

How-To Guide: Master Data Consolidation and Mass Processing for MBOM

Applies to

EAM Solutions by Prometheus Group

Summary

SAP MDG, consolidation and mass processing help in consolidating the master data by creating/updating multiple master data records at a time based on the evaluation results of several checks hence eliminating data redundancy and ensuring completeness of data.

The process steps are workflow driven and the behavior of each individual process step type can be adapted to your requirements.

Current solution aims at extending the Master data consolidation solution to the EAM objects i.e. Functional Locations, MBOM and Equipment.

Author: Shabana Sultana Begum

Company: Prometheus Group

Created On: September 14, 2018

Version: 1.0

Table of Contents

Introduction.....	3
File Creation for Import	3
Configure Process Template.....	3
Mass Create	5
Prerequisites.....	5
Perform Mass Create	6
Mass Change	21
Configure Process Template.....	21
Perform Mass Processing	24
Direct Change	24
Mass Change Using Excel.....	34
Appendix A.....	49

Introduction

SAP MDG, Consolidation and Mass processing enables you to consolidate your master data and run mass processes to update multiple master data records at a time. This is driven by a sequence of steps each adapted to some specific requirements. This helps in data filtering and enrichment thereby reducing the redundancy and duplicates.

This document provides the information you require to set up SAP MDG, consolidation and mass processing and use it for mass creation of Material BOMs (MBOM).

It contains information about Customizing as well as the information about additional activities that you need to execute.

File Creation for Import

Material BOM has a composite key with 4 fields i.e. MATNR, STLTY, STLAN and STLAL. The concatenation of these uniquely define the Material BOM. The file used should be updated with these fields in all the tabs to uniquely link the related records. The source ID assigned internally is concatenation of these four fields.

Make sure for create scenario, STLNR is generated after activation, but to distinguish the records and assign the same across tabs, SLNR can be assigned as 00000001, 00000002 etc. in the incremented fashion.

All such conventions to be followed for file preparation is provided in the README file available for download along with the template.

Configure Process Template

Use the following steps to configure the process template:

1. Run transaction code (t-code) MDCIMG.
Navigate through the customizing path: Master Data Governance, Consolidation and Mass Processing > Specify Adapters.
2. Ensure that the following adapters are available to be used for MBOM.

Display View "Master Data Consolidation: Configuration of Adapters": O			
BO Type	Step Type	Process Step Adapter	Adapter Description
237	Activation	/UGI/CL_MDC_ADAPTER_MBOM_ACT	Activation for MBOM
237	BRC Best Record Calculat...	/UGI/CL_MDC_ADAPTER_MBOM_BRC	MBOM Best Record Calculation
237	EDI Edit	CL_MDC_ADAPTER_EDI	Interactive Mass Processing
237	FAR Filter & Remove	CL_MDC_ADAPTER_FAR	Filter and Remove
237	MTC Matching	/UGI/CL_MDC_ADAPTER_MBOM_MTC	MBOM Matching
237	MTC Matching	CL_MDC_ADAPTER_FUZZY_MTC	CL_MDC_ADAPTER_FUZZY_MTC
237	MTC Matching	CL_MDC_ADAPTER_MTC	CL_MDC_ADAPTER_MTC
237	REP Replication	/UGI/CL_MDC_ADAPTER_MBOM REP	MBOM Replication with DRF
237	STD Standardization	/UGI/CL_MDC_ADAPTER_BOM_VALMAP	Evaluate value mapping for MBOM
237	STD Standardization	/UGI/CL_MDC_ADAPTER_MBOM_KEYMAP	Evaluate Key Mapping for MBOM
237	STD Standardization	CL_MDC_ADAPTER_BRF_STD	BRFplus
237	STD Standardization	CL_MDC_ADAPTER_BRF_UPD	BRFplus
237	VAL Validation	/UGI/CL_MDC_ADAPTER_MBOM_VAL	MBOM Validations (Business Suite)

3. Navigate through the following path:

Master Data Governance, Consolidation and Mass Processing > Configure Process Template > Specify Process Template.

- Add the following entry as part of customizing activity.

Change View "Process Template": Overview										
BC Set: Change Field Values										
Dialog Structure		Process Template								
Proc Tmpl	Description	BO Type	Description	Process Workfl...	Name	Process Goal	Default Te...	Consolidation of 50	Delete Sou...	
SAP_BM_CON	SAP: Consolidate Product Data	237	Bill of Material	WS5450001	MDC Workflow	Consolidation of 50				

The template should be assigned with steps to be considered while running the consolidation of data.

The following template has 5 process steps including Validation, Standardization, Activation and Replication.

Display View "Process Template Step": Overview										
BC Set: Change Field Values										
Dialog Structure		Process Template Step								
Process Template	UGI_BM_STD	MDC: Load MBOM Data								
Bus. Obj. Type	237	Bill of Material								
Step	Step Type	Description	BO Type	Adapter	Config. ID	Check Pt.	Action Control for next step			
1	VAL Validation	Initial Check	/UGI/CL_MDC_ADAPTER_MBOM_VAL	MBOM_VAL			No action control			
2	STD Standardi...	Standardization	/UGI/CL_MDC_ADAPTER_MBOM_KEYMAP				No action control			
3	VAL Validation	Validation	/UGI/CL_MDC_ADAPTER_MBOM_VAL	MBOM_VAL			No action control			
4	ACT Activation	Activation	/UGI/CL_MDC_ADAPTER_MBOM_ACT	SAP_ACT_BM			No action control			
5	REP Replicati...	Replication	/UGI/CL_MDC_ADAPTER_MBOM REP				No action control			

The Config ID field as shown in the above screen is defined in the IMG path.

- Validation can be configured for MDG BAdl validation checks and BRF+.

Refer [Appendix A](#) for detailed steps to configure the BRF+ checks.

Change View "Master Data Consolidation: Configurations for Validation"										
BC Set: Change Field Values										
Master Data Consolidation: Configurations for Validation										
Configuration ID	SAP_VAL									
Description	Validate Data									
No of Processes	10									
Queue Prefix										
<input checked="" type="checkbox"/> MDG Checks										
<input checked="" type="checkbox"/> BRF+ Checks										
<input type="checkbox"/> Write MDQ Worklist										
<input type="checkbox"/> Remove Unchanged Rec										
Threshold	10									

- The default configuration is “Direct Activation”. This can be changed to “Activation with Change Request” option.

- The Change Request of type import MBOM is to be assigned i.e. MATBOM0B, in case the Activation with Change Request is selected.
- The value “Max. Rec” can be changed to a value to indicate the number of BOM objects allowed per Change Request.

- Replication is integrated with the Activation step for Direct Activation. The indicated checkbox in the following screen should be marked for the IDocs to be generated after successful activation.

Change View "Configurations for Activation for MBOM": Details

New Entries						
Configuration ID / Description SAP_ACT_BM [SAP : MBOM Activation]						
Configurations for Activation for MBOM						
Number of Processes	10		Prefix for Queue Name	MDC_MBOM_ACT_Q_		
New Records						
Activation Target for New Records	2 Activation with Change Request		Type of Change Request	MATBOMOB	Max. Rec.	5
Target for New Incorrect Records	N No Activation		Type of Change Request		Max. Rec.	
Updated Records						
Activation Target for Updated Records	2 Activation of Best Record with Change Request		Type of Change Request	MATBOMOB	Max. Rec.	5
Target for Updated Incorrect Records	N No Activation		Type of Change Request		Max. Rec.	
Match Group						
Activation Target for Match Groups	1 Direct Activation of Best Record		Type of Change Request		Max. Rec.	
Target for Incorrect Match Groups	N No Activation		Type of Change Request		Max. Rec.	
Replication						
<input checked="" type="checkbox"/> Call DRF after Activation						

Mass Create

Prerequisites

In case, the key mapping is to be used for standardization step in the process template, ensure that that the key mapping is maintained.

To check the key mapping scenario, navigate to the t-code MDG_KM_MAINTAIN and maintain the key mapping between the material from source system provided in the spreadsheet and the material which exists in the target system.

The following screen depicts the key mapping maintained when the consolidation process is to be performed on the system S23_ULABSHN23_S23CLNT100 and the source system for file import is S23_ULABSHN23_23CLNT200.

Key Mapping Material : MAT_KEY_MAPPED

<input type="button" value="Save"/>				
Changes to the mapping objects are saved				
Object Selection				
* Business Object Type: Material				
* Business System: S23_ULABSHN23_S23CLNT100				
* Object ID Type/Object ID: Material ID (external format/ERP) / MAT_KEY_MAPPED				
<input type="button" value="Show"/>				
Mapped Objects				
<input type="button" value="Add Row"/> <input type="button" value="Change Row"/> <input type="button" value="Delete Row"/> <input type="button" value="Undo Changes"/>				
*No.	*System ID	*Business Object Type	Object ID Type	*Object ID
1	S23_ULABSHN23_S23CLNT100	Material	Material ID (external fo...)	MAT_KEY_MAPPED
2	S23_ULABSHN23_23CLNT200	Material	Material ID (external fo...)	SSB_U1293

Perform Mass Create

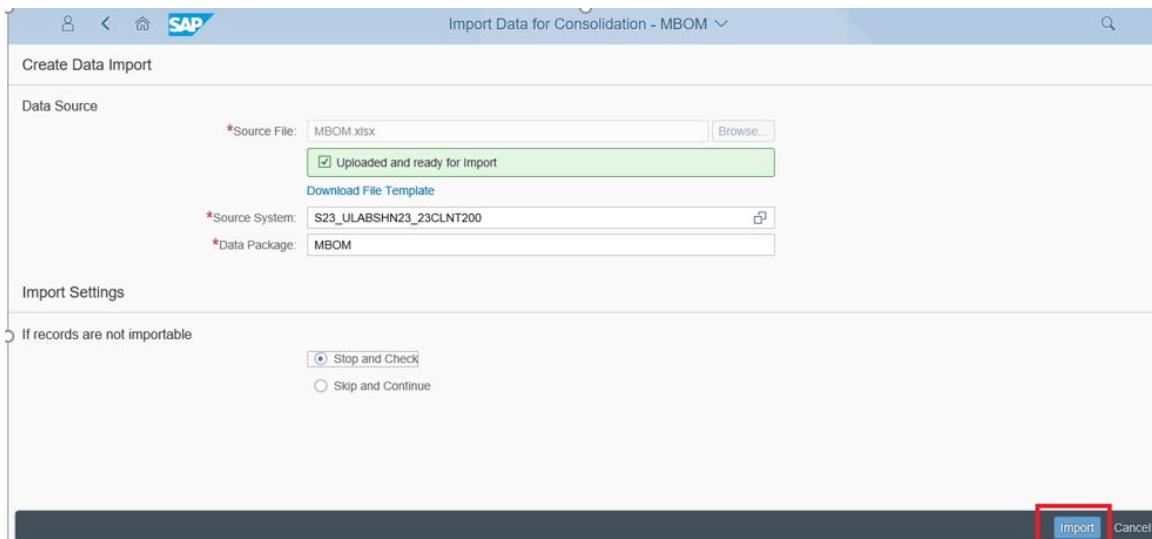
Use the following steps to perform Mass Create using MDC application:

1. Run t-code /UI2/FLP.
2. Launch the Fiori application “Import Data for Consolidation - MBOM”.



3. Choose the duly filled Excel file for creating the MBOM data.

Once the message comes as “Uploaded and ready for Import”. Click on the “Import” button as highlighted in the following screen.



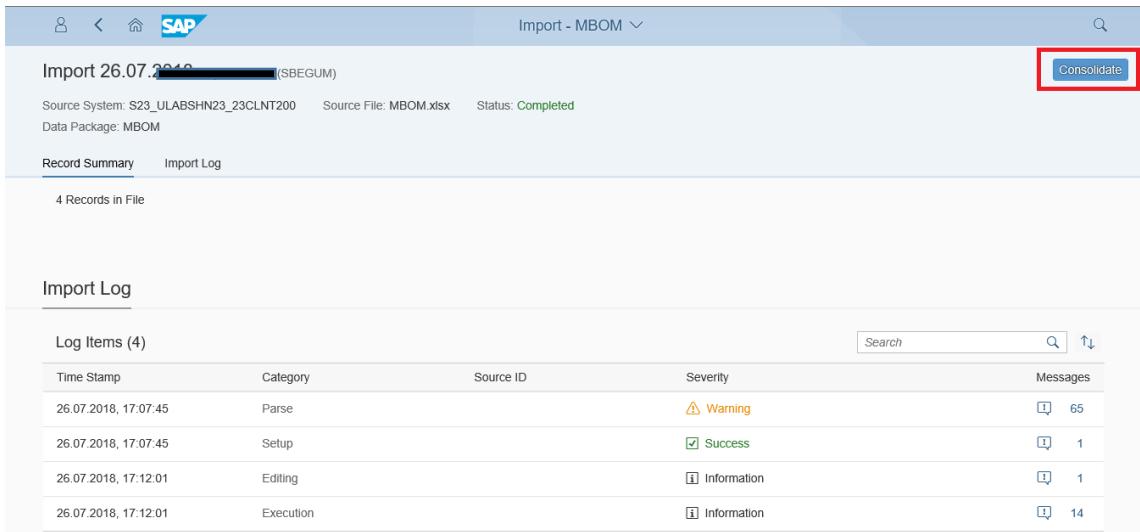
Note

Make sure that the Excel is correctly formatted. Sample formats can be downloaded from the link “Download File Template”. You can refer to the README file provided along with the template for the conventions to be followed for file preparation.

Once the import is successful , the “Consolidate” button appears on the top right side of the screen. You can use this button to launch the “Create Consolidation-MBOM” application from the “Import data for Consolidation-MBOM” application.

Note

You can also launch “Create Consolidation- MBOM” separately selecting the application directly from the launchpad and choose the required Imports in the same.



Import 26.07.2018 (SBEGUM)

Source System: S23_ULABSHN23_23CLNT200 Source File: MBOM.xlsx Status: Completed

Data Package: MBOM

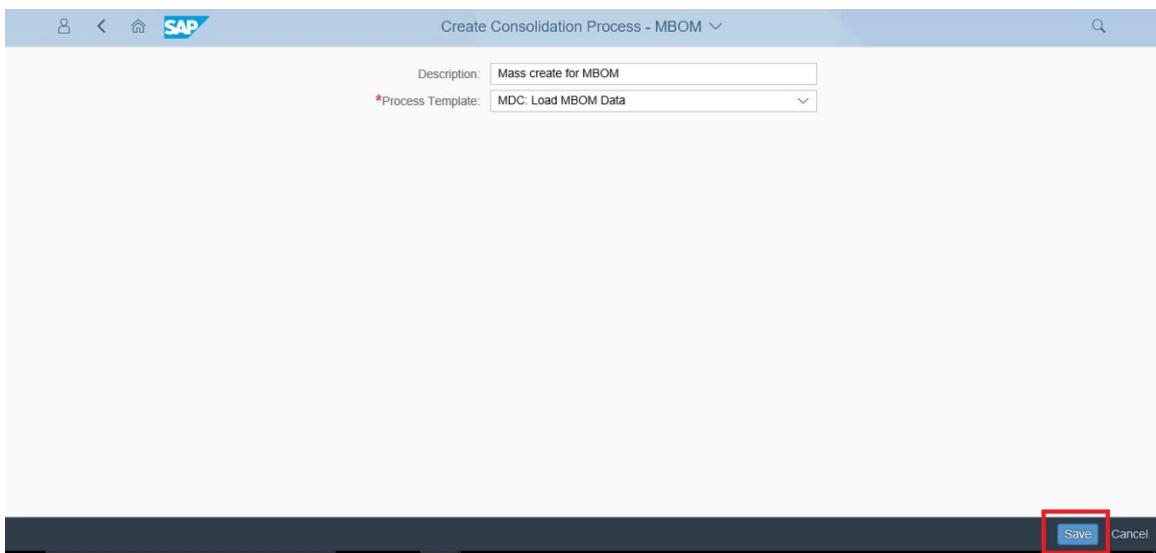
Record Summary Import Log

4 Records in File

Import Log

Log Items (4)				
Time Stamp	Category	Source ID	Severity	Messages
26.07.2018, 17:07:45	Parse		⚠ Warning	65
26.07.2018, 17:07:45	Setup		✓ Success	1
26.07.2018, 17:12:01	Editing		ℹ Information	1
26.07.2018, 17:12:01	Execution		ℹ Information	14

4. On the “Create Consolidation Process – MBOM” screen, enter the description text and the choose the process template from the dropdown.
5. Click on “Save” button.



Create Consolidation Process - MBOM

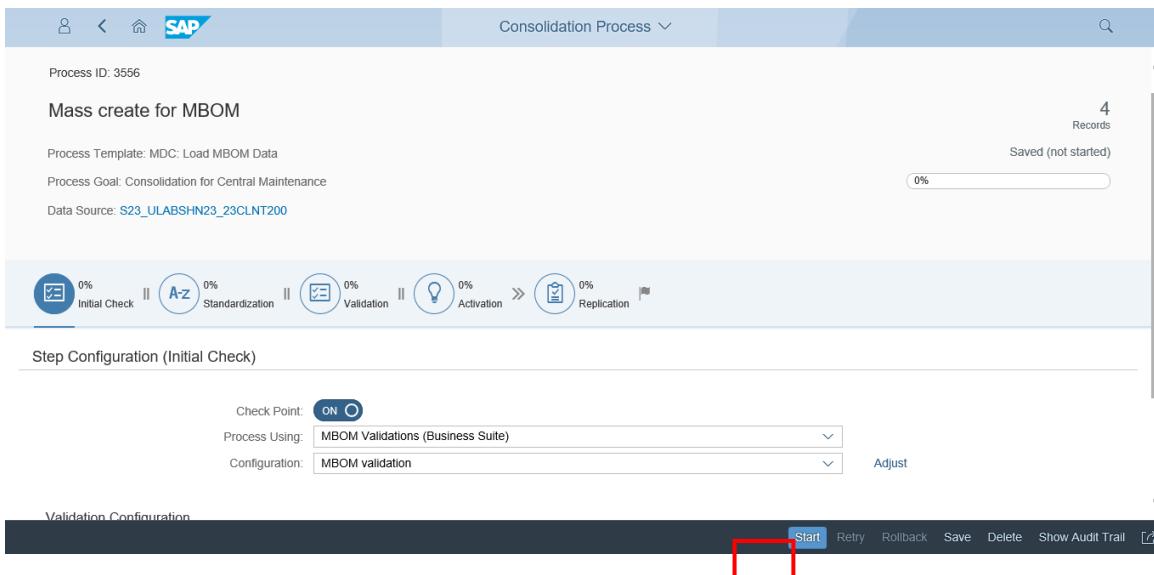
Description: Mass create for MBOM

*Process Template: MDC: Load MBOM Data

Save Cancel

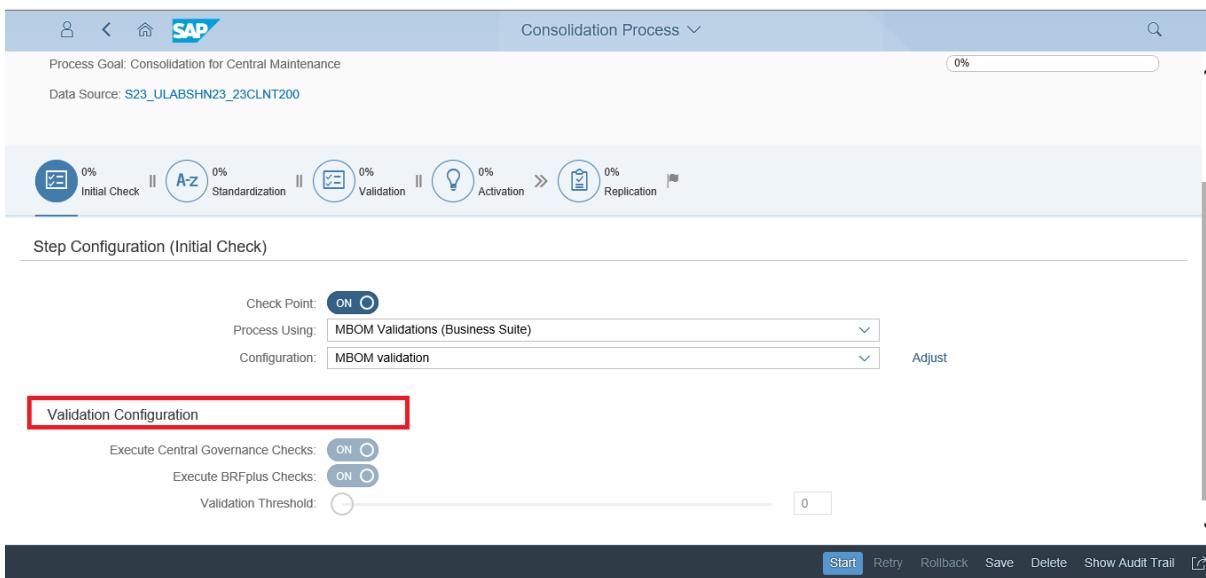
This launches a new process ID in MDC. All the steps configured as part of the template appear in the sequential way. Click on “Start” button to trigger the processing.

