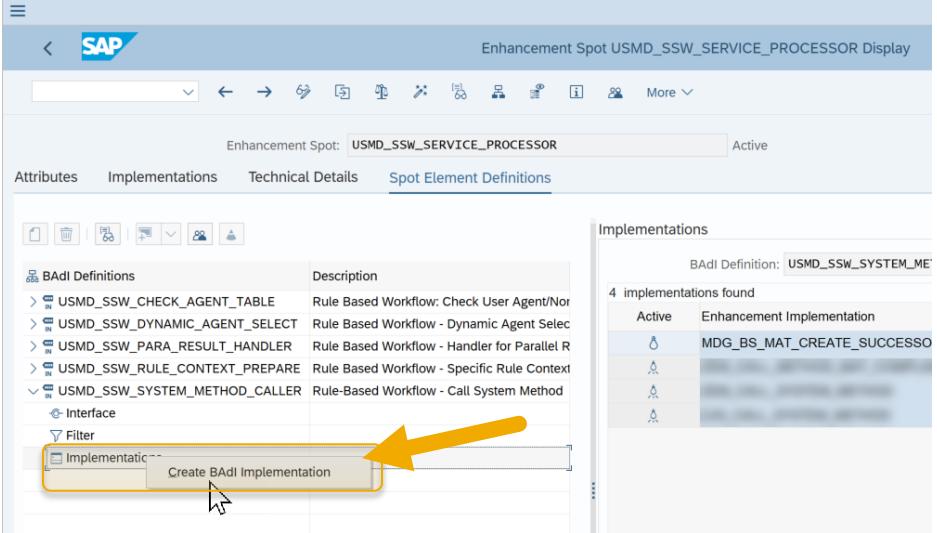
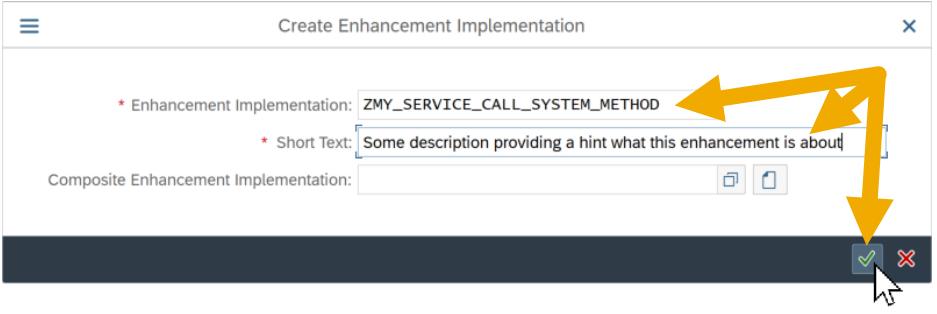
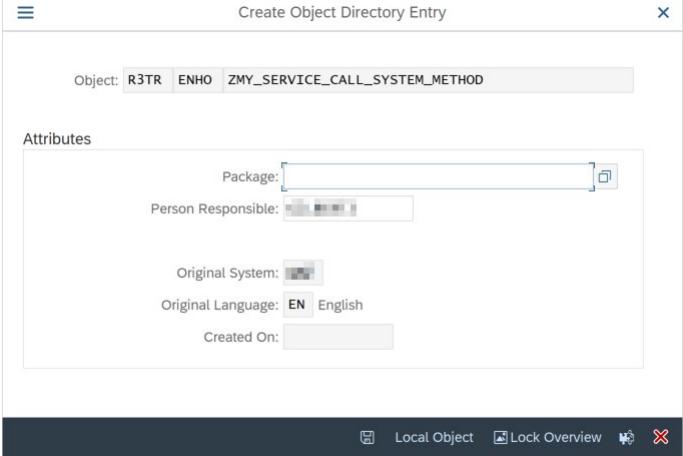
3.4. Enhancement Spot USMD_SSW_SERVICE_PROCESSOR

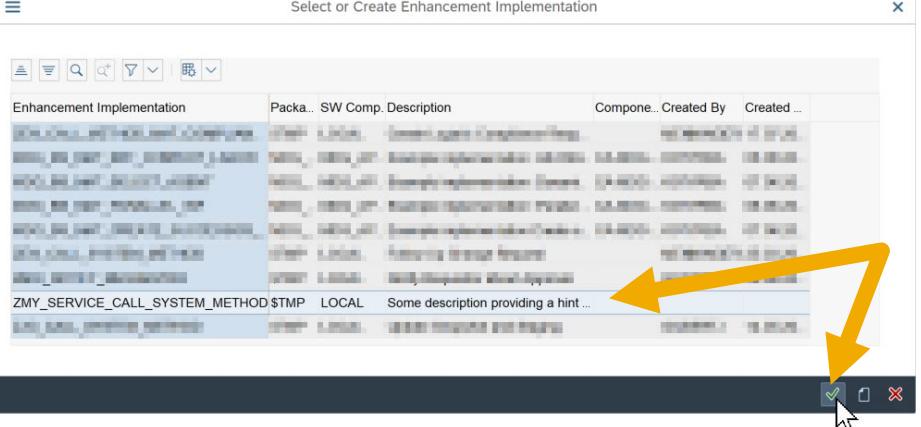
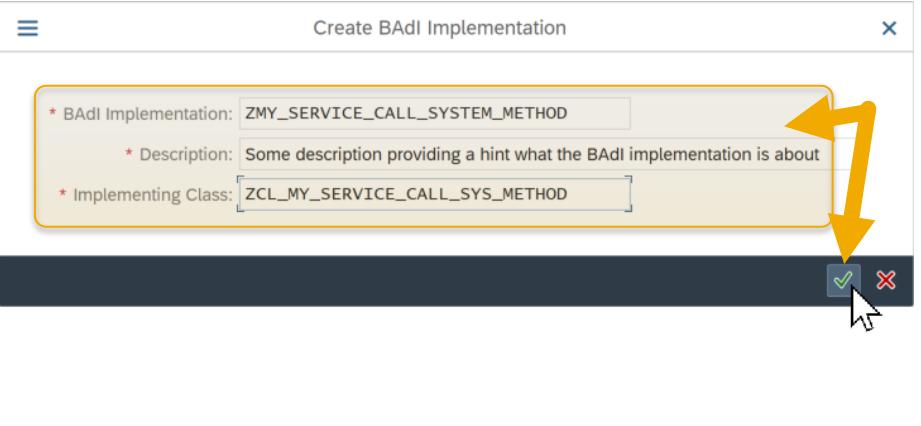
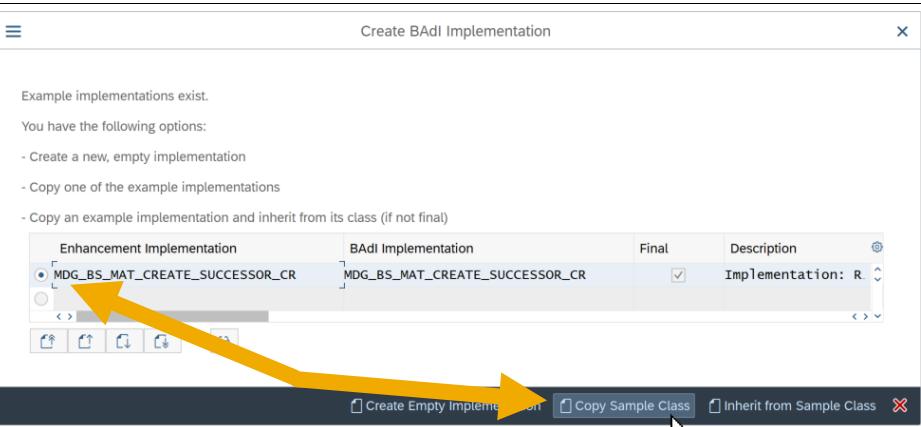
In this chapter a Business Add-In (BAdI) implementation for BAdI USMD_SSW_SYSTEM_METHOD_CALLER (Rule-Based Workflow - Call System Method) is created. It enables calling a system method in a rule-based workflow in SAP Master Data Governance. You might refer to the BAdI documentation for further details. The service name defined in a previous chapter (3.2) serves as BAdI filter. The actual implementation of the BAdI method depends on the use case that should be accomplished.

