



PUBLIC

How-To Set Up Central Governance to Use Data Quality Management Derivation Scenarios

Applicable Releases:
MDG on S/4HANA 2022 and higher

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Document History

Document Version	Description
1.0	First version (November 2022)
1.1	Add chapter on debugging the derivation for a change request (January 2023)
1.2	Add details on restriction of logical actions, add SAP note (March 2024)

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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.

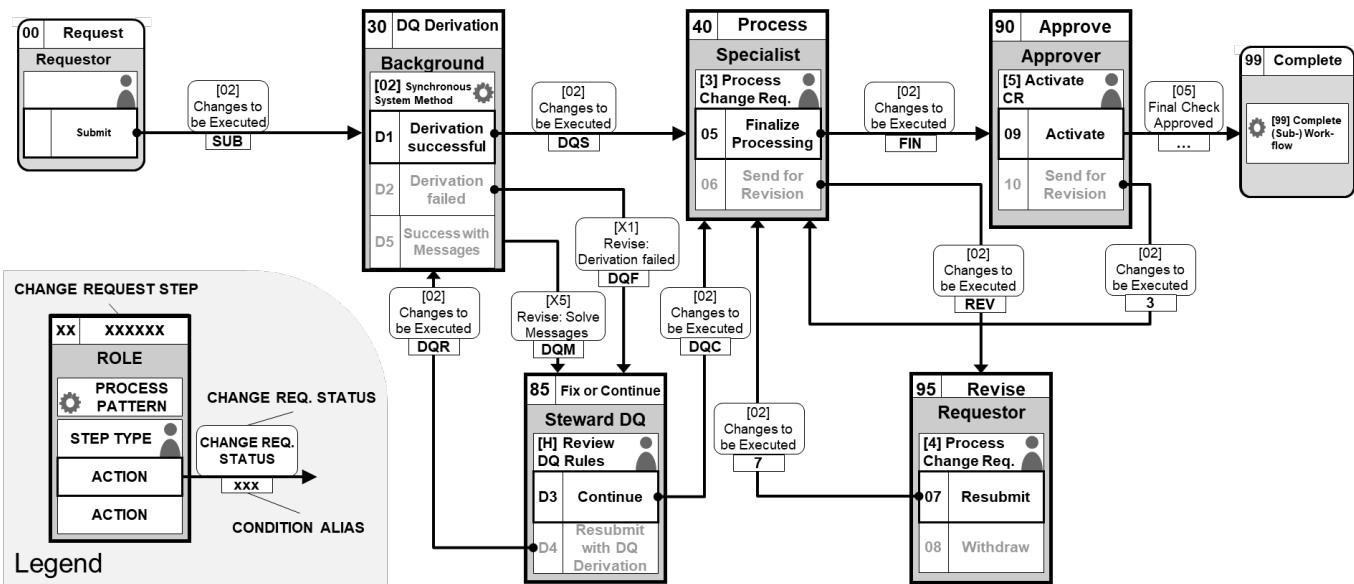
The processes are workflow-driven and can include several approval and revision phases, and the collaboration of all users participating in the master data maintenance.

Derivation scenarios are used to deduce master data in MDG, central governance as well as consolidation and mass processing. This document guides through setting up central governance to use DQM derivation scenarios. In addition, it contains tips and tricks for implementing more complex derivation scenarios.

For more information about defining derivation scenarios, see https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/6d52de87aa0d4fb6a90924720a5b0549/7b586ec9ab7f4d9ba5c240ddac4f3a92.html?q=Derivation%20Scenario&locale=en-US

2. EXAMPLE PROCESS

The following example process will be set up in this guide using a rule-based workflow.



In change request step 00 the requestor creates a new supplier and submits the change request (CR). Hence, the process gets to CR step 30 (DQ Derivation). This is a background step. Via process pattern 02 (Synchronous System Method) a BAId is called which uses API CL_MDG_MDQ_RBWF_DERIVE to trigger the DQ derivation¹.

This API has three potential results: Derivation successful, derivation successful but with messages and derivation failed. For a successful derivation the process goes to CR step 40 where a master data specialist can finalize the processing or send the CR for revision. When finalizing processing the process reaches CR step 90. The approver can either activate the CR and send it to the previous CR step for revision. This is the golden path. The alternative paths are as follows:

- Derivation failed, derive again

In CR step 30 API CL_MDG_MDQ_RBWF_DERIVE indicates the derivation failed. In this case the process goes to CR step 85 (Fix or Continue), where a master data steward can review the CR as well as any issues logged in the

¹ See [MDG Data Quality Management Derivation Scenarios](#)

backend. The steward might even find that some derivation scenario might need to be adjusted or corrected. In this case the steward can resubmit to go to CR step 30 again and get the DQ derivation triggered again for this CR.

- Derivation failed, continue
As an alternative for a failed derivation, the master data steward could just continue without having the DQ derivations triggered again. The process goes to CR step 40 in this case.
- Derivation successful but with messages
The example process is set up to not distinguish between a failed derivation and a successful one but where messages occur. Both go to CR step 85. However, since different actions (D2 for a failed derivation, D5 for a successful derivation but with messages) are used, there is the possibility to
 - go to different CR steps for a failed derivation and a successful derivation where messages occur (e.g. a CR step 86) or
 - handle a successful derivation where messages occur the same way like a successful derivation (without messages) and hence go to CR step 40.

Later in the process there are (the already known) alternative paths for revision. From CR step 40 to process goes to CR step 95 (Revise) in case the master data specialist chooses to send the CR for revision. The requestor needs to change and resubmit the CR or can withdraw it. A similar revision-loop is there for CR steps 40 and 90.

Note: SAP recommends to have a dialog step after the background step in which the derivation takes place. For the example scenario above this means that configuring a transition from CR step 30 directly to 99 is not recommended.

3. RESTRICTIONS

3.1. Supported Logical Actions, Single Object Maintenance

A change request type is assigned to a business activity. The business activity is a combination of a data model, an object type code and a logical action. The functionality only supports the logical actions BLOCK (un-block an object), CREATE, CHANGE, and DELETE (un-mark an object for deletion). Other logical actions are not supported. This restricts the functionality to the single object maintenance related change request types.

Details on unsupported logical actions:

- **MASS** (Pass Processing), **LOAD** (Data Exchange): Both logical actions typically are related to a process (→ CR type) where huge numbers of master data objects are processed. Using DQM derivation scenarios in such processes in MDG Central Governance will result in performance issues and potentially timeouts. If you would like to process many master data objects and apply DQM derivation scenarios you should use MDG Consolidation and/or MDG Mass Processing.
- Processes in Central Governance which relate to logical action **MASS** typically only change entity types of storage and usage type 1. This conflicts the scope of DQM derivation scenarios where entity types of other storage and usage types can be changed too.
- In MDG Central Governance there is no status which indicates result of the DQM derivations per master data object. The derivation status is only available per change request and in the BAdI implementation of the background step. For a change request with a huge number of master data objects (→ common for change request types that relate to logical action **MASS**) the behavior for the DQM derivations would be as follows: In case there is a single error no derived values must be stored for any master data object (→ reproducibility). Hence, the more master data objects are contained in a change request the more likely is a failure during derivation and hence that no values are derived at all.

3.2. Business Partner, Customer, Supplier

The functionality supports only main entity type BP_HEADER and its dependent entity types.

It is impossible to create new addresses and/or business partner relationships since entity type ADDRNO and BP_REL/TD_BPREL are not supported. Existing relationships cannot be changed (a change of existing address data is possible).

All entity types related to texts (e.g., sales area texts, supplier general data texts) are not supported.

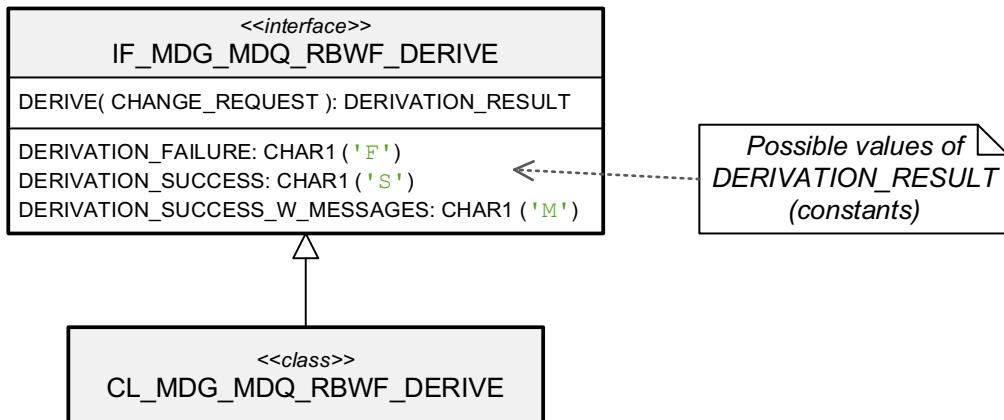
Documents and document links are not supported.

Regarding multiple assignments, it is only possible to use the standard assignments for customers and/or suppliers. Additional, non-standard assignments as well as custom assignments are not supported.

4. STEP BY STEP EXPLANATION

4.1. New Actions and Step Type

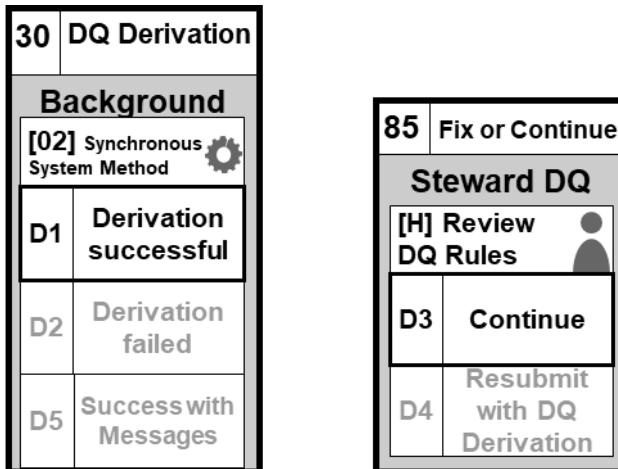
This chapter describes the creation of new actions and a new step type. The actions are used to control the rule-based workflow. API method DERIVE of API CL_MDG_MDQ_RBWF_DERIVE indicates a derivations result.



There are the following possibilities:

- Failed Derivation ('`F`')
- Successful Derivation ('`S`')
- Successful Derivation, but with Messages ('`M`')

It is up to the customer to decide how to integrate derivation scenarios into the rule-based workflow for a certain change request type. A maximal configuration for these results requires three actions (one for each derivation result) plus actions for the UI (here *Continue* and *Resubmit* in case the derivation was not successful or messages occurred).

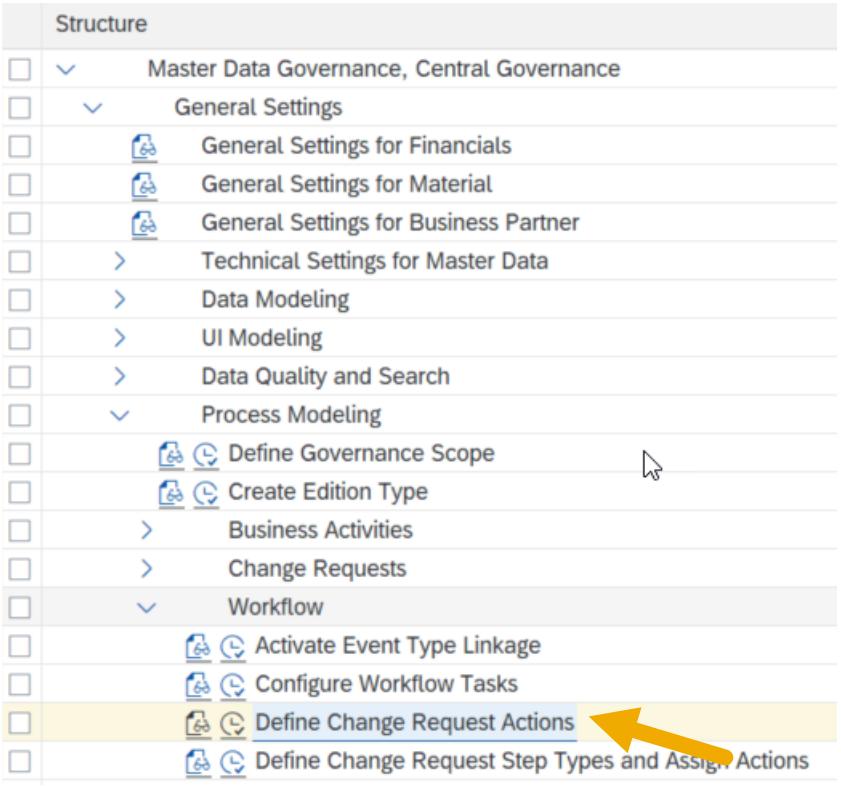
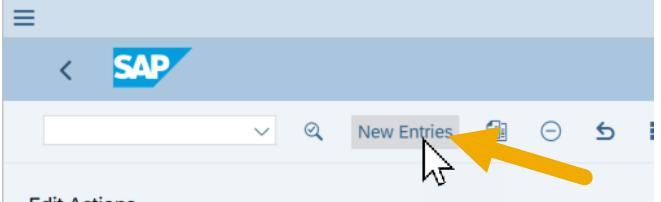
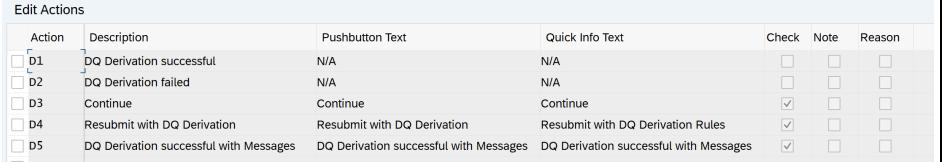


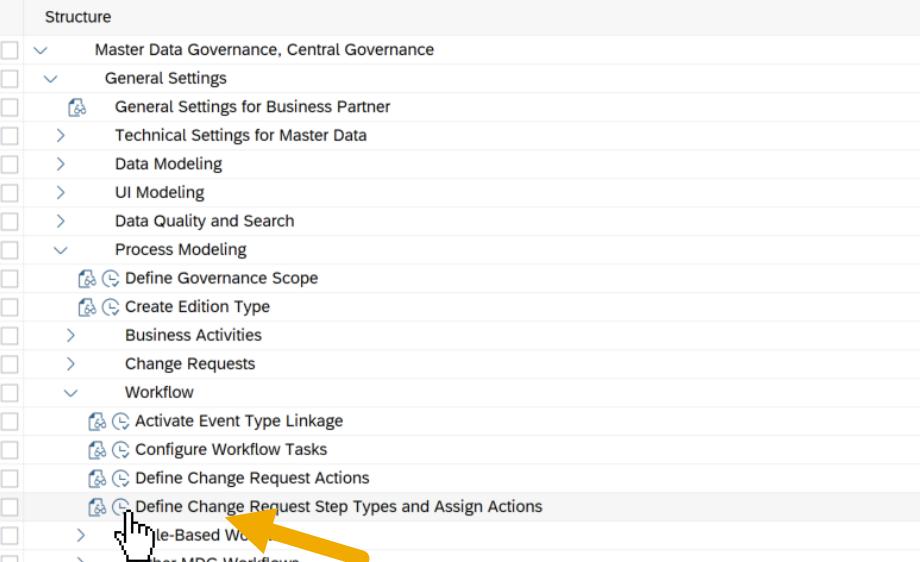
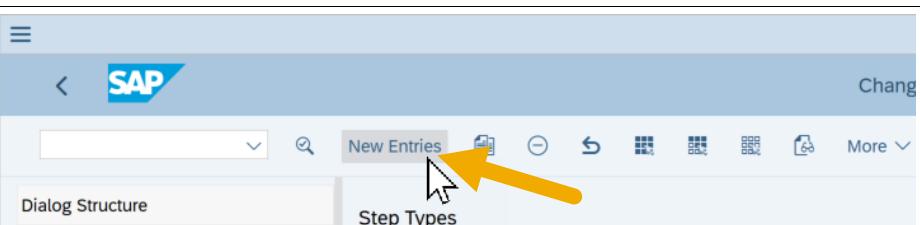
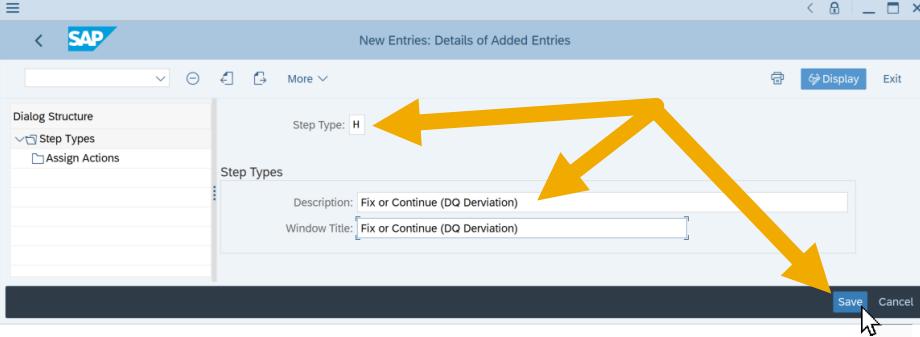
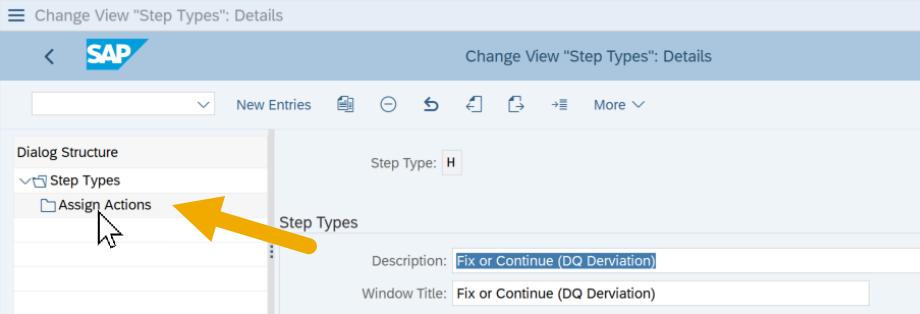
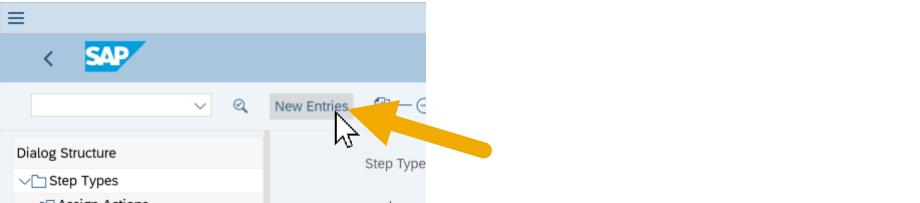
In this guide the following actions are used:

- D1 (*Derivation successful*) for Successful Derivation ('`S`')
- D2 (*Derivation failed*) for Failed Derivation ('`F`')
- D3 (*Continue*) to continue to change request step 40
- D4 (*Resubmit with DQ Derivation*) to go again to change request step 30 (and again execute derivations)
- D5 (*Success with Messages*) for Successful Derivation, but with Messages ('`M`')

The actions D1, D2, D5 are used for change request step 30 (background step) and in the BAdI implementation. Actions D3 and D4 are used in the MDG UI for the change request step 85. The process will reach step 85 in case of a failed derivation or in case of a successful derivation but with messages. In this step the user will see two buttons (*Continue*, *Resubmit*).

Besides these actions a new step type 'H' (*Fix or Skip DQ Derivation*) is created, which has the actions D3 and D4 assigned to it. Step type 'H' is used in user agent decision table (DT_USER_AGT_GRP_...) for the condition aliases DQM and DQF, which are used for the transitions from change request step 30 (DQ Derivation) to 85 (Fix or Continue).

Step	Explanation	Screenshot																																										
1	Start transaction MDGIMG. Navigate to General Settings > Process Modeling > Workflow > Define Change Request Actions																																											
2	Press New Entries.																																											
3	Create the actions as described on the right side:	<table border="1"> <thead> <tr> <th>Action</th> <th>Description</th> <th>Pushbutton Text</th> <th>Quick Info Text</th> <th>Check</th> <th>Note</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>D1</td> <td>DQ Derivation successful</td> <td>N/A</td> <td>N/A</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>D2</td> <td>DQ Derivation failed</td> <td>N/A</td> <td>N/A</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>D3</td> <td>Continue</td> <td>Continue</td> <td>Continue</td> <td>Yes</td> <td>-</td> <td>-</td> </tr> <tr> <td>D4</td> <td>Resubmit with DQ Derivation</td> <td>Resubmit with DQ Derivation</td> <td>Resubmit with DQ Derivation Rules</td> <td>Yes</td> <td>-</td> <td>-</td> </tr> <tr> <td>D5</td> <td>DQ Derivation successful with Messages</td> <td>DQ Derivation successful with Messages</td> <td>DQ Derivation successful with Messages</td> <td>Yes</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Action	Description	Pushbutton Text	Quick Info Text	Check	Note	Reason	D1	DQ Derivation successful	N/A	N/A	-	-	-	D2	DQ Derivation failed	N/A	N/A	-	-	-	D3	Continue	Continue	Continue	Yes	-	-	D4	Resubmit with DQ Derivation	Resubmit with DQ Derivation	Resubmit with DQ Derivation Rules	Yes	-	-	D5	DQ Derivation successful with Messages	DQ Derivation successful with Messages	DQ Derivation successful with Messages	Yes	-	-
Action	Description	Pushbutton Text	Quick Info Text	Check	Note	Reason																																						
D1	DQ Derivation successful	N/A	N/A	-	-	-																																						
D2	DQ Derivation failed	N/A	N/A	-	-	-																																						
D3	Continue	Continue	Continue	Yes	-	-																																						
D4	Resubmit with DQ Derivation	Resubmit with DQ Derivation	Resubmit with DQ Derivation Rules	Yes	-	-																																						
D5	DQ Derivation successful with Messages	DQ Derivation successful with Messages	DQ Derivation successful with Messages	Yes	-	-																																						
4	The new actions should look like this: Press Save and exit the customizing.																																											

Step	Explanation	Screenshot
5	Navigate to General Settings > Process Modeling > Workflow > Define Change Request Step Types and Assign Actions.	 A screenshot of the SAP Fiori navigation tree. The path selected is: Master Data Governance, Central Governance > General Settings > Process Modeling > Define Change Request Step Types and Assign Actions. A yellow arrow points to the last item in the list.
6	Press New Entries.	 A screenshot of the SAP Fiori interface. The 'New Entries' button in the toolbar is highlighted with a yellow arrow.
7	Enter Step Type 'H' and Description as well as Window Title 'Fix or Continue (DQ Derivation)'. Press Save.	 A screenshot of the 'New Entries: Details of Added Entries' dialog. It shows a 'Step Types' section with 'Step Type: H', 'Description: Fix or Continue (DQ Derivation)', and 'Window Title: Fix or Continue (DQ Derivation)'. A yellow arrow points to the 'Save' button at the bottom right.
8	Navigate to Assign Actions.	 A screenshot of the 'Change View "Step Types": Details' dialog. The 'Assign Actions' tab is selected in the left sidebar. A yellow arrow points to this tab.
9	Press New Entries.	 A screenshot of the SAP Fiori interface. The 'New Entries' button in the toolbar is highlighted with a yellow arrow.

Step	Explanation	Screenshot																		
10	Assign the actions as described in the table on the right. Press Save.	<table border="1"> <thead> <tr> <th>Action</th> <th>Description</th> <th>Sequence</th> </tr> </thead> <tbody> <tr> <td>D3</td> <td>Continue</td> <td>1</td> </tr> <tr> <td>D4</td> <td>Resubmit with DQ Derivation</td> <td>2</td> </tr> </tbody> </table> <p>The screenshot shows the SAP Change View "Assign Actions" dialog. The title bar says "Change View 'Assign Actions': Overview". The left sidebar shows "Dialog Structure" with "Step Types" expanded, showing "Assign Actions". The main area has "Step Type: H" selected. A table titled "Assign Actions" lists two entries:</p> <table border="1"> <thead> <tr> <th>Action</th> <th>Description</th> <th>Sequence</th> </tr> </thead> <tbody> <tr> <td>D3</td> <td>Continue</td> <td>1</td> </tr> <tr> <td>D4</td> <td>Resubmit with DQ Derivation</td> <td>2</td> </tr> </tbody> </table> <p>Buttons at the bottom include "Position...", "Save" (highlighted in blue), and "Cancel".</p>	Action	Description	Sequence	D3	Continue	1	D4	Resubmit with DQ Derivation	2	Action	Description	Sequence	D3	Continue	1	D4	Resubmit with DQ Derivation	2
Action	Description	Sequence																		
D3	Continue	1																		
D4	Resubmit with DQ Derivation	2																		
Action	Description	Sequence																		
D3	Continue	1																		
D4	Resubmit with DQ Derivation	2																		

4.2. Configuration of a new Change Request Type incl. Rule Based Workflow

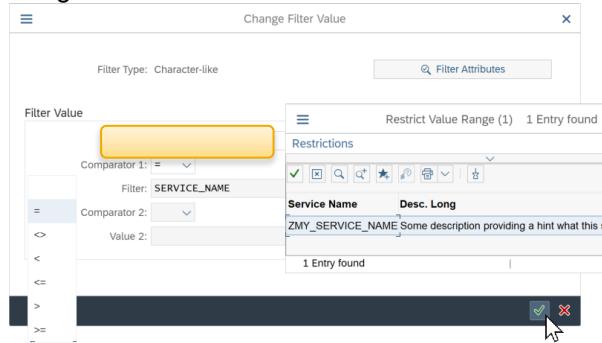
In this chapter a new CR type is configured. A rule-based workflow is used to integrate DQ derivations in a background step and handle the derivation result (derivation failed, derivation successful with/without messages). The latter is achieved by having a dedicated CR step (85) in the workflow. The following tasks are performed in this chapter:

- Define a service name in Customizing under Master Data Governance, Central Governance > General Settings Process Modelling > Workflow > Define Service Names for Rule-Based Workflow. (chapter 4.2.1)
- Create a new CR type and configure its steps (chapter 4.2.2).
- Create a BAdI implementation for BAdI *Rule-Based Workflow - Call System Method* (USMD_SSW_SYSTEM_METHOD_CALLER). The BAdI implementation uses the defined service name as a filter value. The implementation uses the API CL_MDG_MDQ_RBWF_DERIVE. Depending on the derivation result, an appropriate action is determined to control the rule-based workflow. (chapter 4.2.3)
- Configure the decision tables for the rule-based workflow for the new CR type in Customizing under Master Data Governance, Central Governance > General Settings > Process Modelling Workflow > Configuration Rule-Based Workflow. Here, a condition alias needs to be defined using process pattern 02 (Synchronous System Method) and the service name (previous step) in the non-user agent decision table. In the single value decision table this condition alias must be assigned. (chapter 4.2.4)

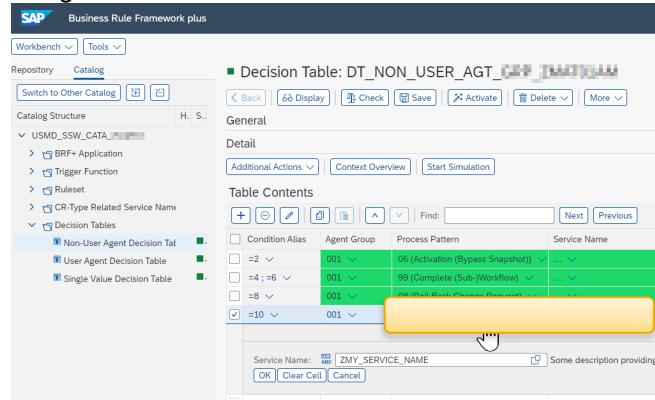
4.2.1. Create a Service Name in IMG

This chapter describes the definition of a service name for the rule-based workflow. It serves as a Business Add-In (BAdI) 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 BAdI filter:



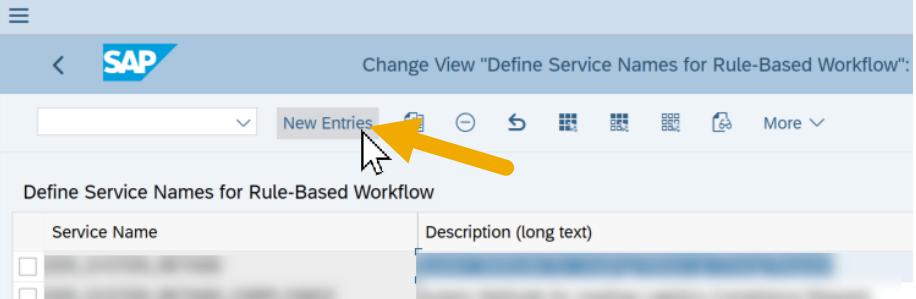
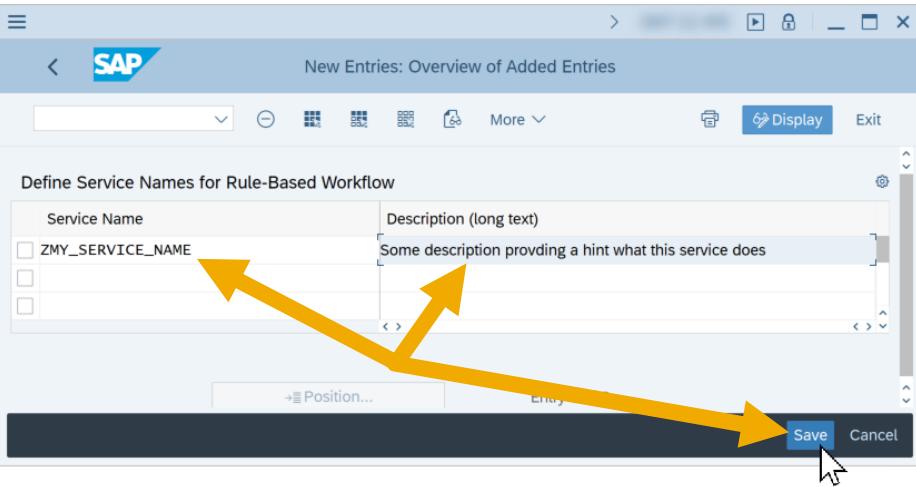
Usage of the service name in a rule-based workflow:



In the following steps, **generic names and descriptions are used in the screenshots**. For this guide you need to replace them as follows:

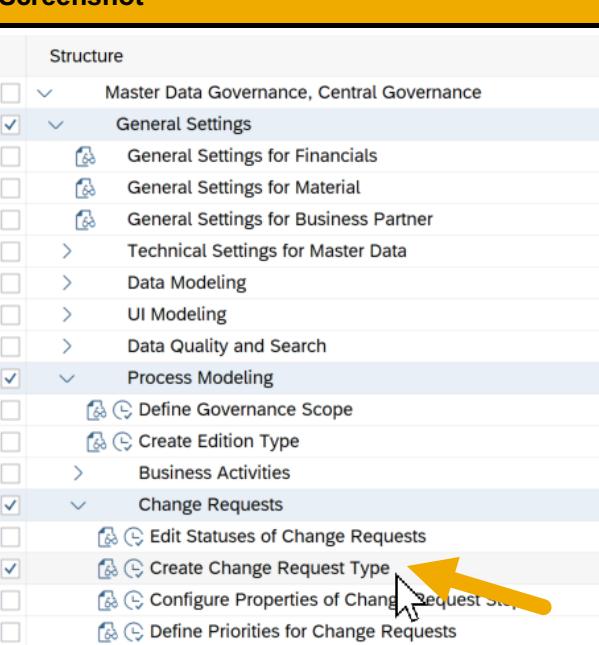
Object	Name / Description	To be replaced by:
Service Name	ZMY_SERVICE_NAME	ZMDQ_DERIVATION
Service Description	Some description providing a hint as to what this service does	System Method Call for MDQ Derivation

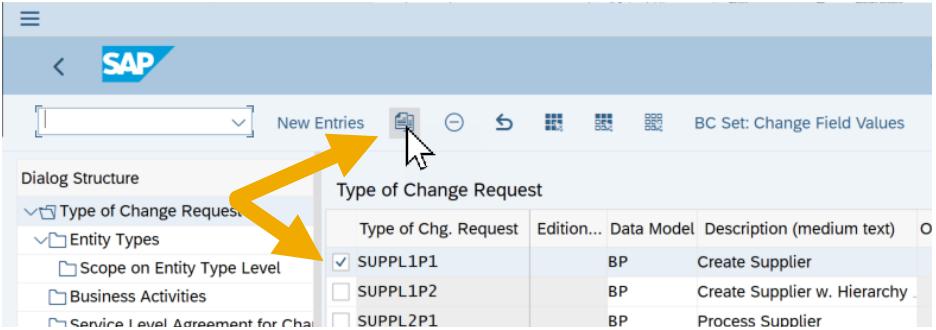
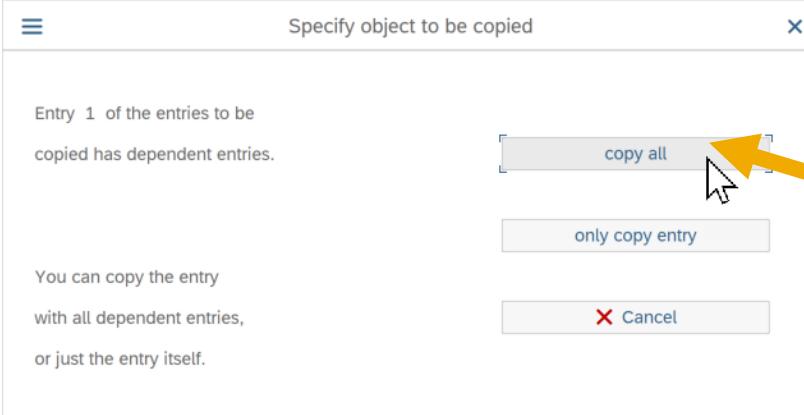
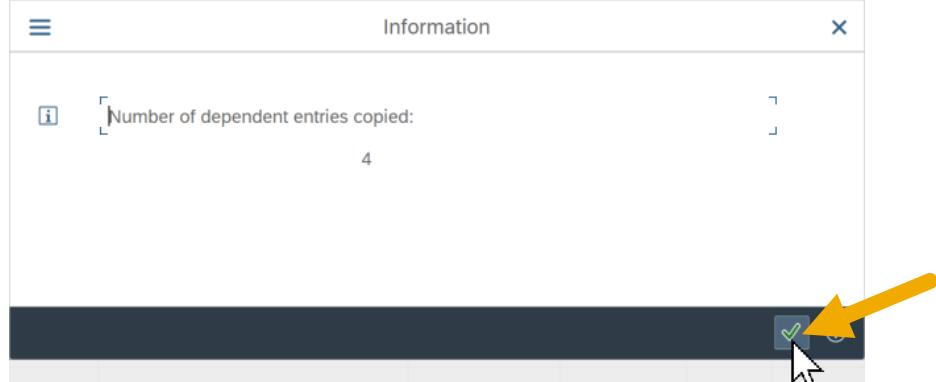
Step	Explanation	Screenshot
1	Start transaction MDGIMG. Navigate to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow > Define Service Names for Rule-Based Workflow.	<p>The screenshot shows the SAP General Settings navigation tree. The path 'Process Modeling > Workflow > Rule-Based Workflow' is highlighted. An orange arrow points to the 'Define Service Names for Rule-Based Workflow' option under the 'Rule-Based Workflow' node.</p>

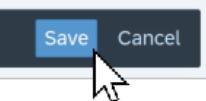
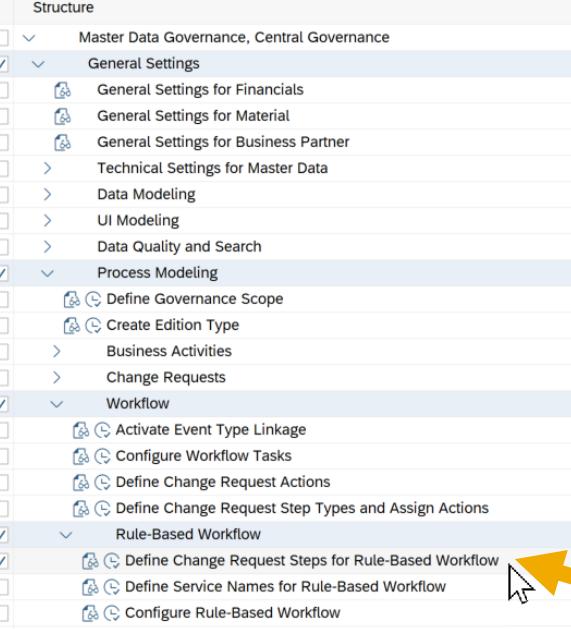
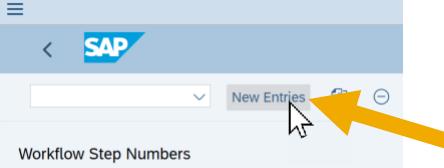
Step	Explanation	Screenshot
2	Choose New Entries.	
3	<p>Create a new entry with the following data:</p> <ul style="list-style-type: none"> A meaningful name for <i>Service Name</i>, here: ZMDQ_DERIVATION A <i>Description</i> providing a hint as to what this service does: System Method Call for MDQ Derivation <p>Choose Save. Note: You might need to choose a transport request to record your changes.</p>	

4.2.2. Create a New CR Type and Configure CR Steps

In this chapter a new change request type is created and configured. To omit starting from scratch, the SAP-delivered change request type SUPPL1P1 (Create Supplier) is copied to ZSUP1MDQ (Create Supplier w/ MDQ Derivation) and adjusted.

Step	Explanation	Screenshot
1	<p>Start transaction MDGIMG. Navigate to General Settings > Process Modeling > Change Requests > Create Change Request Type.</p>	

Step	Explanation	Screenshot
2	Select change request type SUPPL1P1 and choose Copy As.	
3	Enter the following values: <ul style="list-style-type: none">Type of Change Request: ZSUP1MDQDescription: Create Supplier w/ MDQ DerivationWorkflow: WS60800086 (Note that the used workflow needs to be changed.)	
4	Choose Copy.	
5	In pop-up <i>Specify object to be copied</i> choose copy all.	
6	Acknowledge the information on <i>Number of dependent entries copied</i> by choosing Continue.	

Step	Explanation	Screenshot
7	Navigate to <i>Type of Change Request</i> .	 <p>Dialog Structure</p> <ul style="list-style-type: none"> ✓ Type of Change Request  ✓ Entity Types <ul style="list-style-type: none"> Scope on Entity Type Level Business Activities Service Level Agreement for Cha
8	Choose Save.	
9	Go back to MDGIMG. Navigate to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Define Change Request Steps for Rule-Based Workflow.	 <p>Structure</p> <ul style="list-style-type: none"> Master Data Governance, Central Governance ✓ General Settings <ul style="list-style-type: none"> General Settings for Financials General Settings for Material General Settings for Business Partner Technical Settings for Master Data Data Modeling UI Modeling Data Quality and Search ✓ Process Modeling <ul style="list-style-type: none"> Define Governance Scope Create Edition Type Business Activities Change Requests Workflow <ul style="list-style-type: none"> Activate Event Type Linkage Configure Workflow Tasks Define Change Request Actions Define Change Request Step Types and Assign Actions Rule-Based Workflow <ul style="list-style-type: none"> Define Change Request Steps for Rule-Based Workflow  Define Service Names for Rule-Based Workflow Configure Rule-Based Workflow
10	Press New Entries.	

Step	Explanation	Screenshot
11	<p>Enter ten entries with the name of the change request type to ZSUP1MDQ:</p> <ul style="list-style-type: none"> • CR Step: 0 Dscr: Processing Next Step: 30 • CR Step: 30 Dscr: DQ Derivation (Backgr.) Next Step: 40 • CR Step: 40 Dscr: Processing Next Step: 90 • CR Step: 85 Dscr: Fix or Skip Next Step: 30 • CR Step: 90 Dscr: Final Check Validation: yes Next Step: - • CR Step: 91 Dscr: Activation Next Step: - • CR Step: 92 Dscr: Revision Next Step: - • CR Step: 93 Dscr: Validation Next Step: - • CR Step: 95 Dscr: Revision Processing Next Step: 40 • CR Step: 99 Dscr: Complete Next Step: - <p>Choose Save.</p>	

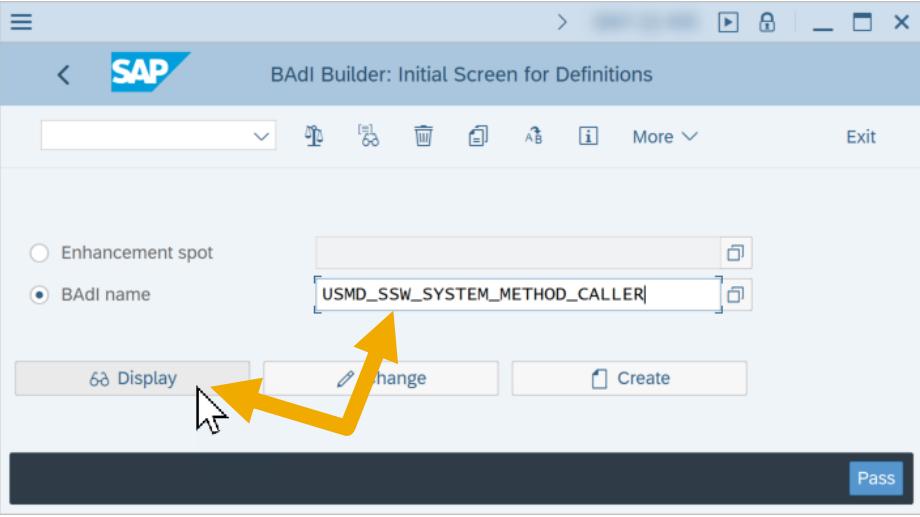
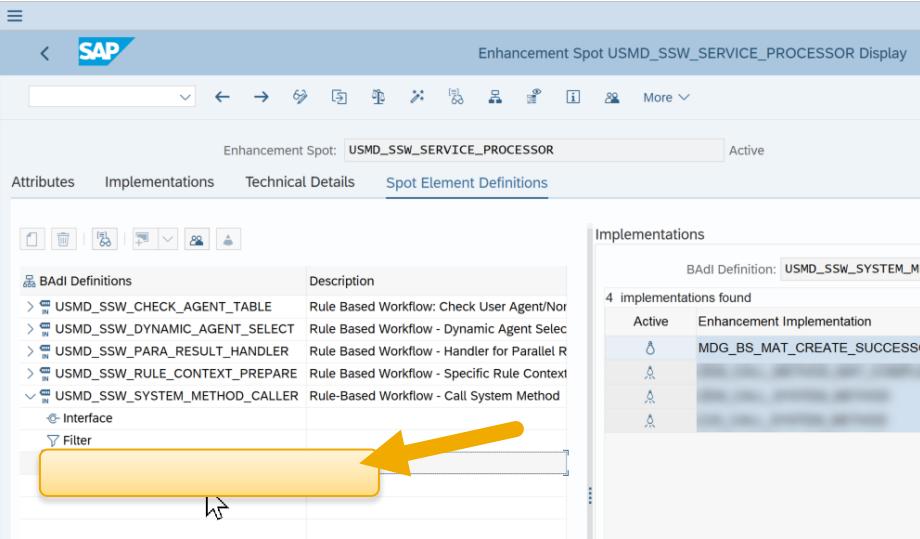
4.2.3. BAdI Implementation for BAdI USMD_SSW_SYSTEM_METHOD_CALLER

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. For more information, see the BAdI documentation. The service name is defined in the previous chapter (4.2.1 serves as BAdI filter). The actual implementation of the BAdI method depends on the use case.

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

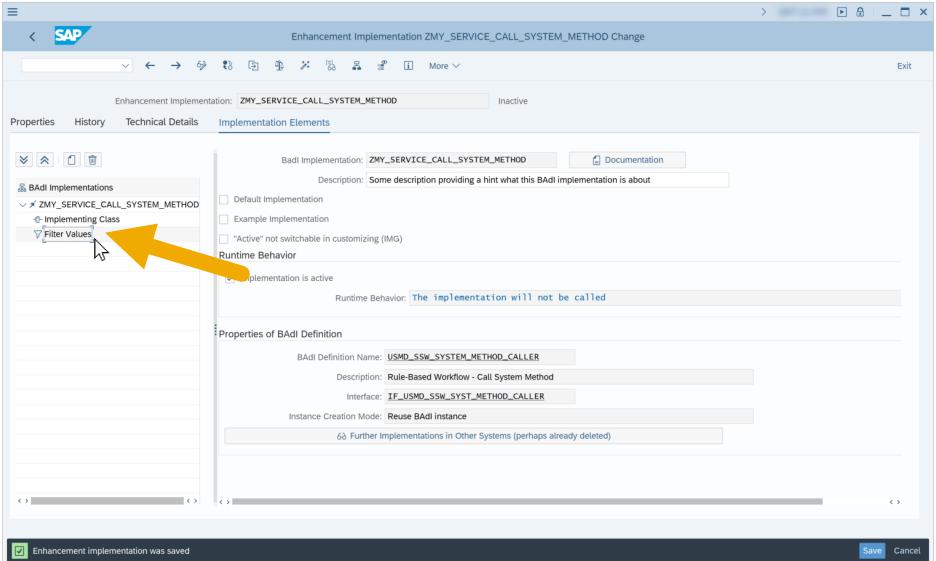
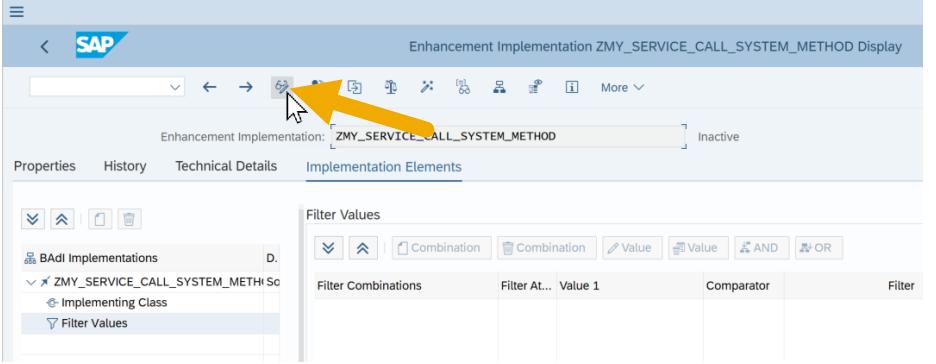
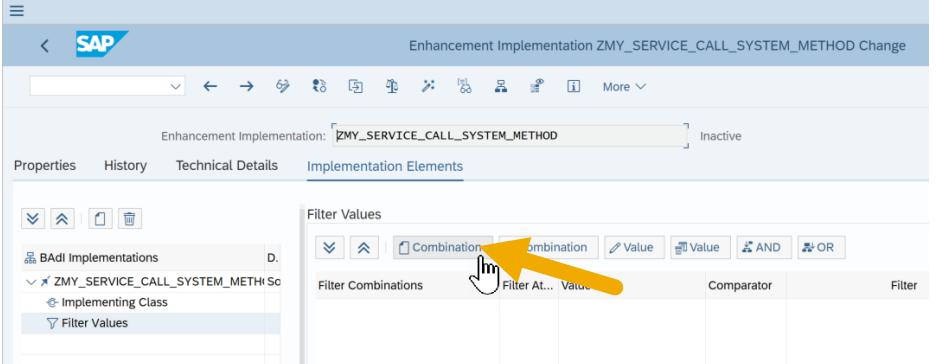
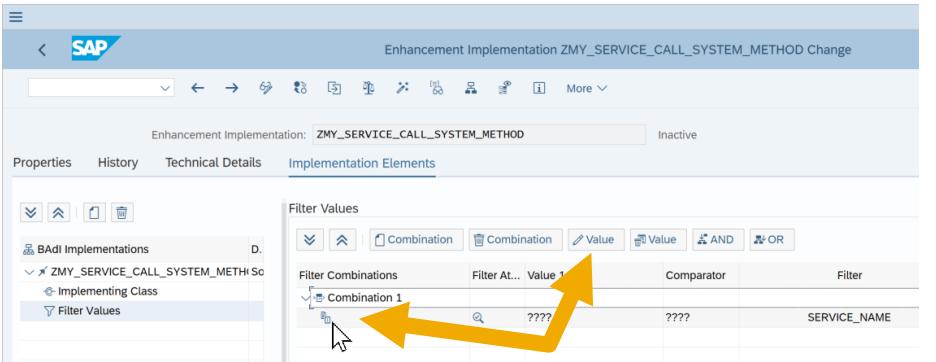
Object	Name / Description	To be replaced by:
Enhancement Implementation	ZMY_SERVICE_CALL_SYSTEM_METHOD	ZBDI_MDQ_DERIVATION
Enhancement Implementation Short Text	Some description providing a hint as to what this enhancement is about	System Method Call for MDQ Derivation

Object	Name / Description	To be replaced by:
BAdI Implementation	ZMY_SERVICE_CALL_SYSTEM_METHOD	ZBDI_MDQ_DERIVATION
BAdI Implementation Description	Some description providing a hint as to what this BAdI implementation is about.	System Method Call for MDQ Derivation
BAdI Implementing Class	ZCL_MY_SERVICE_CALL_SYS_METHOD	ZCL_BDI_MDQ_DERIVATION
BAdI Filter Value	ZMY_SERVICE_NAME	ZMDQ_DERIVATION

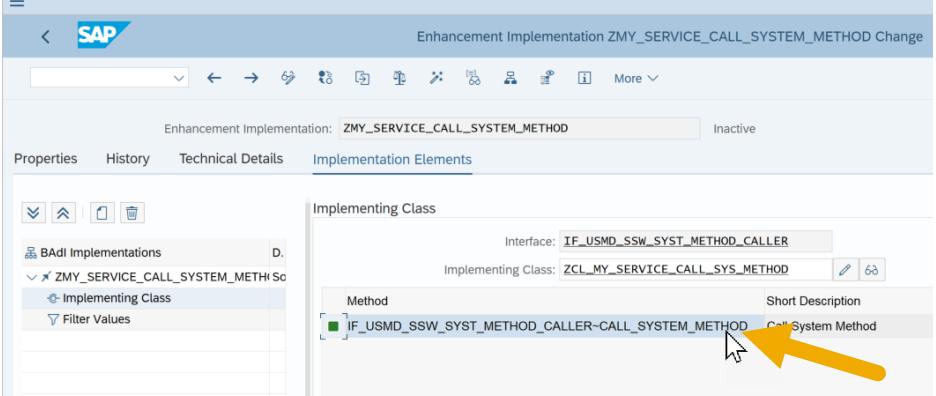
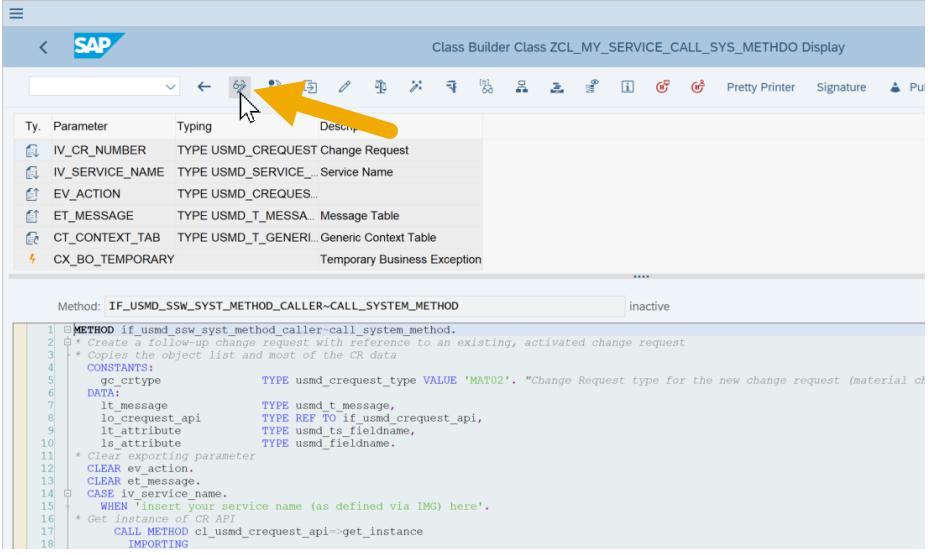
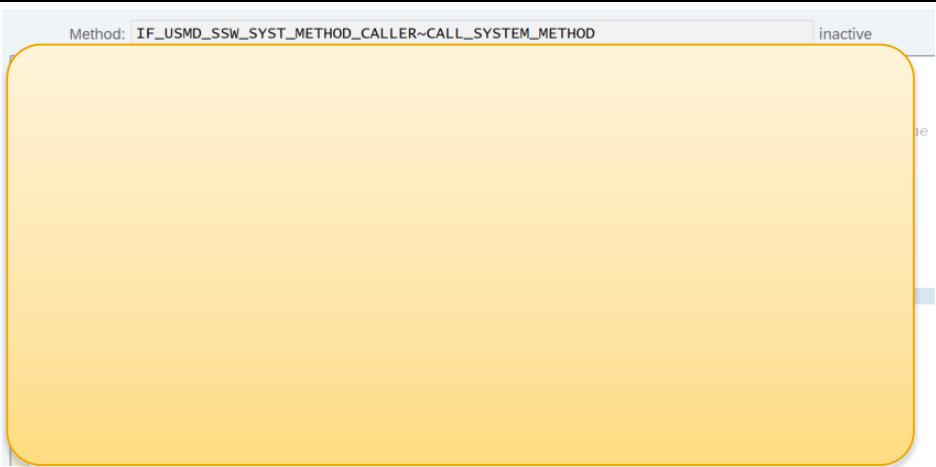
Step	Explanation	Screenshot
1	Start transaction SE18. Select option <i>BAdI name</i> and enter USMD_SSW_SYSTEM_METHOD_CALLER . Choose <i>Display</i> .	
2	Open the context menu on the <i>Implementations</i> for BAdI USMD_SSW_SYSTEM_METHOD_CALLER and choose <i>Create BAdI Implementation</i> .	
3	In the pop-up Select or Create Enhancement Implementation, choose <i>Create Enhancement Implementation</i> .	

Step	Explanation	Screenshot
4	<p>In the pop-up <i>Create Enhancement Implementation</i> enter the following data:</p> <ul style="list-style-type: none"> A meaningful name for the <i>Enhancement Implementation</i>, here: ZMY_SERVICE_CALL_SYSTEM_METHOD Some <i>Short Text</i> providing a hint as to what this enhancement is about <p>Choose Creation of Enhancement.</p>	
5	<p>Choose a suitable development package or store the enhancement implementation as a local object depending on your needs.</p>	
6	<p>In the pop-up <i>Select or Create Enhancement Implementation</i> amongst others, the new enhancement implementation is listed. Select it and choose <i>Select Specified Enhancement Implementation</i>.</p>	

Step	Explanation	Screenshot
7	<p>In the pop-up <i>Create BAdl Implementation</i> enter the following data:</p> <ul style="list-style-type: none"> A meaningful name for the <i>BAdl Implementation</i>, here: ZMY_SERVICE_CALL_SYSTEM_METHOD Some <i>Description</i> providing a hint as to what this BAdl implementation is about The name of the <i>Implementing Class</i> which implemented the BAdl interface, here: ZCL_MY_SERVICE_CALL_SYS_METHOD <p>Choose continue.</p>	
8	<p>In the next pop-up choose <i>Enhancement Implementation</i> MDG_BS_MAT_CREATE_SUCCESSOR_CR and choose <i>Copy Sample Class</i>.</p>	
9	<p>Choose a suitable development package or store the implementation class as a local object depending on your needs.</p>	

Step	Explanation	Screenshot
10	Navigate to the <i>Filter Values</i> for the BAdI implementation.	
11	Go to edit mode.	
12	A filter shall be created for filter SERVICE_NAME to be ZMY_SERVICE_NAME, matching the service defined in the Customizing <i>Define Service Names for Rule-Based Workflow</i> (see 4.2.1). Press <i>Combination</i> .	
13	Double-click the combination or choose <i>Value</i> .	

Step	Explanation	Screenshot
14	<p>In the pop-up <i>Change Filter Value</i> enter or choose the following data:</p> <ul style="list-style-type: none"> Value 1: The service name defined in Customizing Define Service Names for Rule-Based Workflow (see 4.2.1), here: ZMY_SERVICE_NAME <p>You can use the value help to choose the service name.</p> <ul style="list-style-type: none"> Comparator 1: = Choose Continue. <p>Note: One BAdI implementation can handle calls for more than one service name. Use the service name distinguish between use cases.</p>	
15	As result the filter is adjusted.	
16	Navigate to <i>Implementing Class</i> .	