The default configurations are read from the backend for the process steps. In case, it must be changed, click on the “Adjust” link on the UI. This makes the screen editable for selections.



Validation step can also be configured along with MDG checks and BRFplus checks. This in turn calls the USMD_RULE_SERVICE BAdI in case MDG checks are configured. BRFplus validation rules and derivations can be configured for incorporating business logic.

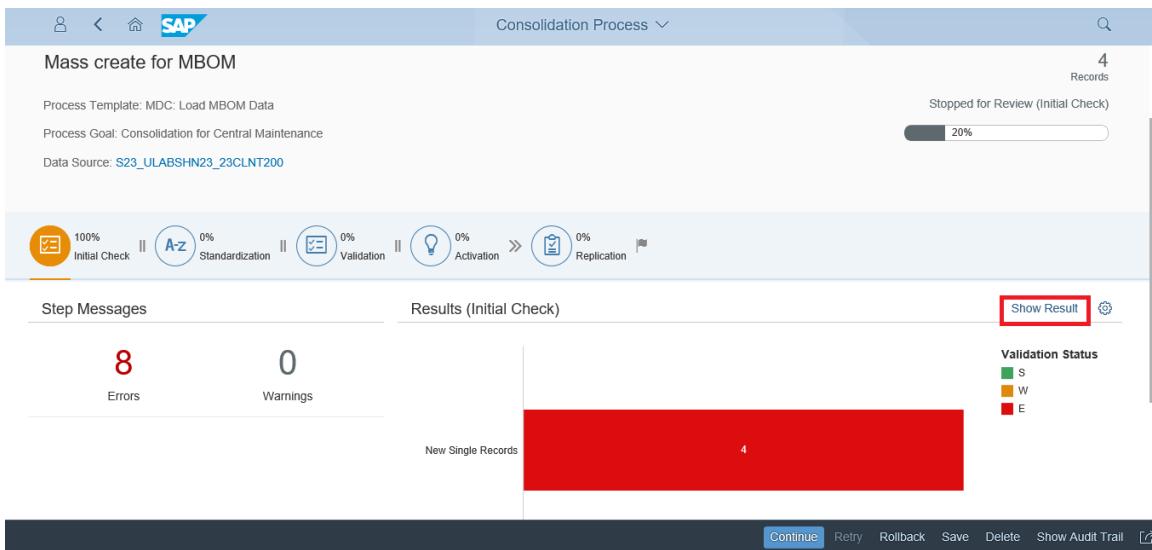
You can refer [Appendix A](#) for the detailed steps for creation and usage of BRFplus application.



Once the process is started, it runs the first step configured in the process template i.e. Initial Check in this case.

The validation status of the records is presented in the graphical format as below. Error records are marked in red color, success records are marked green and warning records are marked in yellow color.

To view the details of the records and locate the erroneous records, click on the link "Show Result" as highlighted in the following screen.



Process Template: MDC: Load MBOM Data
 Process Goal: Consolidation for Central Maintenance
 Data Source: S23_UABSHN23_23CLNT200

Step Messages

Errors	Warnings
8	0

Results (Initial Check)

New Single Records	4
--------------------	---

Show Result

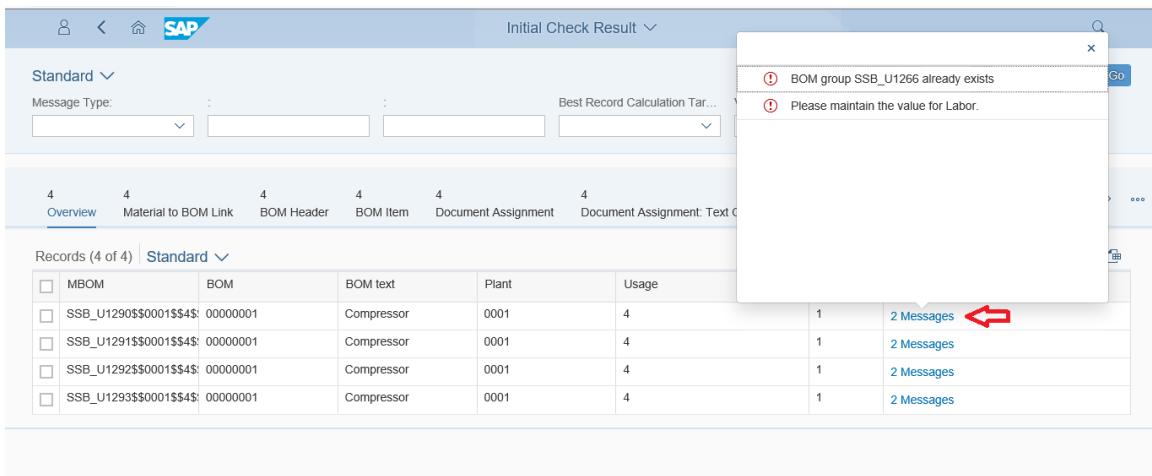
Validation Status: S (Green), W (Yellow), E (Red)

Buttons: Continue, Retry, Rollback, Save, Delete, Show Audit Trail

The messages are mapped to the “Details” column of the Overview tab.

6. Expand the list to view the messages.

The message “Please maintain the value of Labor” in the following screen has been configured through the BRFplus application as explained in [Appendix A](#).



Initial Check Result

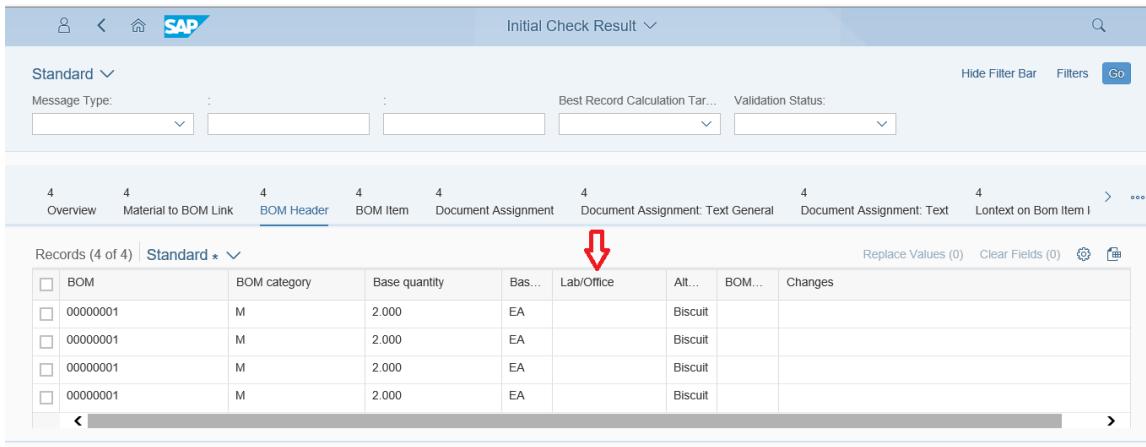
Standard ▾

Message Type: Best Record Calculation Tar...
 Overview Material to BOM Link BOM Header BOM Item Document Assignment Document Assignment: Text C...

Records (4 of 4) | Standard ▾

MBOM	BOM	BOM text	Plant	Usage	
<input type="checkbox"/> SSB_U1290\$0001\$\$4\$	00000001	Compressor	0001	4	1 2 Messages
<input type="checkbox"/> SSB_U1291\$0001\$\$4\$	00000001	Compressor	0001	4	1 2 Messages
<input type="checkbox"/> SSB_U1292\$0001\$\$4\$	00000001	Compressor	0001	4	1 2 Messages
<input type="checkbox"/> SSB_U1293\$0001\$\$4\$	00000001	Compressor	0001	4	1 2 Messages

To correct the error, “Please maintain the value for Labor”, scroll and locate the tab “BOM Header” and locate the field “Labor/Office” as shown in the following screen.

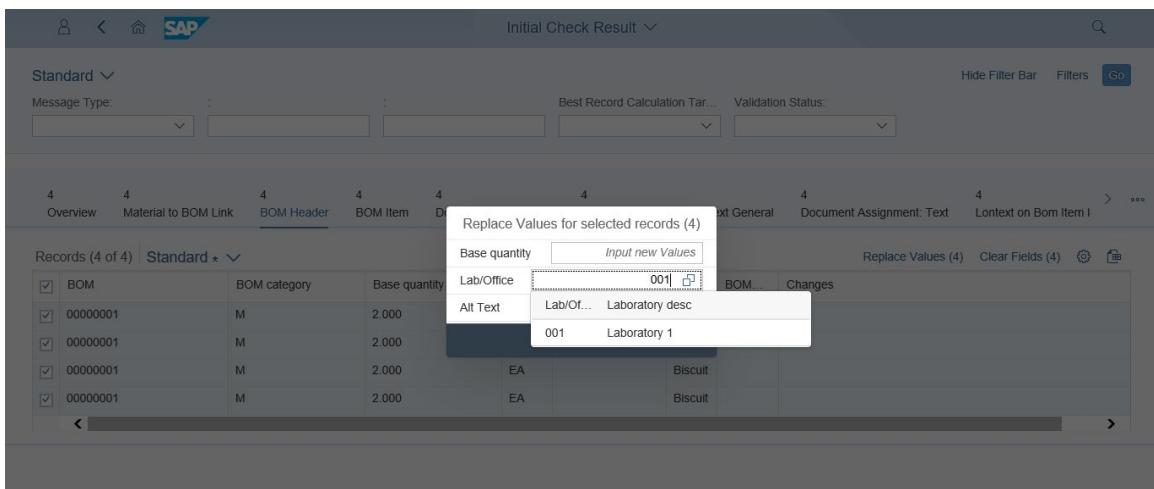


The screenshot shows a SAP Fiori application interface titled "Initial Check Result". At the top, there are filter and search options. Below the header, a table displays "BOM Header" records. The table has columns: BOM, BOM category, Base quantity, Lab/Office, Alt... (partially visible), BOM..., and Changes. There are four rows of data, each with a checkbox in the first column. In the top right corner of the table area, there is a button labeled "Replace Values (0)".

7. Select all the entries and click on “Replace Values” button for providing the value.

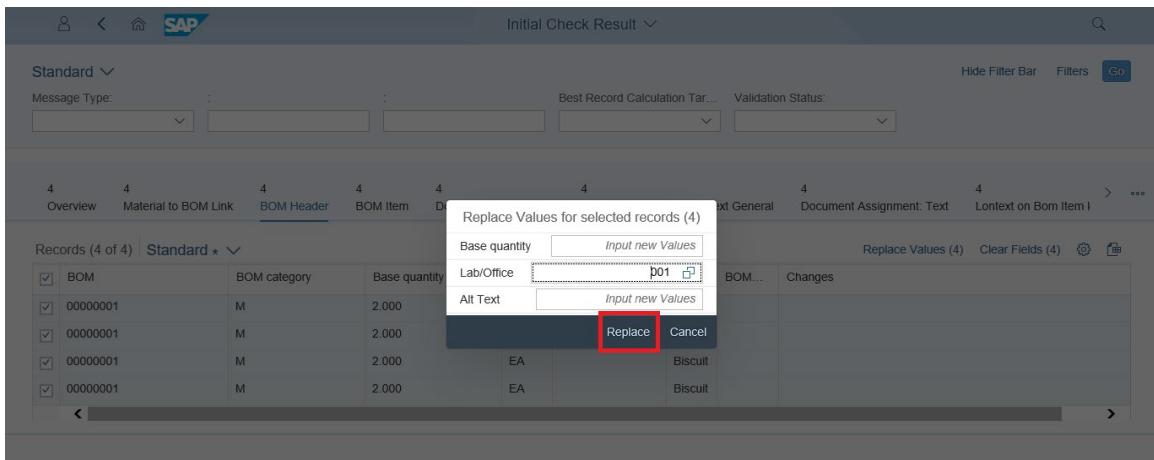
Note

Individual records can be selected by clicking on the row. F4 helps are available for fields on the UI for selection.



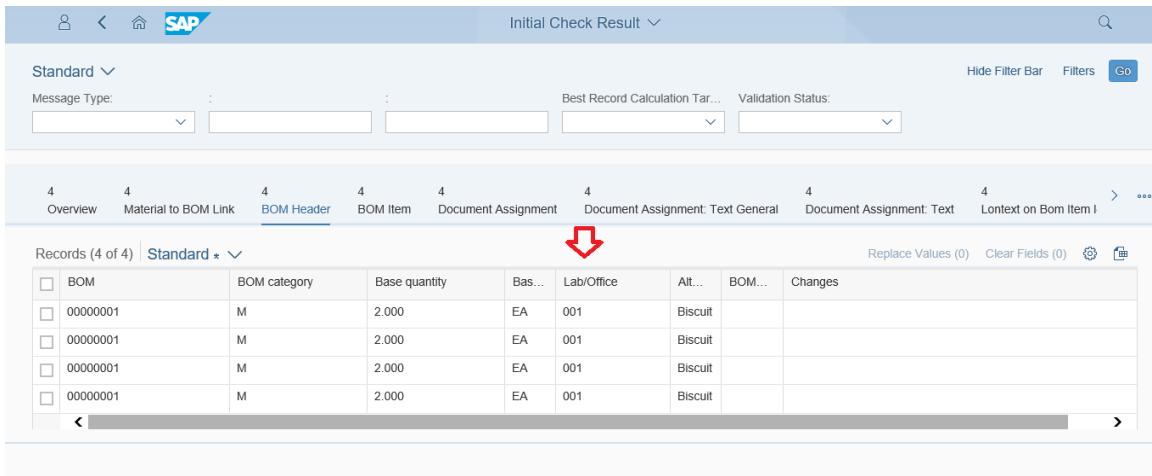
This screenshot shows a modal dialog box titled "Replace Values for selected records (4)". The dialog contains three input fields: "Base quantity" (with placeholder "Input new Values"), "Lab/Office" (with placeholder "001" and a dropdown arrow), and "Alt Text" (with placeholder "Input new Values"). Below these fields are two buttons: "Replace" and "Cancel". The "Replace" button is highlighted with a red box. The background of the dialog is dark grey, while the buttons and text are white or light-colored.

8. Once the value is selected against the field, click on “Replace” button on the pop-up screen.



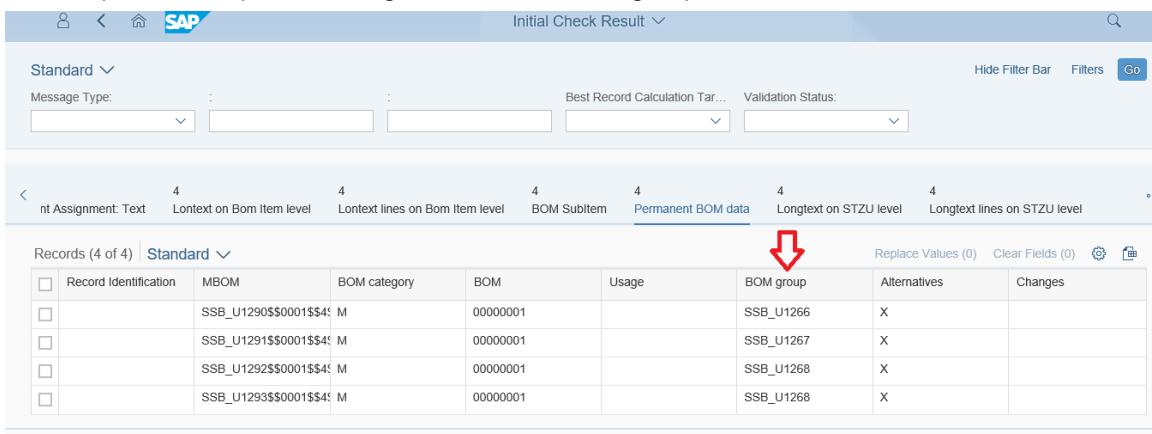
This screenshot shows the same modal dialog as the previous one, but the "Replace" button is now highlighted with a red box, indicating it is the next step to be clicked.

You can see that the values have been changed to the new ones as provided in the above step.

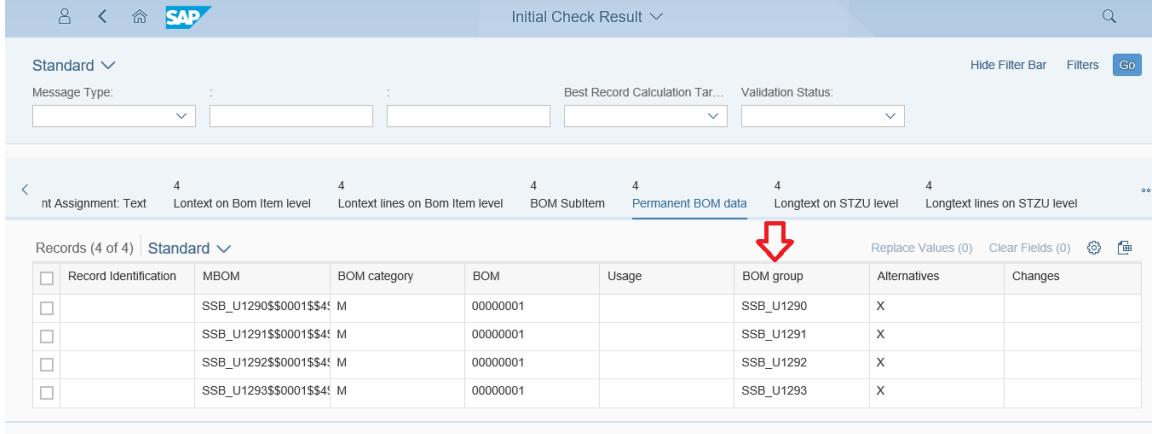


Record ID	BOM	BOM category	Base quantity	Bas...	Lab/Office	Alt...	BOM...	Changes
00000001	M	2.000	EA	001	Biscuit			
00000001	M	2.000	EA	001	Biscuit			
00000001	M	2.000	EA	001	Biscuit			
00000001	M	2.000	EA	001	Biscuit			

- To correct the second error i.e., BOM group already exists, navigate to permanent BOM data tab and provide unique values against the field BOM group or it can be left blank.