In the following steps generic names and descriptions are used. For this guide, replace them as follows:

Object	Name / Description	To be replaced by:
Enhancement Implementation	ZMY_SERVICE_CALL_SYSTEM_METHOD	ZBDI_CREATE_FOLLOW_UP_CR
Enhancement Implementation Short Text	Some description providing a hint what this enhancement is about	Create Follow-Up Change Request
BAdI Implementation	ZMY_SERVICE_CALL_SYSTEM_METHOD	ZBDI_CREATE_FOLLOW_UP_CR
BAdI Implementation Description	Some description providing a hint what this BAdI implementation is about.	Create Follow-Up Change Request
BAdI Implementing Class	ZCL_MY_SERVICE_CALL_SYS_METHOD	ZCL_ZBDI_CREATE_FOLLOW_UP_CR
BAdI Filter Value	ZMY_SERVICE_NAME	ZCREATE_FOLLOW_UP_CR

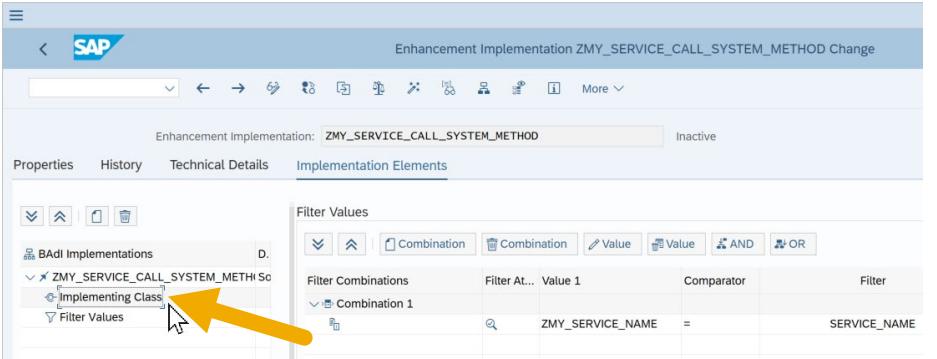
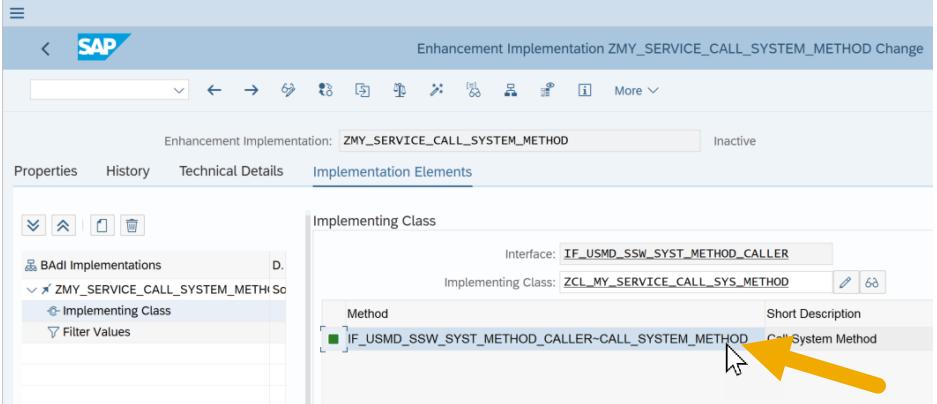
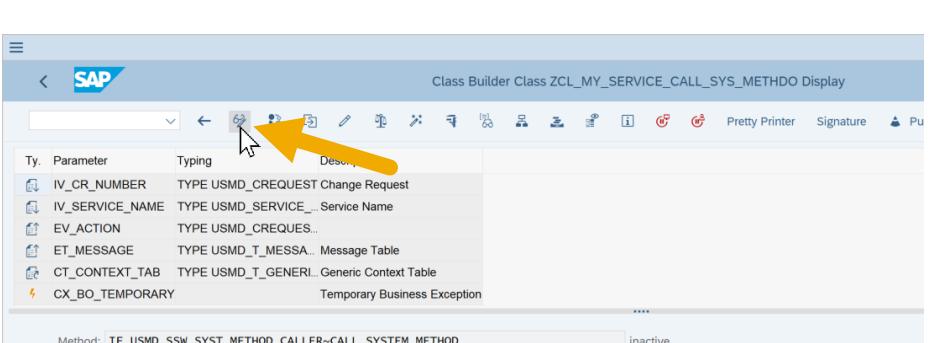
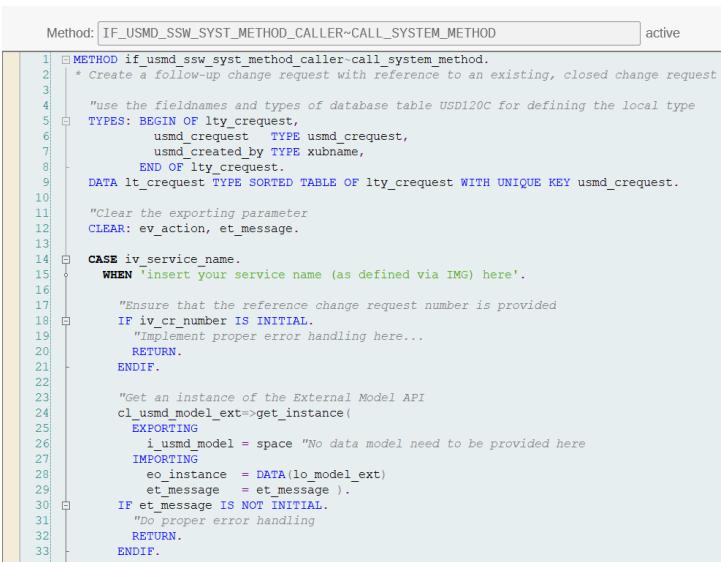
Step	Explanation	Screenshot
1	Start transaction SE18. Select option <i>BAdI Name</i> and enter USMD_SSW_SYSTEM_METHOD_CALLER . Press <i>Display</i> .	