Step	Explanation	Screenshot
17	Double-click BAdI method IF_USMD_SSW_SYST_ME THOD_CALLER~CALL_SYS TEM_METHOD.	 A screenshot of the SAP Enhancement Implementation screen. The title bar says "Enhancement Implementation ZMY_SERVICE_CALL_SYSTEM_METHOD Change". The main area shows the "Implementation Elements" tab selected. Under "BAdI Implementations", there is a list item "ZMY_SERVICE_CALL_SYSTEM_METHOD So". Under "Implementing Class", there is a list item "ZCL_MY_SERVICE_CALL_SYS_METHOD". A method named "IF_USMD_SSW_SYST_METHOD_CALLER~CALL_SYSTEM_METHOD" is selected. A yellow arrow points to this method name.
18	Go to edit mode.	 A screenshot of the SAP Class Builder screen. The title bar says "Class Builder Class ZCL_MY_SERVICE_CALL_SYS_METHOD Display". The main area shows the "Method" tab selected. A method named "IF_USMD_SSW_SYST_METHOD_CALLER~CALL_SYSTEM_METHOD" is selected. A yellow arrow points to the edit icon (pencil) in the toolbar.
19	Change the example implementation according to your needs. At least change the CASE - WHEN statement to match the service name defined in the Customizing Define Service Names for Rule-Based Workflow (see 4.2.1), here: ZMY_SERVICE_NAME.	 A screenshot of the SAP Class Builder screen showing the same method code as the previous screenshot. A large yellow callout box surrounds the entire code area, which contains the following ABAP code:

Example code:

```

METHOD if_usmd_ssw_syst_method_caller~call_system_method.

DATA(cr_number) = iv_cr_number.

CASE iv_service_name.
WHEN 'ZMDQ_DERIVATION'.

"Get an instance of the MDQ derivation controller
DATA(derivation_controller) = cl_mdg_mdq_rbwf_derive->get_instance( ).

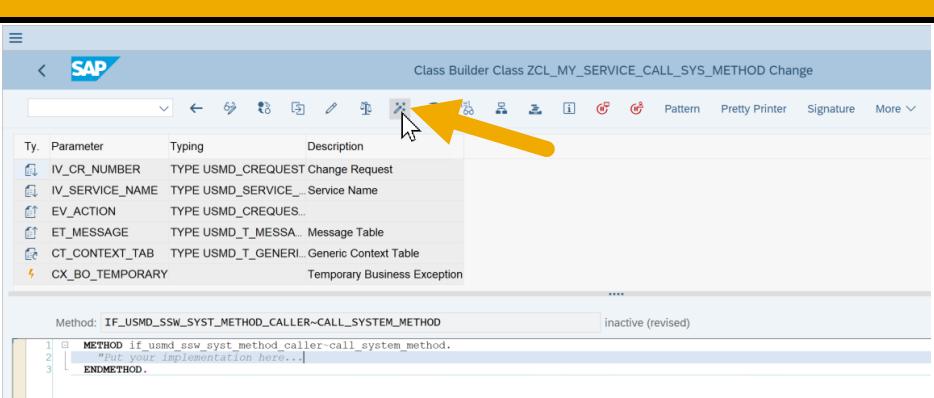
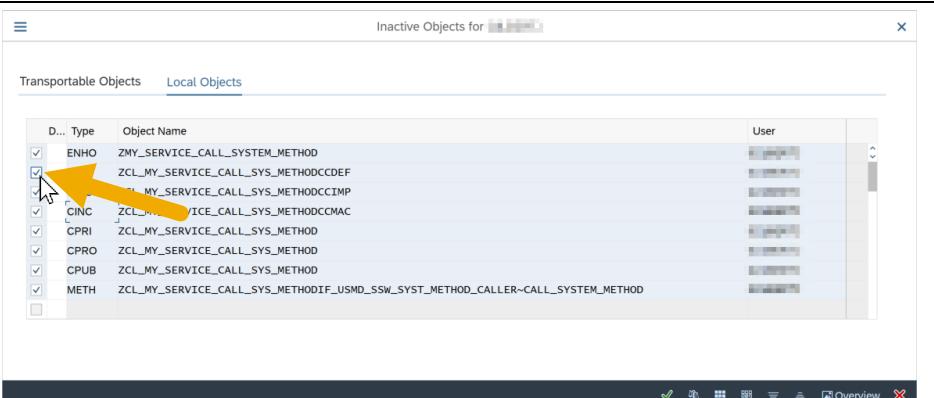
"Execute the derivation and evaluate the result
DATA(result) = derivation_controller->if_mdg_mdq_rbwf_derive~derive( change_request = cr_number ).

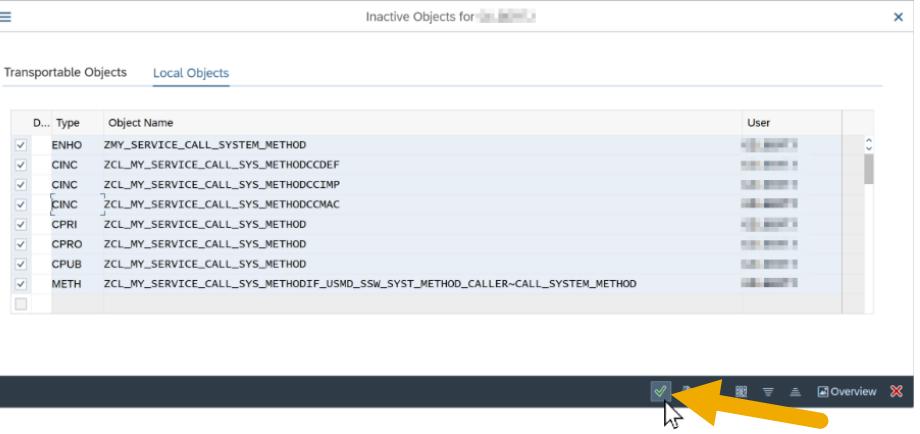
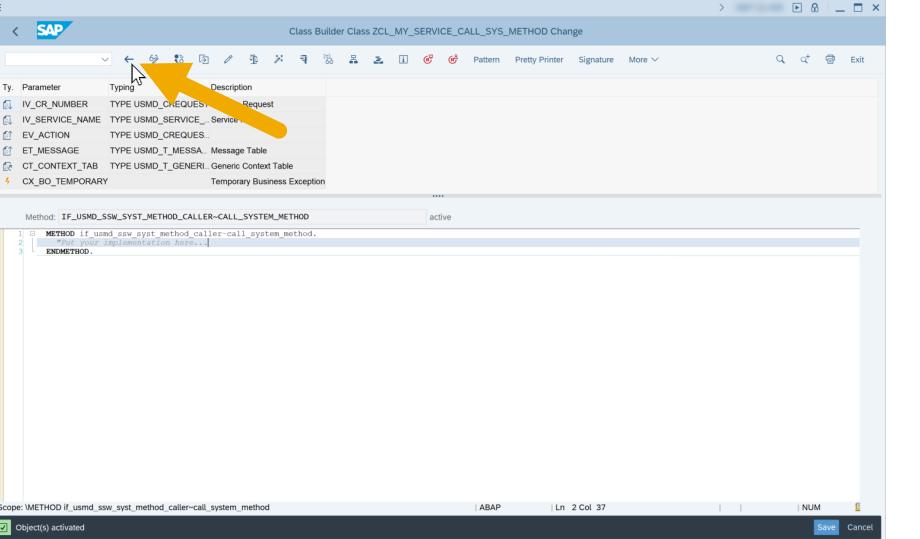
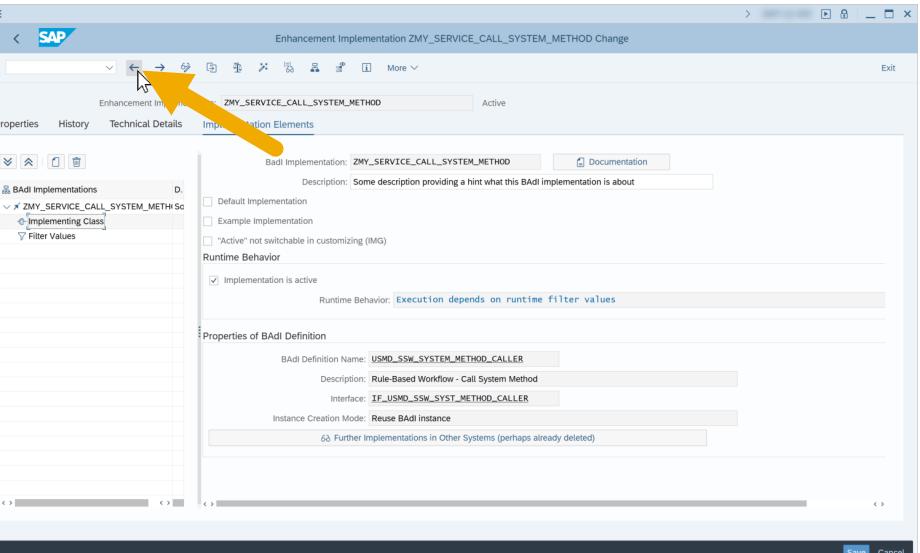
IF result EQ derivation_controller->if_mdg_mdq_rbwf_derive~derivation_failure.
"Indicate that the derivation failed
ev_action = 'D2'.
"INFO: access to messages via derivation_controller->messages
ELSEIF result EQ derivation_controller->if_mdg_mdq_rbwf_derive~derivation_success_w_messages.
"Indicate that the derivation was successful but with messages
ev_action = 'D5'.
"INFO: access to messages via derivation_controller->messages
ELSE.
"Indicate that the derivation was successful
ev_action = 'D1'.
ENDIF.

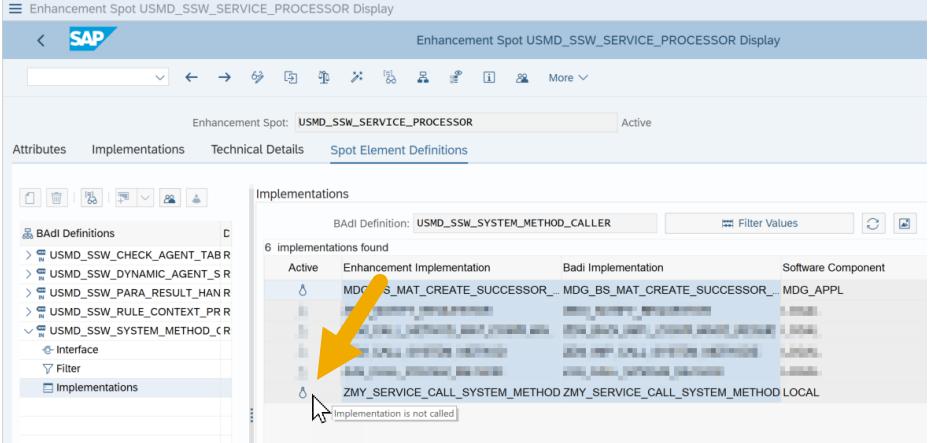
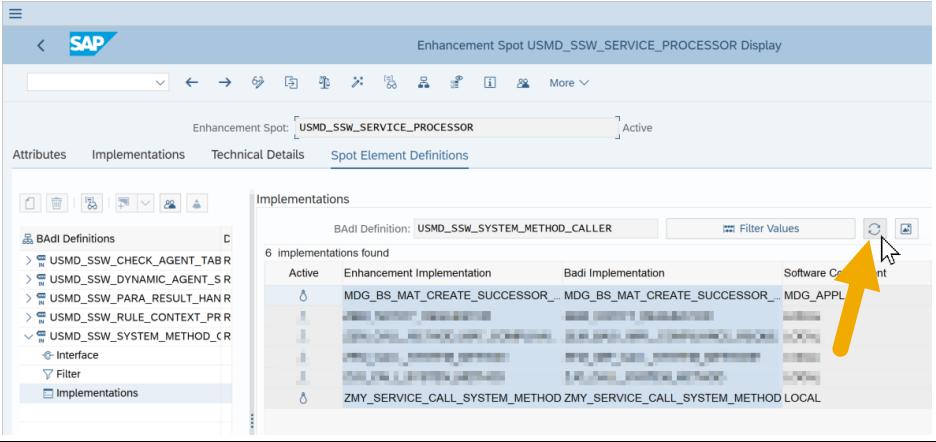
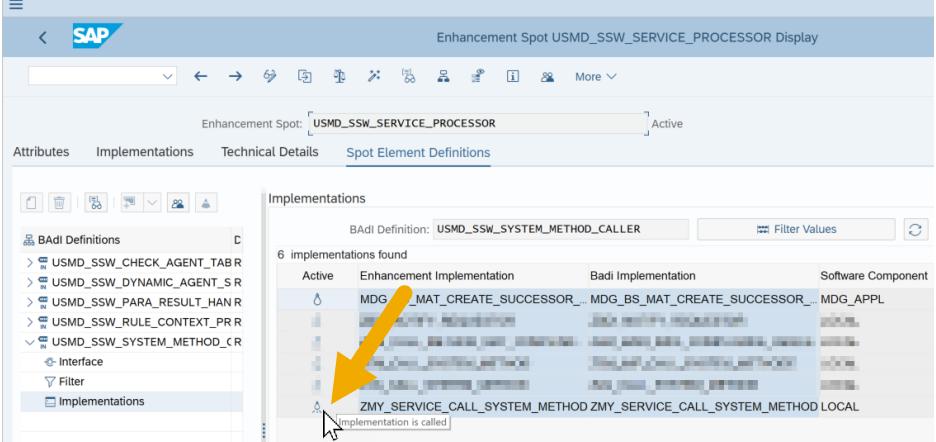
WHEN OTHERS.

ENDCASE.
ENDMETHOD.

```

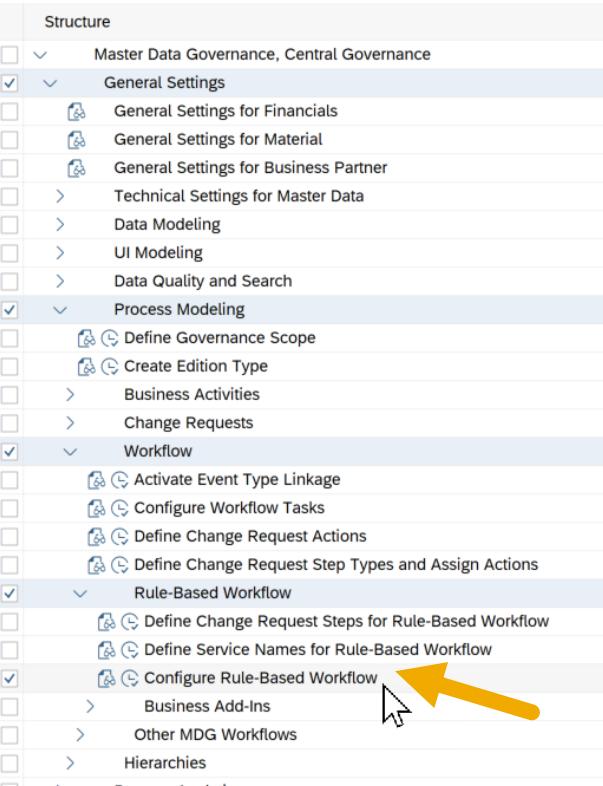
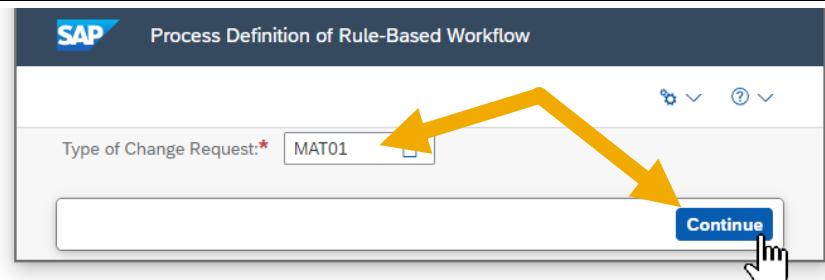
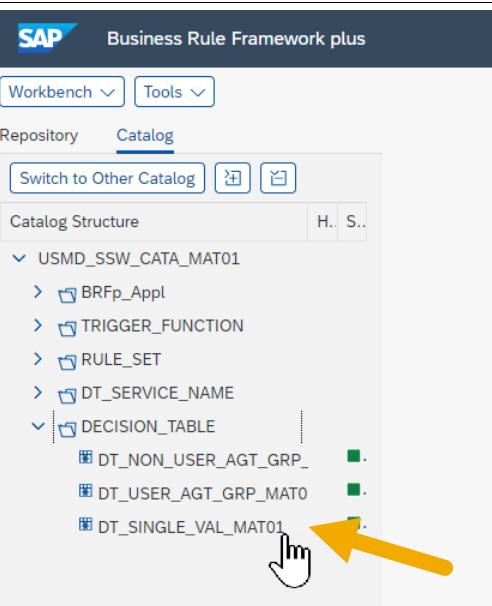
Step	Explanation	Screenshot
20	Activate the method. In case other objects are still to be adjusted, select them for activation as well.	
21	The enhancement, the BAdI implementation as well as the BAdI class have not been activated so far. In the pop-up <i>Inactive Objects for ...</i> select these.	

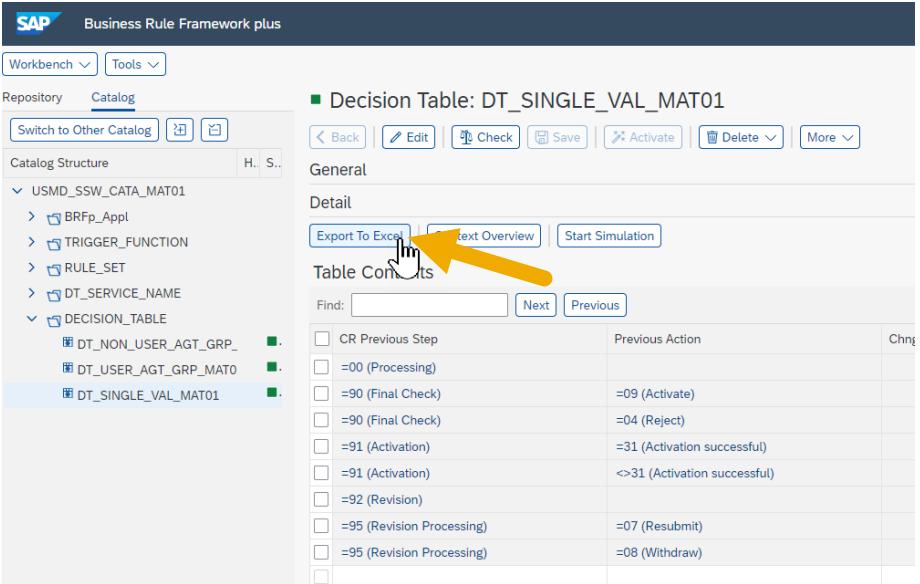
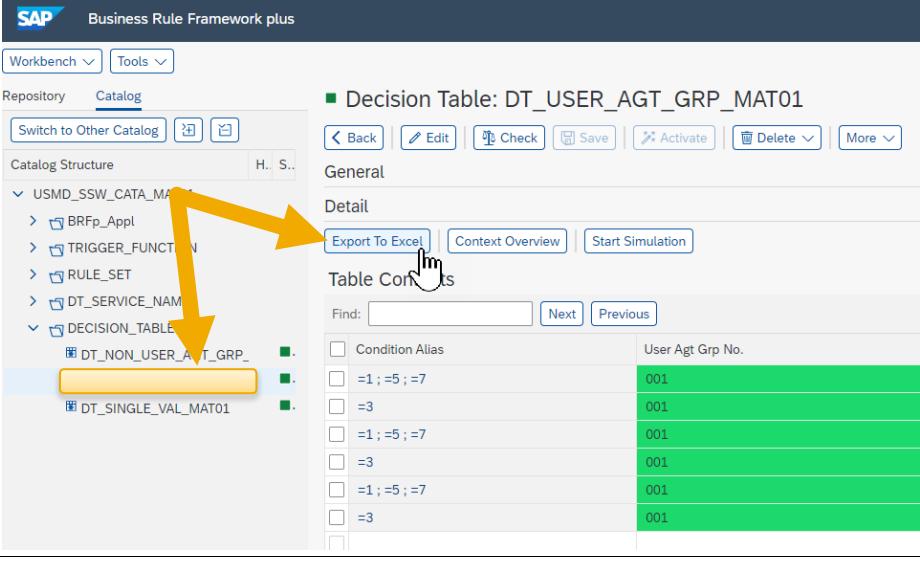
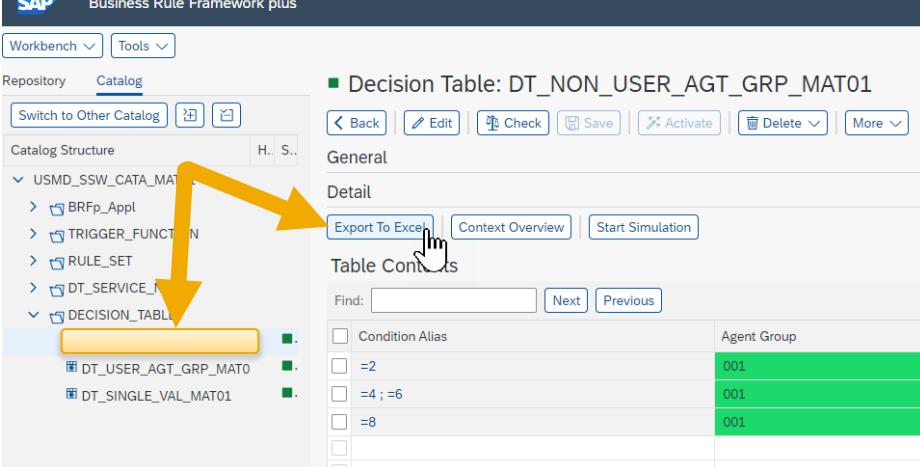
Step	Explanation	Screenshot																																				
22	To activate the selected object choose continue.	 <p>Inactive Objects for [System]</p> <p>Transportable Objects Local Objects</p> <table border="1"> <thead> <tr> <th>D...</th> <th>Type</th> <th>Object Name</th> <th>User</th> </tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/></td><td>ENHO</td><td>ZMY_SERVICE_CALL_SYSTEM_METHOD</td><td>[User Icon]</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>CINC</td><td>ZCL_MY_SERVICE_CALL_SYS_METHODCCDEF</td><td>[User Icon]</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>CINC</td><td>ZCL_MY_SERVICE_CALL_SYS_METHODCCIMP</td><td>[User Icon]</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>CINC</td><td>ZCL_MY_SERVICE_CALL_SYS_METHODCCMAC</td><td>[User Icon]</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>CPRI</td><td>ZCL_MY_SERVICE_CALL_SYS_METHOD</td><td>[User Icon]</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>CPRO</td><td>ZCL_MY_SERVICE_CALL_SYS_METHOD</td><td>[User Icon]</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>CPUB</td><td>ZCL_MY_SERVICE_CALL_SYS_METHOD</td><td>[User Icon]</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>METH</td><td>ZCL_MY_SERVICE_CALL_SYS_METHODIF_USMD_SSW_SYST_METHOD_CALLER~CALL_SYSTEM_METHOD</td><td>[User Icon]</td></tr> </tbody> </table>	D...	Type	Object Name	User	<input checked="" type="checkbox"/>	ENHO	ZMY_SERVICE_CALL_SYSTEM_METHOD	[User Icon]	<input checked="" type="checkbox"/>	CINC	ZCL_MY_SERVICE_CALL_SYS_METHODCCDEF	[User Icon]	<input checked="" type="checkbox"/>	CINC	ZCL_MY_SERVICE_CALL_SYS_METHODCCIMP	[User Icon]	<input checked="" type="checkbox"/>	CINC	ZCL_MY_SERVICE_CALL_SYS_METHODCCMAC	[User Icon]	<input checked="" type="checkbox"/>	CPRI	ZCL_MY_SERVICE_CALL_SYS_METHOD	[User Icon]	<input checked="" type="checkbox"/>	CPRO	ZCL_MY_SERVICE_CALL_SYS_METHOD	[User Icon]	<input checked="" type="checkbox"/>	CPUB	ZCL_MY_SERVICE_CALL_SYS_METHOD	[User Icon]	<input checked="" type="checkbox"/>	METH	ZCL_MY_SERVICE_CALL_SYS_METHODIF_USMD_SSW_SYST_METHOD_CALLER~CALL_SYSTEM_METHOD	[User Icon]
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<input checked="" type="checkbox"/>	METH	ZCL_MY_SERVICE_CALL_SYS_METHODIF_USMD_SSW_SYST_METHOD_CALLER~CALL_SYSTEM_METHOD	[User Icon]																																			
23	Navigate back to the enhancement implementation.	 <p>Class Builder Class ZCL_MY_SERVICE_CALL_SYS_METHOD Change</p> <p>Ty. Parameter Typing Description</p> <ul style="list-style-type: none"> IV_CR_NUMBER TYPE USMD_CREQUEST Request IV_SERVICE_NAME TYPE USMD_SERVICE_Service EV_ACTION TYPE USMD_CREQUESTS ET_MESSAGE TYPE USMD_T_MESSAGE Message Table CT_CONTEXT_TAB TYPE USMD_T_GENERI Generic Context Table CX_BO_TEMPORARY Temporary Business Exception <p>Method: IF_USMD_SSW_SYST_METHOD_CALLER~CALL_SYSTEM_METHOD active</p> <pre>1: METHOD If_usmd_ssw_syst_method_caller~call_system_method. 2: Implementation here... 3: ENDMETHOD.</pre> <p>Scope: IMETHOD if_usmd_ssw_syst_method_caller~call_system_method</p> <p>ABAP Lrn 2 Col 37 NUM Save Cancel</p> <p>Object(s) activated</p>																																				
24	Navigate back to enhancement spot USMD_SSW_SERVICE_PROCES SOR.	 <p>Enhancement Implementation ZMY_SERVICE_CALL_SYSTEM_METHOD Change</p> <p>Properties History Technical Details Implementation Elements</p> <p>BADI Implementation: ZMY_SERVICE_CALL_SYSTEM_METHOD Documentation</p> <p>Description: Some description providing a hint what this BADI implementation is about</p> <p>BADI Implementations: ZMY_SERVICE_CALL_SYSTEM_METHOD</p> <ul style="list-style-type: none"> Default Implementation Example Implementation "Active" not switchable in customizing (IMG) <p>Runtime Behavior: Implementation is active</p> <p>Runtime Behavior: Execution depends on runtime filter values</p> <p>Properties of BADI Definition</p> <p>BADI Definition Name: USMD_SSW_SYSTEM_METHOD_CALLER</p> <p>Description: Rule-Based Workflow - Call System Method</p> <p>Interface: IF_USMD_SSW_SYST_METHOD_CALLER</p> <p>Instance Creation Mode: Reuse BADI Instance</p> <p>Further Implementations in Other Systems (perhaps already deleted)</p> <p>Save Cancel</p>																																				

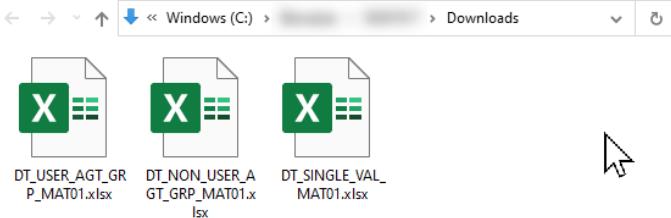
Step	Explanation	Screenshot
25	Check the activation status (column <i>Active</i>) for your enhancement implementation. It must be <i>Active</i> or <i>Implementation is called</i> .	
26	You may need choose Refresh to get the current status.	
27	After refreshing the status must be <i>Active</i> or rather <i>Implementation is called</i> .	

4.2.4. Configure Rule-Based Workflow for New CR-Type

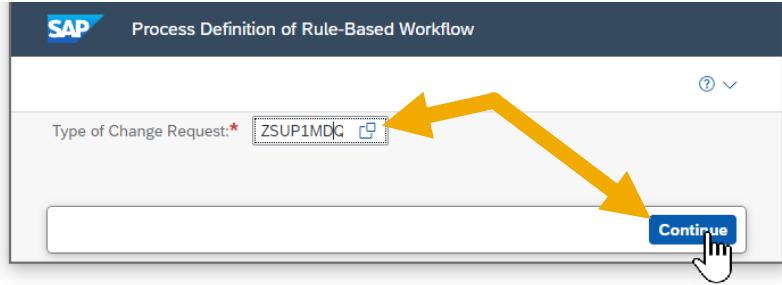
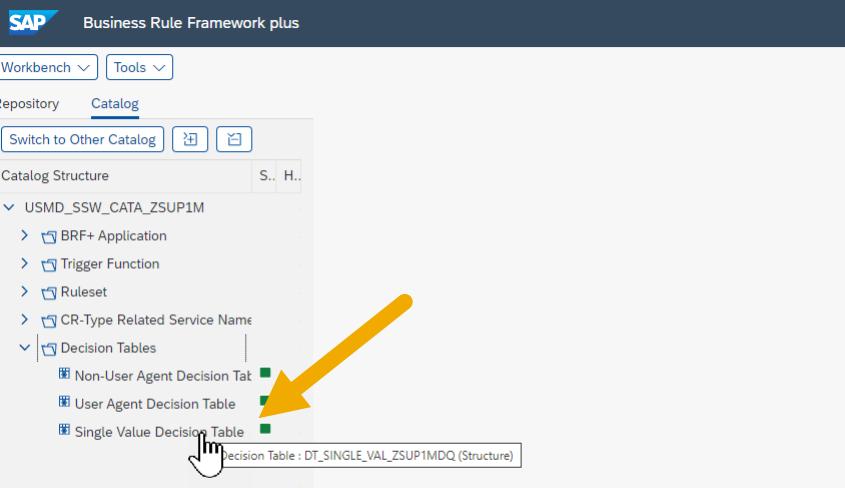
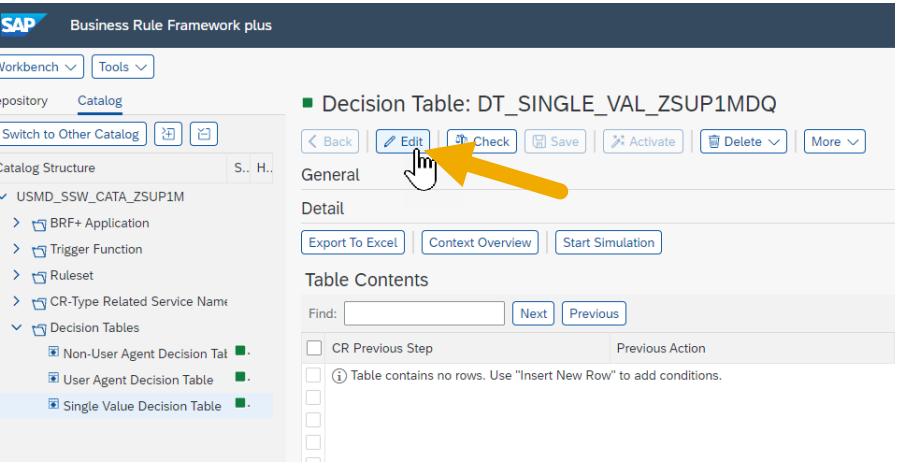
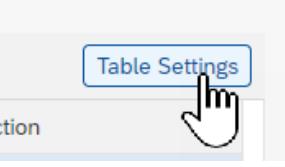
This chapter describes the configuration of a rule-based workflow for the new change request type ZSUP1MDQ (Create Supplier w/ MDQ Derivation). To omit starting from scratch the BRF+ decision tables of the SAP-delivered change request type MAT01 (Create Material) are copied for ZSUP1MDQ and adjusted.