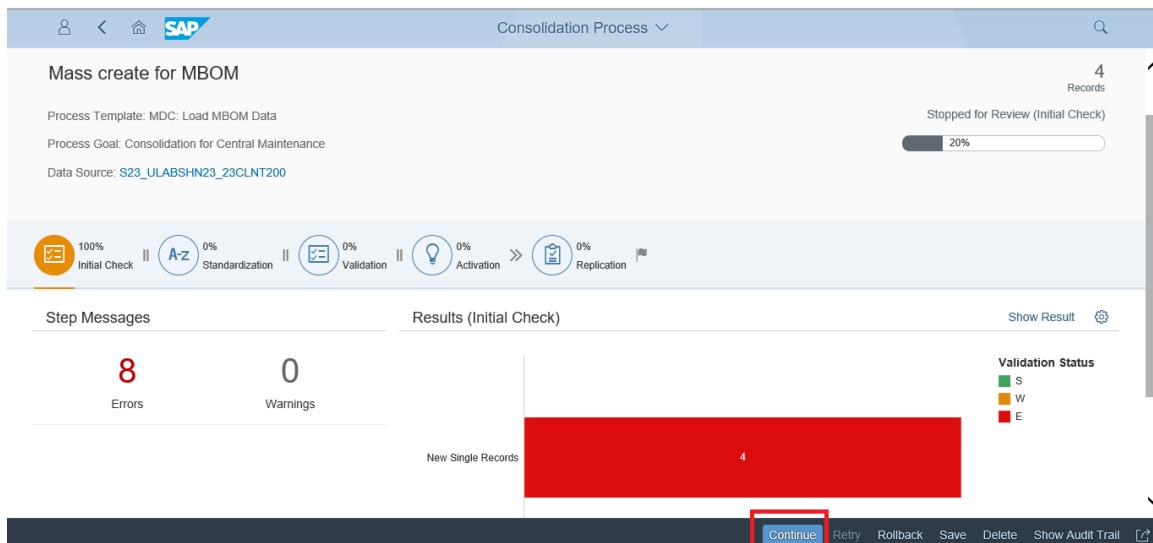


Record ID	MBOM	BOM category	BOM	Usage	BOM group	Alternatives	Changes
SSB_U1290\$0001\$4\$ M			00000001		SSB_U1266	X	
SSB_U1291\$0001\$4\$ M			00000001		SSB_U1267	X	
SSB_U1292\$0001\$4\$ M			00000001		SSB_U1268	X	
SSB_U1293\$0001\$4\$ M			00000001		SSB_U1268	X	



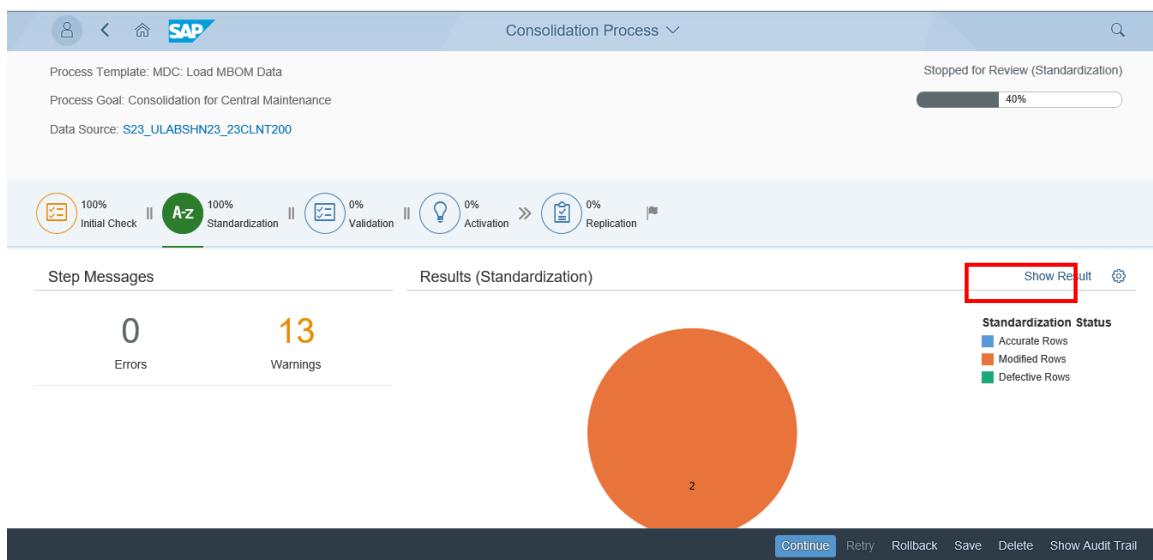
Record ID	MBOM	BOM category	BOM	Usage	BOM group	Alternatives	Changes
SSB_U1290\$0001\$4\$ M			00000001		SSB_U1290	X	
SSB_U1291\$0001\$4\$ M			00000001		SSB_U1291	X	
SSB_U1292\$0001\$4\$ M			00000001		SSB_U1292	X	
SSB_U1293\$0001\$4\$ M			00000001		SSB_U1293	X	

- Once all the errors are corrected, click on the “Continue” button to proceed to the next step.

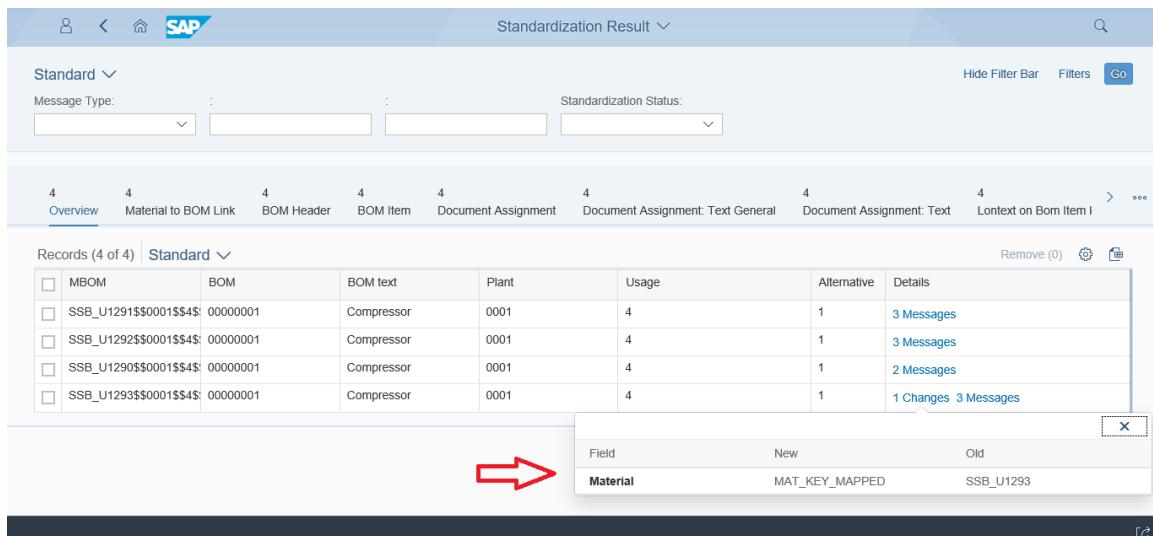


The next step is configured as “Standardization”. This step has the key mapping and value mapping adapters assigned. The records are shown in graph with different color conventions to differentiate the accurate, modified and defective records.

- Click on the “Show Result” to view the detailed result messages under the Details column of the Overview tab.

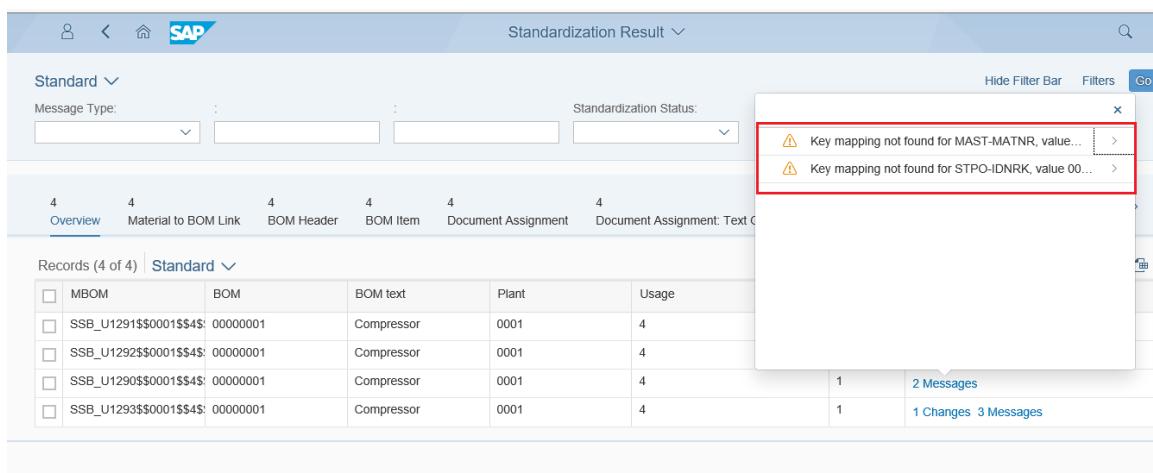


The highlighted message in the following screen displays that the material key has been replaced with the key mapped material.



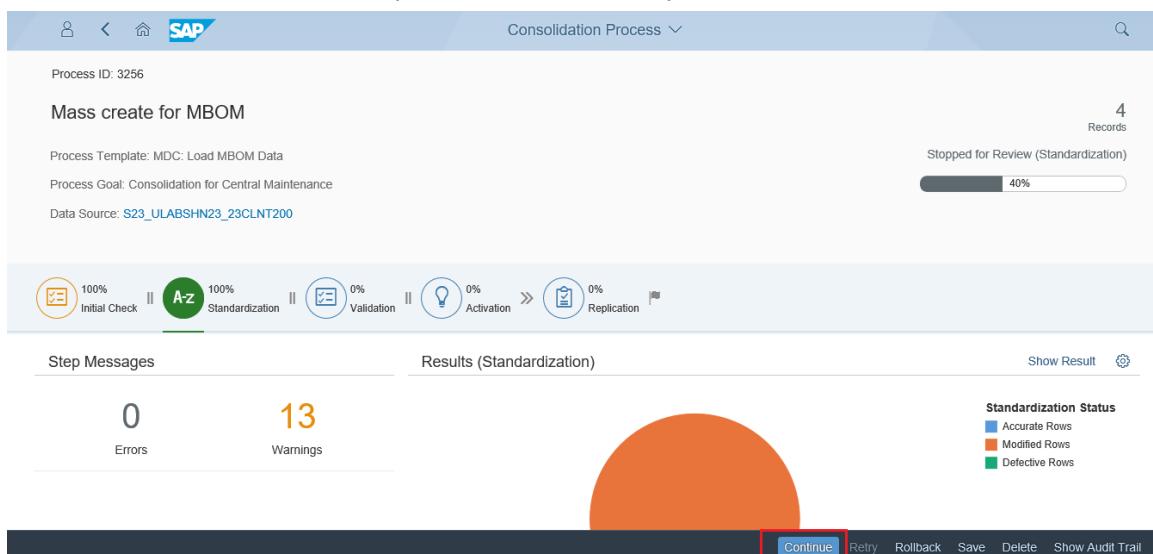
The screenshot shows the SAP Standardization Result interface. A table displays 4 BOM records. A context menu is open over the fifth record, showing a mapping dialog for the 'Material' field. The dialog shows 'Field' (Material), 'New' (MAT_KEY_MAPPED), and 'Old' (SSB_U1293). A red arrow points to the mapping dialog.

Warning messages appear for the fields for which the key mapping is not maintained.



The screenshot shows the SAP Standardization Result interface. A message dialog box is open, containing two warning messages: 'Key mapping not found for MAST-MATNR, value...' and 'Key mapping not found for STPO-IDNRK, value 00...'. Both messages are highlighted with a red border. Below the dialog is a table of BOM records.

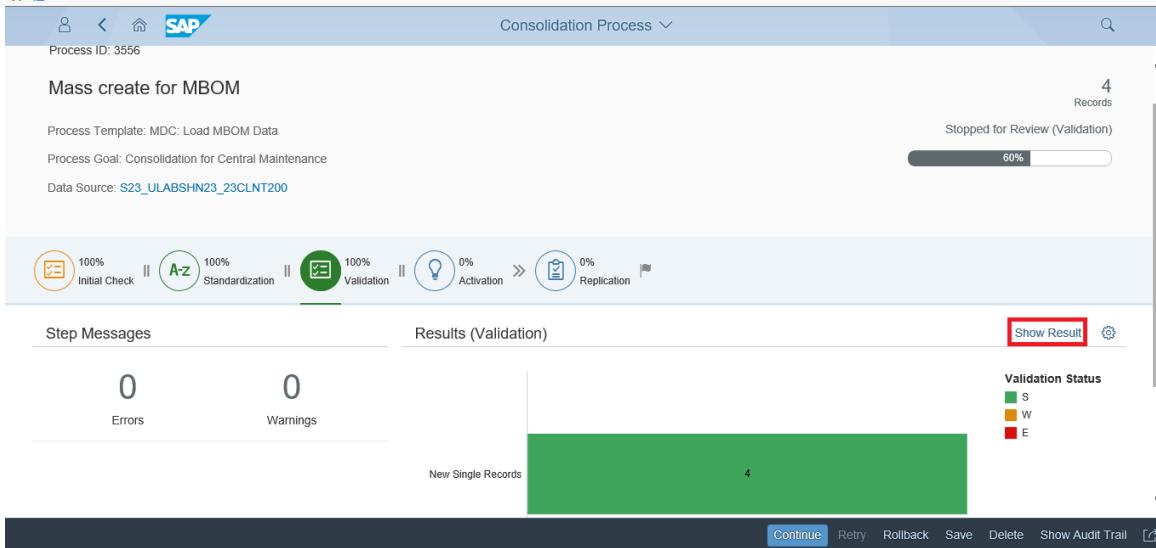
12. Click on the "Continue" button to proceed to the next step.



The screenshot shows the SAP Consolidation Process interface for a process ID of 3256. The current step is 'Standardization' (A-Z), which is 100% complete. The status bar indicates 'Stopped for Review (Standardization)'. The results section shows 0 errors and 13 warnings. A legend for 'Standardization Status' includes 'Accurate Rows' (blue), 'Modified Rows' (orange), and 'Defective Rows' (green). A red box highlights the 'Continue' button at the bottom of the screen.

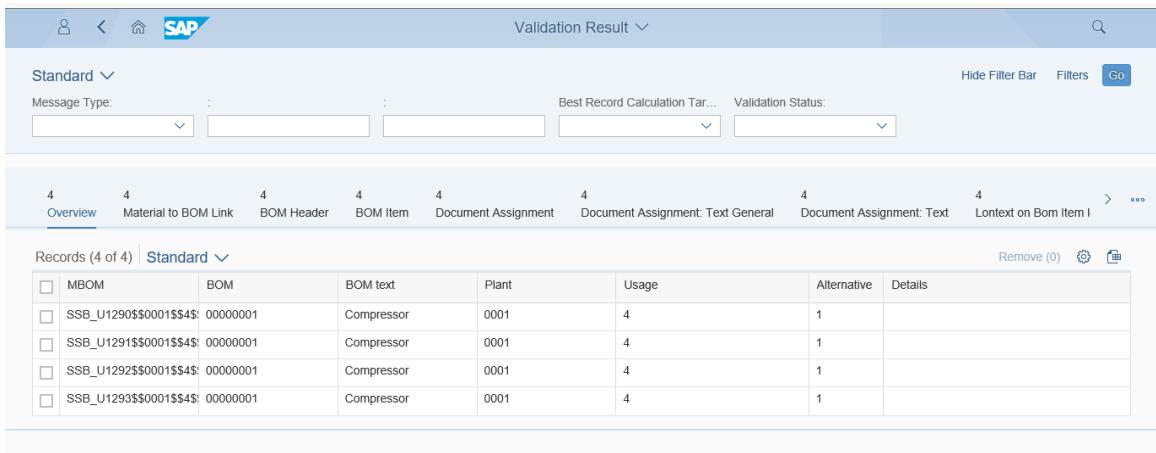
Once the nonexistent material has been replaced with the key mapped material, the error messages that appeared in Initial Check, does not appear in the Validation step.

13. In case of errors, click on “Show Result” button to view and change the data.



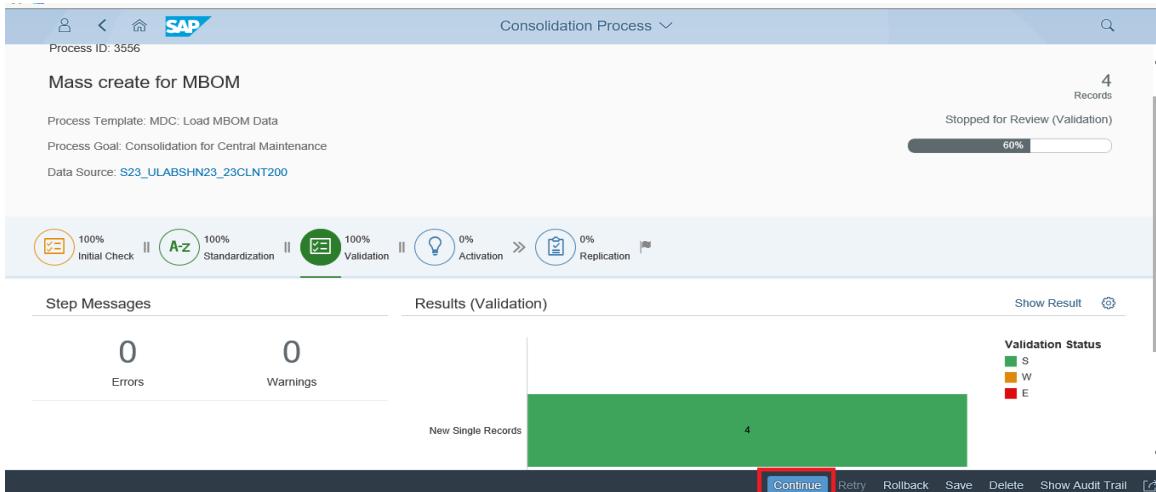
The screenshot shows the SAP Fiori interface for the 'Mass create for MBOM' process. At the top, it displays 'Process ID: 3556' and 'Consolidation Process'. Below that, it says 'Mass create for MBOM' with a note 'Stopped for Review (Validation)'. The validation status bar shows '4 Records', '60%', and a progress bar. The process template is 'MDC: Load MBOM Data' and the goal is 'Consolidation for Central Maintenance'. The data source is 'S23_ULABSHN23_23CLNT200'. Below the status bar, there are five steps: Initial Check (100%), Standardization (100%), Validation (100%, green), Activation (0%), and Replication (0%). The 'Validation' step is highlighted. A 'Step Messages' section shows 0 Errors and 0 Warnings. A 'Results (Validation)' section shows 4 New Single Records, all marked as 'S' (green). At the bottom, there are buttons for Continue, Retry, Rollback, Save, Delete, Show Audit Trail, and a refresh icon.

The data can be seen by navigating through different tabs as provided in the following screen.



The screenshot shows the 'Validation Result' tab in the SAP Fiori interface. It displays a table of validation results for 4 records. The columns include Overview, Material to BOM Link, BOM Header, BOM Item, Document Assignment, Document Assignment: Text General, Document Assignment: Text, and Lontext on Bom Item I. The first record is MBOM, and the subsequent records are SSB_U1290\$... entries. The table has a header row with columns for Remove (0), settings, and a copy icon. The 'Standard' tab is selected.

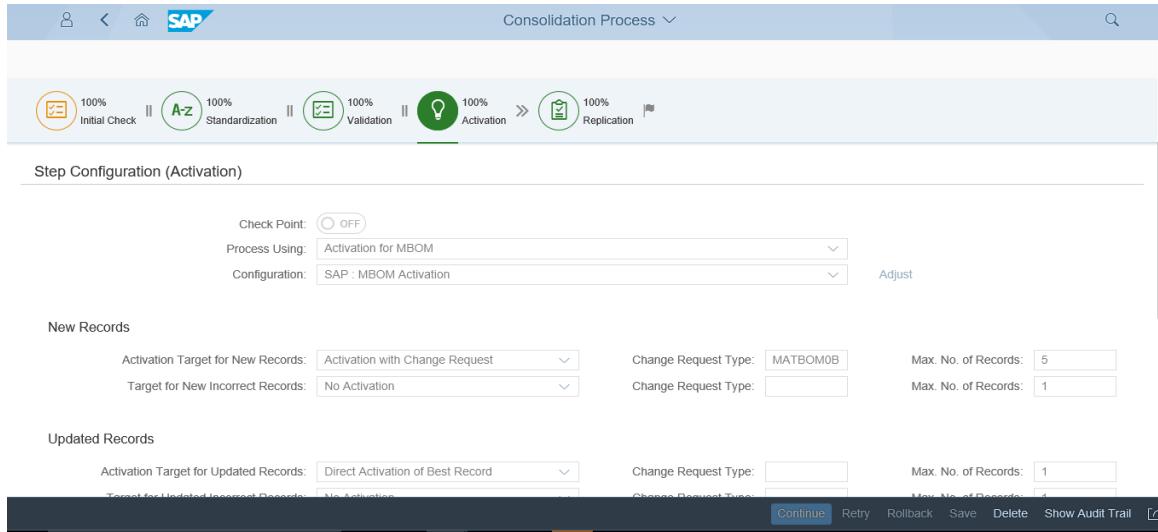
14. Once all the errors are fixed, you can click on the “Continue “button to proceed with the Activation step.



The screenshot shows the SAP Fiori interface for the 'Mass create for MBOM' process. At the top, it displays 'Process ID: 3556' and 'Consolidation Process'. Below that, it says 'Mass create for MBOM' with a note 'Stopped for Review (Validation)'. The validation status bar shows '4 Records', '60%', and a progress bar. The process template is 'MDC: Load MBOM Data' and the goal is 'Consolidation for Central Maintenance'. The data source is 'S23_ULABSHN23_23CLNT200'. Below the status bar, there are five steps: Initial Check (100%), Standardization (100%), Validation (100%, green), Activation (0%), and Replication (0%). The 'Validation' step is highlighted. A 'Step Messages' section shows 0 Errors and 0 Warnings. A 'Results (Validation)' section shows 4 New Single Records, all marked as 'S' (green). At the bottom, there are buttons for Continue, Retry, Rollback, Save, Delete, Show Audit Trail, and a refresh icon. The 'Continue' button is highlighted with a red box.

15. The activation step is followed by the Replication step. Activation can be either Direct activation or through the Change Request.

The Change Request is of type Import MBOM i.e. MATBOM0B.



This screenshot shows the SAP Fiori interface for the 'Consolidation Process' application. The process is titled 'Step Configuration (Activation)'. The top navigation bar includes icons for user, back, home, SAP logo, and search. Below the navigation is a progress bar with five steps: 'Initial Check' (100%), 'Standardization' (100%), 'Validation' (100%), 'Activation' (100%), and 'Replication' (100%). The 'Activation' step is highlighted with a green background.