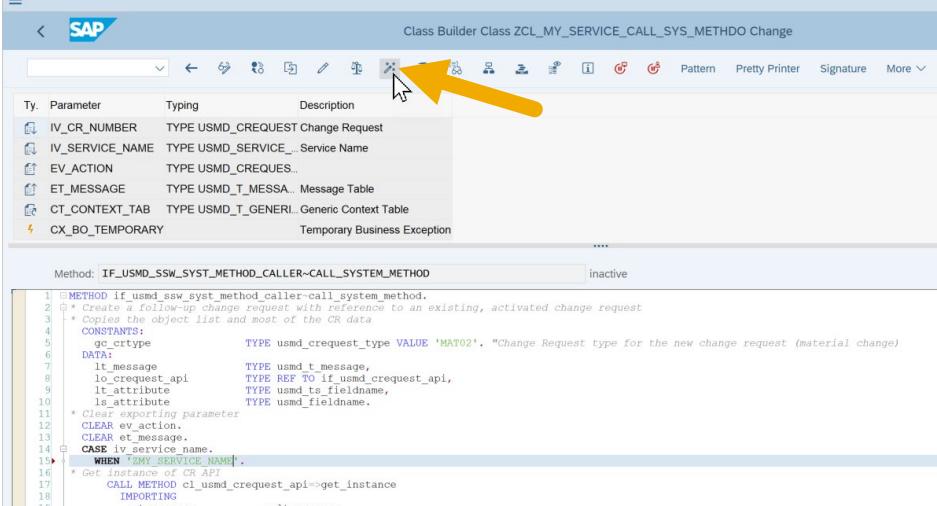
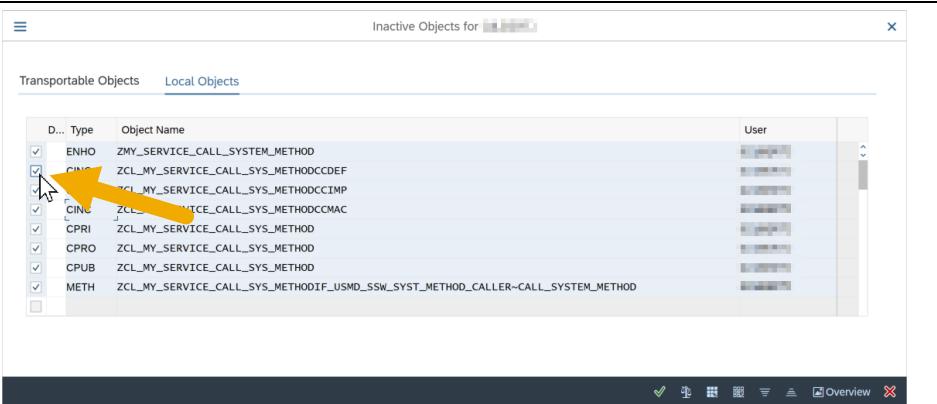
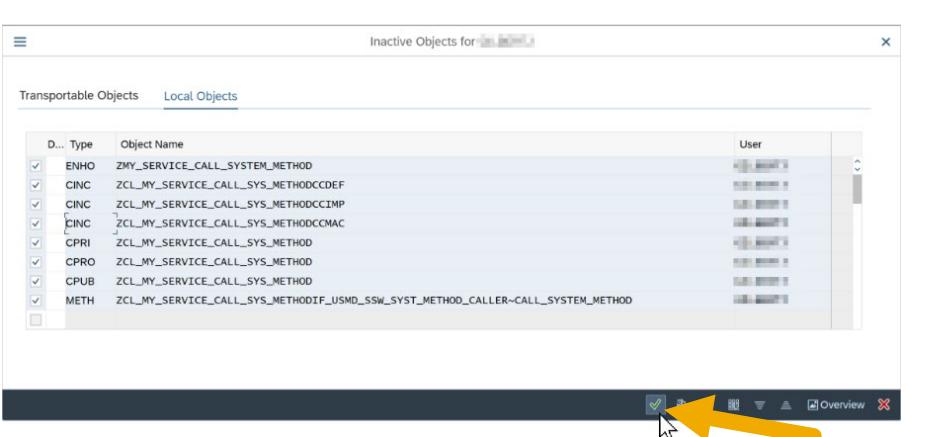
Step	Explanation	Screenshot
2	Open the context menu on the <i>Implementations</i> for BAdI <code>USMD_SSW_SYSTEM_METHOD_CALLER</code> and chose <i>Create BAdI Implementation</i> .	
3	In pop-up <i>Select or Create Enhancement Implementation</i> press <i>Create Enhancement Implementation</i> .	
4	In pop-up <i>Create Enhancement Implementation</i> enter the following data: <ul style="list-style-type: none"> Some name for the <i>Enhancement Implementation</i> which gives the enhancement a suitable and handy name, here: <code>ZMY_SERVICE_CALL_SYSTEM_METHOD</code> Some <i>Short Text</i> providing a hint what this enhancement is about. Press <i>Creation of Enhancement</i> .	
5	Chose a suitable development package or store the enhancement implementation as local object depending on your needs.	