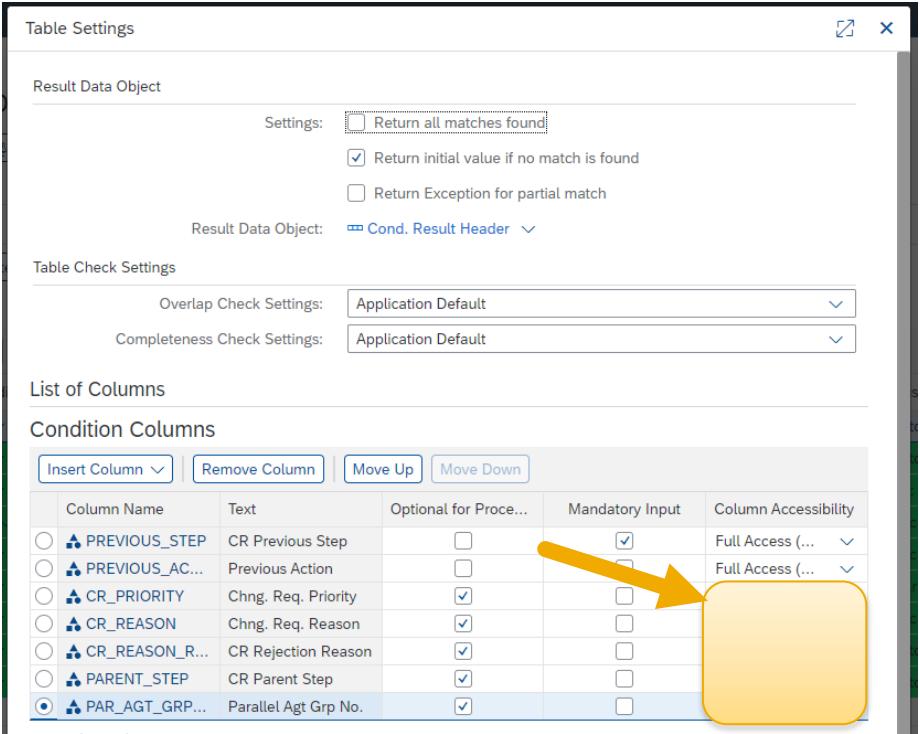
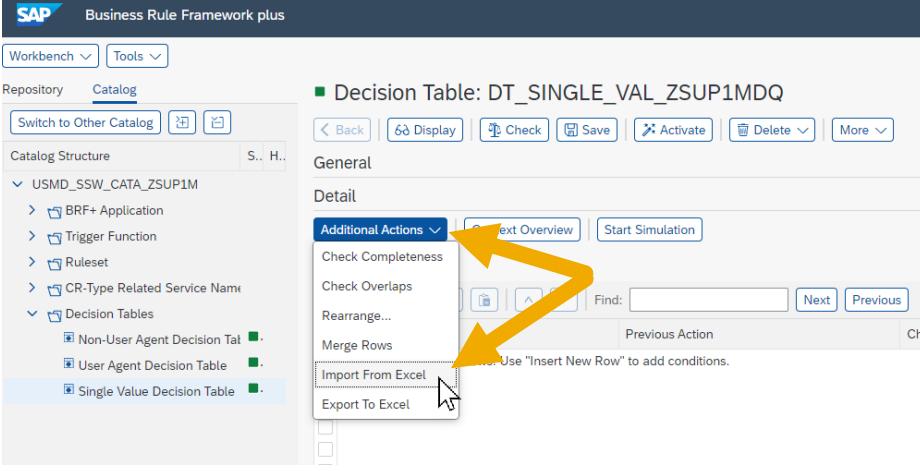
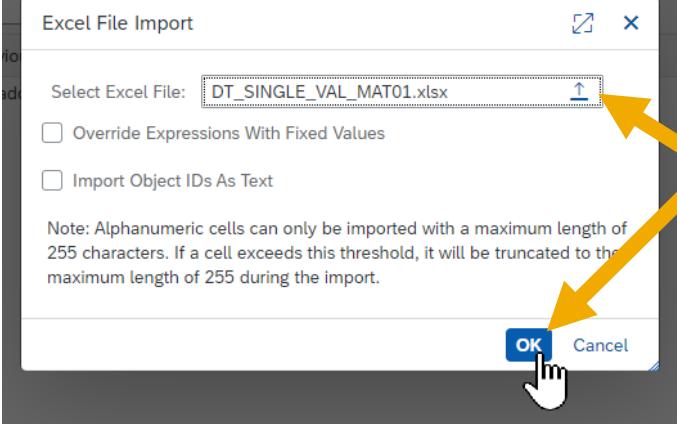
Step	Explanation	Screenshot
1	Start transaction MDGIMG. Navigate to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow.	
2	Enter the change request type <i>MAT01</i> and choose <i>Continue</i> .	
3	Navigate to the single value decision table (<i>DT_SINGLE_VAL_MAT01</i>).	

Step	Explanation	Screenshot																		
4	Choose Export To Excel.	 <p>Decision Table: DT_SINGLE_VAL_MAT01</p> <table border="1"> <thead> <tr> <th>Condition Alias</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>=00 (Processing)</td><td>=09 (Activate)</td></tr> <tr><td>=90 (Final Check)</td><td>=04 (Reject)</td></tr> <tr><td>=90 (Final Check)</td><td>=31 (Activation successful)</td></tr> <tr><td>=91 (Activation)</td><td><>31 (Activation successful)</td></tr> <tr><td>=91 (Activation)</td><td>=>31 (Activation successful)</td></tr> <tr><td>=92 (Revision)</td><td></td></tr> <tr><td>=95 (Revision Processing)</td><td>=07 (Resubmit)</td></tr> <tr><td>=95 (Revision Processing)</td><td>=08 (Withdraw)</td></tr> </tbody> </table>	Condition Alias	Value	=00 (Processing)	=09 (Activate)	=90 (Final Check)	=04 (Reject)	=90 (Final Check)	=31 (Activation successful)	=91 (Activation)	<>31 (Activation successful)	=91 (Activation)	=>31 (Activation successful)	=92 (Revision)		=95 (Revision Processing)	=07 (Resubmit)	=95 (Revision Processing)	=08 (Withdraw)
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5	Navigate to the user agent decision table <i>(DT_USER_AGT_GRP_MAT01)</i> and choose <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				
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6	Navigate to the non-user agent decision table <i>(DT_NON_USER_AGT_GRP_MAT01)</i> and choose <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																			
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Step	Explanation	Screenshot																																																																																																																																																																										
7	There should be three MS Excel files downloaded.	 <p>The screenshot shows a Windows file explorer window with the address bar set to 'Windows (C:)'. In the right pane, there are three files listed: 'DT_USER_AGT_GR_P_MAT01.xlsx', 'DT_NON_USER_AGT_GRP_MAT01.xlsx', and 'DT_SINGLE_VAL_MAT01.xlsx'. Each file has a green icon with an 'X' and a document symbol. A cursor arrow is visible in the bottom right corner of the window.</p>																																																																																																																																																																										
8	Open MS Excel document DT_SINGLE_VAL_MAT01.xlsx and change the content of the first worksheet accordingly (see right side).	<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> </thead> <tbody> <tr><td>1</td><td>CR Previous Step</td><td>Previous Action</td><td>Condition Alias</td><td>New Chng. Req. Step</td></tr> <tr><td>2</td><td>=00</td><td></td><td>SUB</td><td>30</td></tr> <tr><td>3</td><td>=30</td><td>=D1</td><td>DQS</td><td>40</td></tr> <tr><td>4</td><td>=30</td><td>=D5</td><td>DQM</td><td>85</td></tr> <tr><td>5</td><td>=30</td><td>=D2</td><td>DQF</td><td>85</td></tr> <tr><td>6</td><td>=40</td><td>=05</td><td>FIN</td><td>90</td></tr> <tr><td>7</td><td>=40</td><td>=06</td><td>REV</td><td>95</td></tr> <tr><td>8</td><td>=85</td><td>=D3</td><td>DQC</td><td>40</td></tr> <tr><td>9</td><td>=85</td><td>=D4</td><td>DQR</td><td>30</td></tr> <tr><td>10</td><td>=90</td><td>=09</td><td>2</td><td>91</td></tr> <tr><td>11</td><td>=90</td><td>=10</td><td>3</td><td>95</td></tr> <tr><td>12</td><td>=91</td><td>=31</td><td>4</td><td>99</td></tr> <tr><td>13</td><td>=91</td><td><>31</td><td>5</td><td>90</td></tr> <tr><td>14</td><td>=92</td><td></td><td>6</td><td>99</td></tr> <tr><td>15</td><td>=95</td><td>=07</td><td>7</td><td>40</td></tr> <tr><td>16</td><td>=95</td><td>=08</td><td>8</td><td>92</td></tr> <tr><td>17</td><td colspan="4">(Content as Text:)</td></tr> <tr> <th>CR Previous Step</th><th>Previous Action</th><th>Condition Alias</th><th>New Chng. Req. Step</th><th>New CR Status</th></tr> <tr><td>=00</td><td></td><td>SUB</td><td>30</td><td>02</td></tr> <tr><td>=30</td><td>=D1</td><td>DQS</td><td>40</td><td>02</td></tr> <tr><td>=30</td><td>=D5</td><td>DQM</td><td>85</td><td>Z5</td></tr> <tr><td>=30</td><td>=D2</td><td>DQF</td><td>85</td><td>Z1</td></tr> <tr><td>=40</td><td>=05</td><td>FIN</td><td>90</td><td>02</td></tr> <tr><td>=40</td><td>=06</td><td>REV</td><td>95</td><td>02</td></tr> <tr><td>=85</td><td>=D3</td><td>DQC</td><td>40</td><td>02</td></tr> <tr><td>=85</td><td>=D4</td><td>DQR</td><td>30</td><td>02</td></tr> <tr><td>=90</td><td>=09</td><td>2</td><td>91</td><td>02</td></tr> <tr><td>=90</td><td>=10</td><td>3</td><td>95</td><td>10</td></tr> <tr><td>=91</td><td>=31</td><td>4</td><td>99</td><td>05</td></tr> <tr><td>=91</td><td><>31</td><td>5</td><td>90</td><td>11</td></tr> <tr><td>=92</td><td></td><td>6</td><td>99</td><td>06</td></tr> <tr><td>=95</td><td>=07</td><td>7</td><td>40</td><td>02</td></tr> <tr><td>=95</td><td>=08</td><td>8</td><td>92</td><td>02</td></tr> </tbody> </table>	A	B	C	D	E	1	CR Previous Step	Previous Action	Condition Alias	New Chng. Req. Step	2	=00		SUB	30	3	=30	=D1	DQS	40	4	=30	=D5	DQM	85	5	=30	=D2	DQF	85	6	=40	=05	FIN	90	7	=40	=06	REV	95	8	=85	=D3	DQC	40	9	=85	=D4	DQR	30	10	=90	=09	2	91	11	=90	=10	3	95	12	=91	=31	4	99	13	=91	<>31	5	90	14	=92		6	99	15	=95	=07	7	40	16	=95	=08	8	92	17	(Content as Text:)				CR Previous Step	Previous Action	Condition Alias	New Chng. Req. Step	New CR Status	=00		SUB	30	02	=30	=D1	DQS	40	02	=30	=D5	DQM	85	Z5	=30	=D2	DQF	85	Z1	=40	=05	FIN	90	02	=40	=06	REV	95	02	=85	=D3	DQC	40	02	=85	=D4	DQR	30	02	=90	=09	2	91	02	=90	=10	3	95	10	=91	=31	4	99	05	=91	<>31	5	90	11	=92		6	99	06	=95	=07	7	40	02	=95	=08	8	92	02
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14	In the MDGIMG navigate to General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow.	<p>Structure</p> <ul style="list-style-type: none"> <input type="checkbox"/> Master Data Governance, Central Governance <input checked="" type="checkbox"/> General Settings <ul style="list-style-type: none"> <input type="checkbox"/> General Settings for Financials <input type="checkbox"/> General Settings for Material <input type="checkbox"/> General Settings for Business Partner > Technical Settings for Master Data > Data Modeling > UI Modeling > Data Quality and Search <input checked="" type="checkbox"/> Process Modeling <ul style="list-style-type: none"> <input type="checkbox"/> Define Governance Scope <input type="checkbox"/> Create Edition Type > Business Activities > Change Requests <input checked="" type="checkbox"/> Workflow <ul style="list-style-type: none"> <input type="checkbox"/> Activate Event Type Linkage <input type="checkbox"/> Configure Workflow Tasks <input type="checkbox"/> Define Change Request Actions <input type="checkbox"/> Define Change Request Step Types and Assign Actions <input checked="" type="checkbox"/> Rule-Based Workflow <ul style="list-style-type: none"> <input type="checkbox"/> Define Change Request Steps for Rule-Based Workflow <input type="checkbox"/> Define Service Names for Rule-Based Workflow <input checked="" type="checkbox"/> Configure Rule-Based Workflow  > Business Add-Ins > Other MDG Workflows > Hierarchies < Process Analytics 																																																													

Step	Explanation	Screenshot
15	Enter the newly created change request type ZSUP1MDQ and choose Continue .	
16	Navigate to the single value decision table (DT_SINGLE_VAL_ZSUP1MDQ).	
17	Choose Edit to switch to edit mode.	
18	Adjust the Table Settings to hide non-relevant columns. In any case make sure that the columns match the columns in the MS Excel file.	

Step	Explanation	Screenshot
19	Non-relevant columns in this case are the condition columns <i>CR_PRIORITY</i> and the following ones.	
20	Choose <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.	
21	Choose MS Excel file <i>DT_SINGLE_VAL_MAT01.xlsx</i> and then OK. Having "..._MAT01..." instead of "..._ZSUP1MDQ..." in the file name will <u>not</u> be any issue.	

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22	The decision table should contain the adjusted values from the MS Excel file.	<p>Decision Table: DT_SINGLE_VAL_ZSUP1MDQ</p> <table border="1"> <thead> <tr> <th>CR Previous Step</th> <th>Previous Action</th> <th>Condition Alias</th> <th>New Chg. Req. Step</th> <th>New CR Status</th> </tr> </thead> <tbody> <tr><td>=0 (Processing)</td><td>=D1 (DQ Derivation successful)</td><td>SUB</td><td>30 (DQ Derivation (Background))</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=30 (DQ Derivation (Background))</td><td>=D2 (DQ Derivation failed)</td><td>DQS</td><td>40 (Processing)</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=30 (DQ Derivation (Background))</td><td>=D3 (Continue without DQ Derivation)</td><td>DQF</td><td>85 (Fix or Skip)</td><td>10 (To Revise: Perform Changes)</td></tr> <tr><td>=40 (Processing)</td><td>=O5 (Finalize Processing)</td><td>FIN</td><td>90 (Final Check)</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=40 (Processing)</td><td>=O6 (Send for Revision)</td><td>REV</td><td>95 (Revision Processing)</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=85 (Fix or Skip)</td><td>=D4 (Resubmit with DQ Derivation)</td><td>DQC</td><td>40 (Processing)</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=85 (Fix or Skip)</td><td>=D5 (Resubmit without DQ Derivation)</td><td>DQR</td><td>30 (DQ Derivation (Background))</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=90 (Final Check)</td><td>=O9 (Activate)</td><td>2</td><td>91 (Activation)</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=90 (Final Check)</td><td>=O10 (Send for Revision)</td><td>3</td><td>95 (Revision Processing)</td><td>10 (To Revise: Perform Changes)</td></tr> <tr><td>=91 (Activation)</td><td>=O31 (Activation successful)</td><td>4</td><td>99 (Complete)</td><td>05 (Final Check Approved)</td></tr> <tr><td>=91 (Activation)</td><td>=O43 (Activation successful)</td><td>5</td><td>90 (Final Check)</td><td>11 (Process Errors After Activation)</td></tr> <tr><td>=92 (Revision)</td><td>...</td><td>6</td><td>99 (Complete)</td><td>06 (Final Check Rejected)</td></tr> <tr><td>=95 (Revision Processing)</td><td>=O7 (Resubmit)</td><td>7</td><td>40 (Processing)</td><td>02 (Changes to Be Executed)</td></tr> <tr><td>=95 (Revision Processing)</td><td>=O8 (Withdraw)</td><td>8</td><td>92 (Revision)</td><td>02 (Changes to Be Executed)</td></tr> </tbody> </table>	CR Previous Step	Previous Action	Condition Alias	New Chg. Req. Step	New CR Status	=0 (Processing)	=D1 (DQ Derivation successful)	SUB	30 (DQ Derivation (Background))	02 (Changes to Be Executed)	=30 (DQ Derivation (Background))	=D2 (DQ Derivation failed)	DQS	40 (Processing)	02 (Changes to Be Executed)	=30 (DQ Derivation (Background))	=D3 (Continue without DQ Derivation)	DQF	85 (Fix or Skip)	10 (To Revise: Perform Changes)	=40 (Processing)	=O5 (Finalize Processing)	FIN	90 (Final Check)	02 (Changes to Be Executed)	=40 (Processing)	=O6 (Send for Revision)	REV	95 (Revision Processing)	02 (Changes to Be Executed)	=85 (Fix or Skip)	=D4 (Resubmit with DQ Derivation)	DQC	40 (Processing)	02 (Changes to Be Executed)	=85 (Fix or Skip)	=D5 (Resubmit without DQ Derivation)	DQR	30 (DQ Derivation (Background))	02 (Changes to Be Executed)	=90 (Final Check)	=O9 (Activate)	2	91 (Activation)	02 (Changes to Be Executed)	=90 (Final Check)	=O10 (Send for Revision)	3	95 (Revision Processing)	10 (To Revise: Perform Changes)	=91 (Activation)	=O31 (Activation successful)	4	99 (Complete)	05 (Final Check Approved)	=91 (Activation)	=O43 (Activation successful)	5	90 (Final Check)	11 (Process Errors After Activation)	=92 (Revision)	...	6	99 (Complete)	06 (Final Check Rejected)	=95 (Revision Processing)	=O7 (Resubmit)	7	40 (Processing)	02 (Changes to Be Executed)	=95 (Revision Processing)	=O8 (Withdraw)	8	92 (Revision)	02 (Changes to Be Executed)
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23	Save the decision table.	<p>Decision Table: DT_SINGLE_VAL_ZSUP1MDQ</p>																																																																											
24	Activate the decision table.	<p>Decision Table: DT_SINGLE_VAL_ZSUP1MDQ</p>																																																																											
25	In case a confirmation for the activation is required choose Yes.	<p>Confirm Activation</p>																																																																											
26	Navigate to the user agent decision table (DT_USER_AGT_GRP_ZSUP1M DQ).	<p>SAP Business Rule Framework plus</p>																																																																											

Step	Explanation	Screenshot
27	Choose <i>Edit</i> to switch to edit mode.	
28	Choose <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.	
29	Select MS Excel file <i>DT_USER_AGT_GRP_MAT01.xlsx</i> and choose <i>OK</i> .	
30	The decision table should contain the values from the MS Excel file.	

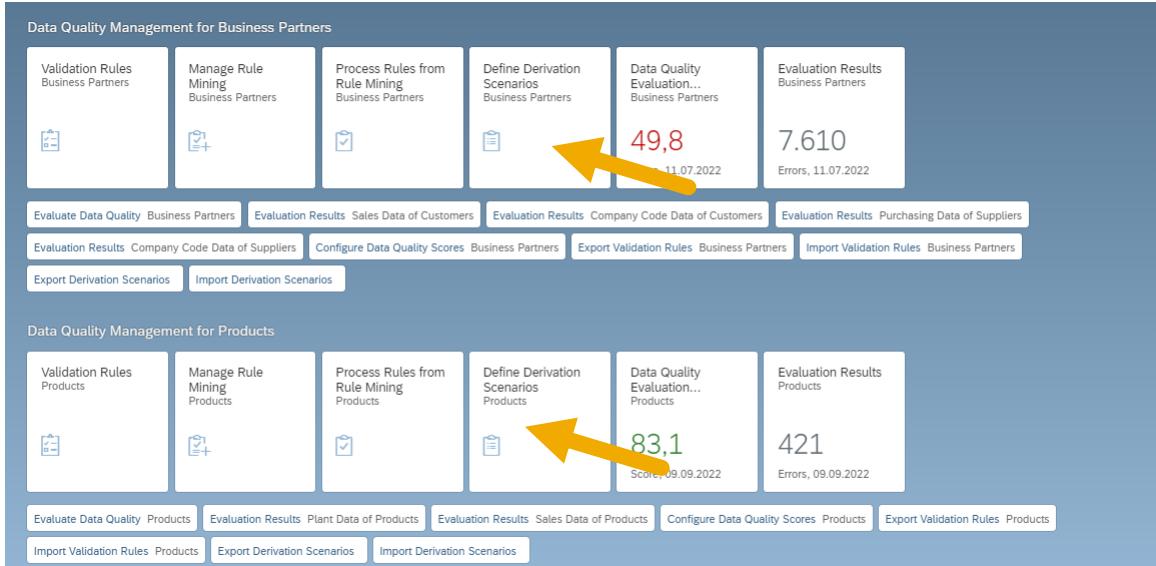
Step	Explanation	Screenshot
31	Save the decision table.	<p>Decision Table: DT_USER_AGT_GRP_ZSUP1MDQ</p> <p>General</p>
32	Activate the decision table.	<p>Decision Table: DT_USER_AGT_GRP_ZSUP1MDQ Active version available</p> <p>General</p>
33	Navigate to the user agent decision table (<i>DT_NON_USER_AGT_GRP_ZSUP1MDQ</i>).	<p>Business Rule Framework plus</p> <p>Workbench Tools</p> <p>Repository Catalog</p> <p>Catalog Structure S.. H..</p> <ul style="list-style-type: none"> USMD_SSW_CATA_ZSUP1M <ul style="list-style-type: none"> BRF+ Application Trigger Function Ruleset CR-Type Related Service Name Decision Tables <ul style="list-style-type: none"> Non-User Agent Decision Table User Agent Decision Table
34	Choose <i>Edit</i> to switch to edit mode.	<p>Business Rule Framework plus</p> <p>Workbench Tools</p> <p>Repository Catalog</p> <p>Catalog Structure S.. H..</p> <p>Decision Table: DT_NON_USER_AGT_GRP_ZSUP1MDQ</p> <p>General</p> <p>Detail</p> <p>Table Contents</p>
35	Choose <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.	<p>Business Rule Framework plus</p> <p>Workbench Tools</p> <p>Repository Catalog</p> <p>Catalog Structure S.. H..</p> <p>Decision Table: DT_NON_USER_AGT_GRP_ZSUP1MDQ</p> <p>General</p> <p>Detail</p> <p>Additional Actions</p> <ul style="list-style-type: none"> Context Overview Start Simulation Check Completeness Check Overlaps Rearrange... Merge Rows Import From Excel Export To Excel

Step	Explanation	Screenshot
36	Select MS Excel file <i>DT_NON_USER_AGT_GRP_MAT01.xlsx</i> and then OK.	
37	The decision table should contain the adjusted values from the MS Excel file.	
38	Save the decision table.	
39	Activate the decision table.	

4.3. Example Derivation Scenarios

The following step by step explanations assume that you are able to access the apps *Define Derivation Scenarios for Products/Business Partners* from the SAP Fiori Launchpad.

If this setup is missing, follow [these instructions](#) in the ‘Configuration of MDG, Data Quality Management’ documentation.



We recommend to use the online help provided by SAP Companion, i.e. clicking on the ‘?’ provides context related support.

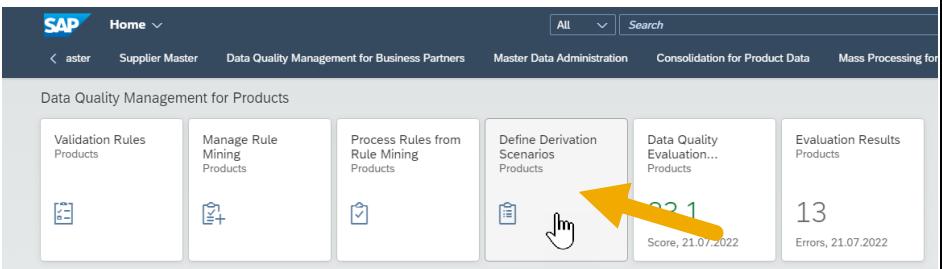
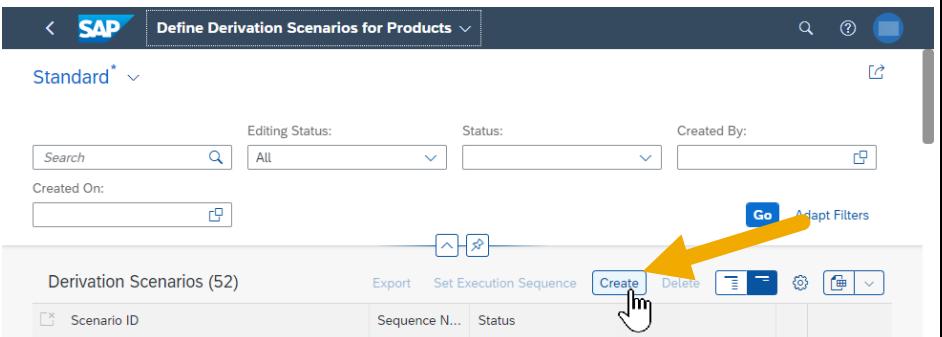
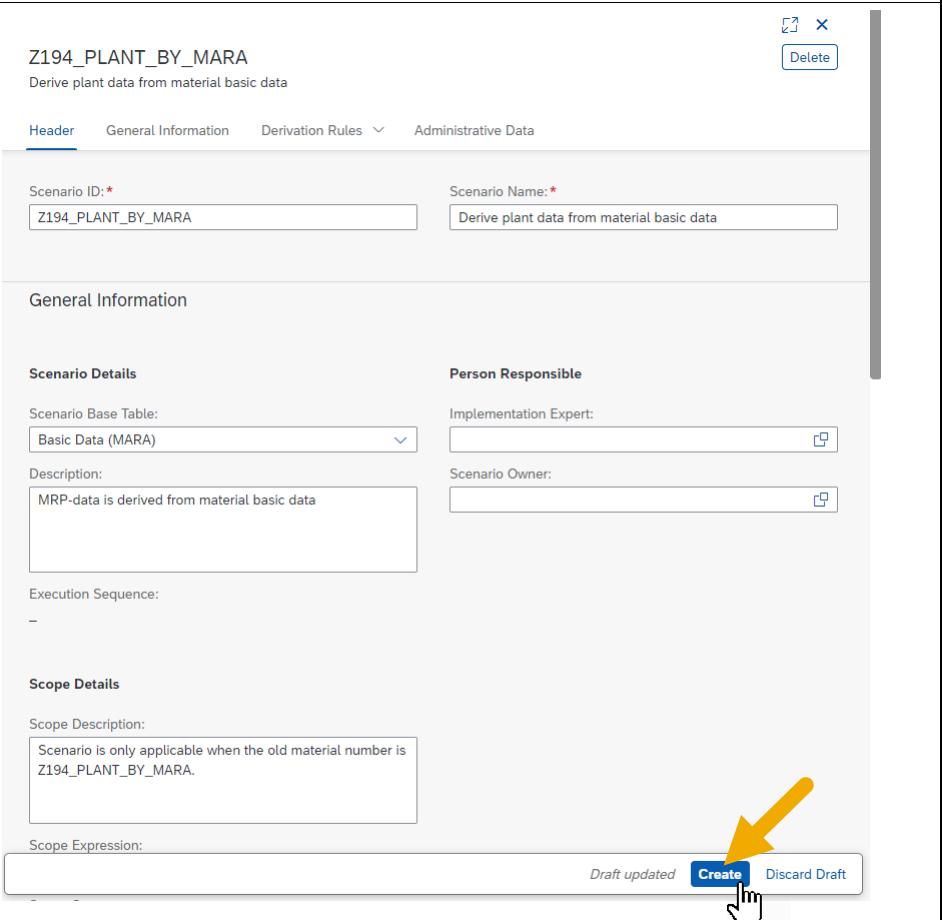
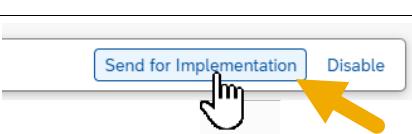
The figure shows the 'Define Derivation Scenarios' application. On the left, a list of scenarios is shown, including 'Z147_BP_SIMPLE' (selected), 'EM_DERIVE', 'ZRW_TEST_LOOOOOONG', and 'ZTW_MULTI_ASSIGNMENT'. On the right, a detailed view of 'Z147_BP_SIMPLE' is displayed. The status is 'Approved'. The 'Edit' button is highlighted with a yellow arrow. The 'Help Topics' sidebar is visible on the right.