Step Configuration (Activation)

Check Point: OFF

Process Using: Activation for MBOM

Configuration: SAP : MBOM Activation

New Records

Activation Target for New Records: Activation with Change Request

Target for New Incorrect Records: No Activation

Change Request Type: MATBOM0B

Max. No. of Records: 5

Change Request Type:

Max. No. of Records: 1

Updated Records

Activation Target for Updated Records: Direct Activation of Best Record

Target for Updated Incorrect Records: No Activation

Change Request Type:

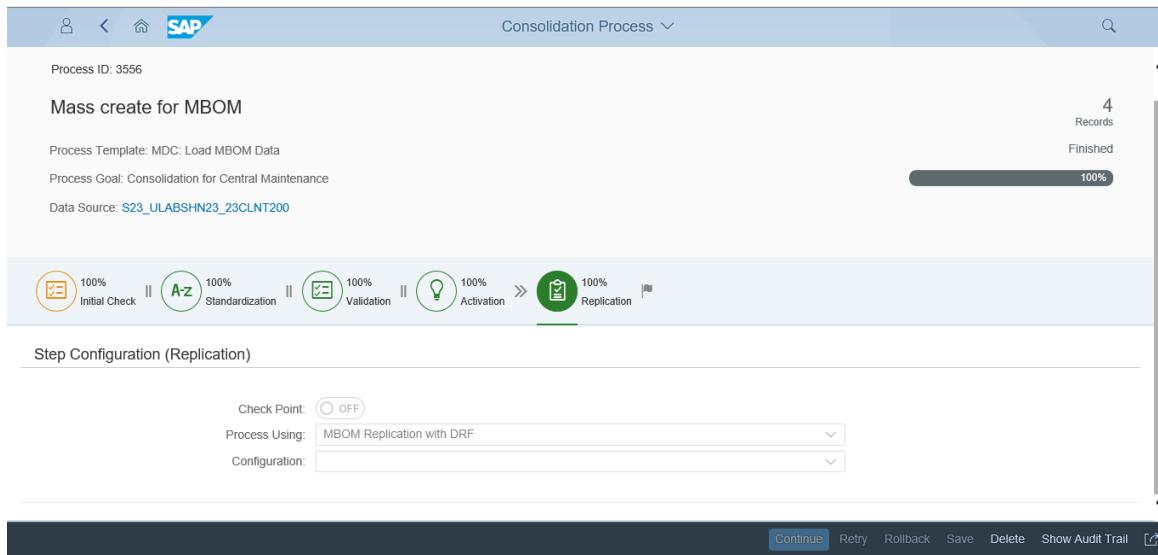
Max. No. of Records: 1

Change Request Type:

Max. No. of Records: 1

Buttons at the bottom: Continue, Retry, Rollback, Save, Delete, Show Audit Trail, and a refresh icon.

16. Once the process is complete, the status of the process ID changes to “Finished”.



This screenshot shows the SAP Fiori interface for the 'Consolidation Process' application. The process is titled 'Mass create for MBOM'. The top navigation bar includes icons for user, back, home, SAP logo, and search. Below the navigation is a progress bar with five steps: 'Initial Check' (100%), 'Standardization' (100%), 'Validation' (100%), 'Activation' (100%), and 'Replication' (100%). The 'Replication' step is highlighted with a green background.

Process ID: 3556

Mass create for MBOM

Process Template: MDC: Load MBOM Data

Process Goal: Consolidation for Central Maintenance

Data Source: S23_ULABSHN23_23CLNT200

4 Records

100% Finished

Step Configuration (Replication)

Check Point: OFF

Process Using: MBOM Replication with DRF

Configuration:

Buttons at the bottom: Continue, Retry, Rollback, Save, Delete, Show Audit Trail, and a refresh icon.

On successful Activation, the Change Request is created in MDG.



Note

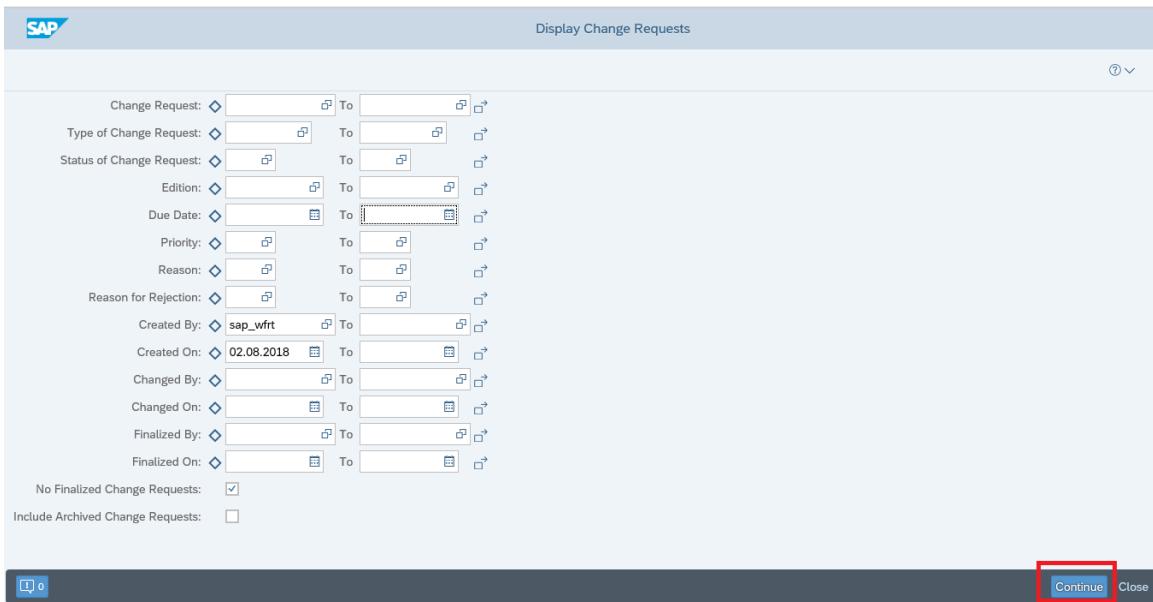
In case the direct activation option is used, the data gets created in backend and does not go through the governance process.

17. Launch t-code NWBC. Use the role /UGI/_MDGEAM_MENU to navigate to the Change Requests created.

The CR of type MATBOM0B is created with user name as SAP_WFRT (background used).

To search for the Change Request created, Provided the “Created by” field as “SAP_WFRT” and “Created on” as date on which the process is launched.

18. Click on “Continue” button.



The screenshot shows the SAP Display Change Requests interface. It features a grid of filter fields with dropdown arrows for selecting values. The fields include:

- Change Request: [dropdown]
- Type of Change Request: [dropdown]
- Status of Change Request: [dropdown]
- Edition: [dropdown]
- Due Date: [dropdown]
- Priority: [dropdown]
- Reason: [dropdown]
- Reason for Rejection: [dropdown]
- Created By: [dropdown] sap_wfrt
- Created On: [dropdown] 02.08.2018
- Changed By: [dropdown]
- Changed On: [dropdown]
- Finalized By: [dropdown]
- Finalized On: [dropdown]

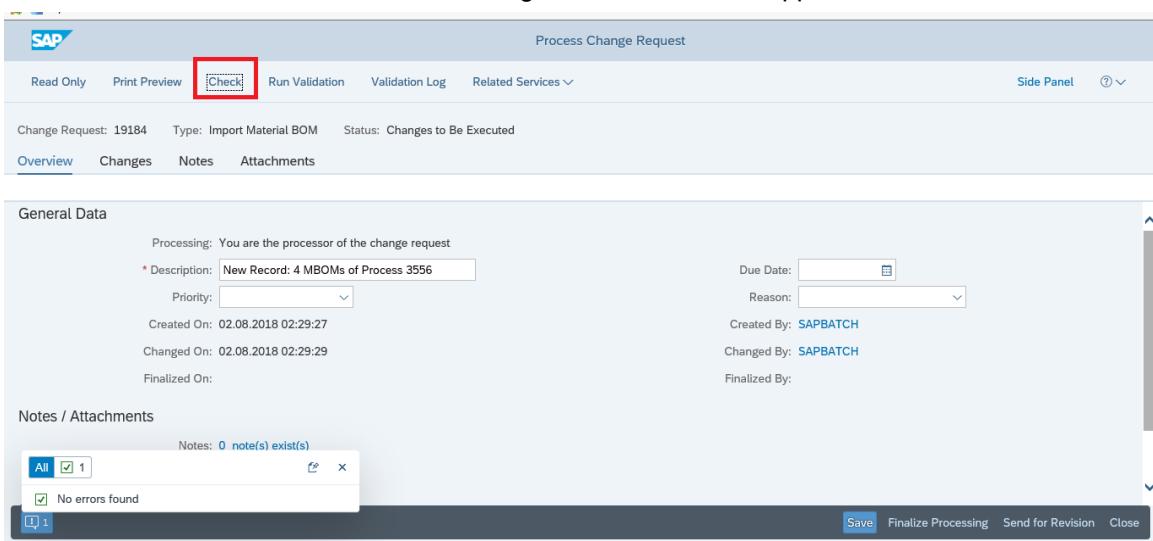
Below the filters are two checkboxes:

- No Finalized Change Requests:
- Include Archived Change Requests:

At the bottom right of the screen is a dark bar with the 'Continue' button highlighted by a red box.

19. Open the Change Request created, click on “Check” button to perform validation.

In case no errors found, the success message “No errors found” appears on the screen.



The screenshot shows the SAP Process Change Request interface. At the top, there is a navigation bar with tabs: Read Only, Print Preview, **Check** (highlighted with a red box), Run Validation, Validation Log, and Related Services. Below the navigation bar, the change request details are displayed:

Change Request: 19184 Type: Import Material BOM Status: Changes to Be Executed

Below the details are three tabs: Overview (selected), Changes, Notes, and Attachments.

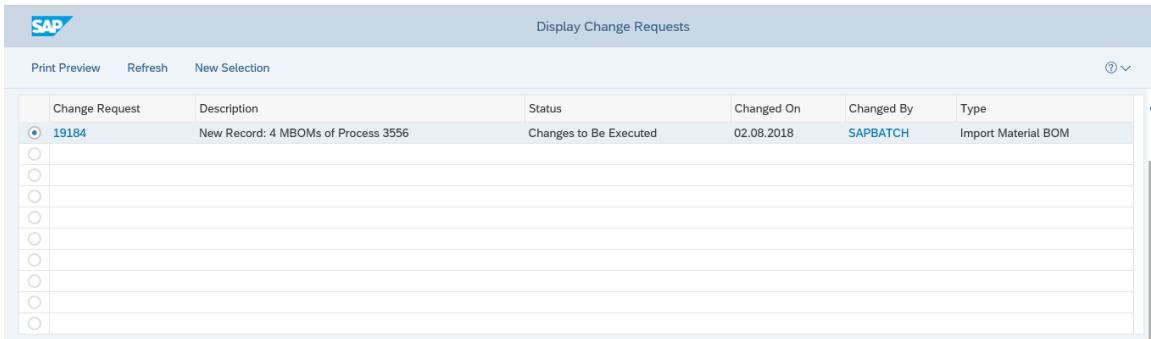
The Overview tab displays the General Data section, which includes processing notes, descriptions, and dates. To the right of the General Data, there are fields for Due Date, Reason, Created By, Changed By, and Finalized By.

The Notes / Attachments section shows a note summary table with one note listed:

All	<input checked="" type="checkbox"/> 1
<input checked="" type="checkbox"/>	No errors found

At the bottom right of the screen are several buttons: Save, Finalize Processing, Send for Revision, and Close.

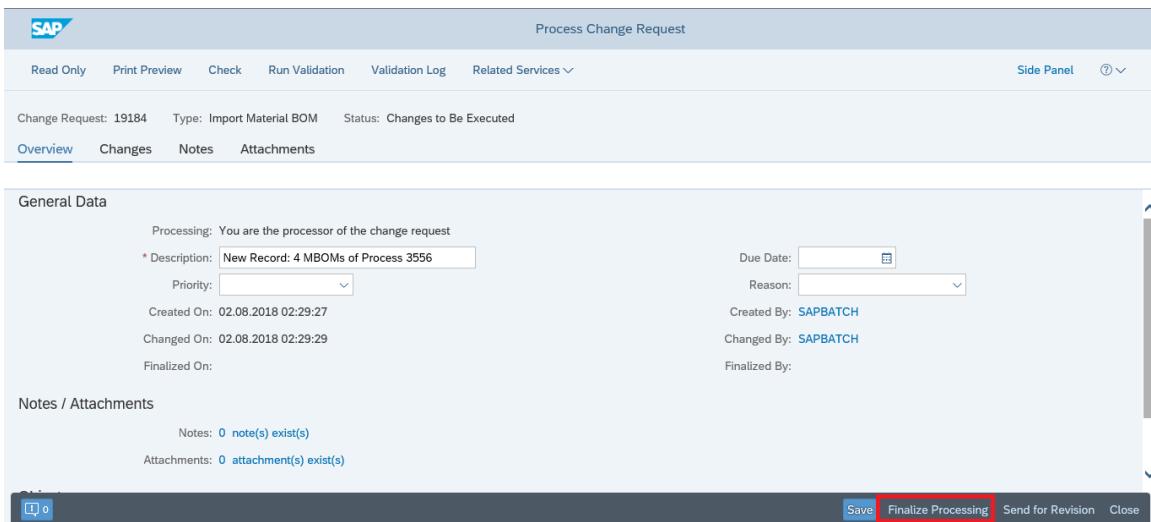
20. Double-Click on the Change Request “19184” to open the Change Request.



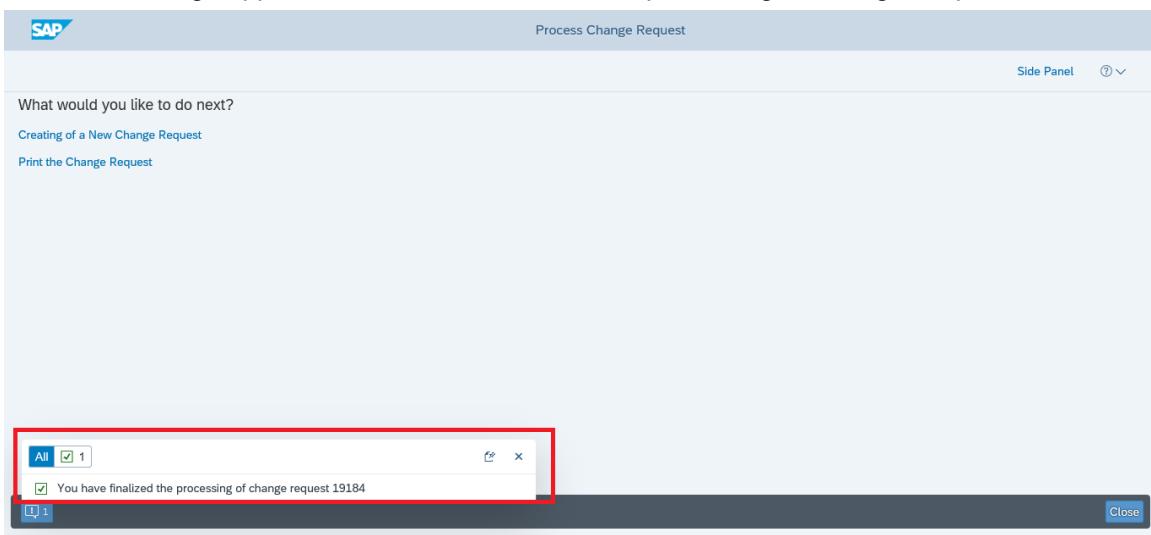
Details of Change Request 19184 (New Record: 4 MBOMs of Process 3556)

MBOM - Material Bill of Material		Change Request Header			
Material	Desc. Long	AltBOM	BOM Usg	Desc. Long	Plnt
SSB_U1290	CHAIR	1	4	Plant Maintenance	0001
SSB_U1291	CHAIR	1	4	Plant Maintenance	0001
SSB_U1292	CHAIR	1	4	Plant Maintenance	0001
MAT_KEY_MAPPED	CHAIR	1	4	Plant Maintenance	0001

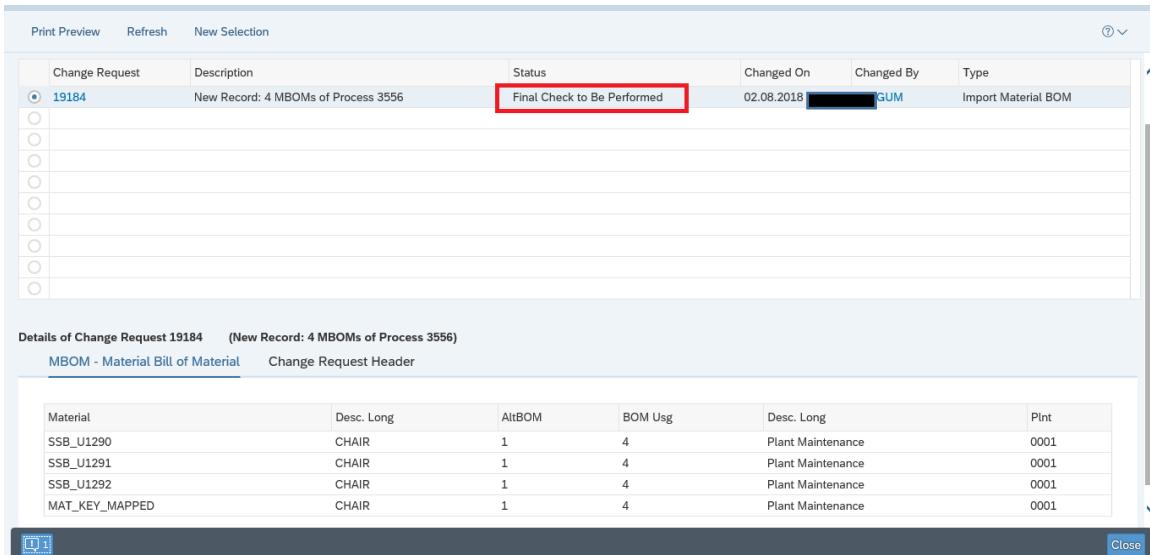
21. Click on “Finalize Processing”.



Success message appears as “You have finalized the processing of Change Request XX”.

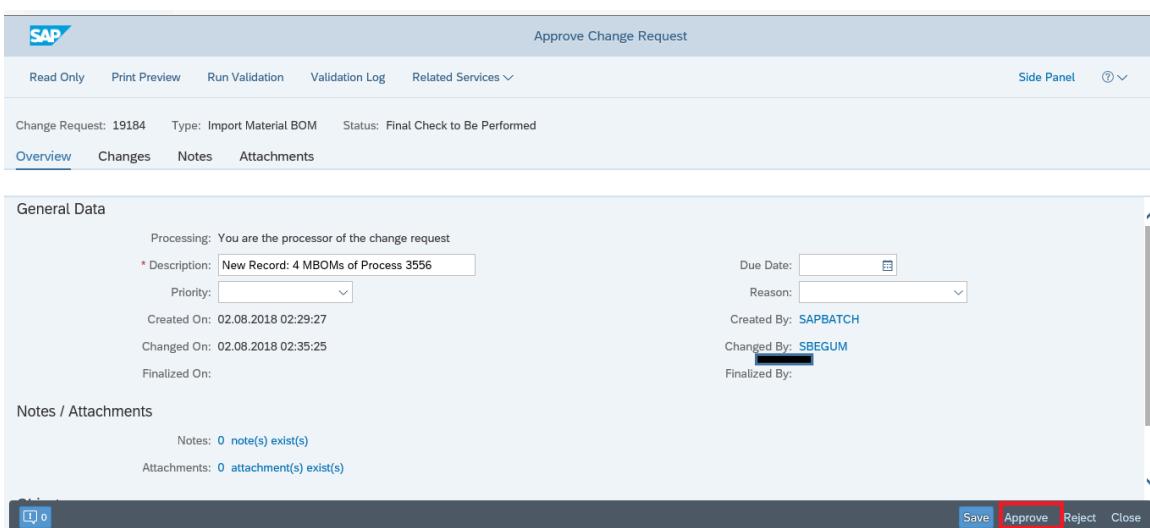


22. Once finalized, the status of the Change Request is changed as “Final check to be performed”.



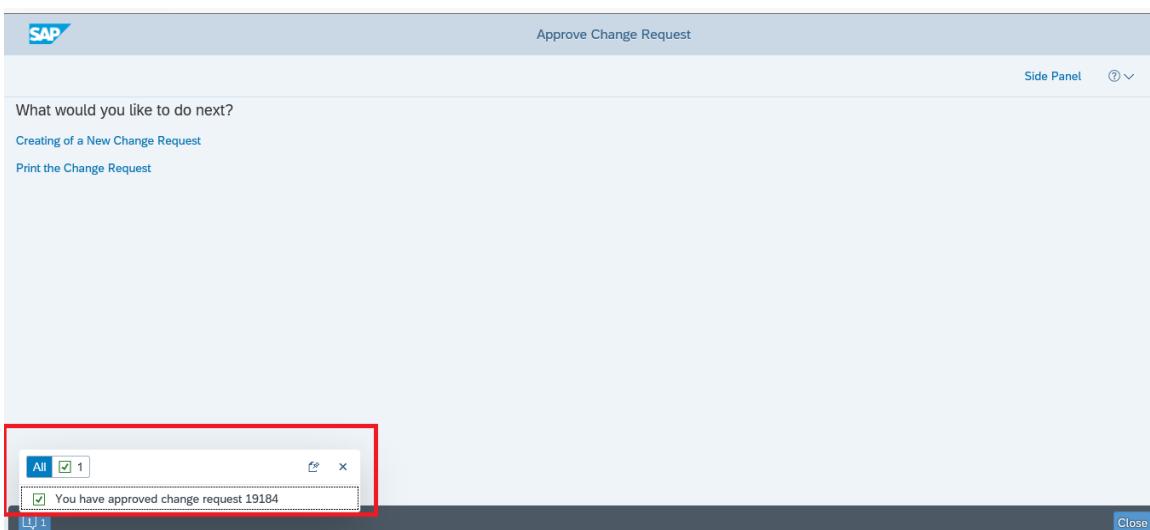
The screenshot shows a table of change requests. The first row, '19184', has its 'Status' field highlighted with a red box, showing 'Final Check to Be Performed'. Other columns include 'Change Request', 'Description', 'Changed On', 'Changed By', and 'Type'. Below the table, a detailed view for 'Change Request 19184' is shown, specifically the 'MBOM - Material Bill of Material' section. It lists several material components with their descriptions, alt-BOM numbers, BOM usages, and plant maintenance details. A 'Print' button and a 'Close' button are visible at the bottom.