Step	Explanation	Screenshot
6	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> .	
7	In pop-up <i>Create BAdI Implementation</i> enter the following data: <ul style="list-style-type: none"> Some name for the <i>BAdI Implementation</i> which gives the BAdI implementation a suitable and handy name, here: ZMY_SERVICE_CALL_SYSTEM_METHOD Some <i>Description</i> providing a hint what this BAdI implementation is about. A name of the <i>Implementing Class</i> which implemented the BAdI interface, here: ZCL_MY_SERVICE_CALL_SYS_METHOD Press <i>Continue</i> .	
8	In the next pop-up chose enhancement implementation MDG_BS_MAT_CREATE_SUCCESSOR_CR and press <i>Copy Sample Class</i> . Prerequisite: 3199378 - MDG Framework: Create Follow-Up Change Request via standard API	

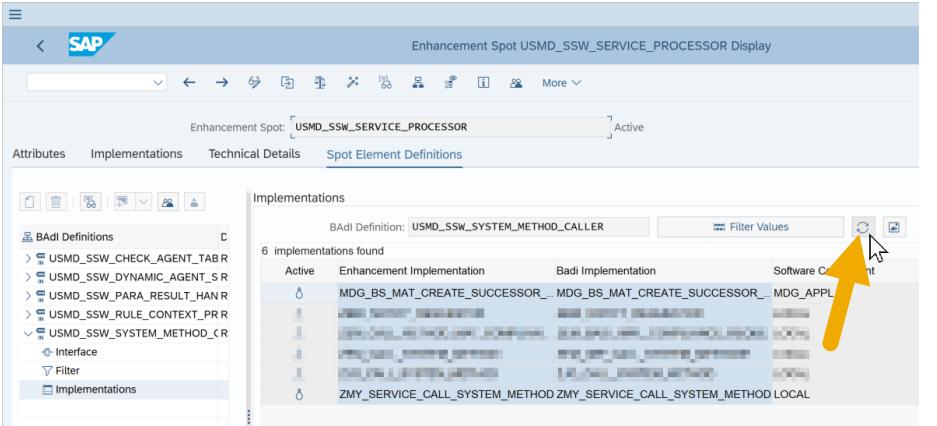
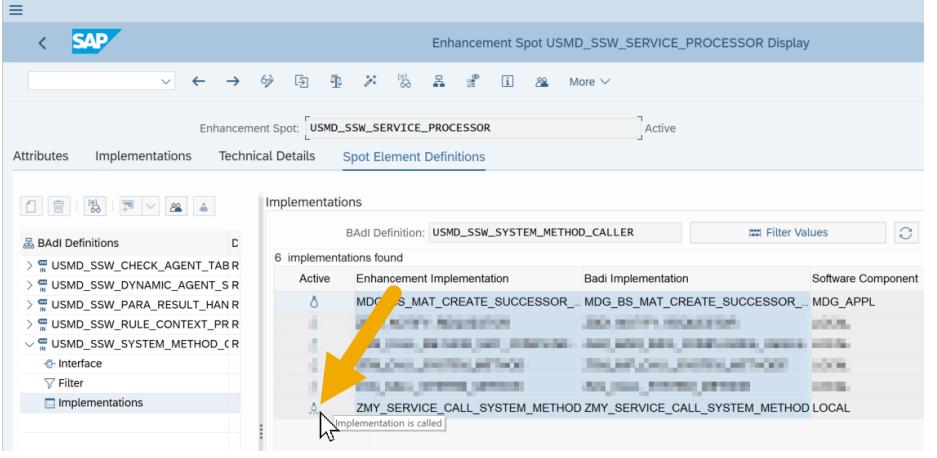
Step	Explanation	Screenshot
9	Chose a suitable development package or store the implementation class as local object depending on your needs.	
10	Navigate to the <i>Filter Values</i> for the BAdI implementation.	
11	Go to edit mode.	

Step	Explanation	Screenshot				
12	A filter shall be created for filter SERVICE_NAME to be ZMY_SERVICE_NAME, matching the service defined in IMG activity <i>Define Service Names for Rule-Based Workflow</i> (see 3.2). Hence, press <i>Combination</i> .					
13	Double-click the combination or press <i>Value</i> .					
14	In pop-up <i>Change Filter Value</i> enter/ select the following data: <ul style="list-style-type: none">Value 1: The service name defined in IMG activity <i>Define Service Names for Rule-Based Workflow</i> (see 3.2), here: ZMY_SERVICE_NAME You might use the value help to choose the service name.Comparator: = Press <i>Continue</i>. Note: One BAdI implementation can handle calls for more than one service name. The service name is handed to the BAdI method to distinguish between use cases.	<table border="1"><caption>Restrict Value Range (1) 1 Entry found</caption><thead><tr><th>Service Name</th><th>Desc. Long</th></tr></thead><tbody><tr><td>ZMY_SERVICE_NAME</td><td>Some description providing a hint what this service does</td></tr></tbody></table>	Service Name	Desc. Long	ZMY_SERVICE_NAME	Some description providing a hint what this service does
Service Name	Desc. Long					
ZMY_SERVICE_NAME	Some description providing a hint what this service does					
15	As result the filter is adjusted.					

Step	Explanation	Screenshot
16	Navigate to <i>Implementing Class</i> .	
17	Double-click BAdI method <code>IF_USMD_SSW_SYS_METHOD_CALLER~CALL_SYSTEM_METHOD</code> .	
18	Go to edit mode.	
19	Change the example implementation according to your needs. At least change the CASE-WHEN statement to match the service name defined in IMG activity <i>Define Service Names for Rule-Based Workflow</i> (see 3.2), here: <code>ZMY_SERVICE_NAME</code> .	