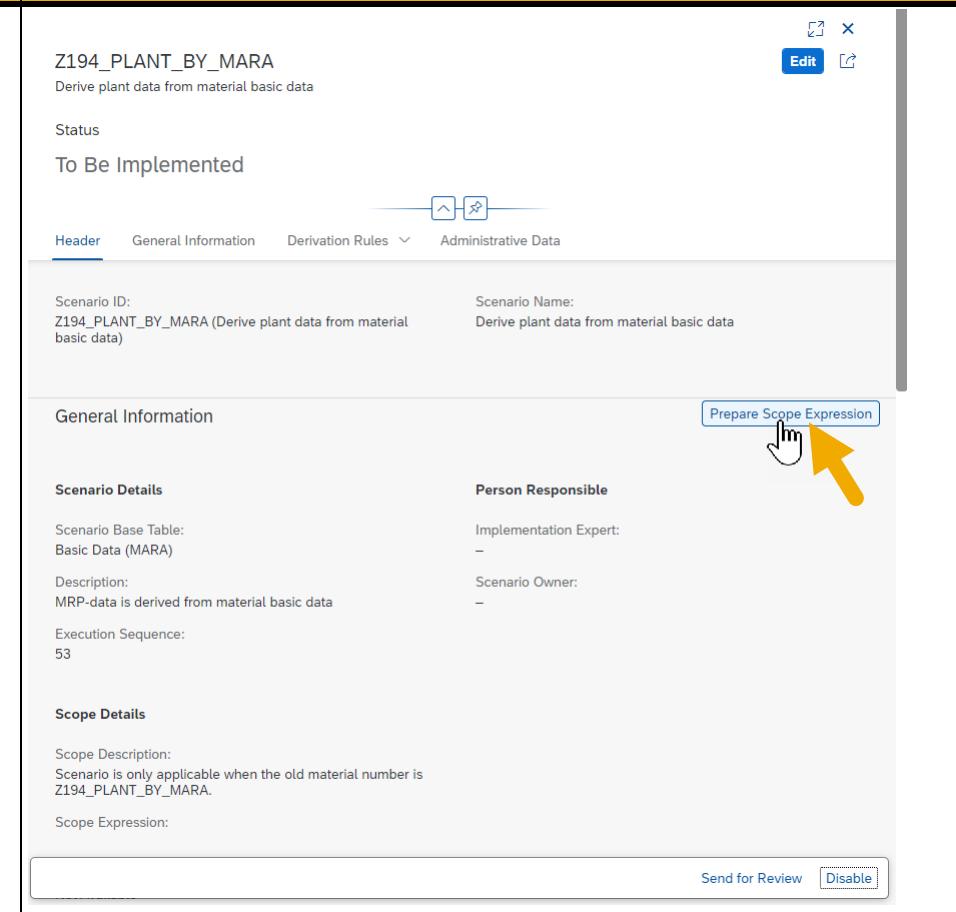
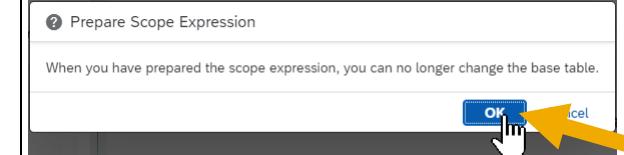
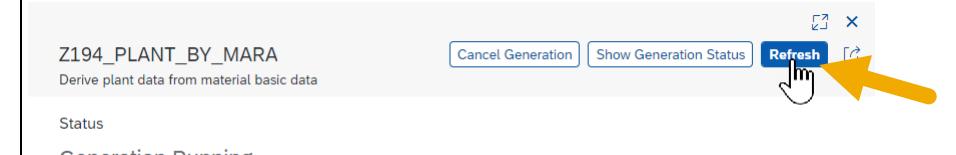
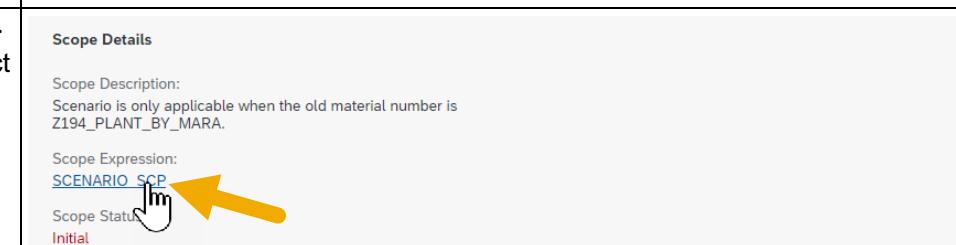
Note: A typical derivation scenario modelling workflow involves various people with roles like Scenario Owner, Implementation Expert, Rule Owner and Data Owner. The following examples do not consider this derivation scenario modelling workflow.

4.3.1. Example Derivation Scenario for Products (Materials)

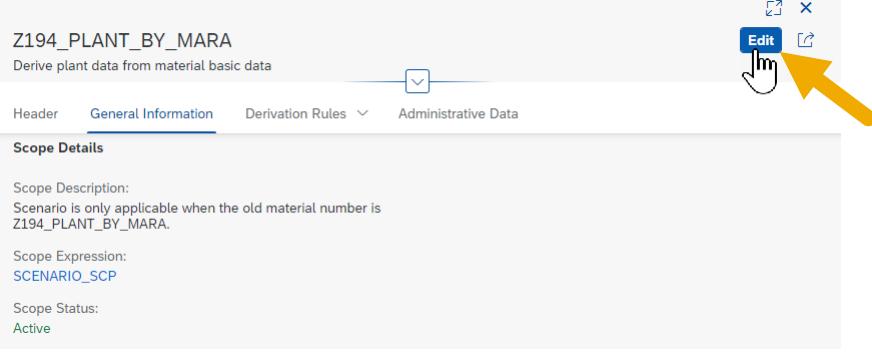
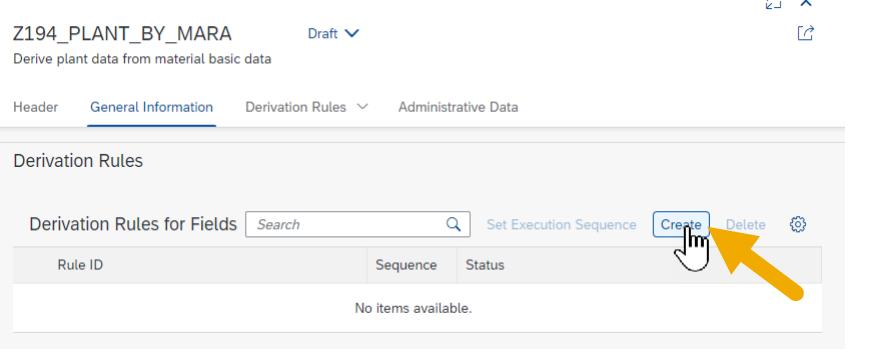
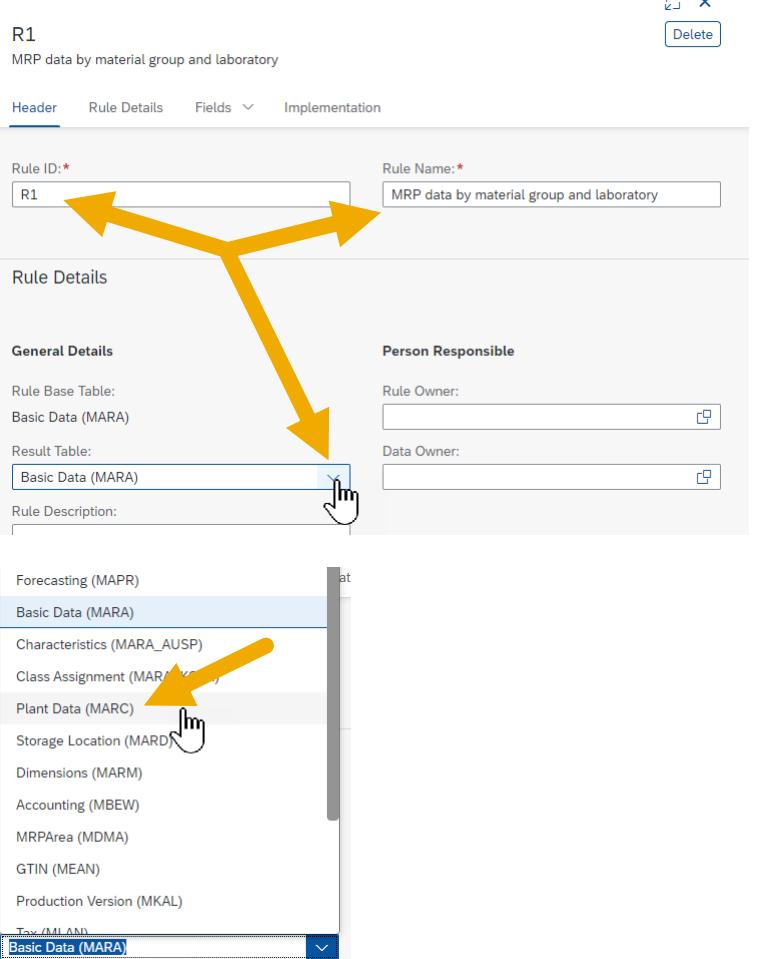
In this chapter, a sample derivation scenario for products (materials) is created. The use case is to derive plant attributes from material basic data. For an existing material, the user maintains the fields *Material Group* and *Laboratory* and assigns plants. The derivation scenario derives values for plant attributes, which depend on these fields.

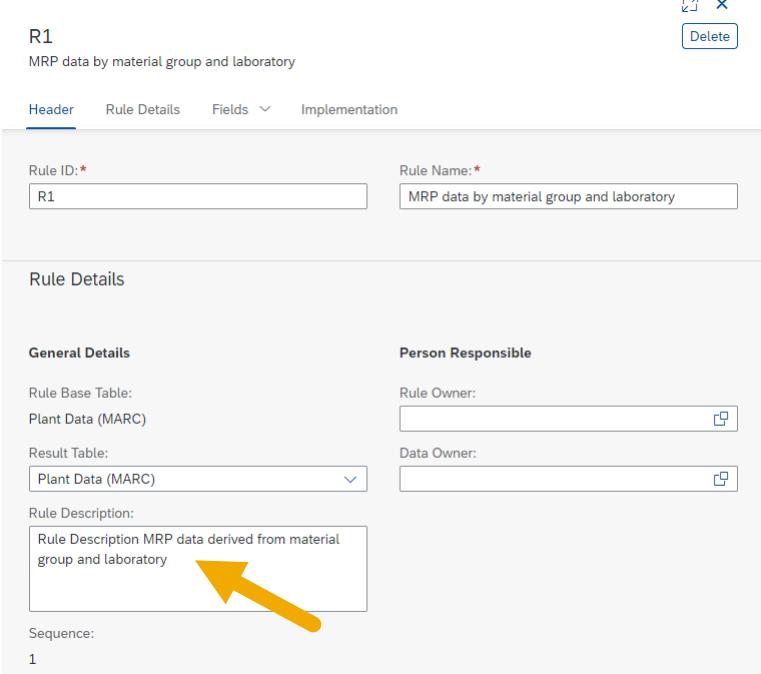
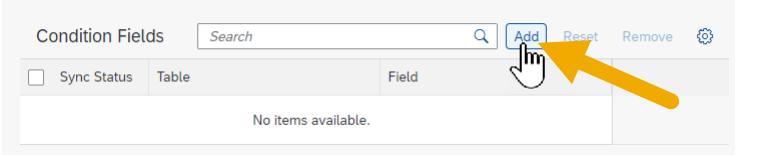
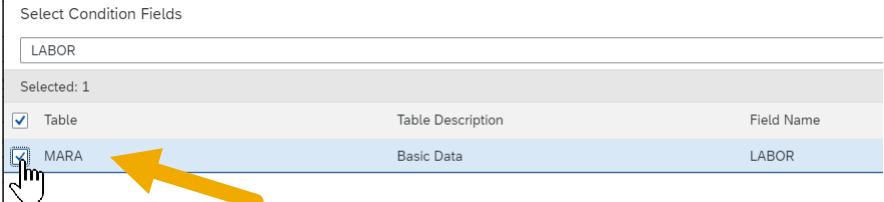
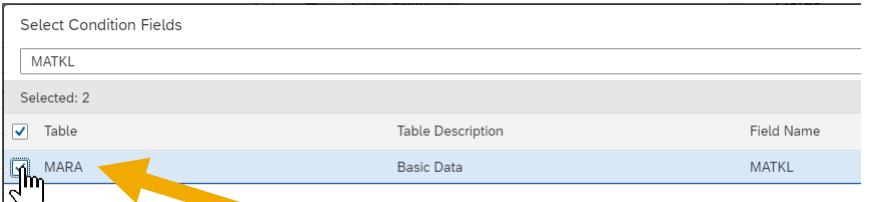
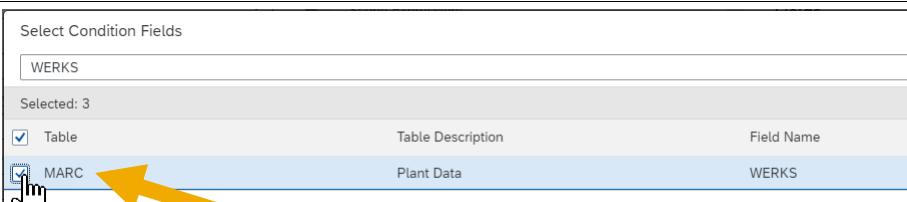
Note: The intention of this example is to provide a very simple derivation scenario that can be used to test your change request implementation.

Step	Explanation	Screenshot
1	Open the SAP Fiori Launchpad and navigate to the <i>Data Quality Management for Products</i> section. Start the <i>Define Derivation Scenarios Products</i> app.	 A screenshot of the SAP Fiori Launchpad. The 'Define Derivation Scenarios Products' app is highlighted with a yellow arrow pointing to its icon. The screen shows various other apps like 'Validation Rules Products', 'Manage Rule Mining Products', 'Process Rules from Rule Mining Products', 'Define Derivation Scenarios Products', 'Data Quality Evaluation... Products', and 'Evaluation Results Products'. A yellow box highlights the 'Score, 21.07.2022' and '13 Errors, 21.07.2022' metrics.
2	Choose <i>Create</i> .	 A screenshot of the 'Define Derivation Scenarios for Products' app. The 'Create' button in the toolbar is highlighted with a yellow arrow. The toolbar also includes 'Standard*', 'Editing Status', 'Status', 'Created By', 'Created On', 'Go', 'Adapt Filters', 'Export', 'Set Execution Sequence', 'Delete', and a search bar.
3	<p>Enter the following data:</p> <ul style="list-style-type: none"> Scenario ID: Z194_PLANT_BY_MARA Scenario Name: Derive plant data from material basic data <p>In the <i>Scenario Base Table</i> dropdown list, select <i>Basic Data (MARA)</i>. In the <i>General Information</i> section, enter the <i>Description</i> MRP-data is derived from material basic data.</p> <p>To narrow down the scope of this derivation scenario, maintain a scope expression. Enter the following <i>Scope Description</i>: Scenario is only applicable when the old material number is Z194_PLANT_BY_MARA. Choose <i>Create</i>.</p>	 A screenshot of the 'Define Derivation Scenarios for Products' app in edit mode. The 'Header' tab is active. The 'Scenario ID' field contains 'Z194_PLANT_BY_MARA' and the 'Scenario Name' field contains 'Derive plant data from material basic data'. In the 'General Information' section, the 'Scenario Base Table' is set to 'Basic Data (MARA)', the 'Description' is 'MRP-data is derived from material basic data', and the 'Scope Details' section contains the scope description 'Scenario is only applicable when the old material number is Z194_PLANT_BY_MARA.' A yellow arrow points to the 'Create' button at the bottom right of the dialog, which is labeled 'Draft updated'.
4	The derivation scenario is now in status <i>New</i> . Choose <i>Send for Implementation</i> .	 A screenshot of the 'Define Derivation Scenarios for Products' app. The 'Send for Implementation' button in the toolbar is highlighted with a yellow arrow. The toolbar includes 'All', 'Search', 'Home', 'Supplier Master', 'Data Quality Management for Business Partners', 'Master Data Administration', 'Consolidation for Product Data', 'Mass Processing for...', 'Define Derivation Scenarios Products', 'Data Quality Evaluation... Products', and 'Evaluation Results Products'.

Step	Explanation	Screenshot
5	The derivation scenario is now in status <i>To Be Implemented</i> . Choose <i>Prepare Scope Expression</i> .	
6	Choose <i>OK</i> to acknowledge that the base table can no longer be changed.	
7	The scope expression is generated. Meanwhile the derivation scenario is in status <i>Generation Running</i> . Wait and choose <i>Refresh</i> .	
8	In the <i>General Information > Scope Details</i> section, select the scope expression link.	

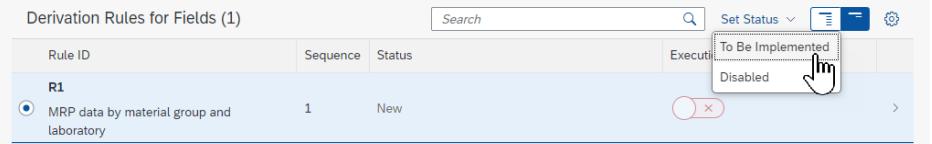
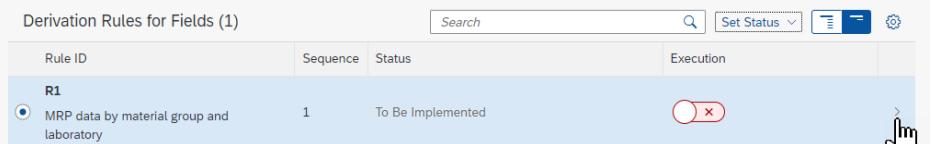
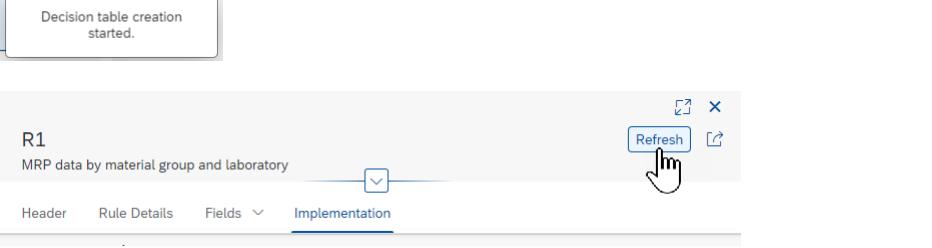
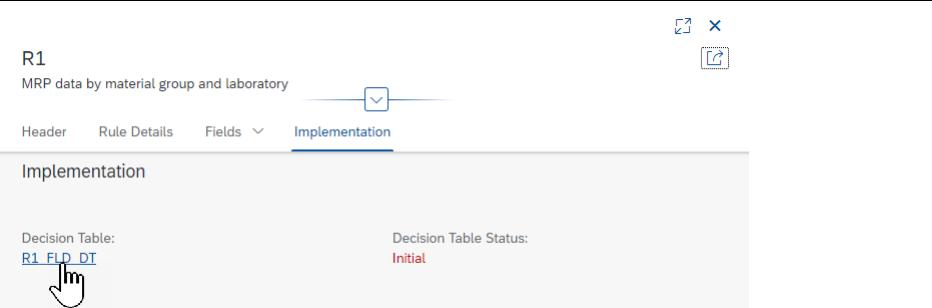
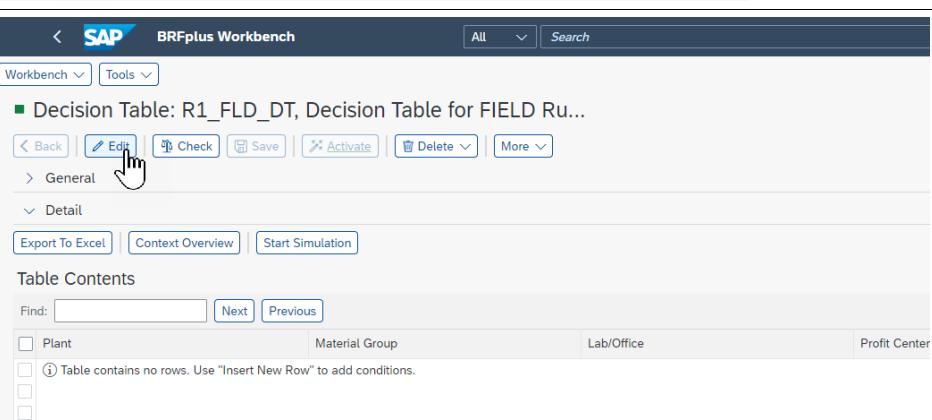
Step	Explanation	Screenshot																								
9	You are navigated to the BRFplus Workbench. The (scope) expression is already displayed. Choose Edit .	<p>Boolean: SCENARIO_SCP</p> <p>If └ False is equal to X (True) Then ▲ In Scope is true, else it is false</p>																								
10	In the <i>Detail</i> section, choose <i>Edit Operand > Use Direct Value Range From > Select Context Parameter.</i>	<p>Boolean: SCENARIO_SCP</p> <p>If └ False is equal to True Change Then ▲ In Scope is true, else it is false</p>																								
11	Under <i>Search Criteria</i> , enter *old* for <i>Text</i> and choose <i>Search</i> .	<p>Context Query</p> <p>Search Criteria Data Object ... is equal to Any Name is equal to * Text is equal to *old* Maximum Number of Results: 200 Search Reset Result list: 200 objects found</p>																								
12	In the result list, select <i>MARA > Old Matl Number</i> .	<p>Result list: 5 objects found</p> <table border="1"> <thead> <tr> <th>Object</th> <th>Status</th> <th>Type</th> <th>Application</th> </tr> </thead> <tbody> <tr> <td>○ Mara Key and Attribute Structure</td> <td>Structure</td> <td>Z194_PLANT_BY_MARA</td> <td></td> </tr> <tr> <td>● Abs. Height Thresh.</td> <td>Quantity</td> <td>Z194_PLANT_BY_MARA</td> <td></td> </tr> <tr> <td>○ Bridge Threshold</td> <td>Number</td> <td>Z194_PLANT_BY_MARA</td> <td></td> </tr> <tr> <td>▲ Old Matl Number</td> <td>Text</td> <td>Z194_PLANT_BY_MARA</td> <td></td> </tr> <tr> <td>○ Overhang Threshold</td> <td>Number</td> <td>Z194_PLANT_BY_MARA</td> <td></td> </tr> </tbody> </table>	Object	Status	Type	Application	○ Mara Key and Attribute Structure	Structure	Z194_PLANT_BY_MARA		● Abs. Height Thresh.	Quantity	Z194_PLANT_BY_MARA		○ Bridge Threshold	Number	Z194_PLANT_BY_MARA		▲ Old Matl Number	Text	Z194_PLANT_BY_MARA		○ Overhang Threshold	Number	Z194_PLANT_BY_MARA	
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13	In the input field right to the operand, enter Z194_PLANT_BY_MARA and choose <i>Activate</i> .	<p>Boolean: SCENARIO_SCP</p> <p>If └ MARA Key...-Old Matl Number is equal to Z194_PLANT_BY_MARA Change Then ▲ In Scope is true, else it is false</p>																								
14	The (scope) expression is saved. Navigate back to the derivation scenario. TODO	<p>BRFplus Workbench</p> <p>Workbench Tools ✓ Objects saved and activated</p>																								

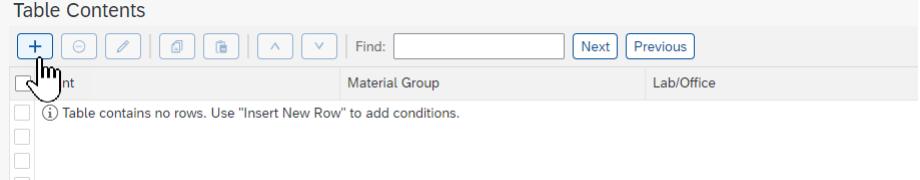
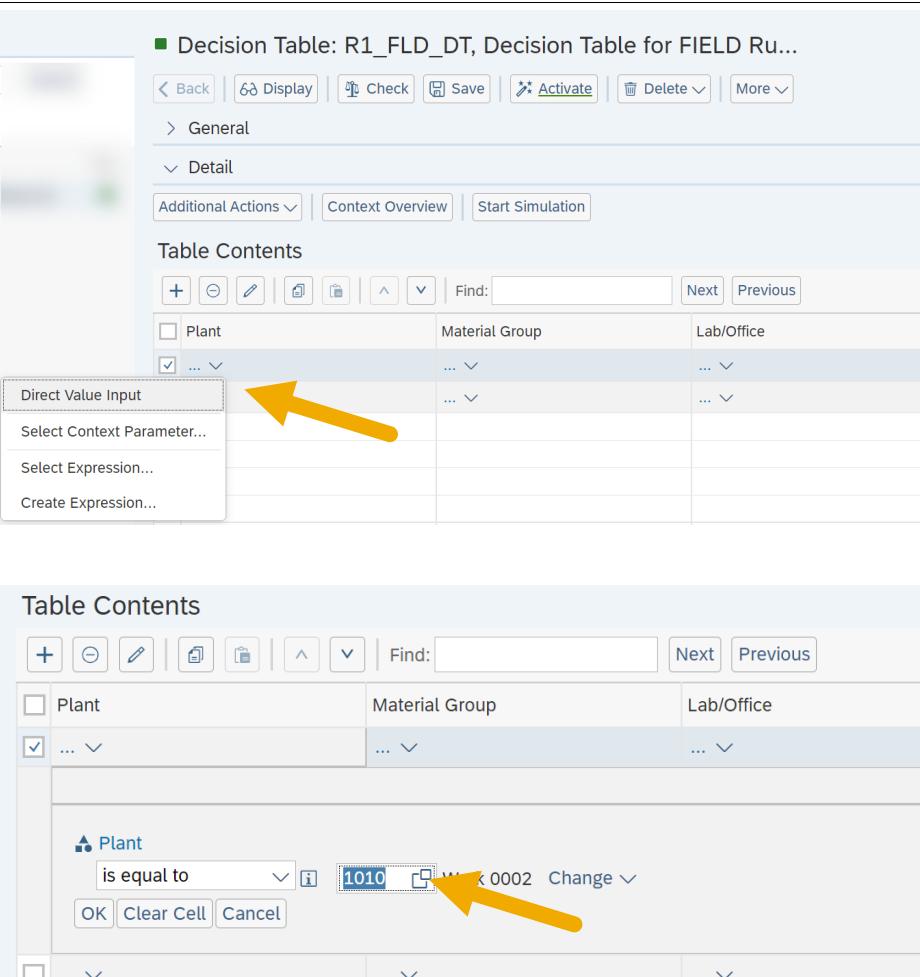
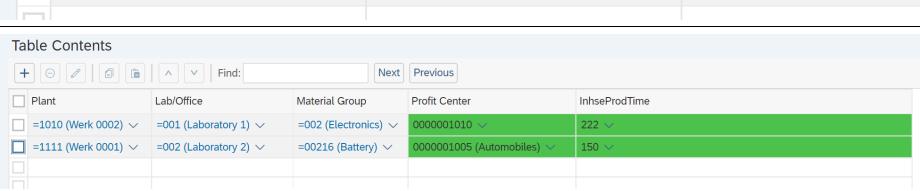
Step	Explanation	Screenshot
15	Back in the derivation scenario, the Scope Status is <i>Active</i> . Choose <i>Edit</i> .	
16	In the <i>Derivation Rules > Derivation Rules for Fields</i> section, choose <i>Create</i> .	
17	Enter R1 as the <i>Rule ID</i> and the <i>Rule Name</i> MRP data by material group and laboratory. As the <i>Result Table</i> , select <i>Plant Data (MARC)</i> .	