23. Click on the “Approve” button.



The screenshot shows the 'Approve Change Request' screen. At the top, it displays the change request number (19184), type (Import Material BOM), and status (Final Check to Be Performed). Below this, there are tabs for 'Overview', 'Changes', 'Notes', and 'Attachments'. The 'General Data' section contains fields for description (New Record: 4 MBOMs of Process 3556), priority (dropdown), due date (calendar icon), reason (dropdown), created by (SAPBATCH), changed by (SBEGUM), and finalized by (dropdown). The 'Notes / Attachments' section shows 0 note(s) and 0 attachment(s). At the bottom, there are buttons for 'Save', 'Approve' (highlighted with a red box), 'Reject', and 'Close'.

The following success message appears as “You have approved the Change Request XX”.



The screenshot shows a success message dialog box. It asks what to do next, listing 'Creating of a New Change Request' and 'Print the Change Request'. At the bottom, there is a message box with a red border containing the text 'You have approved change request 19184'. The dialog also includes buttons for 'All' (checkbox checked), 'Close' (button), and a small 'X' icon.

24. Verify the status of the Change Request as “Final Check Approved”.

Change Requests						
View: [Standard View]		Print Version		Export		
Change Request	Description	Status	Changed On	Changed By	Type	
19184	New Record: 4 MBOMs of Process 3556	Final Check Approved	02.08.2023	SBEGUM	Import Material BOM	

25. Run t-code CS03 to view and validate the Material BOM data created in backend system under all tabs.

The following screen displays the BOM General Item Overview.

Display material BOM: General Item Overview												
												
Material	SSB_U1290	Plant	0001 Werk 0001	Alternative BOM	1 Biscuit	Position	Effectivity	Initial Screen	Material	Document	Class	General
0001 1	00000000000000287	MRO ERSA TEST MATERIAL 287	15	EA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	02.08.2018 31.12.9999	Change No.	P... SortString	Item ID	Chg No. To

The following screen displays the BOM subitems view.

Display material BOM: Sub-Items													
													
Material	SSB_U1290	Plant	0001 Werk 0001	Alternative BOM	1 Biscuit	BOM item							
						Item Number	0001	Component	00000000000000287	MRO ERSA TEST MATERIAL 287	Item category	I PM structure element	Item ID
						Quantity	15	Unit	EA				
BOM sub-items													
0001 P1		Sub-item qty	15,000	Subitem Text	SubItem BOM text1								

The following screen displays the BOM header view.

Display material BOM: Header Overview

Item | Summ.BOM | Alternative Long Text | BOM Long Text

Material	SSB_U1290	Chair
Plant	0001 Werk 0001	
BOM	00000793	
Alternative BOM	1	
BOM Usage	4 Plant Maintenance	
Technical type		
BOM group		

Quantities/Long Text Additional Data Administration Data Document Assignment

Linked Documents

All versions

All released Versions

Latest Version

Class, Lon	Type	Document	Lrv	Lvr	Released	Part	Vs	Description
DRW	100000000000		02		000	00		Document

26. Once the Change Request is approved, the data is replicated to the connected systems through the Data Replication Framework (DRF) of MDG.
27. Run t-code WE02 to view the IDocs created for the Material BOM.

The message type for material BOM is BOMMAT.

IDoc List

Selected IDocs 00000181

Outbound IDocs BOMMAT Status: 03

IDoc Number	Segm..	Stat..	Stat... Partner	Basic type	Created On	Created at	Messg.T...	Direction	Port
0000000000104002	8 03	OO	LS/ /S23CLNT2...	BOMMAT05	02.08.2018	03:01:17	BOMMAT	Outbox	S23CLNT200
0000000000104008	9 03	OO	LS/ /S23CLNT2...	BOMMAT05	02.08.2018	03:02:11	BOMMAT	Outbox	S23CLNT200
0000000000104009	9 03	OO	LS/ /S23CLNT2...	BOMMAT05	02.08.2018	03:02:11	BOMMAT	Outbox	S23CLNT200
0000000000104010	14 03	OO	LS/ /S23CLNT2...	BOMMAT05	02.08.2018	03:02:11	BOMMAT	Outbox	S23CLNT200

You can double-click on the IDoc number and navigate through the Data records to view the data.



In case of direct activation, the IDOC are triggered immediately once the process is completed.

IDoc Display: 0000000000104009

Segments with Errors |  

IDoc display	Additional informa...
<ul style="list-style-type: none"> IDoc 0000000000104009 <ul style="list-style-type: none"> Control Record Data records <ul style="list-style-type: none"> E1STZUM E1SZUTH E1MASTM E1STKOM E1STPOM 	Total number: 000005
<ul style="list-style-type: none"> Status records 	

Short Technical Information

Direction	1	Outbox
Current Status	03	CC
Basic type	BOMMAT05	
Extension		
Message Type	BOMMAT	
Partner No.	S23CLNT200	
Partn.Type	LS	
Port	S23CLNT200	

Content of Selected Segment

Fld Name	Fld Cont.
MSGFN	004
MATNR	SSB_U1292
WERKS	0001
STILAN	4
STLNR	00000792
STLAL	01
LOSVN	0.000
LOSBS	0.000
MATNR_LONG	SSB_U1292

Mass Change

Mass Change is used for changing the already existing active data. The Master Data Consolidation and Mass processing for EAM solutions come with separate Fiori applications for Start Mass Processing and Manage Mass Processes for each of the business object type.

Configure Process Template

Use the following steps to configure the process template:

1. Run t-code MDCIMG.
2. Navigate through the following customizing path:
Master Data Governance, Consolidation and Mass Processing > Specify Adapters
3. Ensure that the following adapters are available to be used for MBOM.

Display View "Master Data Consolidation: Configuration of Adapters": O			
BO Type	Step Type	Process Step Adapter	Adapter Description
237	Activation	/UGI/CL_MDC_ADAPTER_MBOM_ACT	Activation for MBOM
237	BR Best Record Calculat...	/UGI/CL_MDC_ADAPTER_MBOM_BRC	MBOM Best Record Calculation
237	EDI Edit	CL_MDC_ADAPTER_EDI	Interactive Mass Processing
237	FAR Filter & Remove	CL_MDC_ADAPTER_FAR	Filter and Remove
237	MTC Matching	/UGI/CL_MDC_ADAPTER_MBOM_MTC	MBOM Matching
237	MTC Matching	CL_MDC_ADAPTER_FUZZY_MTC	CL_MDC_ADAPTER_FUZZY_MTC
237	MTC Matching	CL_MDC_ADAPTER_MTC	CL_MDC_ADAPTER_MTC
237	REP Replication	/UGI/CL_MDC_ADAPTER_MBOM REP	MBOM Replication with DRF
237	STD Standardization	/UGI/CL_MDC_ADAPTER_BOM_VALMAP	Evaluate value mapping for MBOM
237	STD Standardization	/UGI/CL_MDC_ADAPTER_MBOM_KEYMAP	Evaluate Key Mapping for MBOM
237	STD Standardization	CL_MDC_ADAPTER_BRF_STD	BRFplus
237	STD Standardization	CL_MDC_ADAPTER_BRF_UPD	BRFplus
237	VAL Validation	/UGI/CL_MDC_ADAPTER_MBOM_VAL	MBOM Validations (Business Suite)

4. Navigate through the path Master Data Governance, Consolidation and Mass Processing > Configure Process Template > Specify Process Template.
5. Use the following steps to create the process template for the mass change:
 - Click on New Entries.
 - Enter the name of the template.
 - Enter the description for the template.
 - Assign the BO type as “237”.
 - Assign the workflow template as “WS54500001”.
 - Make sure that the process goal is selected as “U- Mass Processing”.
 - Ensure that at least one of the template is marked as “Default” template.
 - The “Delete Source” checkbox and Strategy are disabled for the mass change process goal.

 Note

You can also activate the BC-Set /UGI/MDC_EAM_PT_CONFIG_920 for the default configuration as in the following screen.

Display View "Process Template": Overview								
Proc Tmpl	Description	BO Type	Description	Process Workfl...	Name	Process Goal	Default Te...	Delete Sc...
UGIMASMBOM	Template Config for MBOM Mass update	237	Bill of Material	WS54500001	MDC Workflow	U Mass Processing	<input checked="" type="checkbox"/>	<input type="checkbox"/>

6. Use the following steps to configure the process template steps:

- Mark the process template and click on the path “Process Template Steps”.
- Click on “New entries” button.
- Provide the Step Number and Step sequence in order of occurrence of steps.

 Note

Ensure that the steps are defined in the logically accepted manner. Refer to Configuration Guide for MDC for order details.

- Choose the appropriate “Process Step Type” from the drop-down.
- Choose the adapter registered against the corresponding BO type.
- Choose the Configuration ID, if any for the adapter.

- Mark the “Check Point Active” checkbox to make the process stop after the step.
- Choose the suitable Process Action CTRL from the drop-down.

Change View "Process Template Step": Overview							
Dialog Structure		Process Template	UGIMASBOM	Template Config for MBOM Mass update			
		Bus. Obj. Type	237	Bill of Material			
Process Template Step							
Step	Step Type	Description	BO Type	Adapter	Config. ID	Check Pt.	Action Control for next step
1	EDI Ed.. ▾	Initial Check		CL_MDC_ADAPTER_EDI	UMDCMBOMSC	<input checked="" type="checkbox"/>	No action control
2	VAL Va.. ▾	Validation		/UGI/CL_MDC_ADAPTER_NBOM_VAL	NBOM_VAL	<input checked="" type="checkbox"/>	No action control
3	ACT Ac.. ▾	Activation		/UGI/CL_MDC_ADAPTER_NBOM_ACT	SAP_ACT_BM	<input type="checkbox"/>	No action control

The Config ID field as shown in the above screen is defined in the IMG path

7. Validation can be configured for MDG checks and BRF+.

Change View "Master Data Consolidation: Configurations for Validation"							
Master Data Consolidation: Configurations for Validation							
Configuration ID	SAP_VAL						
Description	Validate Data						
No of Processes	10						
Queue Prefix							
<input checked="" type="checkbox"/> MDG Checks							
<input checked="" type="checkbox"/> BRF+ Checks							
<input type="checkbox"/> Write MDQ Worklist							
<input type="checkbox"/> Remove Unchanged Rec							
Threshold	10						

The default configuration is “Direct Activation”. This can be changed to “Activation with Change Request” with the Change Request MATBOM0B. The value “Max. Rec” can be changed to a value to indicate the number of BOM objects allowed per Change Request.

Upon successful activation, the data is created in backend.

8. Replication is integrated with the Activation step for Direct Activation. The checkbox “Call DRF after activation” should be marked for the IDocs to be generated after successful activation.

Display View "Configurations for Activation for MBOM": Details

Configuration ID / Description	SAP_ACT_BM SAP : MBOM Activation			
Configurations for Activation for MBOM				
Number of Processes	10	Type of Change Request	Max. Rec. 0	
Prefix for Queue Name	MDC_MBOM_ACT_Q_	Type of Change Request	Max. Rec. 0	
New Records				
Activation Target for New Records	1 Direct Activation	Type of Change Request	Max. Rec. 0	
Target for New Incorrect Records	N No Activation	Type of Change Request	Max. Rec. 0	
Updated Records				
Activation Target for Updated Records	1 Direct Activation of Best Record	Type of Change Request	Max. Rec. 0	
Target for Updated Incorrect Records	N No Activation	Type of Change Request	Max. Rec. 0	
Match Group				
Activation Target for Match Groups	1 Direct Activation of Best Record	Type of Change Request	Max. Rec. 0	
Target for Incorrect Match Groups	N No Activation	Type of Change Request	Max. Rec. 0	
Replication				
<input checked="" type="checkbox"/> Call DRF after Activation				

Perform Mass Processing

Direct Change

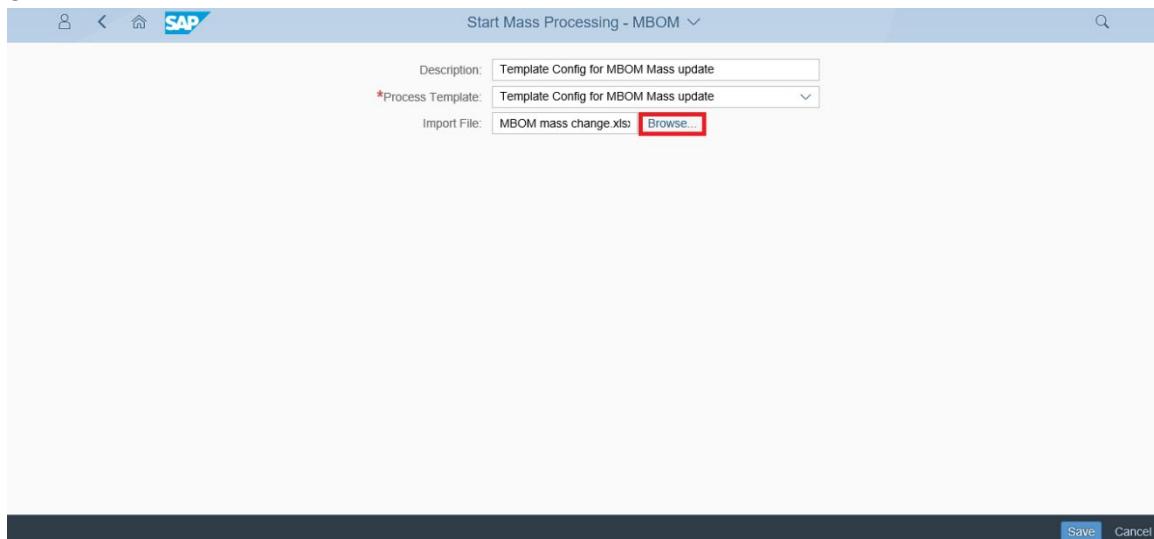
Use the following steps to run the mass change for MBOM using direct method.

1. Launch Fiori launchpad using t-code /UI2/FLP.
2. Run the application “Start Mass Processing”. The default template gets loaded on the initial screen. You can choose the suitable template from the drop down.



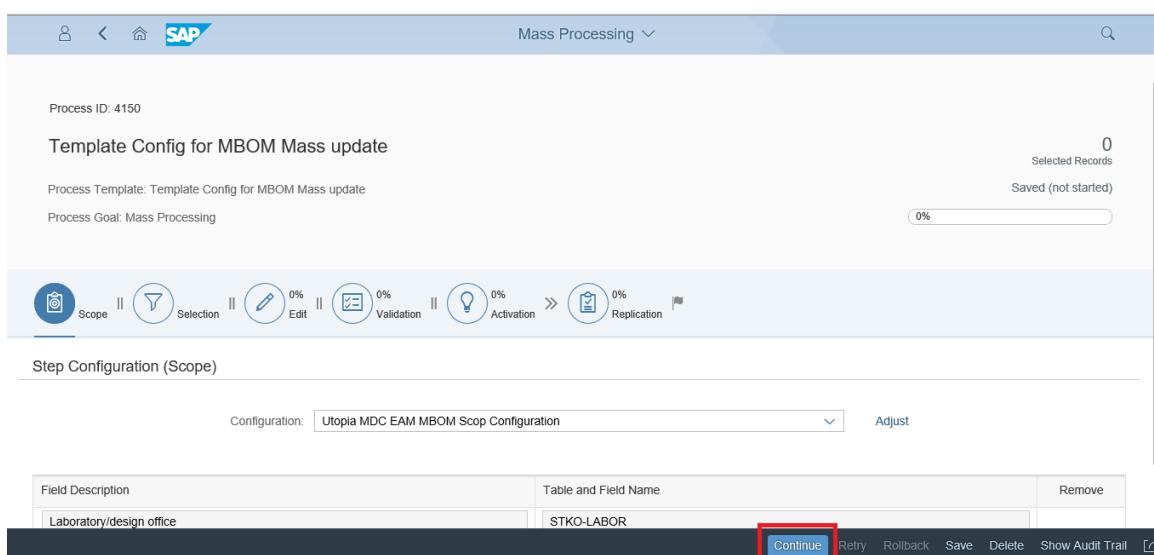
3. Click on the “Browse” button and choose the file to be uploaded for mass change.

4. Click on “Save” button.



This launches a new process ID. The configured steps appear in the sequential manner.

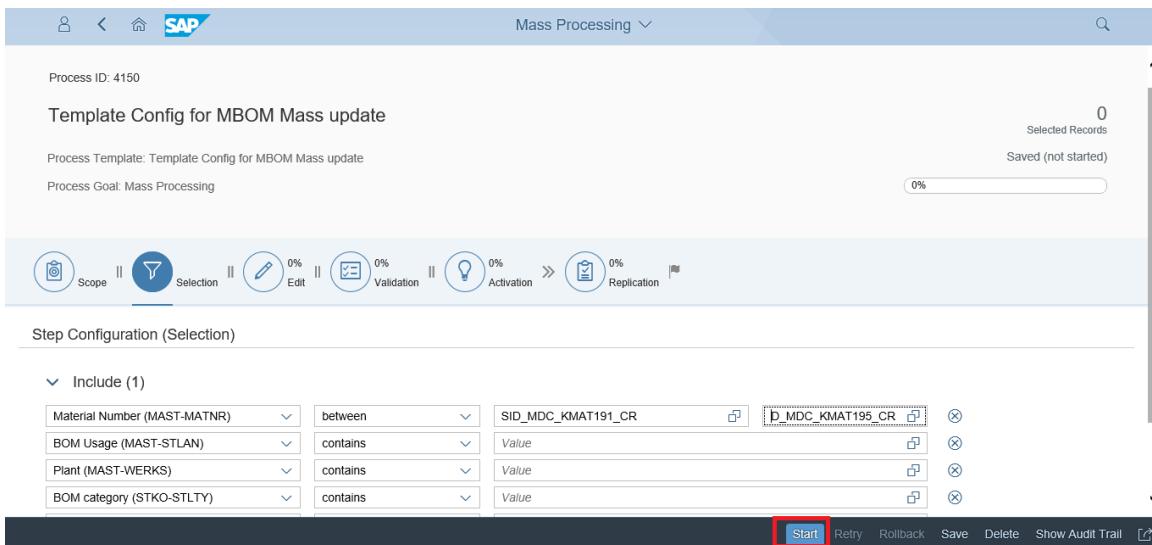
5. Click on the “Continue” button.



Note

When the mass processing is launched, the default configuration is loaded. You can also choose the selection criteria by clicking on the “Adjust” link and select the table and field from the F4 for which mass change is to be performed.

6. The following screen appears to provide the search criteria. To perform an inclusive search, provide the selection criteria under the “Include” tab. For Exclusive criteria, provide the criteria under the “Exclude” tab.