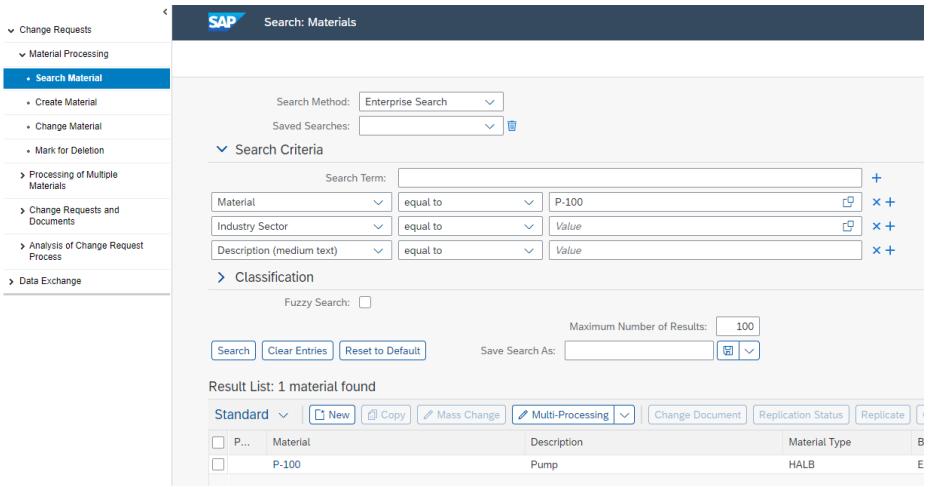
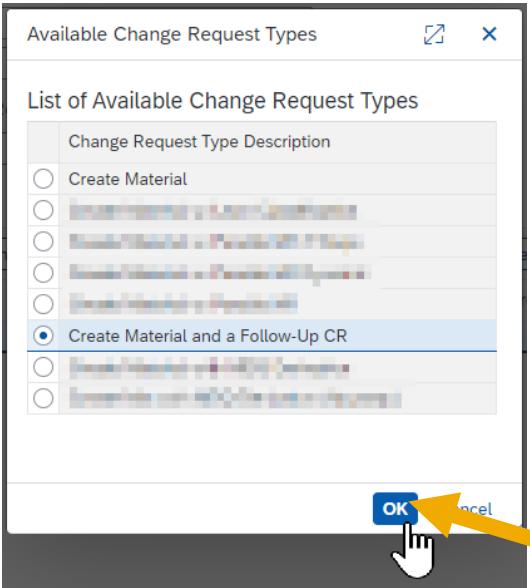
Step	Explanation	Screenshot
20	Activate the method. In case other objects are still to be adjusted, select them too for activation.	 <p>The screenshot shows the SAP Class Builder interface for the class ZCL_MY_SERVICE_CALL_SYS_METHODO. The toolbar at the top has several icons, with a yellow arrow pointing to the 'Activate' icon (a green checkmark). The code editor below contains a method implementation for IF_USMD_SSW_SYST_METHOD_Caller-Call_System_Method.</p> <pre> 1 METHOD if_usmd_ssw_syst_method_caller-call_system_method. 2 * Create a follow-up change request with reference to an existing, activated change request 3 * Copies the object list and most of the CR data 4 CONSTANTS: 5 cr_type TYPE usmd_crequest_type VALUE 'MAT02'. "Change Request type for the new change request (material change) 6 DATA: 7 lt_message TYPE usmd_t_message, 8 lo_crequest_api TYPE REF TO if_usmd_crequest_api, 9 lt_attribute TYPE usmd_ts_fieldname, 10 lt_attribute TYPE usmd_fieldname. 11 * Clear preceding parameter 12 CLEAR ev_action. 13 CLEAR et_message. 14 CASE lv_service_name. 15 WHEN ?MY_SERVICE_NAME. 16 * Get instance of CR API 17 CALL FUNCTION 'ZCL_USMD_CREQUEST_API->GET_INSTANCE' 18 IMPORTING 19 at_message = lf_message </pre>
21	The enhancement, the BAdI implementation as well as the BAdI class have not been activated so far. In pop-up <i>Inactive Objects for ...</i> select these.	 <p>The screenshot shows the 'Inactive Objects for...' dialog. It lists various objects under the 'Local Objects' tab, including ENHO, CINC, CINC, CINC, CPR1, CPRO, CPUB, and METH. Each object has a checkbox next to it. A yellow arrow points to the checkbox for the first CINC entry. The 'User' column shows small grayscale profile icons.</p>
22	To activate the selected object press <i>Continue</i> .	 <p>The screenshot shows the same 'Inactive Objects for...' dialog as the previous step, but now all checkboxes are checked. A yellow arrow points to the 'Continue' button at the bottom right of the dialog.</p>