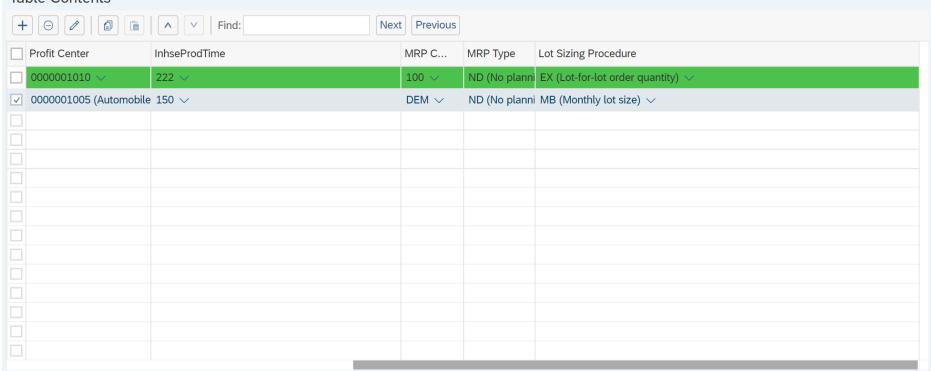
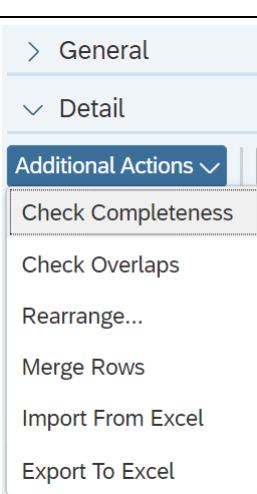
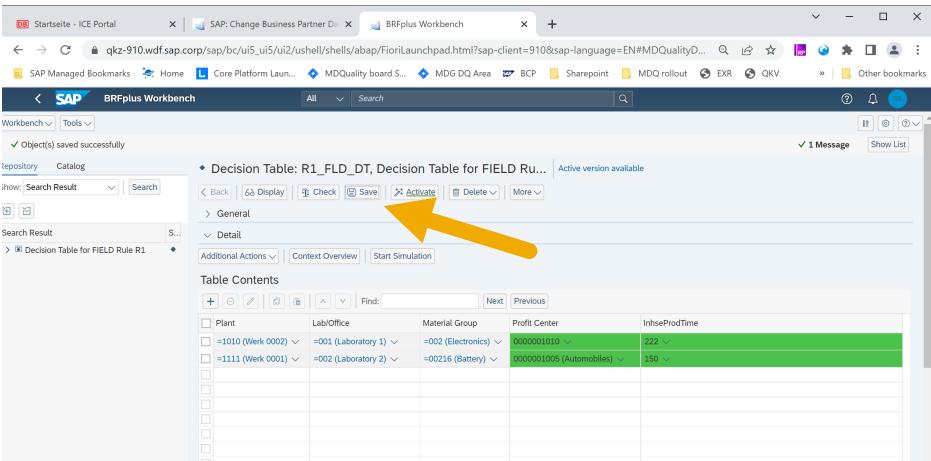
Step	Explanation	Screenshot
18	Enter the <i>Rule Description</i> MRP data derived from material group and laboratory.	
19	In the <i>Fields > Condition Fields</i> section, choose <i>Add</i> .	
20	In the <i>Select Condition Fields</i> popup, enter the search term LABOR and press <i>Enter</i> . Select MARA~LABOR from the result list.	
21	Enter the search term MATKL and press <i>Enter</i> . Select MARA~MATKL from the result list.	
22	Enter the search term WERKS and press <i>Enter</i> . Select MARC~WERKS from the result list.	

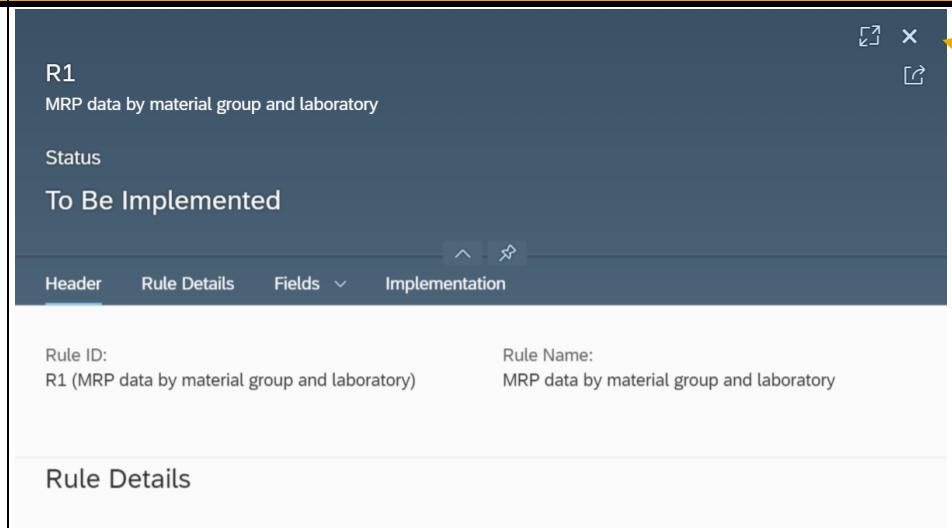
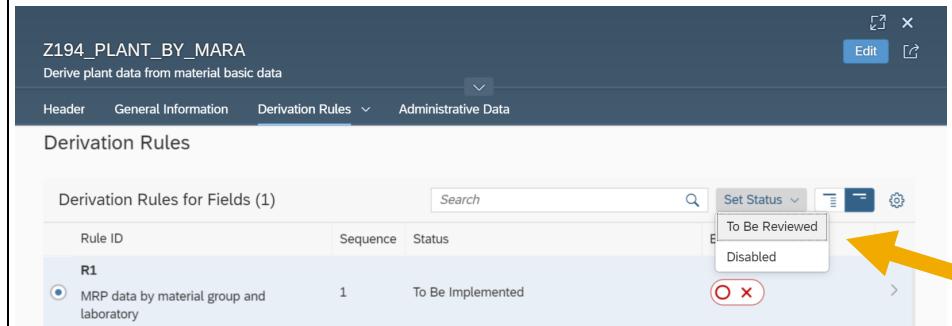
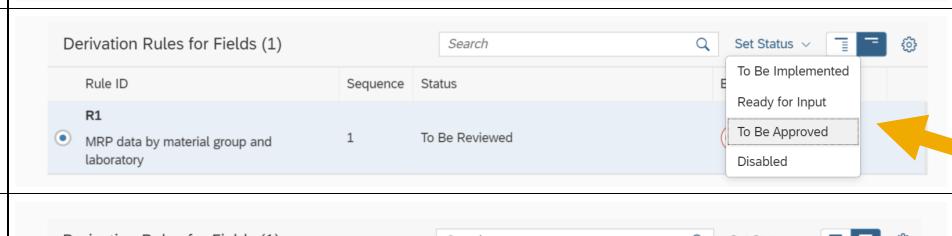
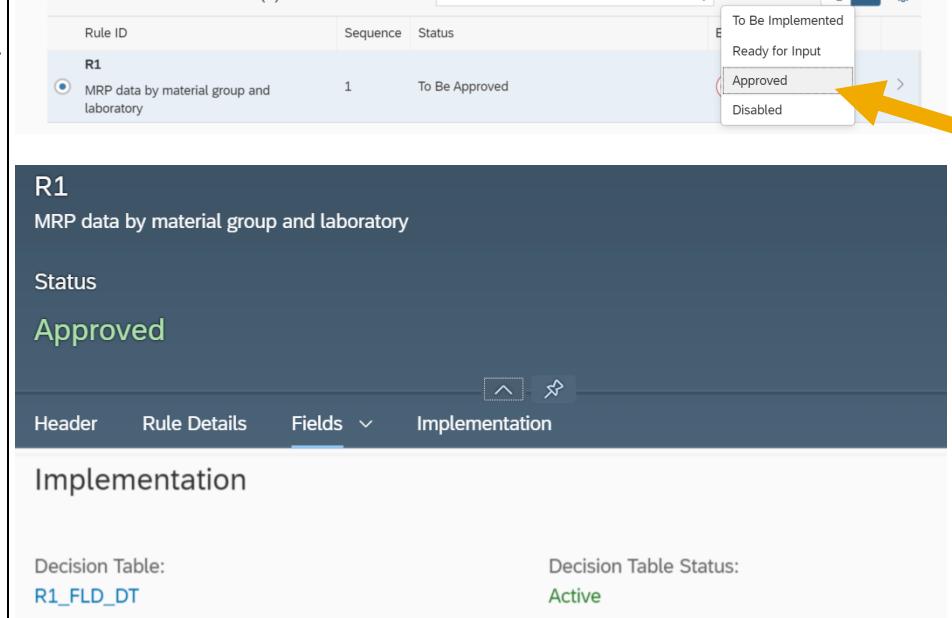
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23	Choose <i>Select</i> .	<p>Select Condition Fields</p> <table border="1"> <thead> <tr> <th>WERKS</th> <th>Table Description</th> <th>Field Name</th> <th>Field Description</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Table</td> <td>Plant Data</td> <td>WERKS</td> <td>Plant</td> </tr> <tr> <td><input checked="" type="checkbox"/> MARC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>  <p>Select Cancel</p>	WERKS	Table Description	Field Name	Field Description	<input checked="" type="checkbox"/> Table	Plant Data	WERKS	Plant	<input checked="" type="checkbox"/> MARC			
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<input checked="" type="checkbox"/> Table	Plant Data	WERKS	Plant											
<input checked="" type="checkbox"/> MARC														
24	All three selected fields are transferred to the <i>Condition Fields</i> .	<p>Condition Fields (3)</p> <table border="1"> <thead> <tr> <th>Sync Status</th> <th>Table</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>MARA</td> <td>LABOR</td> </tr> <tr> <td><input type="checkbox"/></td> <td>MARA</td> <td>MATKL</td> </tr> <tr> <td><input type="checkbox"/></td> <td>MARC</td> <td>WERKS</td> </tr> </tbody> </table>	Sync Status	Table	Field	<input type="checkbox"/>	MARA	LABOR	<input type="checkbox"/>	MARA	MATKL	<input type="checkbox"/>	MARC	WERKS
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<input type="checkbox"/>	MARA	MATKL												
<input type="checkbox"/>	MARC	WERKS												
25	In the <i>Fields > Result Fields</i> section, choose <i>Add</i> .	<p>Result Fields</p> <table border="1"> <thead> <tr> <th>Sync Status</th> <th>Table</th> <th>Field</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> </tbody> </table> <p>No items available.</p>	Sync Status	Table	Field	<input type="checkbox"/>								
Sync Status	Table	Field												
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26	In the <i>Select Result Fields</i> popup, enter the search term DISLS and press <i>Enter</i> . Select MARC~DISLS (<i>Lot Sizing Procedure in Materials Planning</i>) from the result list.	<p>Select Result Fields</p> <table border="1"> <thead> <tr> <th>DISLS</th> <th>Table Description</th> <th>Field Name</th> <th>Field Description</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Table</td> <td>Plant Data</td> <td>DISLS</td> <td>Lot Sizing Procedure in Materials Planning</td> </tr> <tr> <td><input checked="" type="checkbox"/> MARC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DISLS	Table Description	Field Name	Field Description	<input checked="" type="checkbox"/> Table	Plant Data	DISLS	Lot Sizing Procedure in Materials Planning	<input checked="" type="checkbox"/> MARC			
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<input checked="" type="checkbox"/> Table	Plant Data	DISLS	Lot Sizing Procedure in Materials Planning											
<input checked="" type="checkbox"/> MARC														
27	In the <i>Select Result Fields</i> popup, enter the search term DISMM and press <i>Enter</i> . Select MARC~DISMM (<i>MRP Type</i>) from the result list.	<p>Select Result Fields</p> <table border="1"> <thead> <tr> <th>DISMM</th> <th>Table Description</th> <th>Field Name</th> <th>Field Description</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Table</td> <td>Plant Data</td> <td>DISMM</td> <td>MRP Type</td> </tr> <tr> <td><input checked="" type="checkbox"/> MARC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DISMM	Table Description	Field Name	Field Description	<input checked="" type="checkbox"/> Table	Plant Data	DISMM	MRP Type	<input checked="" type="checkbox"/> MARC			
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28	In the <i>Select Result Fields</i> popup, enter the search term DISPO and press <i>Enter</i> . Select MARC~DISPO (<i>MRP Controller</i>) from the result list.	<p>Select Result Fields</p> <table border="1"> <thead> <tr> <th>DISPO</th> <th>Table Description</th> <th>Field Name</th> <th>Field Description</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Table</td> <td>Plant Data</td> <td>DISPO</td> <td>MRP Controller</td> </tr> <tr> <td><input checked="" type="checkbox"/> MARC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DISPO	Table Description	Field Name	Field Description	<input checked="" type="checkbox"/> Table	Plant Data	DISPO	MRP Controller	<input checked="" type="checkbox"/> MARC			
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29	In the <i>Select Result Fields</i> popup, enter the search term DZEIT and press <i>Enter</i> . Select MARC~DZEIT (<i>In-house production time</i>) from the result list.	<p>Select Result Fields</p> <table border="1"> <thead> <tr> <th>DZEIT</th> <th>Table Description</th> <th>Field Name</th> <th>Field Description</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Table</td> <td>Plant Data</td> <td>DZEIT</td> <td>In-house production time</td> </tr> <tr> <td><input checked="" type="checkbox"/> MARC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DZEIT	Table Description	Field Name	Field Description	<input checked="" type="checkbox"/> Table	Plant Data	DZEIT	In-house production time	<input checked="" type="checkbox"/> MARC			
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<input checked="" type="checkbox"/> Table	Plant Data	DZEIT	In-house production time											
<input checked="" type="checkbox"/> MARC														

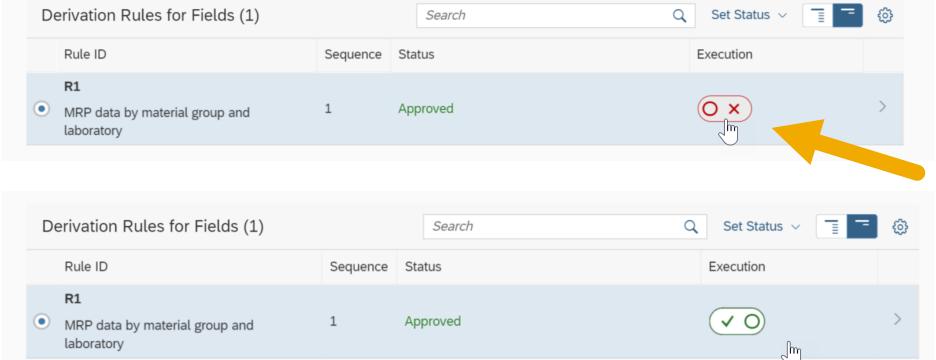
Step	Explanation	Screenshot
30	In the <i>Select Result Fields</i> popup, enter the search term PRCTR and press <i>Enter</i> . Select MARC~PRCTR (<i>Profit Center</i>) from the result list.	
31	Choose <i>Select</i> .	
32	All five selected fields are transferred to the <i>Result Fields</i> .	
33	Choose <i>Apply</i> .	
34	You are directed back to the derivation scenario. Choose <i>Save</i> .	

Step	Explanation	Screenshot
35	Select the rule with the ID <i>R1</i> and choose <i>Set Status</i> > <i>To Be Implemented</i> .	
36	Navigate to the details of this rule.	
37	In the <i>Implementation</i> section, choose <i>Create Decision Tables</i> .	
38	You are informed that the decision table creation started. Choose <i>Refresh</i> .	
39	Click the link to the decision table.	
40	The BRFplus Workbench is displayed. Choose <i>Edit</i> .	

Step	Explanation	Screenshot
41	Insert two new rows by choosing the plus button twice.	
42	For the <i>Plant</i> use the <i>Direct Value Input</i> and enter 1010. Choose OK. Note: The entered values are examples only.	
43	Correspondingly, fill in the values for the other fields (see table on the right). Note: The green columns show fields, the other columns define the conditions.	

Step	Explanation	Screenshot
44	Note: To access columns that are initially not visible, use the cursor at the bottom	
45	Note: Decision tables can be maintained using the <i>Import From Excel</i> function.	
46	Choose Save when you have entered all your data.	
47	Navigate back to the <i>Define Derivation Scenarios</i> app.	

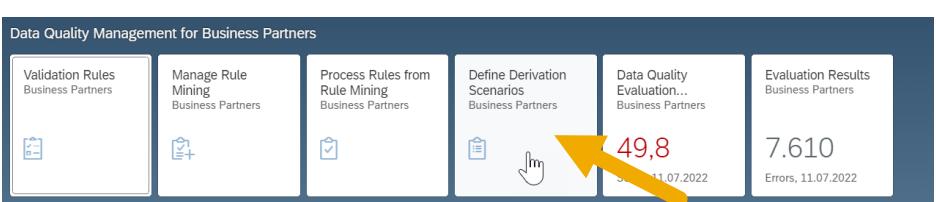
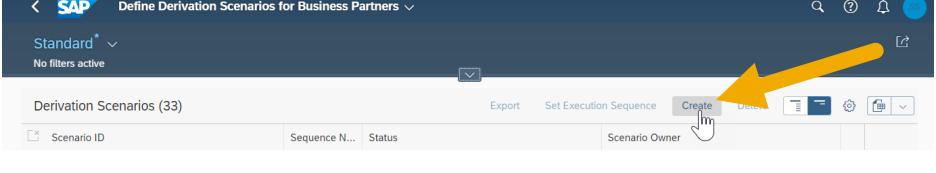
Step	Explanation	Screenshot
48	Back on the page of the derivation rule <i>R1</i> , close the subscreen.	
49	Select the derivation rule <i>R1</i> and set the status to <i>To Be Reviewed</i> . Note: These changes of statuses would typically be done by different persons being involved in the setup of a derivation rule.	
50	Then, change the status of the rule to <i>To Be Approved</i> .	
51	Then, change the status of the rule to <i>Approved</i> . Now, all BRFplus artefacts of derivation rule <i>R1</i> are active.	

Step	Explanation	Screenshot
52	<p>In the column <i>Execution</i>, set the execution switch to <i>On</i>.</p> <p>Now, the derivation rule <i>R1</i> will be executed in all MDG processes where derivation scenarios are applied.</p>	

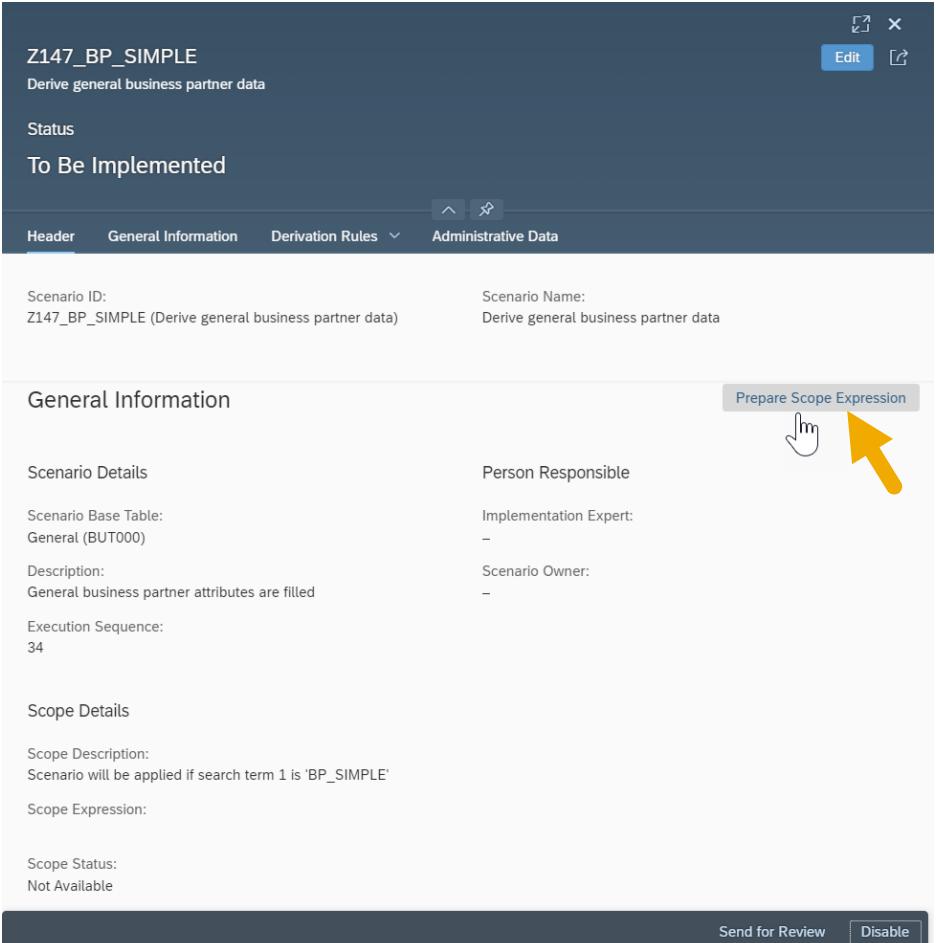
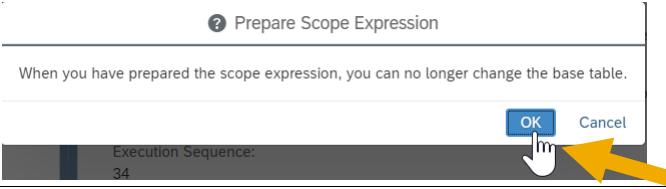
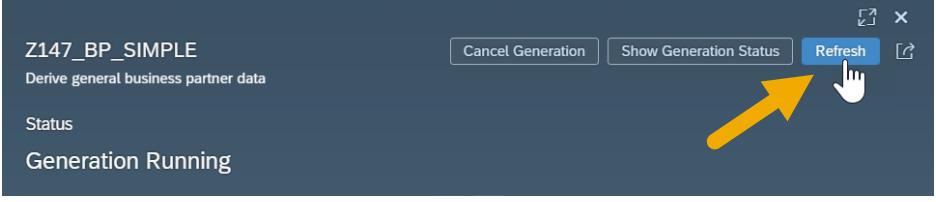
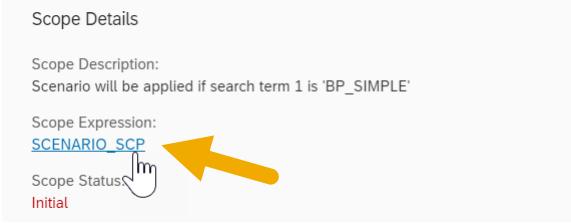
4.3.2. Example Derivation Scenario for Business Partners

In this chapter, a simple derivation scenario for business partners is created. The derivation scenario derives values for the search terms in the general business partner data depending on the correspondence language.

Note: The intention of this example is to provide a very simple derivation scenario that can be used to test your change request implementation.

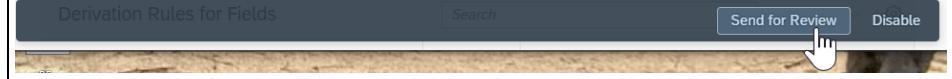
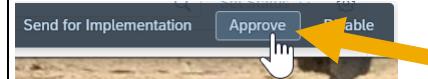
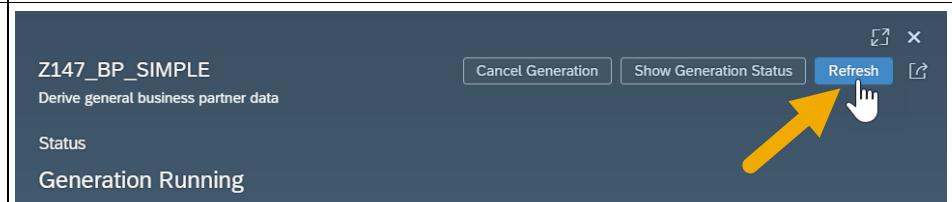
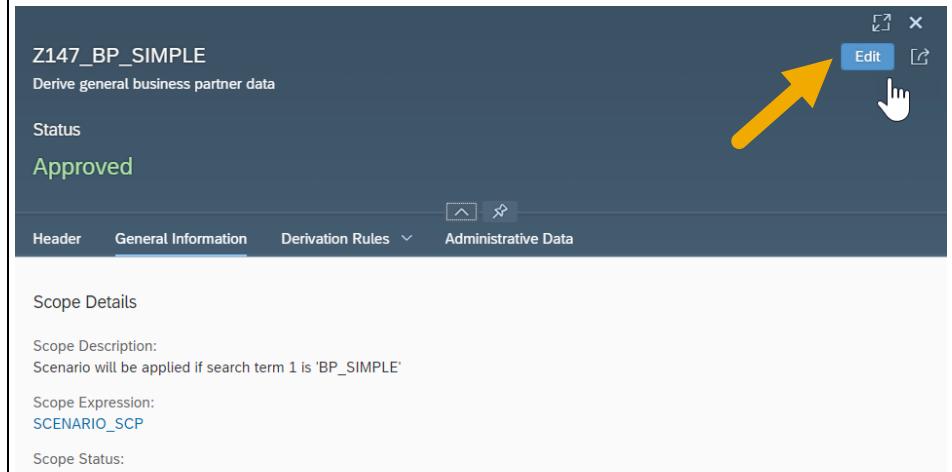
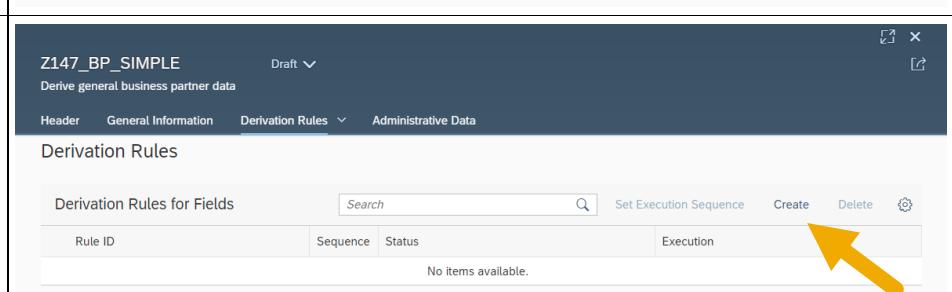
Step	Explanation	Screenshot
1	<p>Open the SAP Fiori Launchpad and navigate to the <i>Data Quality Management for Business Partners</i> section. Start the <i>Define Derivation Scenarios Business Partners</i> app.</p>	
2	Choose <i>Create</i> .	

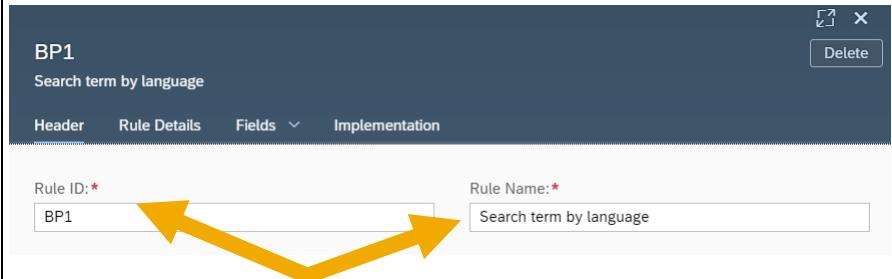
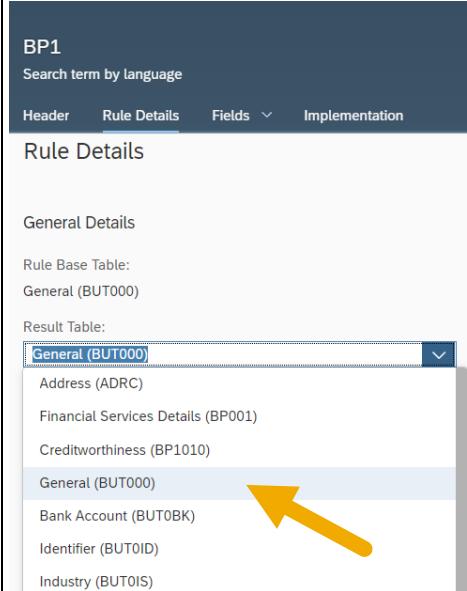
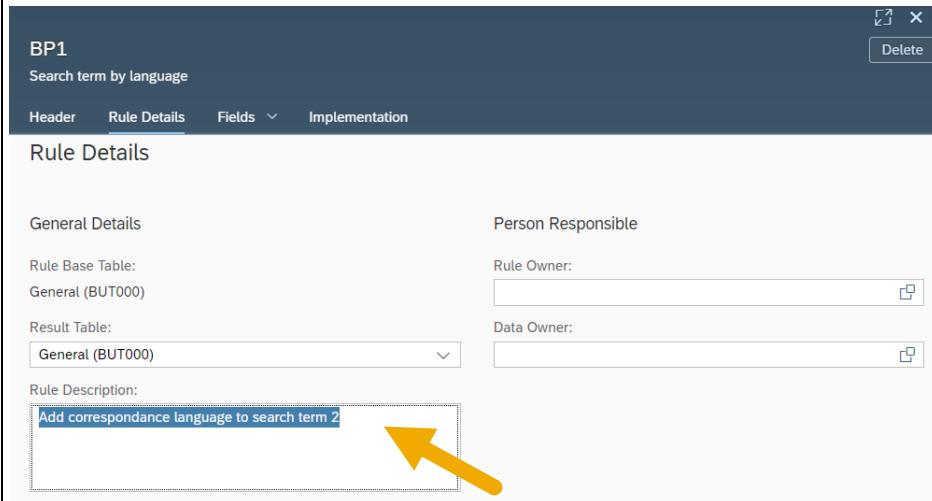
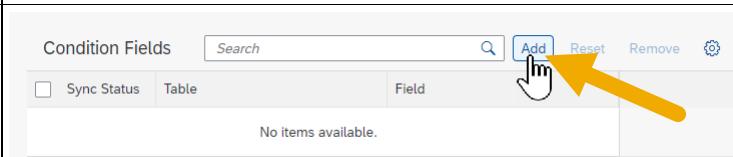
Step	Explanation	Screenshot
3	<p>Enter the following data:</p> <ul style="list-style-type: none"> • Scenario ID: Z147_BP_simple • Scenario Name: Derive general business partner data <p>In the Scenario Base Table dropdown list, select General (BUT000). In the General Information section, enter the Description General business partner attributes are filled.</p> <p>To narrow down the scope of a derivation scenario, maintain the scope expression. Enter the following Scope Description: Scenario will be applied if search term 1 is 'BP_SIMPLE'. Choose Create.</p>	
4	The derivation scenario is now in status New . Choose Send for Implementation .	