Process ID: 4150

Template Config for MBOM Mass update

Process Template: Template Config for MBOM Mass update

Process Goal: Mass Processing

0 Selected Records
Saved (not started)

Scope Selection Edit Validation Activation Replication

Step Configuration (Selection)

Include (1)

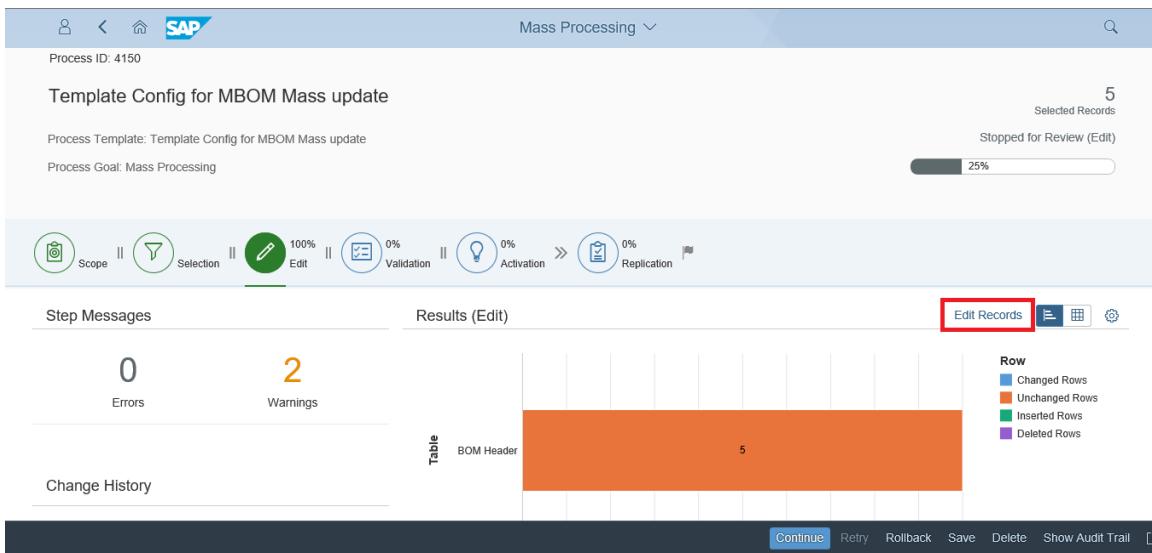
Material Number (MAST-MATNR)	between	SID_MDC_KMAT191_CR	p_MDC_KMAT195_CR
BOM Usage (MAST-STLAN)	contains	Value	
Plant (MAST-WERKS)	contains	Value	
BOM category (STKO-STLTY)	contains	Value	

Start Retry Rollback Save Delete Show Audit Trail

7. Click on the “Start” button once the selection criterion is provided.

A new process ID is created.

8. Click on “Edit Records” to view and change the data.



Process ID: 4150

Template Config for MBOM Mass update

Process Template: Template Config for MBOM Mass update

Process Goal: Mass Processing

5 Selected Records
Stopped for Review (Edit)

25%

Scope Selection Edit Validation Activation Replication

Step Messages

0 Errors 2 Warnings

Results (Edit)

Edit Records

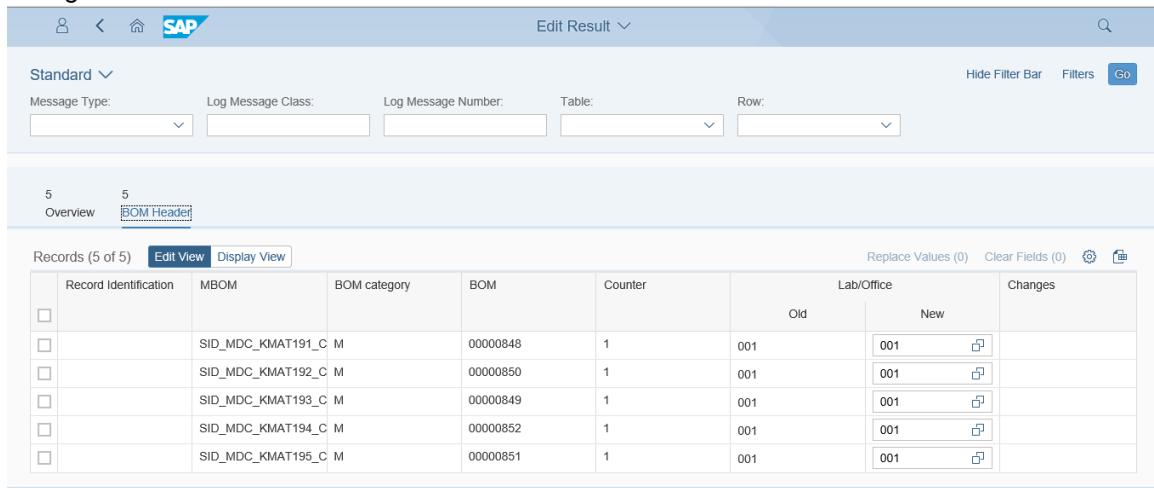
Table BOM Header 5

Change History

Row
Changed Rows
Unchanged Rows
Inserted Rows
Deleted Rows

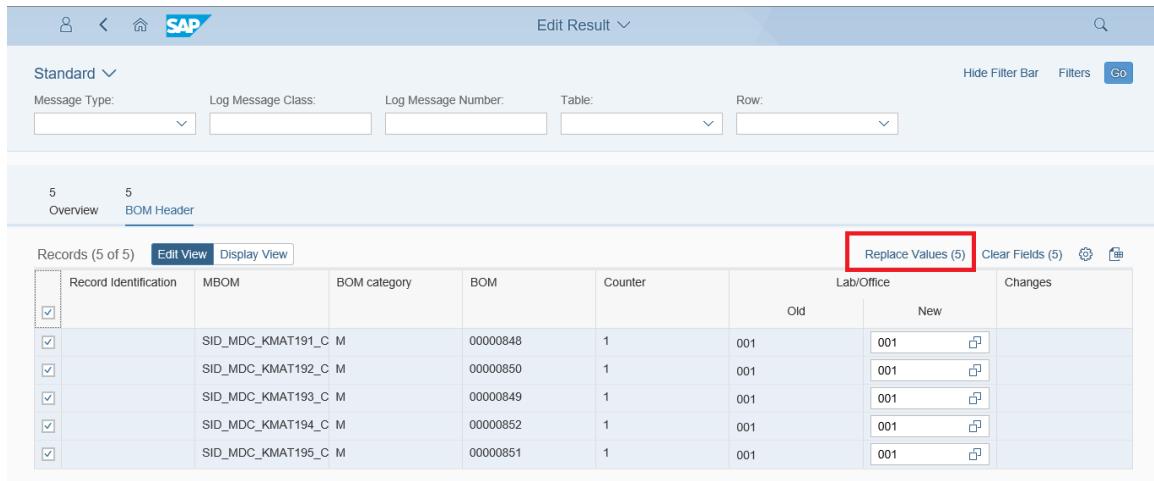
Continue Retry Rollback Save Delete Show Audit Trail

The following screen shows the Overview tab and the BOM Header screens available for changes.



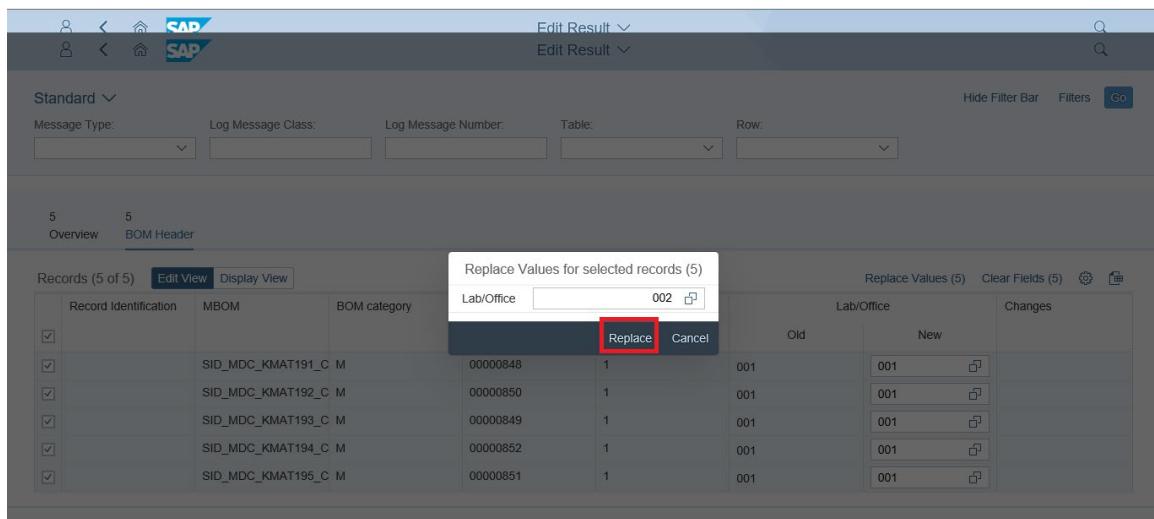
Record Identification	MBOM	BOM category	BOM	Counter	Lab/Office	Changes
					Old	New
<input type="checkbox"/>	SID_MDC_KMAT191_C M		00000848	1	001	<input type="button" value="001"/>
<input type="checkbox"/>	SID_MDC_KMAT192_C M		00000850	1	001	<input type="button" value="001"/>
<input type="checkbox"/>	SID_MDC_KMAT193_C M		00000849	1	001	<input type="button" value="001"/>
<input type="checkbox"/>	SID_MDC_KMAT194_C M		00000852	1	001	<input type="button" value="001"/>
<input type="checkbox"/>	SID_MDC_KMAT195_C M		00000851	1	001	<input type="button" value="001"/>

- To change the value for field, say Labor/Office, mark the required rows or click on the topmost row to select all the rows. Once the selection is made, click on the “Replace Values” button.



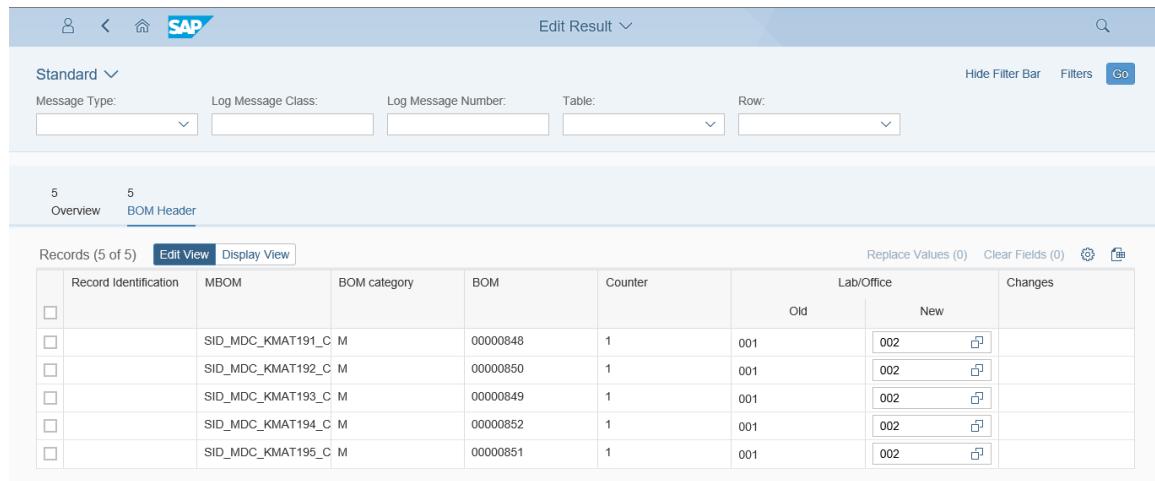
Record Identification	MBOM	BOM category	BOM	Counter	Lab/Office	Changes
<input checked="" type="checkbox"/>					Old	New
<input checked="" type="checkbox"/>	SID_MDC_KMAT191_C M		00000848	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT192_C M		00000850	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT193_C M		00000849	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT194_C M		00000852	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT195_C M		00000851	1	001	<input type="button" value="001"/>

- Enter the value or choose from the F4 help against the field. Click on “Replace” button, once the value has been entered.



Record Identification	MBOM	BOM category	BOM	Counter	Lab/Office	Changes
<input checked="" type="checkbox"/>					Old	New
<input checked="" type="checkbox"/>	SID_MDC_KMAT191_C M		00000848	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT192_C M		00000850	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT193_C M		00000849	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT194_C M		00000852	1	001	<input type="button" value="001"/>
<input checked="" type="checkbox"/>	SID_MDC_KMAT195_C M		00000851	1	001	<input type="button" value="001"/>

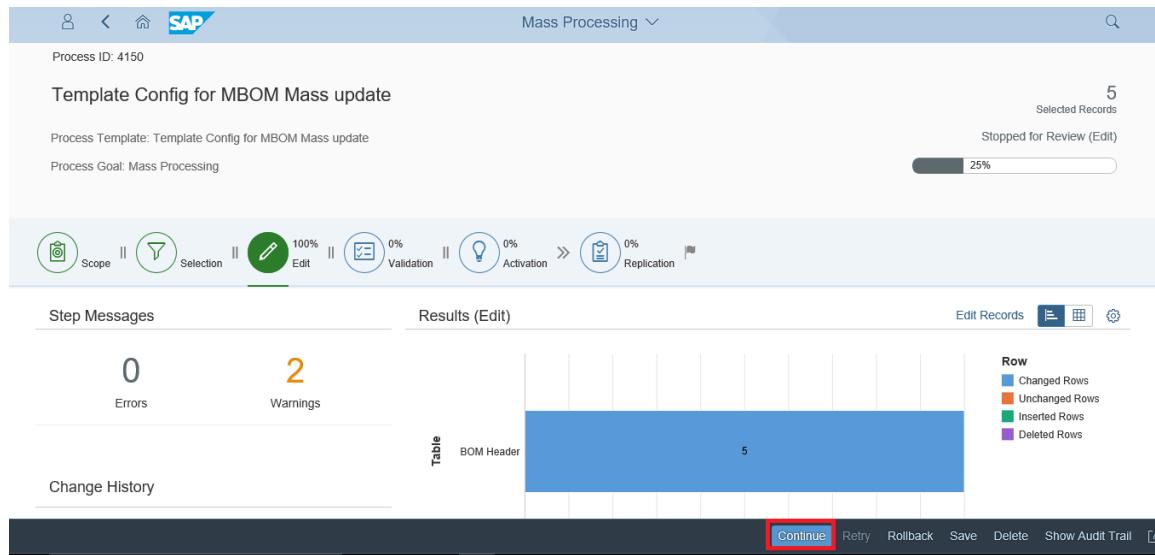
You can see the values have been updated on the UI for the “Labor/Office” field.



The screenshot shows a SAP Fiori application titled "Edit Result". It displays a table of "BOM Header" records. The table has columns: Record Identification, MBOM, BOM category, BOM, Counter, Lab/Office, and Changes. There are 5 rows of data. In the "Changes" column, several rows show a change from "001" to "002" in the "Lab/Office" field, indicated by a blue edit icon.

Record Identification	MBOM	BOM category	BOM	Counter	Lab/Office	Changes
	SID_MDC_KMAT191_C M		00000848	1	001	002
	SID_MDC_KMAT192_C M		00000850	1	001	002
	SID_MDC_KMAT193_C M		00000849	1	001	002
	SID_MDC_KMAT194_C M		00000852	1	001	002
	SID_MDC_KMAT195_C M		00000851	1	001	002

- Click on back () button to go back to the main screen of process ID. Click on “Continue” button to proceed to the next step i.e. validation.

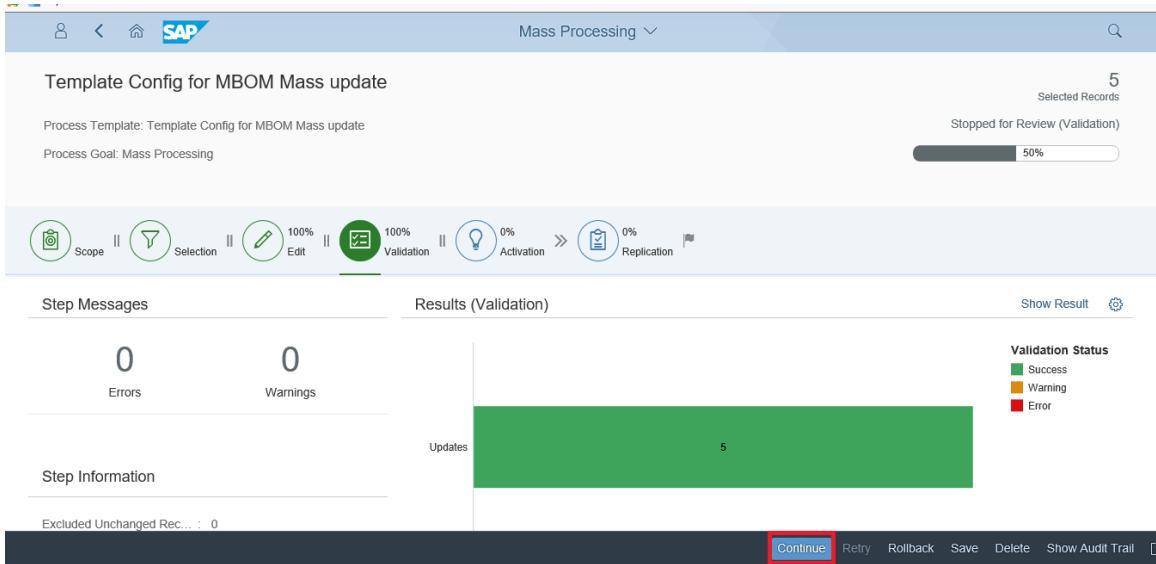


The screenshot shows a SAP Fiori application titled "Mass Processing". It displays a progress bar at 25% completion. Below it, there are tabs for "Scope", "Selection", "Edit", "Validation", "Activation", and "Replication". The "Edit" tab is selected. The "Edit" section shows 0 Errors and 2 Warnings. A table below shows the results for the "BOM Header" table, with 5 rows listed. A legend indicates row status: blue for Changed Rows, orange for Unchanged Rows, green for Inserted Rows, and purple for Deleted Rows. At the bottom, there are buttons for Continue, Retry, Rollback, Save, Delete, and Show Audit Trail. The "Continue" button is highlighted with a red box.

- You can also configure the MDG BAdi validations and BRFplus checks at this step based on the business requirement.

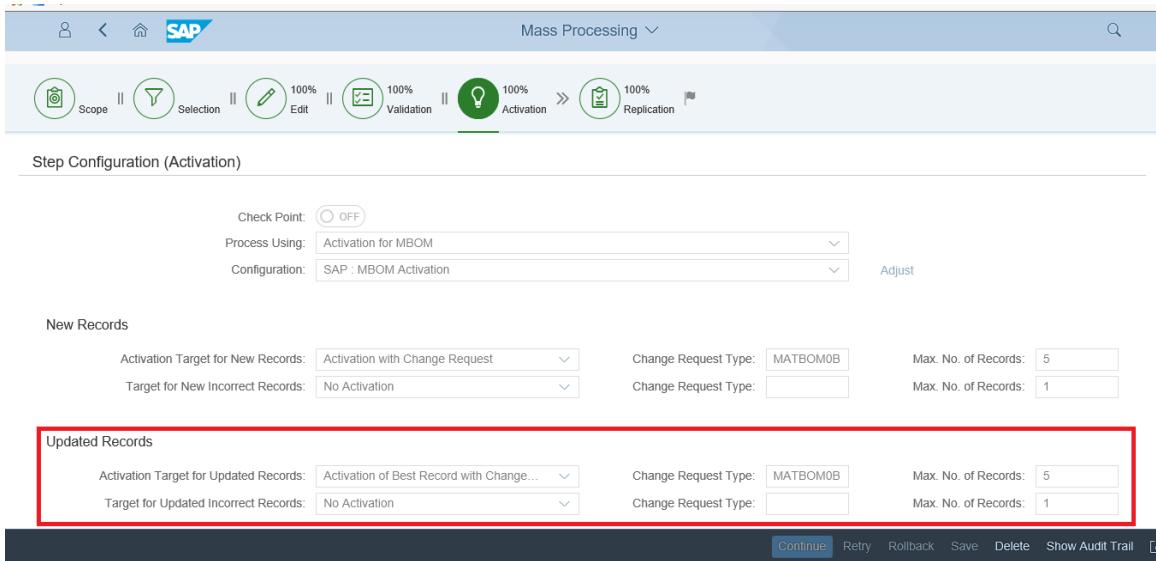
The records are shown in the graph with different color conventions. In case of erroneous records, navigate to the link “Show Result”. You can review and change the data in corresponding tabs.

- Click on “Continue” button to proceed to the next step i.e. Activation.



The screenshot shows the SAP Mass Processing interface for a 'Template Config for MBOM Mass update' process. The Activation step is highlighted with a red border. The interface displays various steps: Scope, Selection, Edit, Validation, Activation, and Replication. The Activation step shows 100% completion. The Replication step shows 0% completion. Step Messages indicate 0 Errors and 0 Warnings. Results (Validation) show 5 updates, all marked as Success. A progress bar at the top right indicates 50% completion of selected records. The bottom navigation bar includes Continue, Retry, Rollback, Save, Delete, Show Audit Trail, and a search icon.