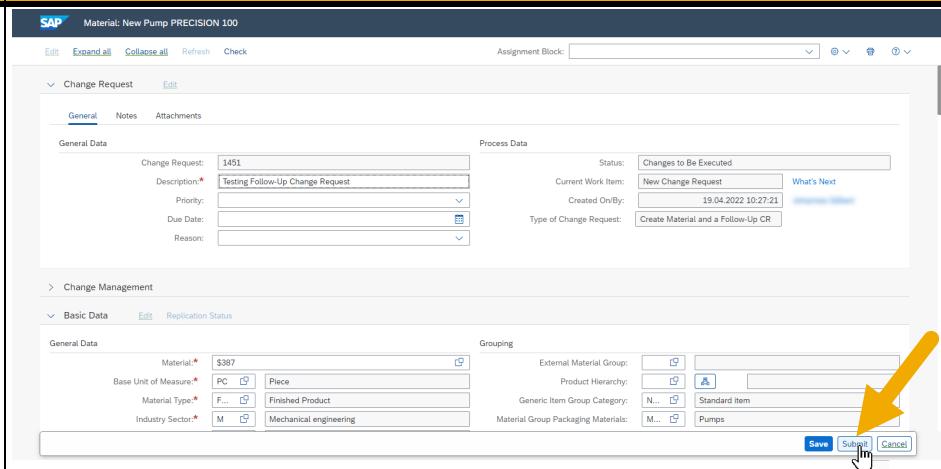
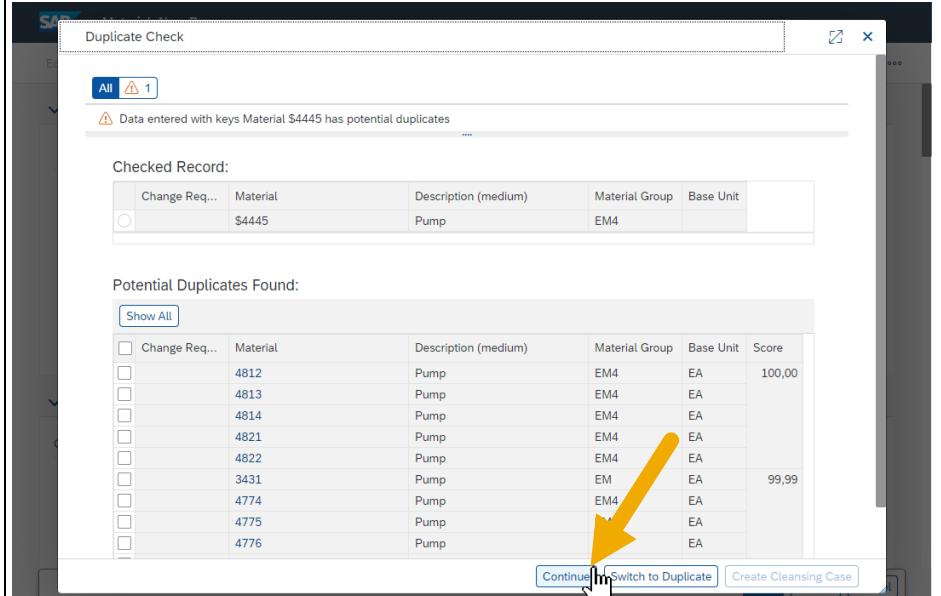
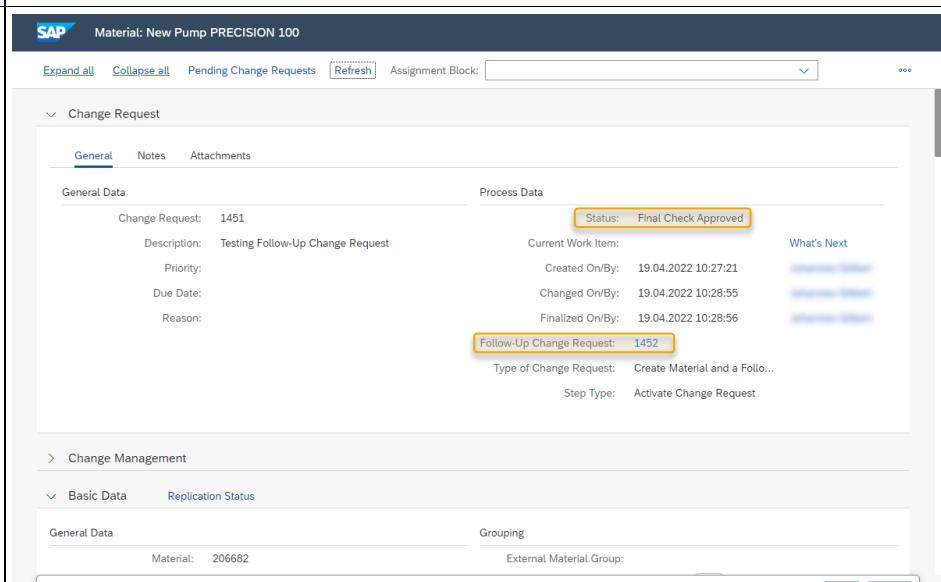
Step	Explanation	Screenshot
23	Navigate back to the enhancement implementation.	
24	Navigate back to enhancement spot USMD_SSW_SERVICE_PROCESSOR.	
25	Check the activation status (column Active) for your enhancement implementation. It should be Active or <i>Implementation is called</i> .	

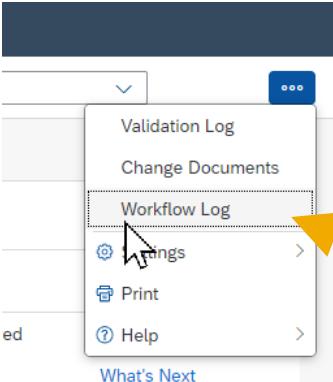
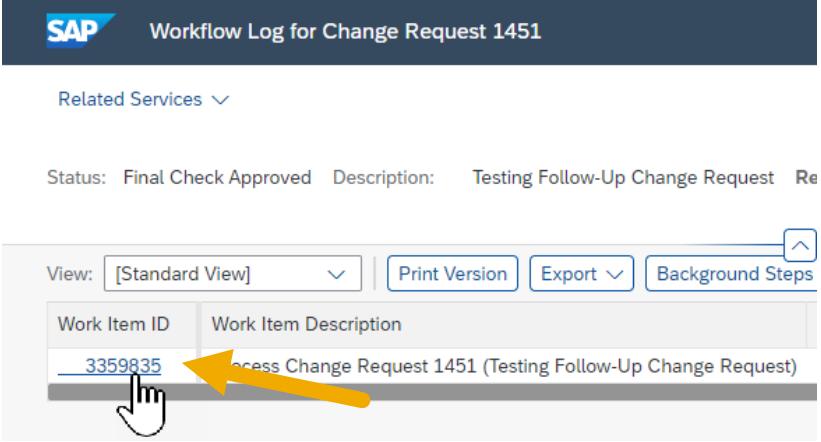
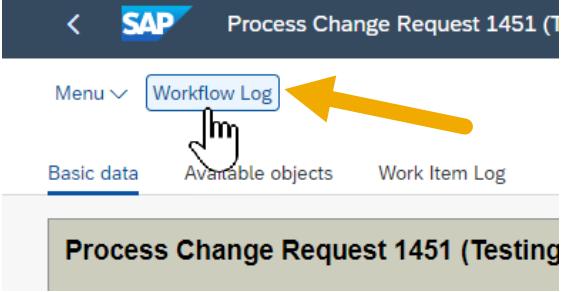
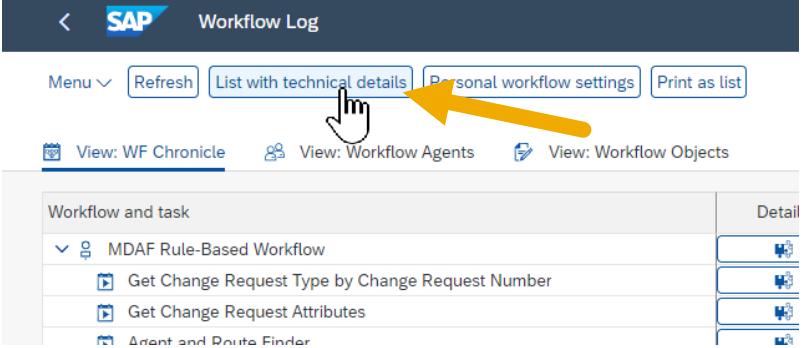
Step	Explanation	Screenshot
26	You might need press <i>Refresh</i> to get the current status.	 <p>The screenshot shows the SAP Fiori interface for managing enhancement spots. The title bar says "Enhancement Spot USMD_SSW_SERVICE_PROCESSOR Display". The "Implementations" tab is selected. The table lists six implementations found, including "ZMY_SERVICE_CALL_SYSTEM_METHOD ZMY_SERVICE_CALL_SYSTEM_METHOD LOCAL". A yellow arrow points to the refresh icon in the top right corner of the table header.</p>
27	After refreshing the status should be <i>Active</i> or rather <i>Implementation is called</i> .	 <p>The screenshot shows the same SAP Fiori interface after refreshing. The status of the implementation row has changed from "Active" to "Implementation is called". A yellow arrow points to this status change.</p>