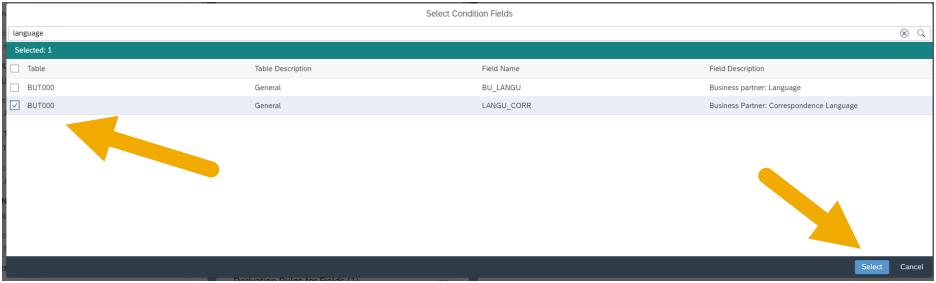
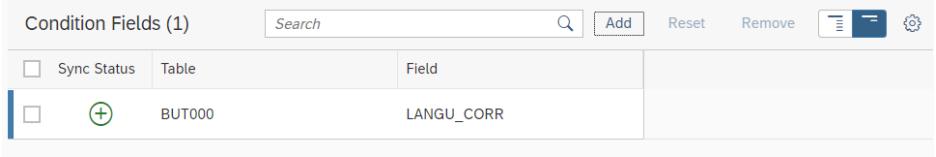
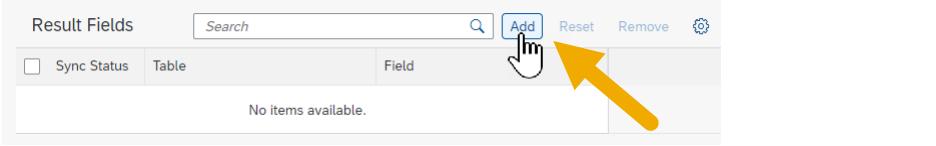
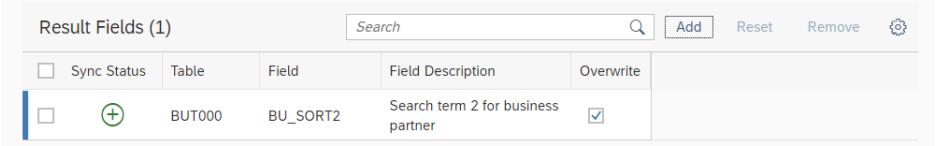
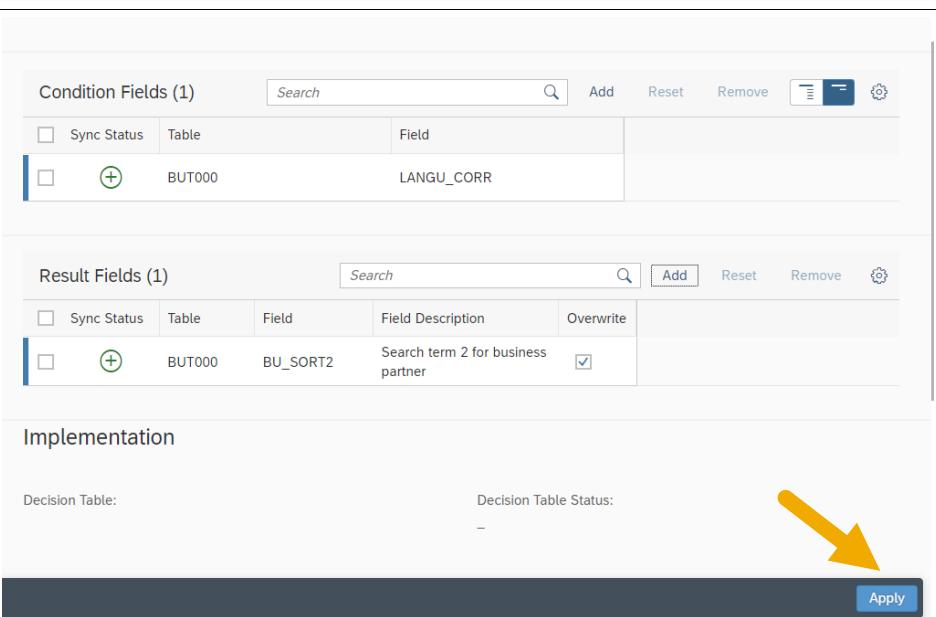
Step	Explanation	Screenshot
5	The derivation scenario is now in status <i>To Be Implemented</i> . Choose <i>Prepare Scope Expression</i> .	 <p>Z147_BP_SIMPLE Derive general business partner data</p> <p>Status To Be Implemented</p> <p>Header General Information Derivation Rules ▾ Administrative Data</p> <p>Scenario ID: Z147_BP_SIMPLE (Derive general business partner data) Scenario Name: Derive general business partner data</p> <p>General Information</p> <p>Scenario Details Person Responsible Scenario Base Table: General (BUT000) Implementation Expert: Description: General business partner attributes are filled Scenario Owner: Execution Sequence: 34</p> <p>Scope Details Scope Description: Scenario will be applied if search term 1 is 'BP_SIMPLE' Scope Expression: Scope Status: Not Available</p> <p>Send for Review Disable</p>
6	Choose <i>OK</i> to acknowledge that the base table can no longer be changed.	 <p>② Prepare Scope Expression</p> <p>When you have prepared the scope expression, you can no longer change the base table.</p> <p>Execution Sequence: 34</p> <p>OK Cancel</p>
7	The scope expression is generated. Meanwhile the derivation scenario is in status <i>Generation Running</i> . Wait and choose <i>Refresh</i> .	 <p>Z147_BP_SIMPLE Derive general business partner data</p> <p>Status Generation Running</p> <p>Cancel Generation Show Generation Status Refresh</p>
8	In the <i>General Information > Scope Details</i> section, select the scope expression link.	 <p>Scope Details</p> <p>Scope Description: Scenario will be applied if search term 1 is 'BP_SIMPLE'</p> <p>Scope Expression: SCENARIO_SCP</p> <p>Scope Status: Initial</p>

Step	Explanation	Screenshot																																												
9	<p>You are navigated to the BRFplus Workbench. The scenarios' scope expression is already displayed. Press Edit.</p> <p>Note: For each derivation scenario, a BRFplus application is created, which you find in the repository on the left. In our example it is the application Z147_BP_SIMPLE. If you choose Context Overview, you see the context objects that are automatically provided. In our example, all fields of table BUT000 and the fields of the <i>Derivation Context</i> are provided.</p>	<p>The screenshot shows the SAP BRFplus Workbench interface. On the left, there's a tree view of 'My Applications' containing various BRFplus applications like HELLOWORLD, MDO147_CLASSIFICATION, etc. A specific application, 'Z147_BP_SIMPLE', is selected and highlighted with a yellow box. On the right, the details for a 'Boolean: SCENARIO_SCP' scenario are shown. The 'General' tab is selected. Below it, the 'Detail' section contains a 'Context Overview' button, which is also highlighted with a yellow box. The logic schema is defined as follows:</p> <pre> Boolean Logic Schema: <1> If False is equal to X (True) Then ▲ In Scope is true, else it is false </pre> <p>A modal dialog box titled 'Context Objects Overview' is displayed. It shows a table of context objects for the Boolean scenario 'SCENARIO_SCP'. The table has columns: Context Object, Context Type, Source Object, and Source Type. The data is as follows:</p> <table border="1"> <thead> <tr> <th>Context Object</th> <th>Context Type</th> <th>Source Object</th> <th>Source Type</th> </tr> </thead> <tbody> <tr> <td>> BUT000 Key and Attribute Structure</td> <td>Structure</td> <td>▲ SCENARIO_SCOPE_FC</td> <td>Function Context</td> </tr> <tr> <td>Derivation Context</td> <td>Structure</td> <td>▲ SCENARIO_SCOPE_FC</td> <td>Function Context</td> </tr> <tr> <td> Bus. Obj. Type</td> <td>Element (Text)</td> <td></td> <td></td> </tr> <tr> <td> Usage</td> <td>Element (Text)</td> <td></td> <td></td> </tr> <tr> <td> Stage</td> <td>Element (Text)</td> <td></td> <td></td> </tr> <tr> <td> Purpose</td> <td>Element (Text)</td> <td></td> <td></td> </tr> <tr> <td> Process ID</td> <td>Element (Text)</td> <td></td> <td></td> </tr> <tr> <td> Step Number</td> <td>Element (Text)</td> <td></td> <td></td> </tr> <tr> <td> Process Template</td> <td>Element (Text)</td> <td></td> <td></td> </tr> <tr> <td> Change Request</td> <td>Element (Text)</td> <td></td> <td></td> </tr> </tbody> </table>	Context Object	Context Type	Source Object	Source Type	> BUT000 Key and Attribute Structure	Structure	▲ SCENARIO_SCOPE_FC	Function Context	Derivation Context	Structure	▲ SCENARIO_SCOPE_FC	Function Context	Bus. Obj. Type	Element (Text)			Usage	Element (Text)			Stage	Element (Text)			Purpose	Element (Text)			Process ID	Element (Text)			Step Number	Element (Text)			Process Template	Element (Text)			Change Request	Element (Text)		
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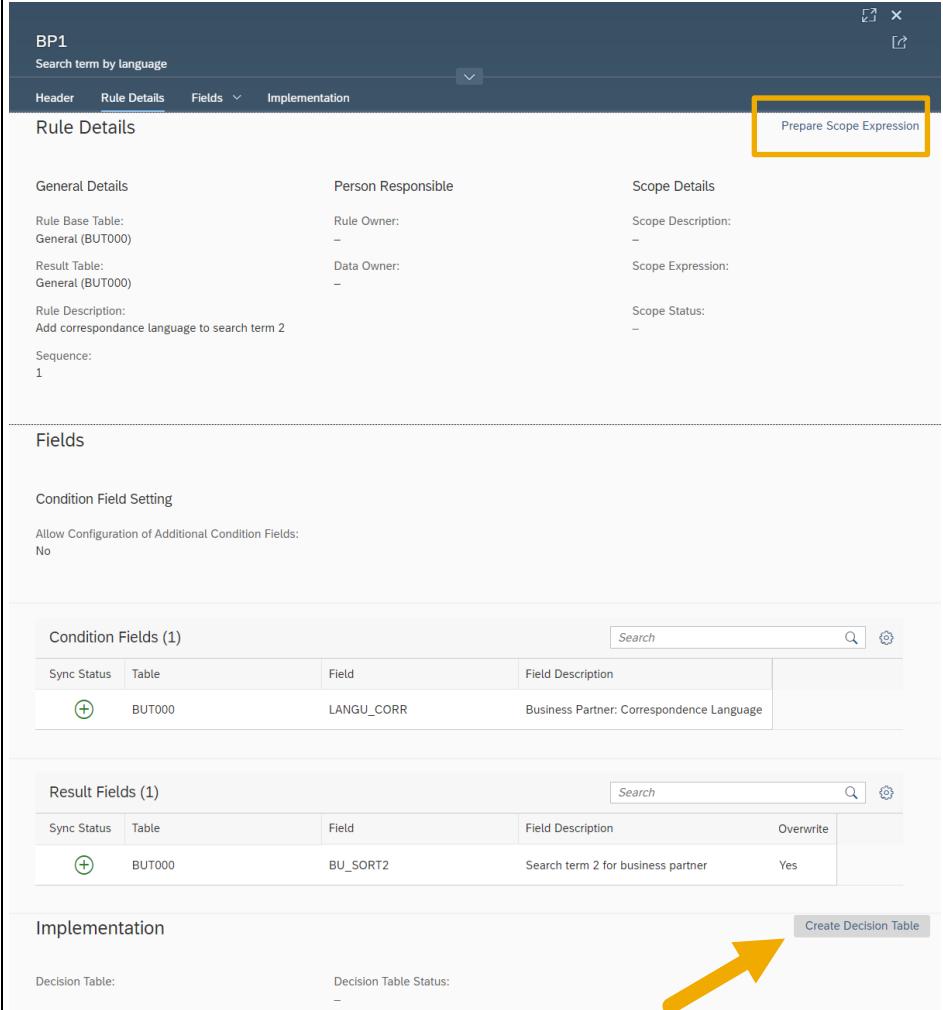
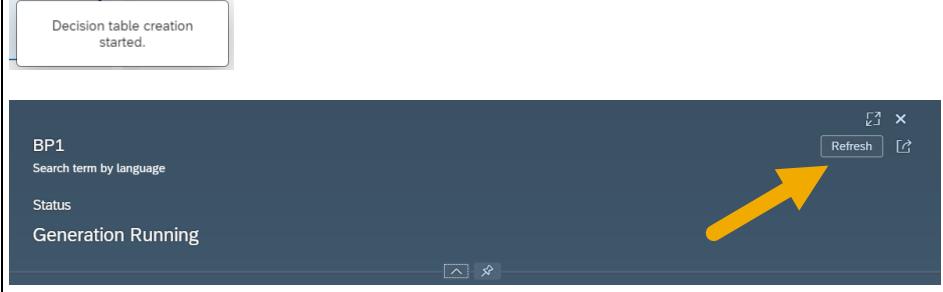
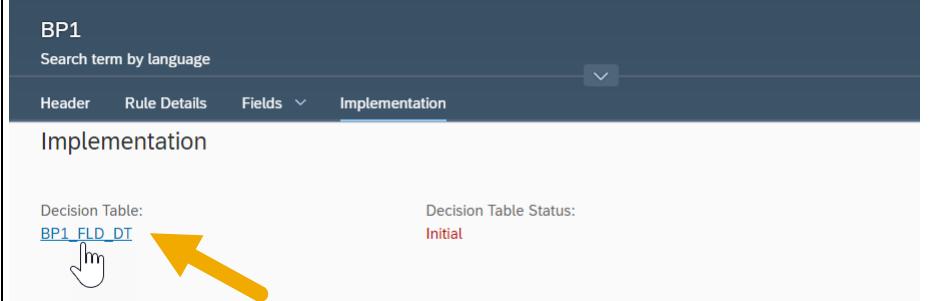
Step	Explanation	Screenshot																
10	In the <i>Detail</i> section, choose <i>Edit Operand > Use Direct Value Range From > Select Context Parameter.</i>	<p>Boolean: SCENARIO_SCP</p> <p>If ↳ False is equal to True Change Edit Operand</p> <p>Then ▲ In Scope is true, else it is false</p> <p>Use Direct Value Range From... > Select Context Parameter... (highlighted)</p> <p>Select Operand... > Default Objects</p> <p>Create Expression... > Select Expression...</p> <p>Remove Operand</p>																
11	Under <i>Search Criteria</i> , enter *Search* for <i>Text</i> and choose <i>Search</i> .	<p>Context Query</p> <p>Search Criteria</p> <p>Data Object ... is equal to Any + Name is equal to * + Text is equal to * "Search"</p> <p>Maximum Number of Results: 200</p> <p>Search (highlighted)</p> <p>Results: 121 objects found</p>																
12	In the result list, select <i>Search term 1</i> and choose <i>Ok</i> .	<p>Result list: 3 objects found</p> <table border="1"> <thead> <tr> <th>Object</th> <th>Status</th> <th>Type</th> <th>Application</th> </tr> </thead> <tbody> <tr> <td>↳ BUT000 Key and Attribute Structure</td> <td>Structure</td> <td>Z147_BP_SIMPLE</td> <td></td> </tr> <tr> <td>↳ ▲ Search term 1</td> <td>Text</td> <td>Z147_BP_SIMPLE</td> <td></td> </tr> <tr> <td>↳ ▲ Search term 2</td> <td>Text</td> <td>Z147_BP_SIMPLE</td> <td></td> </tr> </tbody> </table> <p>Ok Cancel</p>	Object	Status	Type	Application	↳ BUT000 Key and Attribute Structure	Structure	Z147_BP_SIMPLE		↳ ▲ Search term 1	Text	Z147_BP_SIMPLE		↳ ▲ Search term 2	Text	Z147_BP_SIMPLE	
Object	Status	Type	Application															
↳ BUT000 Key and Attribute Structure	Structure	Z147_BP_SIMPLE																
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↳ ▲ Search term 2	Text	Z147_BP_SIMPLE																
13	In the input field to the right of the operand, enter BP_SIMPLE and choose Save.	<p>Boolean: SCENARIO_SCP</p> <p>If ↳ BUT000 K...-Search term 1 is equal to BP_SIMPLE Change Edit Operand</p> <p>Then ▲ In Scope is true, else it is false</p> <p>Workbench (highlighted)</p>																
14	The (scope) expression is saved. Navigate back to the derivation scenario.	<p>Object(s) saved successfully</p>																

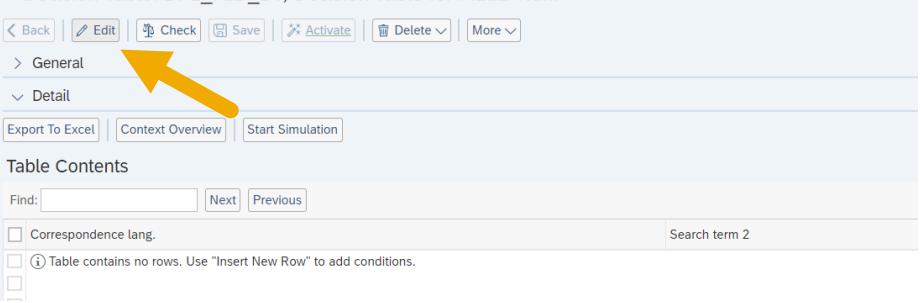
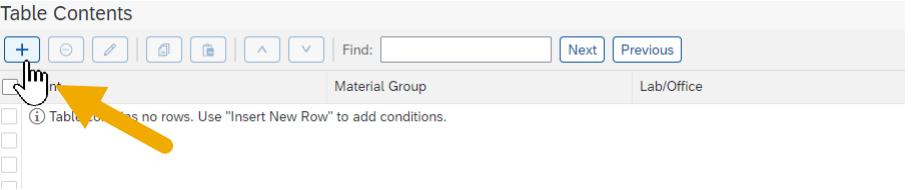
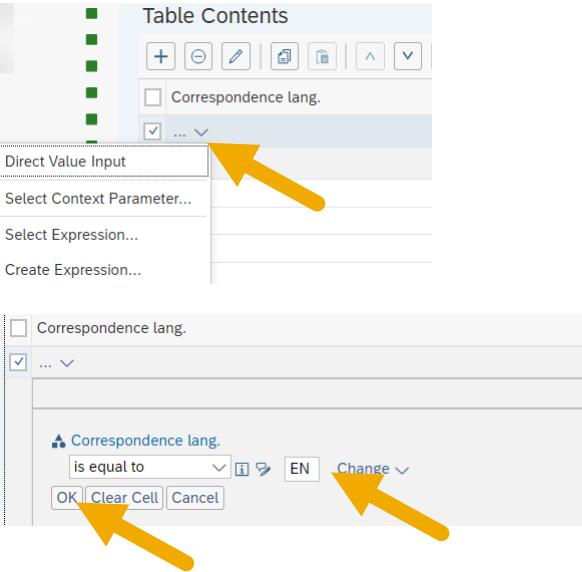
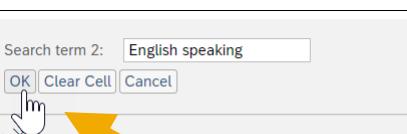
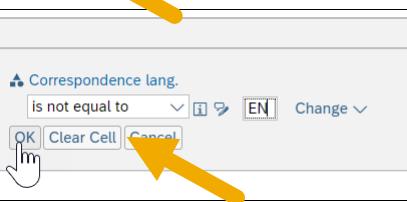
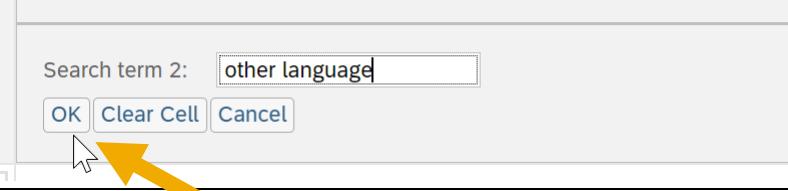
Step	Explanation	Screenshot
15	<p>Back in the derivation scenario, the Scope Status is <i>Inactive Changes</i>. Change the scenario status to <i>To Be Reviewed</i> by choosing <i>Send for Review</i>.</p> <p>Note: The status management allows a 4-eye principle. With the approval of the scenario the scope expression will be activated in BRFplus.</p>	<p>Scope Details</p> <p>Scope Description: Scenario will be applied if search term 1 is 'BP_SIMPLE'</p> <p>Scope Expression: SCENARIO_SCP</p> <p>Scope Status: Inactive Changes</p> <p>Derivation Rules</p> 
	Choose <i>Approve</i> .	
	The scope expression is activated. Meanwhile the derivation scenario is in status <i>Generation Running</i> . Wait and choose <i>Refresh</i> .	
	The derivation scenario is now in status <i>Approved</i> . The scope expression is in status <i>Active</i> . Choose <i>Edit</i> .	
16	In the <i>Derivation Rules > Derivation Rules for Fields</i> section, choose <i>Create</i> .	

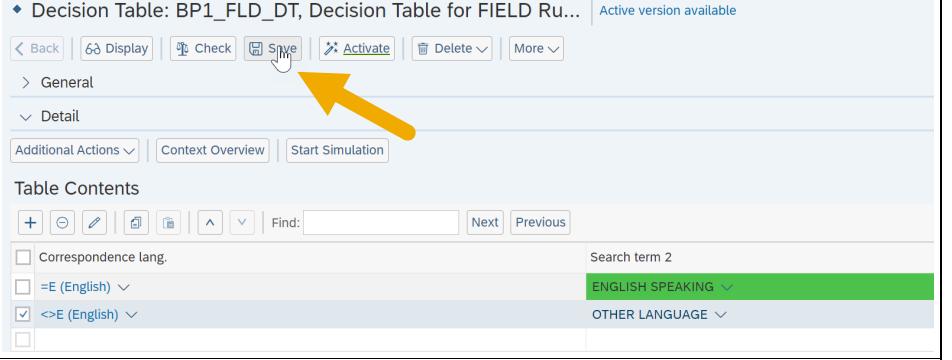
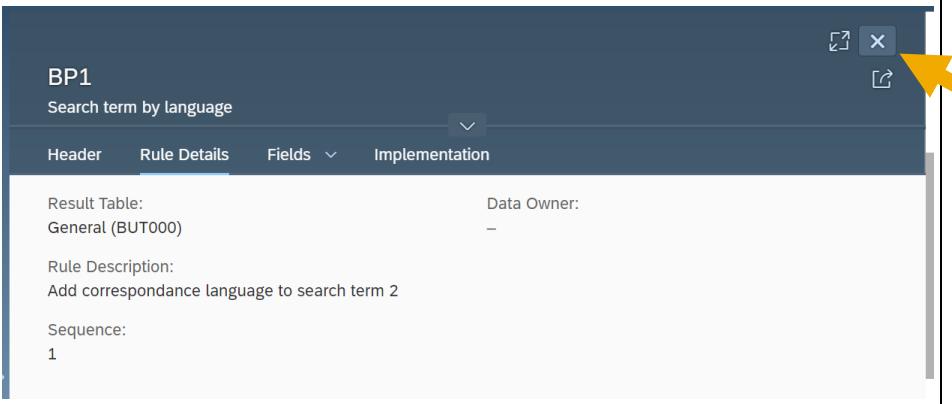
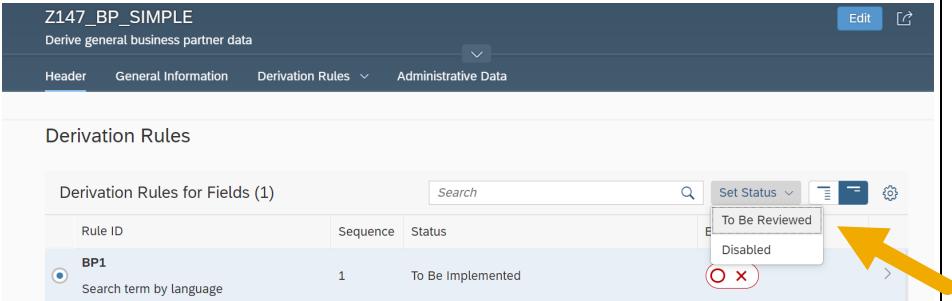
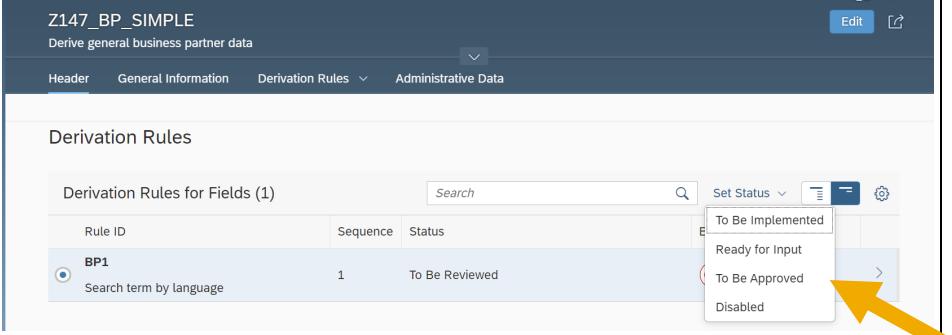
Step	Explanation	Screenshot
17	Enter BP1 as the <i>Rule</i> and the <i>Rule Name Search</i> term by language.	
18	<p>As the <i>Result Table</i>, select <i>General (BUT000)</i>.</p> <p>Enter the <i>Rule Description</i> Add correspondence language to search term 2.</p> <p>The derivation rule <i>BP1</i> should work as follows: If the correspondence language is <i>DE</i> (German), search term 2 shall be filled with “Deutscher Kontakt”. For all other correspondence languages, the existing search term 2 shall be extended by “_OTHERS”.</p>	 
19	In the <i>Fields > Condition Fields</i> section, choose <i>Add</i> .	

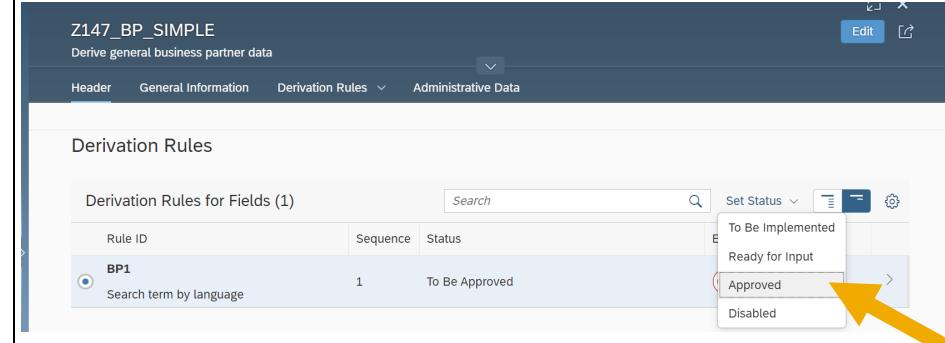
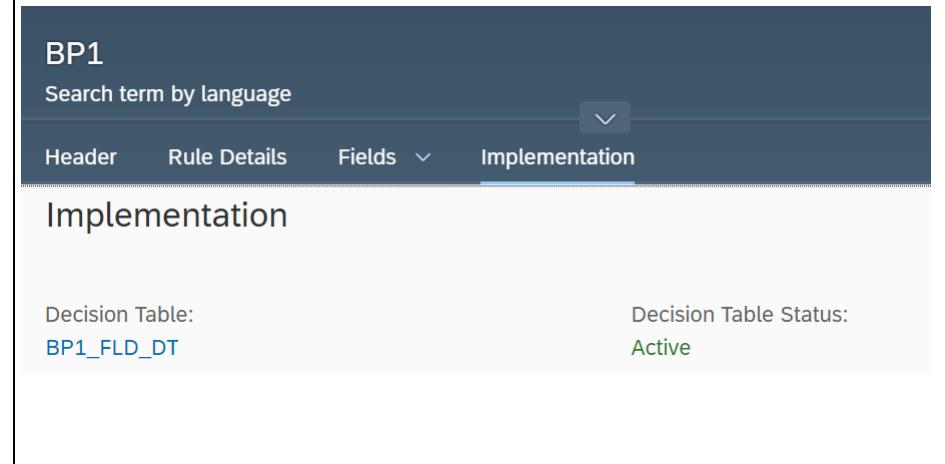
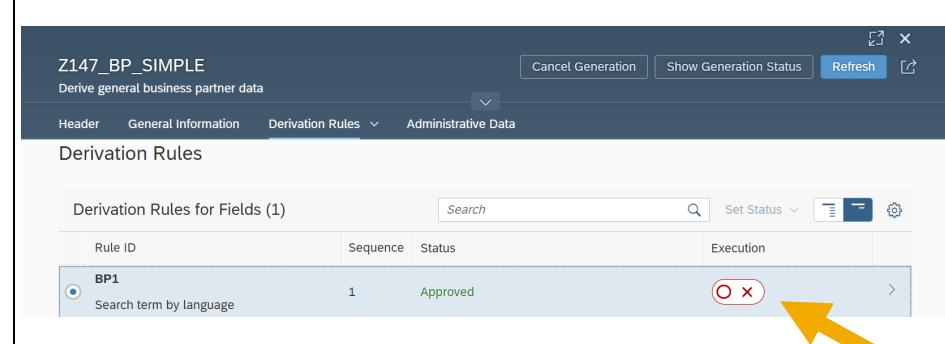
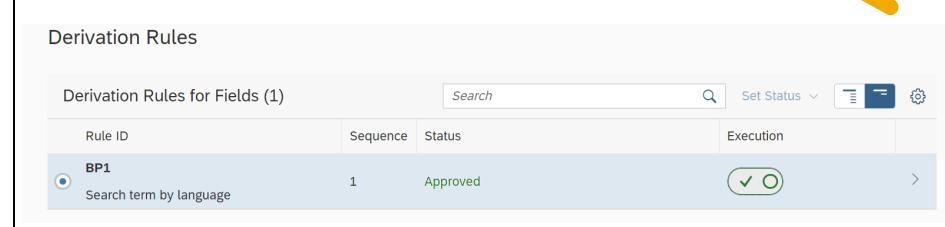
Step	Explanation	Screenshot
20	In the <i>Select Condition Fields</i> popup, enter the search term <i>language</i> and press <i>Enter</i> . Select <i>BUT000-LANGU_CORR</i> (<i>Business Partner: Correspondence Language</i>) from the result list. Choose <i>Select</i> .	
21	The selected field is transferred to the <i>Condition Fields</i> .	
22	In the <i>Fields > Result Fields</i> section, choose <i>Add</i> .	
23	In the <i>Select Result Fields</i> popup, enter the search term <i>SORT2</i> and press <i>Enter</i> . Select <i>BUT000-SORT2</i> (<i>Search term 2 for business partners</i>) from the result list.	
24	All selected fields are transferred to the <i>Result Fields</i> .	
25	Choose <i>Apply</i> .	