14. Activation of records can be either direct or through Change Request type MATBOM0B.



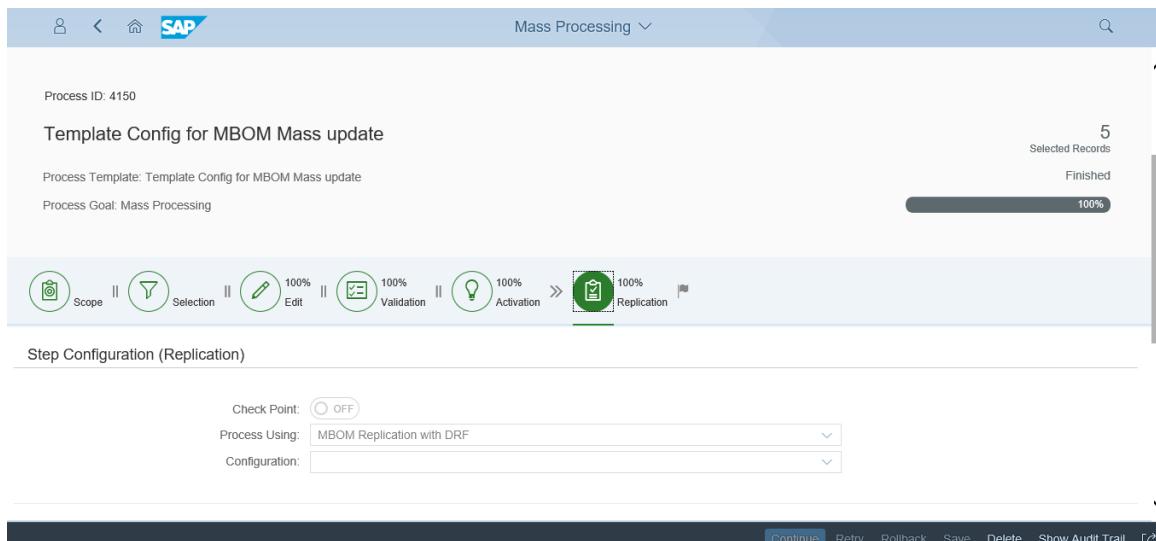
The screenshot shows the SAP Mass Processing interface for 'Step Configuration (Activation)'. The Activation step is highlighted with a red border. Configuration options include: Check Point (OFF), Process Using (Activation for MBOM), and Configuration (SAP : MBOM Activation). Below, under 'New Records', activation targets and change request types are set. Under 'Updated Records', a section is highlighted with a red border, showing activation targets and change request types for updated records. The bottom navigation bar includes Continue, Retry, Rollback, Save, Delete, Show Audit Trail, and a search icon.

15. Replication step is integrated with the activation step.



Note

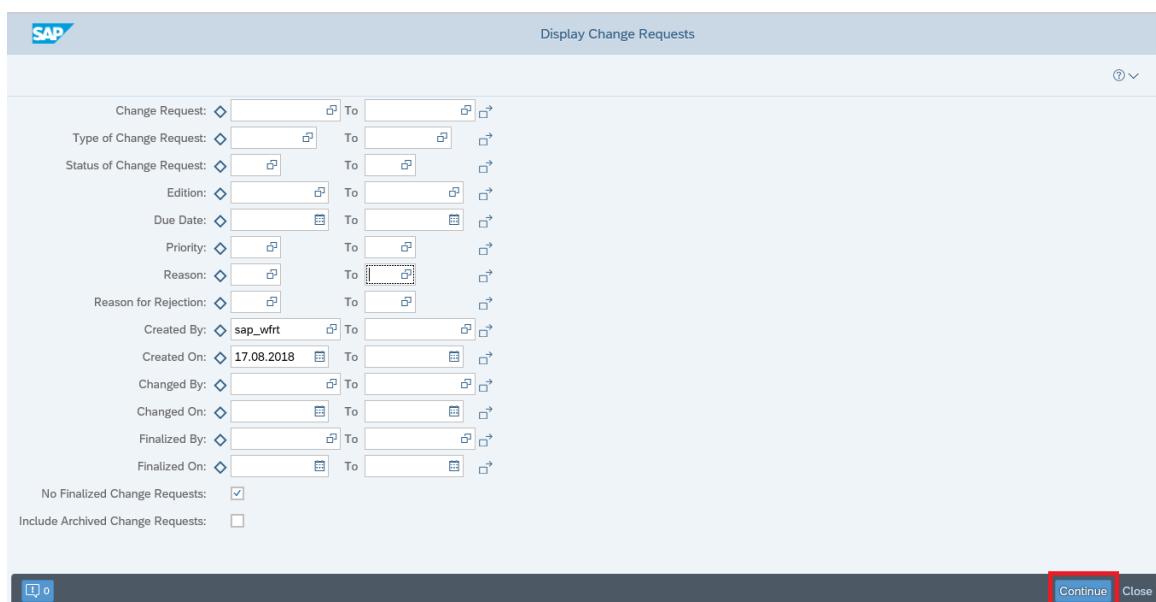
In case of direct activation, the records are replicated immediately after the process is finished through the Data Replication Framework in MDG.



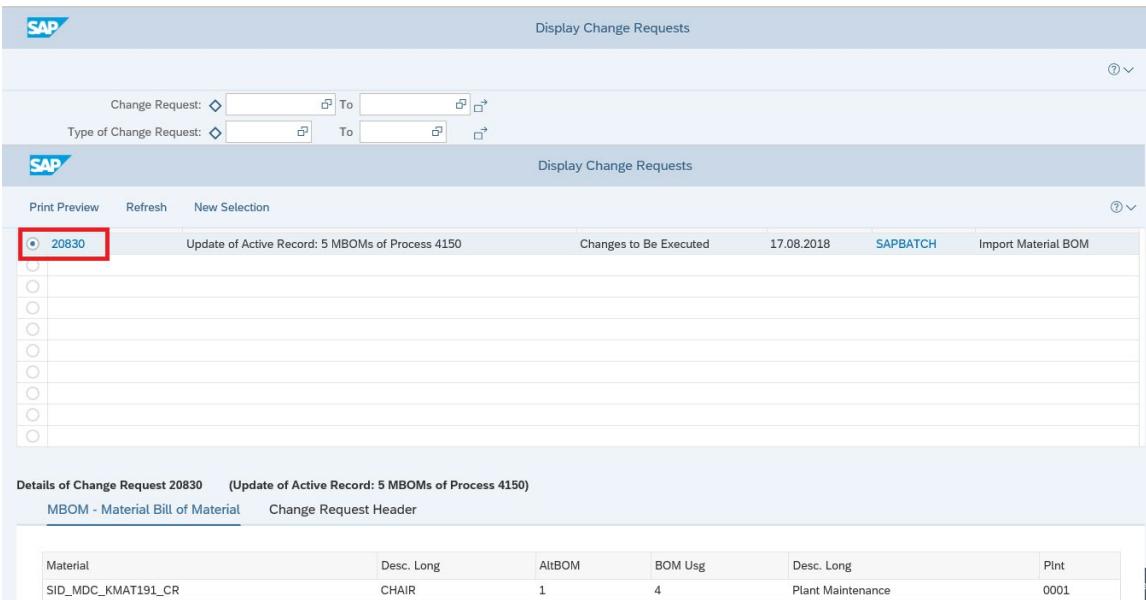
Note

In case the direct activation option is used, the data gets created in backend and does not go through the governance process.

16. Launch t-code NWBC. Use the role “/UGI/_MDGEAM_MENU” to navigate to the Change Requests created.
The CR of type MATBOM0B is created with user name as SAP_WFRT (background used).
To search for the Change Request created, provided the “Created by” field as “SAP_WFRT” and “Created on” as date on which the process is launched.
17. Click on “Continue” button.



18. Double-Click on the Change Request “20830” to open the Change Request.



Display Change Requests

Change Request: [] To []

Type of Change Request: [] To []

Display Change Requests

Print Preview Refresh New Selection

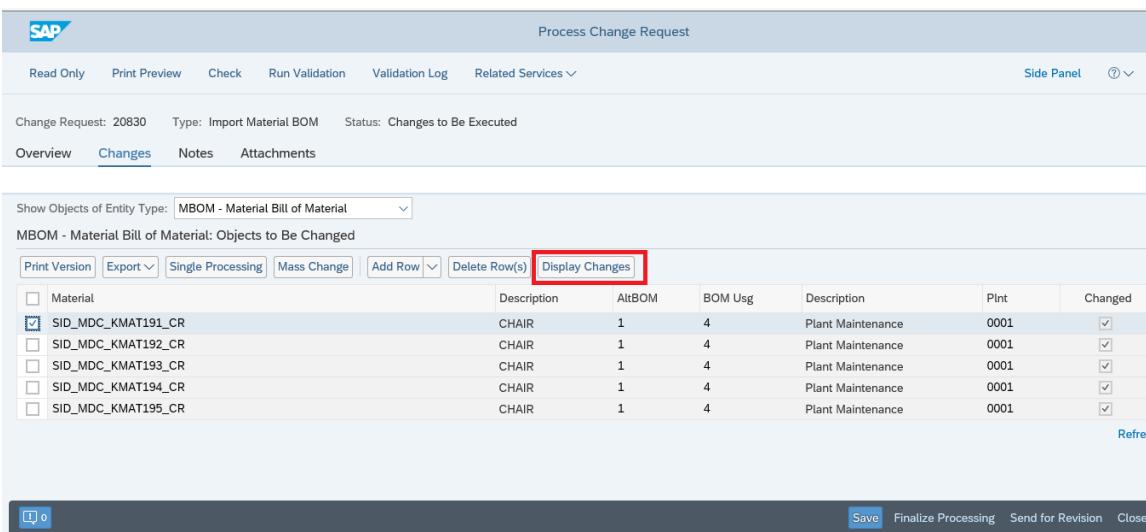
#	Description	Status	Last Modified	SAPBATCH	Import Material BOM
<input checked="" type="radio"/> 20830	Update of Active Record: 5 MBOMs of Process 4150	Changes to Be Executed	17.08.2018	SAPBATCH	Import Material BOM
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					
<input type="radio"/>					

Details of Change Request 20830 (Update of Active Record: 5 MBOMs of Process 4150)

MBOM - Material Bill of Material Change Request Header

Material	Desc. Long	AltBOM	BOM Usg	Desc. Long	Plnt
SID_MDC_KMAT191_CR	CHAIR	1	4	Plant Maintenance	0001

19. Click on "Display Changes" button to view the change documents of the Change Request.



Process Change Request

Read Only Print Preview Check Run Validation Validation Log Related Services

Change Request: 20830 Type: Import Material BOM Status: Changes to Be Executed

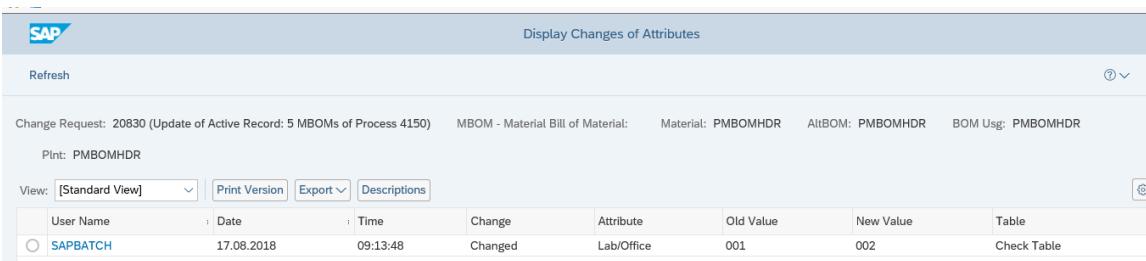
Overview **Changes** Notes Attachments

Show Objects of Entity Type: MBOM - Material Bill of Material

MBOM - Material Bill of Material: Objects to Be Changed

Material	Description	AltBOM	BOM Usg	Description	Plnt	Changed
<input checked="" type="checkbox"/> SID_MDC_KMAT191_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT192_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT193_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT194_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT195_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>

The following screen displays the change documents of the Change Request.



Display Changes of Attributes

Refresh

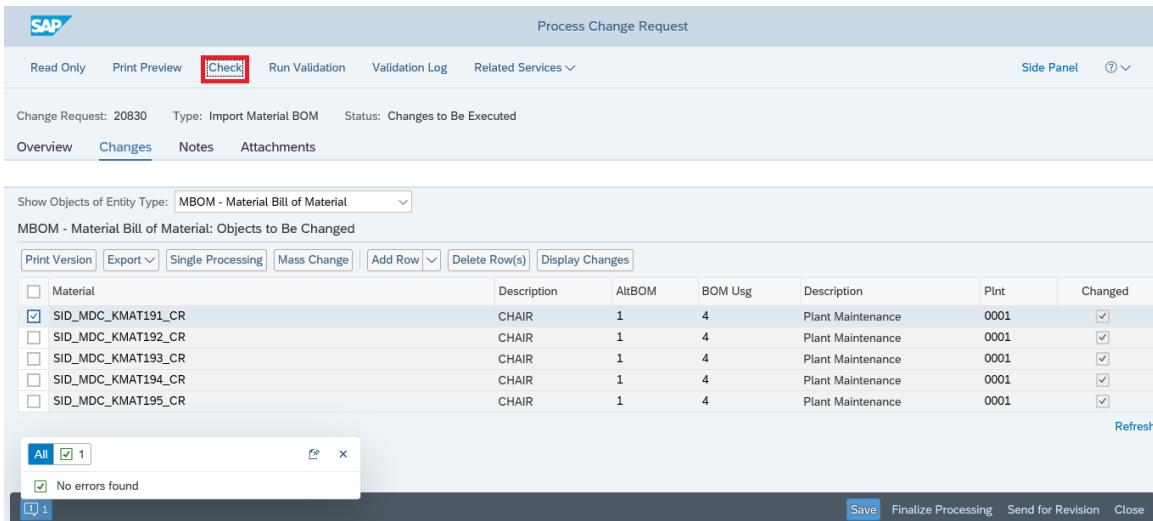
Change Request: 20830 (Update of Active Record: 5 MBOMs of Process 4150) MBOM - Material Bill of Material: Material: PMBOMHDR AltBOM: PMBOMHDR BOM Usg: PMBOMHDR

Plnt: PMBOMHDR

View: [Standard View]

User Name	Date	Time	Change	Attribute	Old Value	New Value	Table
<input checked="" type="radio"/> SAPBATCH	17.08.2018	09:13:48	Changed	Lab/Office	001	002	Check Table

20. Open the Change Request created, click on "Check" button to perform validation. In case no errors found, the success message "No errors found" appears on the screen.



Show Objects of Entity Type: MBOM - Material Bill of Material

MBOM - Material Bill of Material: Objects to Be Changed

	Description	AltBOM	BOM Usg	Description	Plnt	Changed	
<input type="checkbox"/>	Material						
<input checked="" type="checkbox"/>	SID_MDC_KMAT191_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT192_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT193_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT194_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT195_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>

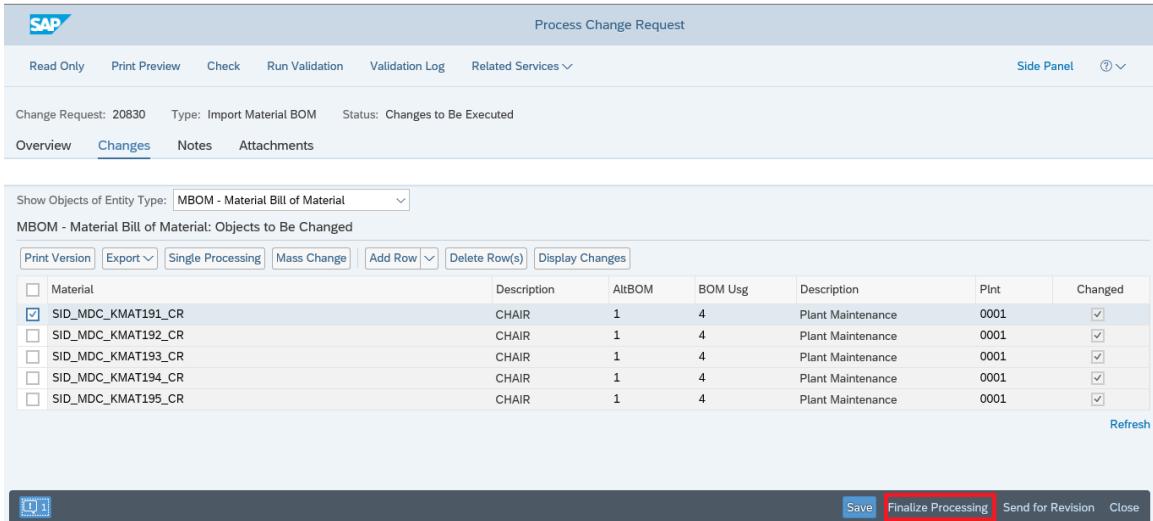
Refresh

All 1

No errors found

Save Finalize Processing Send for Revision Close

21. Click on “Finalize Processing” button.



Show Objects of Entity Type: MBOM - Material Bill of Material

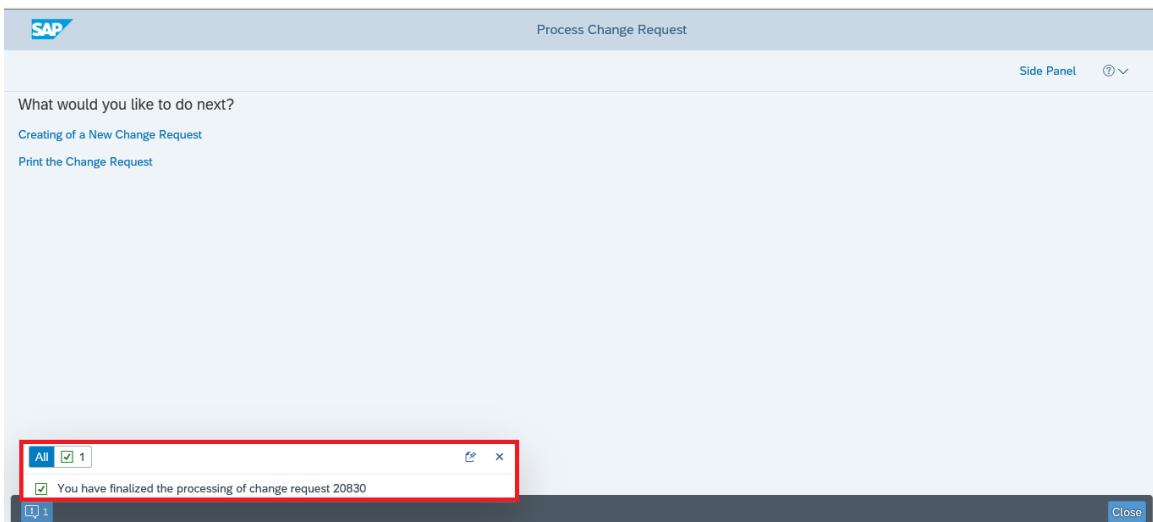
MBOM - Material Bill of Material: Objects to Be Changed

	Description	AltBOM	BOM Usg	Description	Plnt	Changed	
<input type="checkbox"/>	Material						
<input checked="" type="checkbox"/>	SID_MDC_KMAT191_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT192_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT193_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT194_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SID_MDC_KMAT195_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>

Refresh

Save Finalize Processing Send for Revision Close

22. Success message appears as “You have finalized the processing of Change Request XX”.



What would you like to do next?

Creating of a New Change Request

Print the Change Request

All 1

You have finalized the processing of change request 20830

Close

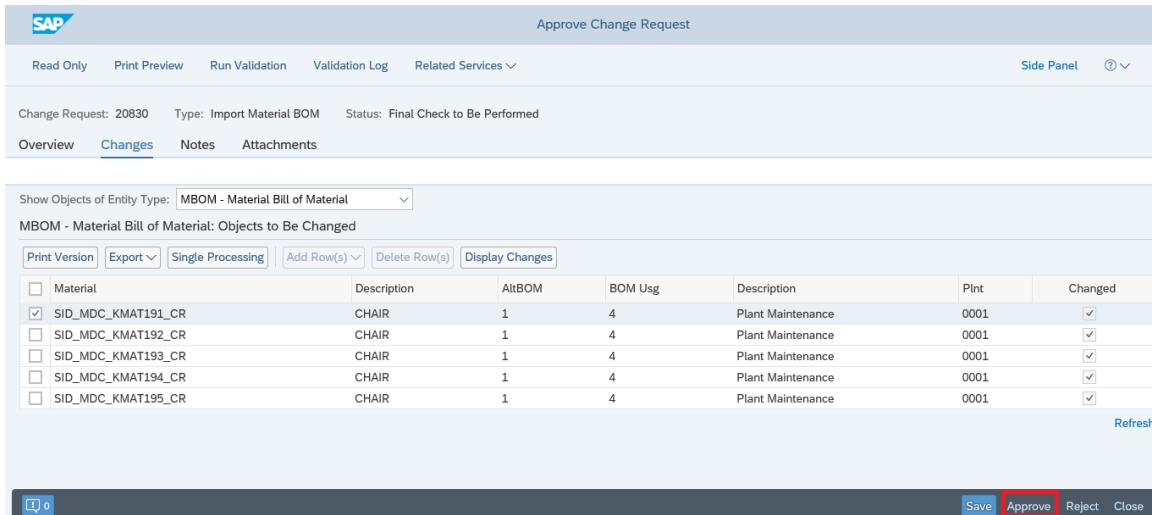
23. Once finalized, the status of the Change Request is changed as “Final check to be performed”.