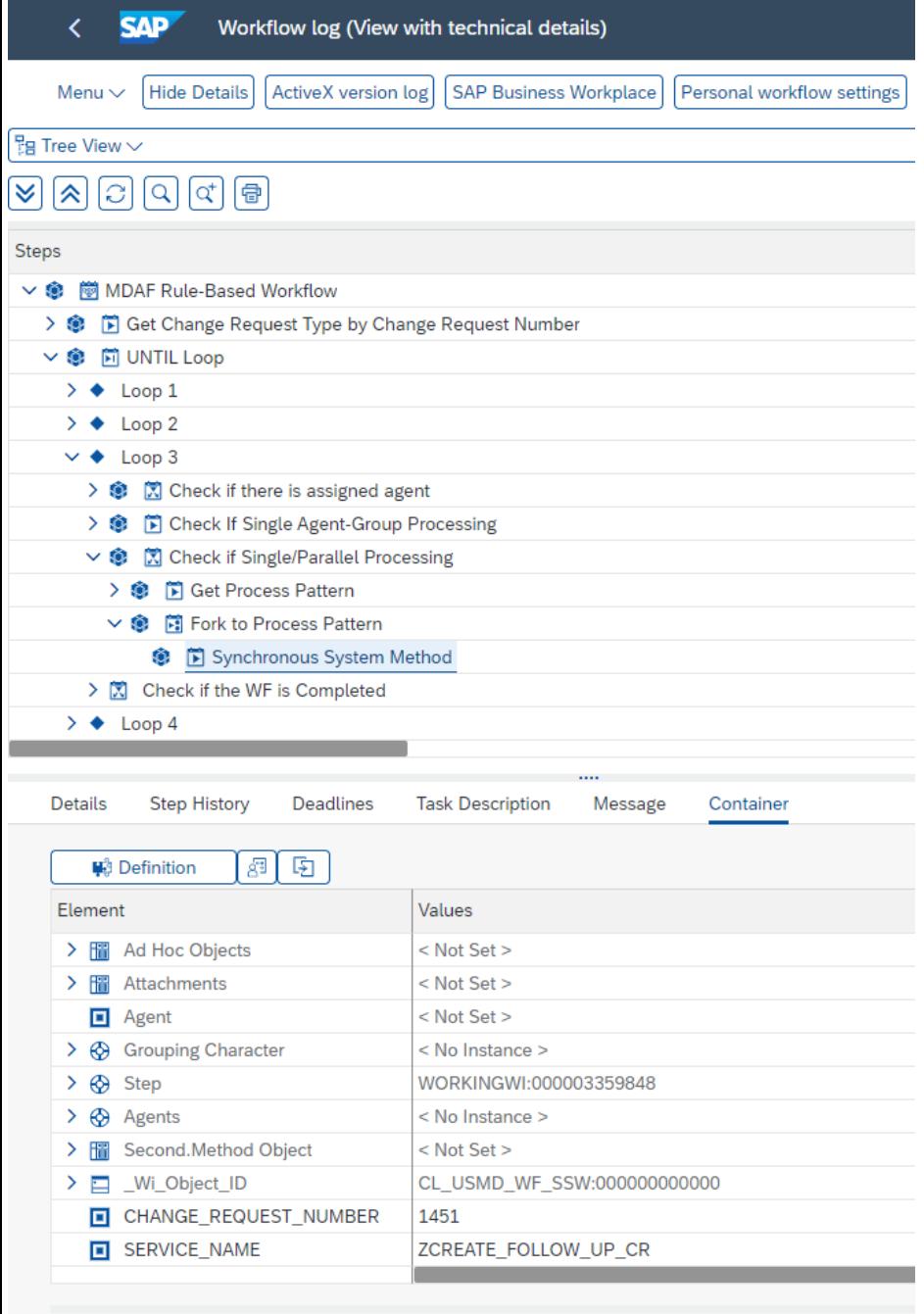
3.5. Try-out

In this chapter the whole new configuration is tested. A new material is created via the newly created and configured change request type ZMAT01AM and an E-mail notification is sent. To reduce the input-effort an existing material is copied.

Step	Explanation	Screenshot
1	Open MDGUI for Material Governance. Navigate to <i>Change Requests > Material Processing > Search Material</i> . Search for some appropriate material (here P-100).	
2	Select the material and press <i>Copy</i> .	
3	In pop-up <i>Available Change Request Types</i> select the newly create one and press OK.	

Step	Explanation	Screenshot
4	Add an appropriate description and <i>Submit</i> the change request.	
5	In case the duplicate check pops up press <i>Continue</i> to go ahead with the current, new material.	
6	<p>Get your change request processed till status <i>Final Check Approved</i>.</p> <p>The number of the <i>Follow-Up Change Request</i> is shown in the current change request.</p>	

Step	Explanation	Screenshot
7	Press <i>Workflow Log</i> .	 A screenshot of the SAP Fiori menu. A mouse cursor is hovering over the 'Workflow Log' option in the list. A yellow arrow points from the right towards the 'Workflow Log' item.
8	In the new window <i>Workflow Log for Change Request nnn</i> press the <i>Work Item ID</i> .	 A screenshot of the 'Workflow Log for Change Request 1451' window. The 'Work Item ID' column shows '3359835'. A yellow arrow points from the right towards the '3359835' value, and a hand cursor icon is placed over it.
9	In the new window <i>Process Change Request nnn</i> press <i>Workflow Log</i> .	 A screenshot of the 'Process Change Request 1451 (Testing)' window. The 'Workflow Log' button in the top navigation bar is highlighted with a yellow arrow and a hand cursor icon.
10	Press <i>List with technical details</i> .	 A screenshot of the 'Workflow Log' window. The 'List with technical details' button in the top navigation bar is highlighted with a yellow arrow and a hand cursor icon.