Step	Explanation	Screenshot																		
26	You are navigated back to the derivation scenario. Choose Save.	<p>Derivation Rules</p> <p>Derivation Rules for Fields (1)</p> <table border="1"> <thead> <tr> <th>Rule ID</th> <th>Sequence</th> <th>Status</th> <th>Execution</th> </tr> </thead> <tbody> <tr> <td>BP1</td> <td>1</td> <td>New</td> <td></td> </tr> </tbody> </table> <p>Derivation Rules for Tables</p> <table border="1"> <thead> <tr> <th>Rule ID</th> <th>Sequence</th> <th>Status</th> <th>Execution</th> <th>Data Owner</th> </tr> </thead> <tbody> <tr> <td colspan="5">No items available.</td> </tr> </tbody> </table> <p>Administrative Data</p> <p>Created On: 16.09.2022, 17:06:52 Created By: Changed On: 16.09.2022, 18:00:52 Changed By:</p> <p> Draft updated Save Discard Draft</p>	Rule ID	Sequence	Status	Execution	BP1	1	New		Rule ID	Sequence	Status	Execution	Data Owner	No items available.				
Rule ID	Sequence	Status	Execution																	
BP1	1	New																		
Rule ID	Sequence	Status	Execution	Data Owner																
No items available.																				
27	Select the rule with the ID BP1 and choose Set Status > To Be Implemented . Note: Changing the status is only possible if the derivation scenario is in display mode.	<p>Z147_BP_SIMPLE Derive general business partner data</p> <p>Header General Information Derivation Rules Administrative Data</p> <p>Derivation Rules</p> <p>Derivation Rules for Fields (1)</p> <table border="1"> <thead> <tr> <th>Rule ID</th> <th>Sequence</th> <th>Status</th> <th>Execution</th> </tr> </thead> <tbody> <tr> <td>BP1</td> <td>1</td> <td>New</td> <td></td> </tr> </tbody> </table> <p> To Be Implemented Disabled</p>	Rule ID	Sequence	Status	Execution	BP1	1	New											
Rule ID	Sequence	Status	Execution																	
BP1	1	New																		
28	Navigate to the details of this rule.	<p>Z147_BP_SIMPLE Derive general business partner data</p> <p>Header General Information Derivation Rules Administrative Data</p> <p>Derivation Rules</p> <p>Derivation Rules for Fields (1)</p> <table border="1"> <thead> <tr> <th>Rule ID</th> <th>Sequence</th> <th>Status</th> <th>Execution</th> </tr> </thead> <tbody> <tr> <td>BP1</td> <td>1</td> <td>To Be Implemented</td> <td></td> </tr> </tbody> </table> <p> </p>	Rule ID	Sequence	Status	Execution	BP1	1	To Be Implemented											
Rule ID	Sequence	Status	Execution																	
BP1	1	To Be Implemented																		

Step	Explanation	Screenshot
29	<p>In the <i>Implementation</i> section, press <i>Create Decision Table</i>.</p> <p>Note: Preparing a scope expression for a rule is optional.</p> <p>Note: The actions for preparing a scope expression or creating a decision table are available only in display mode.</p>	
30	You are informed that the decision table creation started. The rule is in status <i>Generation Running</i> . Choose <i>Refresh</i> .	
31	Select the link to the decision table.	

Step	Explanation	Screenshot
32	The BRFplus Workbench is displayed. Choose <i>Edit</i> .	
33	Insert two new rows by pressing the plus button twice.	
34	For the <i>Correspondence lang.</i> use the <i>Direct Value Input</i> and enter EN. Choose OK. Note: The <i>Correspondence lang.</i> defines the condition of the derivation rule.	
35	For <i>Search term 2</i> , use the <i>Direct Value Input</i> and enter English speaking. Choose OK.	
36	In the second row, use the <i>Direct Value Input</i> for the <i>correspondence lang.</i> and enter the values shown on the screenshot. Choose OK.	
37	For <i>Search term 2</i> , use the <i>Direct Value Input</i> and enter Other language. Choose OK.	

Step	Explanation	Screenshot
38	Choose Save to save your changes.	
39	Navigate back to the <i>Define Derivation Scenarios</i> app.	
40	Back on the page of the derivation rule <i>BP1</i> , close the subscreen.	
41	Select derivation rule <i>BP1</i> and set the status to <i>To Be Reviewed</i> . Note: These changes of statuses would typically be done by different persons being involved in the setup of a derivation rule.	
42	Then, change the status of the rule to <i>To Be Approved</i> .	

Step	Explanation	Screenshot
43	<p>Then, change the status of the rule to <i>Approved</i>.</p> <p>Now, all BRFplus artifacts of derivation rule <i>BP1</i> are active.</p>	 
44	<p>In the column <i>Execution</i>, set the execution switch to <i>On</i>.</p> <p>Now, the derivation rule <i>BP1</i> will be executed in all MDG processes where derivation scenarios are applied.</p>	 

5. TIPS AND TRICKS FOR IMPLEMENTING DERIVATION SCENARIOS

5.1. Derivation for Business Partner (Customer/ Supplier) and Language for Address

Use Case:

You want to derive the language for the main address.

Solution:

You have to distinguish between the partner category "Company" and "Person/Group".

If you use the field BUT000-BU_LANGU in the derivation rule for partner category "Company", you will receive a message: "*You may maintain the language for oral communication only in the case of persons (business partner category "Person/Group"). In this case you are dealing with a business partner of the business partner category "Organization". The language is ignored.*"

You should use for partner category "Company" the field ADRC-LANGU.

If you use the field BUT000- BU_LANGU in the derivation rule for partner category "Person/Group" the value is derived and stored, but you don't see this field on the UI. The field is not in the standard UI configuration. A derived value for field ADRC-LANGU is ignored.

5.2. Existing Derivation for Business Partner (Customer/ Supplier)

When creating rules, note that derivations are already available in central governance, which are part of the handler classes. It does not make sense to implement the same derivations in MDQ, as these can lead to duplicate data, which also leads to inconsistencies.

Existing derivations for the BP and its sub-entities are:

1. derivation of the grouping (BP_HEADER) is only executed for the customer / vendor like UIs
2. derivation of the address type (ADDRESS) depends on the creation of a new address (ADDRESS) -> classifies the address either as organizational address (if BP is an organization or group) or as person address (if the BP is a person)
3. derivation of the address GUID (BP_ADDR) depends on the creation of a new address (BP_ADDR or AD_POSTAL)
4. derivation of the match codes for names (BP_CENTRL) depends on new/changed central data (BP_CENTRL)
5. derivation of tax jurisdiction code and related attributes (AD_POSTAL) depend on address data (AD_POSTAL)
6. derivation of postal match codes (AD_POSTAL) depends on address data (AD_POSTAL)
7. derivation of the time zone (AD_POSTAL) depends on address data (AD_POSTAL)
8. derivation of the description (BP_HEADER) depends on address and central data
9. derivation of the long phone number (AD_TEL) depends on phone number (AD_TEL)
10. derivation of the long fax number (AD_FAX) depends on phone number (AD_FAX)
11. international versions of the person name (AD_NAME_P) need to be synchronized in all addresses
12. derive a contact person (BP_CP_GEN) for contact person relationships (BP_REL or TD_BPREL)
13. derive the validity period of addresses (BP_ADDR)

Existing derivations for the customer and its sub-entities are:

1. !!! REQUIRED FOR CUSTOMER LIKE UI ONLY !!!
The creation of a BP root (BP_HEADER) entity, the change of the BP grouping or the cross enhancement of a BP/vendor trigger the creation of a new customer entity (BP_CUSGEN). The entity is a standard customer.
2. The change of the BP root (BP_HEADER) entity might trigger a change of the standard customer general data (BP_CUSGEN) entity.
3. The change of the BP root (BP_HEADER) entity might trigger a change of the standard customer partner function (BP_CUSFCN) entities.
4. The creation of a multiple assignment (BP_MLT_AS) entity triggers the creation of a new customer (BP_CUSGEN) entity.
5. The change of a customer general data (BP_CUSGEN) entity triggers the change of one or more customer general data (BP_CUSGEN) entities.
6. The change of the account group in a customer general data (BP_CUSGEN) entity triggers the update of tax indicator (BP_CUSTAX) and partner function (BP_CUSFCN) entities.

7. The change of a sales area (BP_SALES) entity triggers the update of partner function (BP_CUSFCN) entities for the current assignment.
8. The change of a supplier general data (BP_VENGEN) entity triggers the change of one or more customer general data (BP_CUSGEN) entities.
9. The creation of a customer sales area (BP_SALES) entity triggers the defaulting of some values of the same entity.
10. The creation of a sales area (BP_SALES) entity triggers the creation/change of partner function (BP_CUSFCN) entities.
11. The creation/change/deletion of a sales area (BP_SALES) entity triggers the creation/deletion of tax indicator (BP_CUSTAX) entities.
12. The change of the BP root (BP_HEADER) entity might trigger change of the standard customer general (CUSGENTXT) and / or sales area (CUSSALTEXT) text entities.
13. The change of the account group in a customer general data(BP_CUSGEN) entity might trigger a change of the customer's general (CUSGENTXT) and / or sales area (CUSSALTEXT) text entities.
14. The change of the BP's central deletion flag (BP_CENTRL) might trigger setting all central deletion flags of the customer(s) and the organizational units (BP_CUSGEN, BP_CUS_CC, BP_SALES)
15. The creation of a customer company code (BP_CUS_CC) entity triggers the defaulting of some values of the same entity.

Existing derivations for the supplier and its sub-entities are:

1. !!! REQUIRED FOR VENDOR LIKE UI ONLY !!!
The creation of a BP root (BP_HEADER) entity, the change of the BP grouping or the cross enhancement of a BP/customer trigger the creation of a new supplier entity (BP_VENGEN). The entity is a standard supplier.
2. The change of the BP root (BP_HEADER) entity might trigger a change of the standard supplier general data (BP_VENGEN) entity.
3. The change of the BP root (BP Header) entity triggers the update of partner function (BP_VENFCN) entities for the standard assignment.
4. The change of the BP Tax Number (BP_TAXNUM) entity might trigger the update of the standard supplier (BP_VENGEN) entity.
5. The creation of a multiple assignment (BP_MLT_AS) entity triggers the creation of a new supplier (BP_VENGEN) entity.
6. The change of a supplier general data (BP_VENGEN) entity triggers the change of one or more supplier general data BP_VENGEN entities.
7. The change of the alternative payee in a supplier general data (BP_VENGEN) entity triggers the update of partner function (BP_VENFCN) entities.
8. The change of the tax number in a supplier general data (BP_VENGEN) entity might trigger a change of BP tax number (BP_TAXNUM) entities.
9. The change of the account group in a supplier general data (BP_VENGEN) entity triggers the update of partner function (BP_VENFCN) entities.
10. The change of a purchasing organization (BP_PORG) entity triggers the update of partner function (BP_VENFCN) entities for the current assignment.
11. The change of a customer general data (BP_CUSGEN) entity triggers the change of one or more supplier general data (BP_VENGEN) entities.
12. The creation of a purchasing organization (BP_PORG) entity triggers the creation of partner function (BP_VENFCN) entities.
13. The creation of a purchasing organization (BP_PORG) entity the defaulting of some values of the same entity.
14. The change of the BP's central deletion flag (BP_CENTRL) might trigger setting all central deletion flags of the supplier(s) and the organizational units (BP_VENGEN, BP_COMPNY, BP_PORG)
15. The creation of a supplier company code (BP_COMPNY) entity triggers the defaulting of some values of the same entity.

5.3. Type-4 entities must have at least one attribute

Use Case:

For example, you want to derive a new role for a business partner and you have created a derivation scenario with a rule for table BUT100.

Solution:

You must also maintain at least one attribute in the rule. Otherwise, the new role will not be derived because type-4 entities with initial attributes are filtered out in the derivation result.

5.4. Provide Data via Extra Data Provisioning – DB Lookup

Use Case:

You need data that are not part of the context of your derivation rule.

Note: The data that are visible in the context overview provided in the BRFplus workbench are supplied automatically.

For example, you want to derive the currency for the field WAERS in table KNNV using the customizing values provided in table TVKO.

Solution:

Create a DB Lookup in the BRFplus workbench and call this DB Lookup for the corresponding field.

For example, create a database lookup GET_WAERS (get currency TVKO) as shown below:

Database Lookup: GET_WAERS, get currency TVKO

General

Detail

Selection Mode: Data Retrieval

Select: Single Entry From: TVKO Organizational Unit: Sales Organizations

With Condition: VKORG is equal to Sales Org.

Into: Stats Currency

Source Field	Text	Target Field	Text
WAERS	Statistics currency	WAERS	Stats Currency

Select this expression for the currency field:

Table Contents

Condition Decision...

=DE

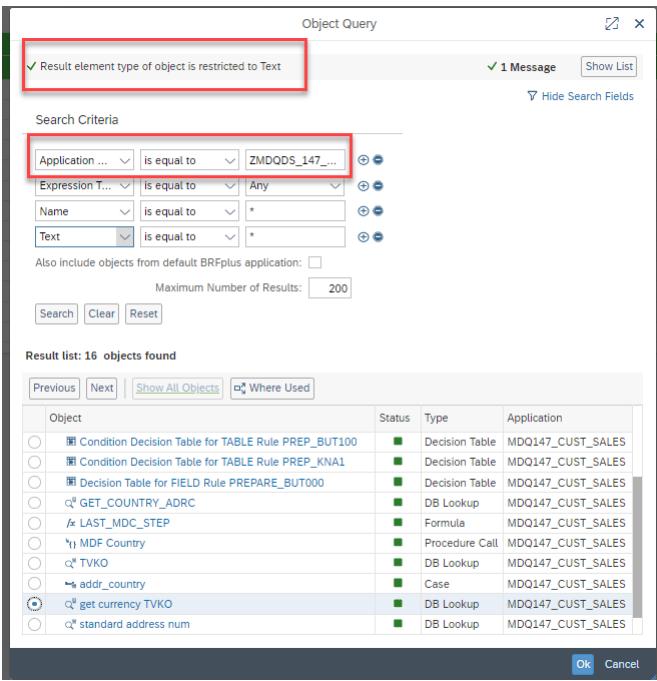
=US

Currency

EUR (European Euro)

TVKO

Select Expression...



Note: the search offers all expressions that have the correct element type (in this example: Text). By default you see the expressions that are part of the BRFplus application defined by the derivation scenario (ZMDQDS_147_<scenario_id> or ZMDQDS_194_<scenario_id>). If you want to use expressions that are part of another application, you have to adjust the search criteria.

5.5. Access Change Request Data

Use Case:

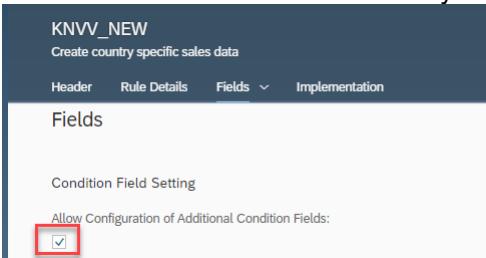
You need to access data differently, depending on where the derivation scenario is executed.

Note: A derivation scenario can be applied in a change request, in a mass process and in a consolidation process.

For example, you create a new business partner and want to use the field COUNTRY of the address table ADRC as a condition field to retrieve the correct sales organization. In a change request the value need to be read from the staging area whereas for mass processing and consolidation the value is read from the process tables.

Solution:

In the definition of the derivation rule you have to set the flag that allows the configuration of additional condition fields.



In the BRFplus workbench, you have to add an additional column to the condition decision table using the table settings. Here you call e.g. the case expression shown below. The usage field can be found in the derivation context.

■ Case: ADDR_COUNTRY_BY_USAGE

< Back | Edit | Check | Save | Activate | Delete | More ▾

> General

Detail

Context Overview | Start Simulation

Result Type: Return Value

Result Data Object: Country ▾

Case Sensitive:

When Derivative-Usage

... equals MDF_SCEN Derivation Scenario in Change Request Processing then MDF Country is returned.

Otherwise GET_COUNTRY_ADRC is returned.

MDF_COUNTRY is an example of a procedure call used to read the country field from the staging data.

■ Procedure Call: MDF_COUNTRY

< Back | Edit | Check | Save | Activate | Delete | More ▾

> General

Detail

Context Overview | Start Simulation

Result Data Object: Country

Call Type: Static Method

Class Name: ZCL_MDQ147_CUST_SALES_KNNV

Description: Country for MDQ147_CUST_SALES_KNNV

Interface Name:

Method Name: GET_COUNTRY_STANDARD_ADD...

Description: Get the country of the standard ad...

Mapped Parameters

Add Parameter | Show Unsupported Parameters

1 .CHANGE_REQUEST - Mandatory, Importing (Change Request)

2 .COUNTRY - Optional, Returning (Country of the BP's standard address)

Exception Handling

No exceptions are defined in this sub-routine

The class the implements the procedure call of this example uses the following code:

```
"! <p class="shorttext synchronized" lang="en">Country for MDQ147_CUST_SALES_KNNV</p>
CLASS zcl_mdq147_cust_sales_knnv DEFINITION PUBLIC FINAL CREATE PUBLIC .

PUBLIC SECTION.
"! <p class="shorttext synchronized" lang="en">Get the country of the standard address</p>
"!
"! @parameter change_request | <p class="shorttext synchronized" lang="en">Change Request</p>
"! @parameter country | <p class="shorttext synchronized" lang="en">Country of the BP's standard address</p>
CLASS-METHODS get_country_standard_address
IMPORTING
    !change_request TYPE usmd_crequest
RETURNING
    VALUE(country)  TYPE land1 .

PROTECTED SECTION.
PRIVATE SECTION.

"! <p class="shorttext synchronized" lang="en">Model-Ext-API instance</p>
CLASS-DATA model TYPE REF TO if_usmd_model_ext .

"! <p class="shorttext synchronized" lang="en">Get an instance of the Model-Ext-API</p>
"!
"! @parameter result | <p class="shorttext synchronized" lang="en">Model-Ext-API instance</p>
CLASS-METHODS get_model
RETURNING
    VALUE(result) TYPE REF TO if_usmd_model_ext .

"! <p class="shorttext synchronized" lang="en">Get the BP ID from the Change Request</p>
"!
"! @parameter model | <p class="shorttext synchronized" lang="en">Model-Ext-API instance</p>
"! @parameter change_request | <p class="shorttext synchronized" lang="en">Change Request number</p>
"! @parameter result | <p class="shorttext synchronized" lang="en">Business Partner ID (as USMD_VALUE)</p>
CLASS-METHODS get_bp_no_of_change_req
IMPORTING
    !model          TYPE REF TO if_usmd_model_ext
    !change_request TYPE usmd_crequest
RETURNING
    VALUE(result)  TYPE usmd_value .
ENDCLASS.
```

```

CLASS zcl_mdq147_cust_sales_knvv IMPLEMENTATION.

METHOD get_model.
  IF model IS INITIAL.
    "Get a model-ext instance.
    cl_usmd_model_ext->get_instance(
      EXPORTING
        i_usmd_model = 'BP'
      IMPORTING
        eo_instance = model ).
  ENDIF.
  result = model.
ENDMETHOD.

METHOD get_bp_no_of_change_req.
  "Get the given change request's object list
  DATA(keys) = VALUE usmd_ts_entity_data( ).
  model->get_cr_objectlist(
    EXPORTING
      i_crequest = change_request
    IMPORTING
      e_count = DATA(count)
      et_key_all = keys
  ).
  "Abort further processing if there are no objects in the given change request.
  CHECK count > 0.

  "Get the (eventually temporary) Business Partner number.
  READ TABLE keys WITH KEY entity = 'BP_HEADER' INTO DATA(key).
  FIELD-SYMBOLS <tab> TYPE HASHED TABLE.
  ASSIGN key->r_data->*> TO <tab>.
  LOOP AT <tab> ASSIGNING FIELD-SYMBOL(<any>).
    result = <any>.
    EXIT.
  ENDLOOP.
ENDMETHOD.

METHOD get_country_standard_address.
  DATA(model) = get_model( ).

  "Create an internal table to receive the read addresses.
  model->create_data_reference(
    EXPORTING
      i_fieldname = CONV usmd_fieldname( 'AD_POSTAL' )
      i_struct = model->gc_struct_key_attr
      if_table = abap_true
      i_tabtype = model->gc_tabtype_sorted
    IMPORTING
      er_data = DATA(lr_data) .
    ASSIGN lr_data->*> TO FIELD-SYMBOL(<entity_data_tab>).

  DATA(bp_number) = get_bp_no_of_change_req( model = model change_request = change_request ).
  DATA(select_options) = VALUE usmd_ts_sel( (fieldname = 'BP_HEADER' sign = 'I' option = 'EQ' low = bp_number ) ).

  "Read the Business Partner's addresses.
  model->read_char_value(
    EXPORTING
      i_fieldname = CONV usmd_fieldname( 'AD_POSTAL' )
      it_sel = select_options
      i_readmode = if_usmd_model_ext->gc_readmode_all_inact
      if_no_flush = abap_true
    IMPORTING
      et_data = <entity_data_tab> ).

  "Take the first available country.
  LOOP AT <entity_data_tab> ASSIGNING FIELD-SYMBOL(<entity_data>).
    ASSIGN COMPONENT 'REF_POSTA' OF STRUCTURE <entity_data> TO FIELD-SYMBOL(<any>).
    IF sy-subrc = 0.
      country = <any>.
      EXIT.
    ENDIF.
  ENDLOOP.
ENDMETHOD.

ENDCLASS.

```

GET_COUNTRY_ADRC is an example of a database lookup to read the country field from the process table.

Database Lookup: GET_COUNTRY_ADRC

Selection Mode: Data Retrieval

Select: Single Entry From: BUT_ADRC_PRC Master Data Consolidation: Process Table for ADRC

With Condition: PROCESS_ID ~ is equal to ~ Derivati...-Process ID Change ~

and

PROCESS_STEP_NO ~ is equal to ~ stepnumber minus one Change ~

and

SOURCE_ID ~ is equal to ~ BUT000 K...-Source ID Change ~

Into: Country

Field Mapping:

Source Field	Text	Target Field	Text	Aggregation	Group By
COUNTRY ~	Country Key	COUNTRY	Country	Select ~	

5.6. Debugging the Derivation for a Change Request

API CL_MDG_MDQ_RBWF_DERIVE writes an application log (transaction code SLG1) using log object FMDM and subobject CREQUEST. The success/information messages in this log **do not** indicate a successful derivation. Whether the data you expect to be derived actually got written to the change requests is **not** indicated here.

In this log there are typically the following *relevant* information messages:

- 'Derivation started' which means API CL_MDG_MDQ_RBWF_DERIVE got called
- 'Initialize mappings' which indicates the data mapping between central governance-based and MDQ Derivation-based data structure could be initialized
- 'Map change request data to objects for derivation' which indicates a successful data mapping
- 'Execute derivation' which indicates that the derivation API CL_MDG_MDQ_SERVICE_DERIVE has been called successfully (This is independent from the success/failure of the actual derivation.)
- 'Map derived data to change request' which indicates a successful data mapping
- 'Derivation finalized' which means the processing in API CL_MDG_MDQ_RBWF_DERIVE ends

Date/Time/User	Number	External ID	Object text	Subobject Text	Transaction code	Program
> 18.01.2023 11:24:03 SAP_WFRT	7	MDQ_DERIVE-000000001980-20230118-112403	Master Data Governance	Change Requests	CL_USMD...	
> 18.01.2023 11:28:26 SAP_WFRT	7	MDQ_DERIVE-000000001981-20230118-112826	Master Data Governance	Change Requests	CL_USMD...	
> 18.01.2023 15:02:45 SAP_WFRT	7	MDQ_DERIVE-000000001982-20230118-150245	Master Data Governance	Change Requests	CL_USMD...	

Type: Message Text

- Derivation started for change request 1981
- Get instance runtime: 0.0746060 sec
- Initialize mappings runtime: 0.0564860 sec
- Map change request data to objects for derivation runtime: 0.4625440 sec
- Execute derivation runtime: 0.6701060 sec
- Map derived data to change request runtime: 1.6104200 sec
- Derivation finalized for change request 1981

This application log does not show any errors or other messages that occur *during actual derivation*. It may however contain errors e.g. when writing data to the change request (like in the next screenshot). As you can see the success messages mentioned above are there anyways (at the beginning and end of the log).

Display logs		SAP		Display logs			
Date/Time/User	Number	External ID	Object text	Subobject Text	Transaction code	Program	Exit
> ● 18.01.2023 15:13:41 SAP_WFRT	38	MDQ_DERIVE-000000001984-20230118-151341	Master Data Governance	Change Requests		CL_USMD	
63	63	63	63	63	63	63	63
Type: Message Text							
Derivation started for change request 1984							
Get instance runtime: 0.0405420 sec							
Initialize mappings runtime: 0.0536840 sec							
Map change request data to objects for derivation runtime: 0.4714310 sec							
Execute derivation runtime: 16.5556270 sec							
Errors when writing the derived data to change request 1984							
Enter a relevant role for creation of customer master data							
[Info] Messages refer to Organization: \$496							
Enter a value for field First Name of Organization							
Enter a value for field Sales District							
Enter a value for field Cust.Pric.Procedure							
Enter a value for field Customer Price Group							
Enter a value for field Currency							
Enter a tax classification for country/region AT and tax category MWST.							
Enter a tax classification for country/region AU and tax category ATX1.							
Enter a tax classification for country/region BE and tax category MWST.							
Enter a tax classification for country/region US and tax category UTXJ.							
Map derived data to change request runtime: 3.2937220 sec							
Derivation finalized for change request 1984							

To analyze/debug the MDQ derivation for a change request you may use program `MDG_MDQ_SERVICE_DERIVE`. For analysis purposes you can trigger the MDQ derivation for a given change request. The derived data could either be written to the change request (*Save derived data*) or discarded (*Discard derived data*). The latter option enables you to repeat the analysis without writing derived data to the change request.

MDQ Derivation for MDG Central Governance

MDQ Derivation for rule-based MDG Workflows / Change Requests

Execute the derivations for debugging purposes.

Select an existing change request (or draft).

Change Request: * 4711

Decide whether to save or discard the derived data.

Save derived data:

Discard derived data:

Execute

6. ADDITIONAL INFORMATION

6.1. Further Reading

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](#)
- Learn more: [Latest Release](#) | [Webinars](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

SAP Roadmap Explorer

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

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](#) |

Other

- Video for Define Derivation Scenarios
https://video.sap.com/media/t1_lywvk6rb/65627981

6.2. 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
3441690	(Bugfix) MDQ-Derivations in Central Governance: Incorrect result at mapping errors, Store messages in a suitable structure
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
3194967	MDG Customer Connection 2021 for S/4HANA 2022
3043582	MDG Customer Connection 2020
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

2479869	Usage of Lean Classification with SAP Master Data Governance
3070012	Functional Restrictions in MDG for Material on SAP S/4HANA 2021
3219945	Functional Restrictions in MDG for Material on SAP S/4HANA 2022

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