Step	Explanation	Screenshot																						
11	A list is displayed showing in detail information on each step/ task of the workflow including the execution of the synchronous system method (BAPI).	 <p>The screenshot shows the SAP Workflow log interface. At the top, there's a header bar with the SAP logo and navigation links like 'Menu', 'Hide Details', 'ActiveX version log', 'SAP Business Workplace', and 'Personal workflow settings'. Below the header is a toolbar with icons for 'Tree View', 'Search', and other functions. The main area is titled 'Steps' and displays a hierarchical list of workflow steps. One step, 'Synchronous System Method', is highlighted with a blue border. At the bottom of the screenshot, there's a table titled 'Container' with columns for 'Element' and 'Values'.</p> <table border="1"> <thead> <tr> <th>Element</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>> Ad Hoc Objects</td> <td>< Not Set ></td> </tr> <tr> <td>> Attachments</td> <td>< Not Set ></td> </tr> <tr> <td>Agent</td> <td>< Not Set ></td> </tr> <tr> <td>> Grouping Character</td> <td>< No Instance ></td> </tr> <tr> <td>> Step</td> <td>WORKINGWI:000003359848</td> </tr> <tr> <td>> Agents</td> <td>< No Instance ></td> </tr> <tr> <td>> Second.Method Object</td> <td>< Not Set ></td> </tr> <tr> <td>> _Wi_Object_ID</td> <td>CL_USMD_WF_SSW:000000000000</td> </tr> <tr> <td>CHANGE_REQUEST_NUMBER</td> <td>1451</td> </tr> <tr> <td>SERVICE_NAME</td> <td>ZCREATE_FOLLOW_UP_CR</td> </tr> </tbody> </table>	Element	Values	> Ad Hoc Objects	< Not Set >	> Attachments	< Not Set >	Agent	< Not Set >	> Grouping Character	< No Instance >	> Step	WORKINGWI:000003359848	> Agents	< No Instance >	> Second.Method Object	< Not Set >	> _Wi_Object_ID	CL_USMD_WF_SSW:000000000000	CHANGE_REQUEST_NUMBER	1451	SERVICE_NAME	ZCREATE_FOLLOW_UP_CR
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> _Wi_Object_ID	CL_USMD_WF_SSW:000000000000																							
CHANGE_REQUEST_NUMBER	1451																							
SERVICE_NAME	ZCREATE_FOLLOW_UP_CR																							

4. ADDITIONAL INFORMATION

- Business Add-Ins (BAdIs), SAP S/4HANA:
<https://help.sap.com/viewer/46a2fcf13d25463b8b9a3d2a3c3ba0d9/1709.latest/en-US/8ff2e540f8648431e10000000a1550b0.html>
- SAP Business Workflow Tutorials, SAP S/4HANA:
<https://help.sap.com/viewer/4400bdc8dd4648a5a2e5c1c8e05198d7/1610%20003/en-US/4f2ea01cf0cb18c3e10000000a421937.html>

4.1. Further Reading

4.1.1. Information on SAP MDG on SAP S/4HANA

- Exchange knowledge: [SAP Community](#) | [Q&A](#) | [Blog](#)
- Try SAP Master Data Governance on S/4HANA for free: [Trial Version](#)
- Try SAP Master Data Governance on S/4HANA on the SAP Cloud Appliance Library: [S/4HANA 2022 FPS1](#)
- Learn more: [Latest Release](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

4.1.2. SAP Roadmap Explorer

- Please see the [roadmap for SAP Master Data Governance](#)

4.1.3. Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | [FPM Blog](#) | [How-to Information](#) | [Service Mapping Tool](#) | [SAP S/4HANA Cookbook CVI](#)

4.2. SAP Notes

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

Note	Description
3372801	Upgrade or Conversion for Master Data Governance, Central Governance
2221398	MDG-BP/C/S/CA: (Un-)Supported Fields in Data Model BP
2847807	MDG-BP/C/S/CA: Usage of MDG Tools and Processes
2313368	Functional restrictions in MDG for Business Partner / Customer / Supplier with SAP Master Data Governance 9.0
2472845	Functional restrictions in MDG for Business Partner / Customer / Supplier with SAP Master Data Governance 9.1
2656712	Functional restrictions in MDG for Business Partner / Customer / Supplier in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809
2816557	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 1909
2925030	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2020
3070003	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2021
3220117	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2022

3374711	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2023
3043582	MDG Customer Connection 2020
3194967	MDG Customer Connection 2021 for S/4HANA 2022
3311039	MDG Customer Connection 2023
3428179	Master Data Governance: Continuous Influence
3134600	MDG-M: Supported fields in Data Model MM
1806108	Functional restrictions in MDG-M in MDG7 (incl. SP02)
2129261	Functional restrictions in MDG-M in MDG8
2284745	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.0
2461516	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.1
2656693	Functional Restrictions in MDG for Material in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809
2816571	Functional Restrictions in MDG for Material on SAP S/4HANA 1909
2948873	Functional Restrictions in MDG for Material on SAP S/4HANA 2020
3070012	Functional Restrictions in MDG for Material on SAP S/4HANA 2021
3219945	Functional Restrictions in MDG for Material on SAP S/4HANA 2022
3374998	Functional Restrictions in MDG for Material on SAP S/4HANA 2023
2950412	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2020
3066855	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2021
3225098	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2022
3381795	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2023
2479869	Usage of Lean Classification with SAP Master Data Governance
1619534	How to Create, Enhance and Adapt FPM Applications
1637249	MDG: Information for efficient message processing
2105467	MDG Performance
2561461	Scope of support for SAP Master Data Governance (MDG)
1637249	MDG: Information for efficient message processing