The screenshot shows the SAP Display Change Requests interface. A single change request is listed:

Change Request	Description	Status	Changed On	Changed By	Type
20830	Update of Active Record: 5 MBOMs of Process 4150	Final Check to Be Performed	17.08.2018	[Redacted]	Import Material BOM

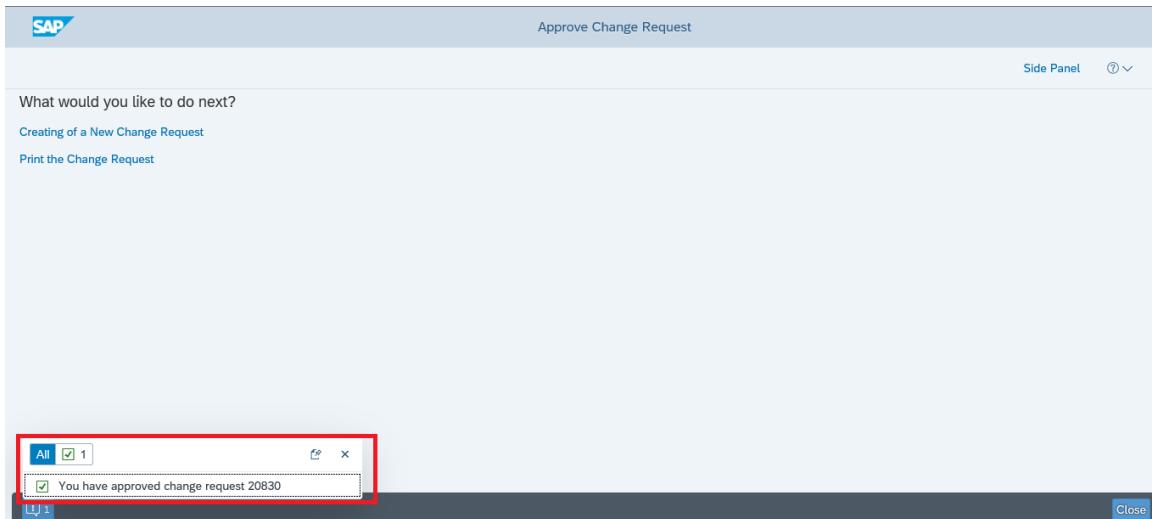
24. Click on the “Approve” button.



The screenshot shows the SAP Approve Change Request interface. It displays a list of objects to be changed, specifically MBOM - Material Bill of Material items. The "Changes" tab is selected. The "Approve" button is highlighted with a red box.

Material	Description	AltBOM	BOM Usg	Description	Plnt	Changed
<input checked="" type="checkbox"/> SID_MDC_KMAT191_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT192_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT193_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT194_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
<input type="checkbox"/> SID_MDC_KMAT195_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>

The following success message appears as “You have approved the Change Request XX”.



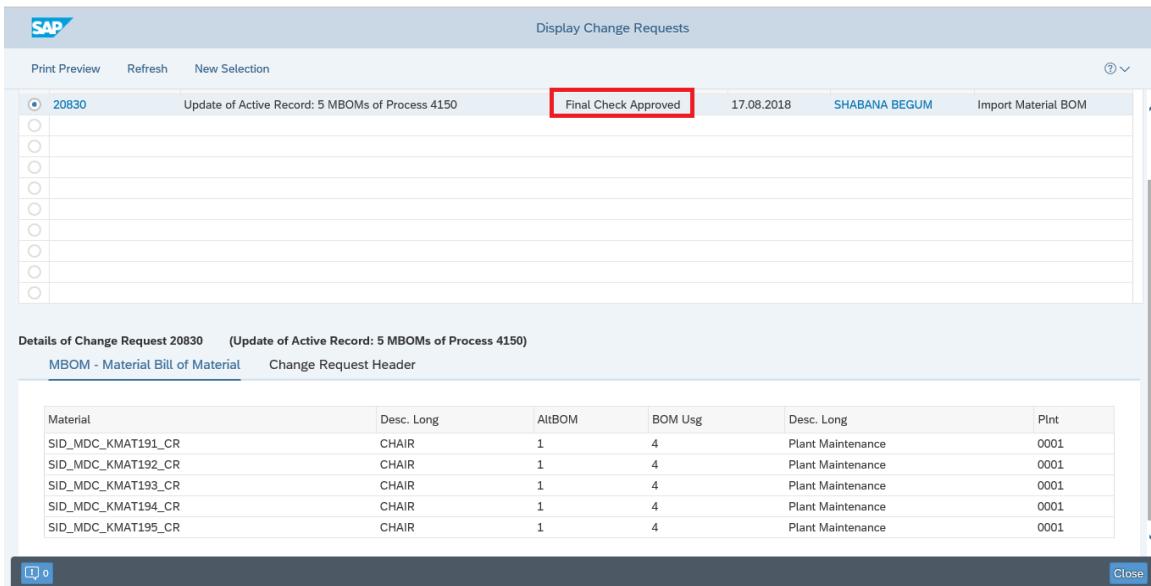
The screenshot shows the SAP Approve Change Request interface after approval. A success message is displayed in a modal dialog:

All 1

You have approved change request 20830

The "Approve" button is highlighted with a red box.

25. Verify the status of the Change Request as “Final Check Approved”.



The screenshot shows a SAP Fiori application titled "Display Change Requests". A specific change request (ID 20830) is selected, showing its details. The status bar indicates "Final Check Approved". Below the header, there is a table listing material details, including descriptions like "SID_MDC_KMAT191_CR" and "SID_MDC_KMAT192_CR", and their characteristics such as AltBOM, BOM Usg, and Plant Maintenance.

Material	Desc. Long	AltBOM	BOM Usg	Desc. Long	Pint
SID_MDC_KMAT191_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT192_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT193_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT194_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT195_CR	CHAIR	1	4	Plant Maintenance	0001

Manage Mass Processes

You can use the "Manage Mass Processes-237" application to access the process IDs created for material BOM mass processing.

1. Run t-code "/UI2/FLP" to launch the Fiori application.



The Fiori Launchpad displays several applications related to MBOM data consolidation and mass processing. The "Manage Mass Processes" application is specifically highlighted with a red box.

The following screen shows the "Manage Mass Processes-237" application result for the process id.



This screenshot shows the results of the "Manage Mass Processes" application. It lists a single process entry:

Process	User	Creation Date	Status	Records
Template Config for MBOM Mass update	[Redacted]	17 Aug	Finished	5 >

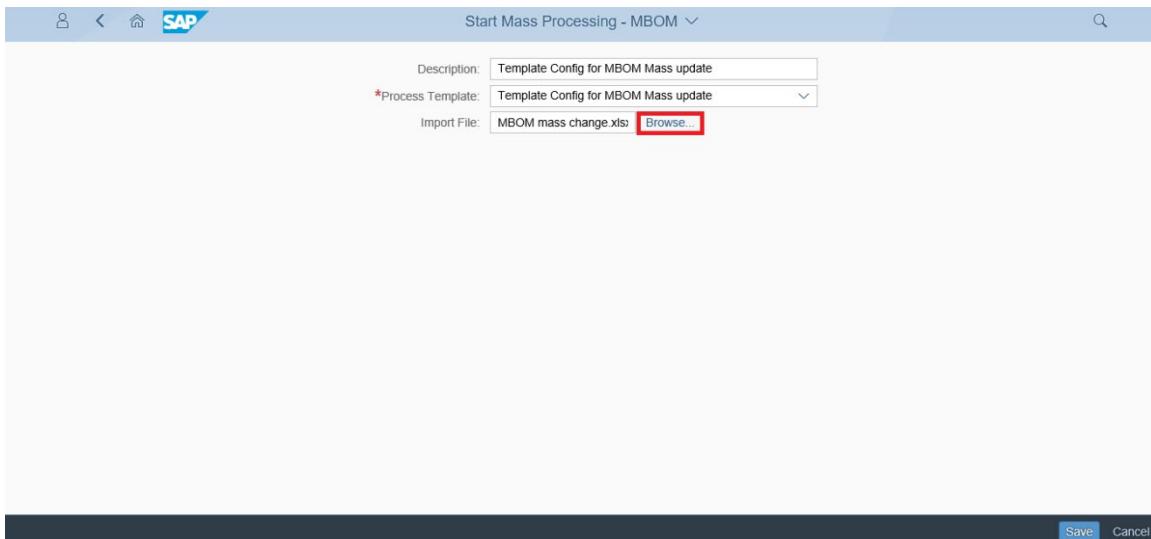
Mass Change Using Excel

You can use the following steps to run the mass change for MBOM using direct method.

1. Launch Fiori launchpad using t-code /UI2/FLP.
2. Run the application "Start Mass Processing" application.



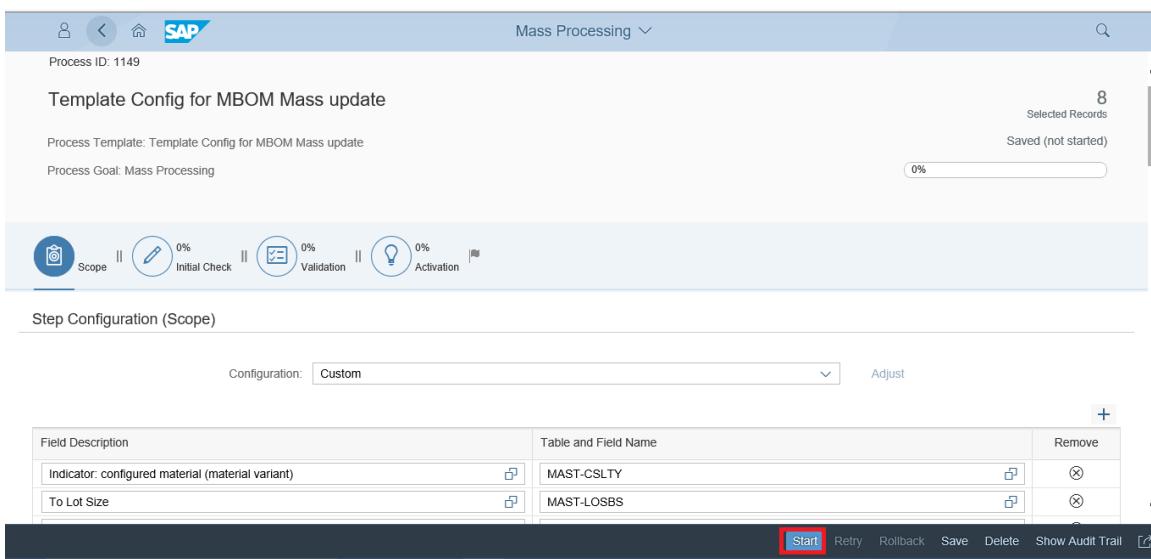
- Choose the process template from the drop down. Click on the "Browse" button to select the excel file for mass change. Click on "Save" button.



The screenshot shows the 'Start Mass Processing - MBOM' configuration screen. It includes fields for 'Description' (Template Config for MBOM Mass update), 'Process Template' (Template Config for MBOM Mass update), and 'Import File' (MBOM mass change.xls). The 'Import File' field has a 'Browse...' button highlighted with a red box. At the bottom right, there are 'Save' and 'Cancel' buttons.

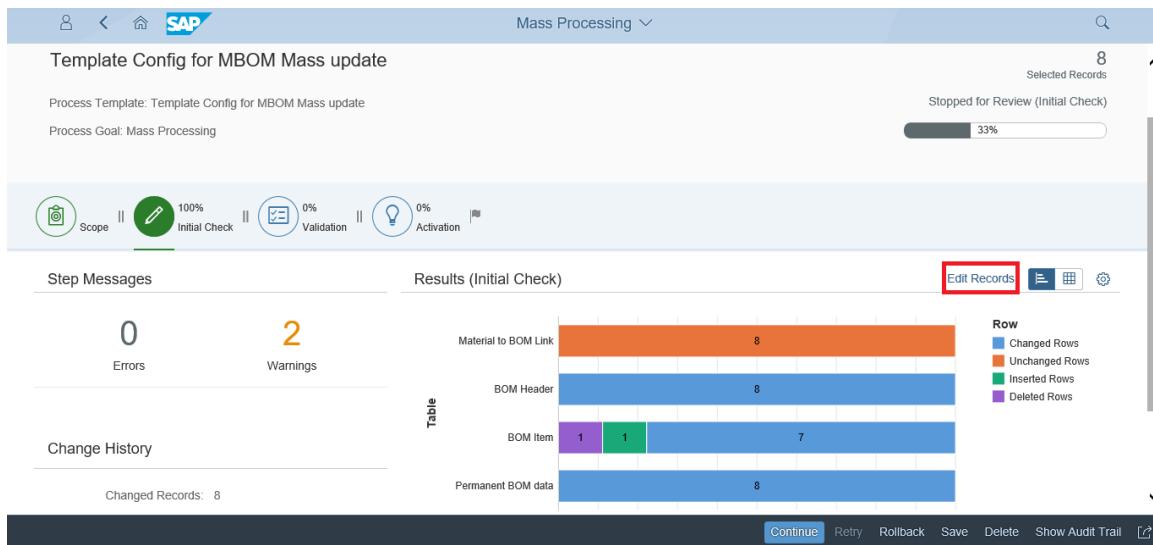
A new process ID is created.

- Click on "Start" button to initiate the process as shown in following screen.



The screenshot shows the 'Mass Processing' screen with a process ID of 1149. It displays a step configuration for 'Scope' with four sub-steps: 'Initial Check', 'Validation', and 'Activation', each at 0% completion. Below this, there is a table for 'Field Description' and 'Table and Field Name' mapping, with rows for 'Indicator: configured material (material variant)' mapped to 'MAST-CSLTY' and 'To Lot Size' mapped to 'MAST-LOSBS'. At the bottom, there are buttons for 'Start', 'Retry', 'Rollback', 'Save', 'Delete', 'Show Audit Trail', and a refresh icon. The 'Start' button is highlighted with a red box.

- You can review and change the erroneous records by clicking on the "Edit Records" link and navigating to the corresponding tab. The graph shows the changed, deleted, inserted, deleted records with different color conventions.



Template Config for MBOM Mass update

Process Template: Template Config for MBOM Mass update
Process Goal: Mass Processing

8 Selected Records
Stopped for Review (Initial Check)
33%

Scope || 100% Initial Check || 0% Validation || 0% Activation

Step Messages

0 Errors 2 Warnings

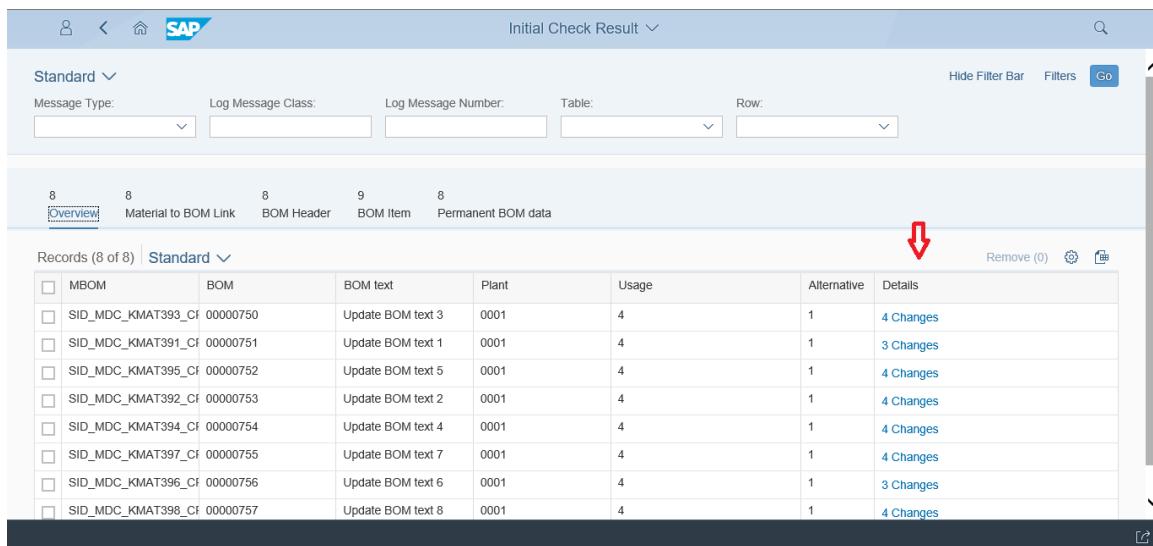
Results (Initial Check)

Table	Row
Material to BOM Link	8 Unchanged Rows
BOM Header	8 Changed Rows
BOM Item	1 Deleted Rows, 1 Inserted Rows, 7 Changed Rows
Permanent BOM data	8 Changed Rows

Changed Records: 8

Continue Retry Rollback Save Delete Show Audit Trail

You can view the changes under the “Details” column of the “Overview” tab as shown in the following screen.



Initial Check Result

Standard ▾

Message Type: Log Message Class: Log Message Number: Table: Row:

8 Overview 8 Material to BOM Link 8 BOM Header 9 BOM Item 8 Permanent BOM data

Records (8 of 8) | Standard ▾

MBOM	BOM	BOM text	Plant	Usage	Alternative	Details
SID_MDC_KMAT393_Cf 00000750	Update BOM text 3	0001	4	1	4 Changes	
SID_MDC_KMAT391_Cf 00000751	Update BOM text 1	0001	4	1	3 Changes	
SID_MDC_KMAT395_Cf 00000752	Update BOM text 5	0001	4	1	4 Changes	
SID_MDC_KMAT392_Cf 00000753	Update BOM text 2	0001	4	1	4 Changes	
SID_MDC_KMAT394_Cf 00000754	Update BOM text 4	0001	4	1	4 Changes	
SID_MDC_KMAT397_Cf 00000755	Update BOM text 7	0001	4	1	4 Changes	
SID_MDC_KMAT396_Cf 00000756	Update BOM text 6	0001	4	1	3 Changes	
SID_MDC_KMAT398_Cf 00000757	Update BOM text 8	0001	4	1	4 Changes	

6. Alternatively, you can also view the record level changes by navigating to the specific header tab against the “Changes” column.

SAP Initial Check Result

Standard ▾

Message Type: Log Message Class: Log Message Number: Table: Row:

8 Overview 8 Material to BOM Link 8 BOM Header 9 BOM Item 8 Permanent BOM data

Records (8 of 8) Edit View Display View Replace Values (0) Clear Fields Go

Record...	MBOM	BOM ca...	BOM	Counter	Tech st from		Deletion Ind.		Deletion flag		Base quantity		Changes
					Old	New	Old	New	Old	New	Old	New	
	SID_MDC_F M		00000751	1							100.000	201.000	4 Changes
	SID_MDC_F M		00000753	1							100.000	201.000	
	SID_MDC_F M		00000750	1							100.000	201.000	
	SID_MDC_F M		00000754	1							100.000	201.000	
	SID_MDC_F M		00000752	1							100.000	201.000	
	SID_MDC_F M		00000756	1							100.000	201.000	
	SID_MDC_F M		00000755	1							100.000	201.000	

Field New Old
Base quantity 201.000 100.000
Lab/Office 002 001
Alt Text Change BOM alternative text 1 1st BOM Alternative Text Upd...
to <empty> 31.12.9999

The following screen shows the “Changes” column for the BOM Header tab.

SAP Initial Check Result

Standard ▾

Message Type: Log Message Class: Log Message Number: Table: Row:

8 Overview 8 Material to BOM Link 8 BOM Header 9 BOM Item 8 Permanent BOM data

Records (8 of 8) Edit View Display View Replace Values (0) Clear Fields Go

Record...	MBOM	BOM ca...	BOM	Counter	Tech st from		Deletion Ind.		Deletion flag		Base quantity		Changes
					Old	New	Old	New	Old	New	Old	New	
	SID_MDC_F M		00000751	1							100.000	201.000	4 Changes
	SID_MDC_F M		00000753	1							100.000	202.000	4 Changes
	SID_MDC_F M		00000750	1							100.000	203.000	4 Changes
	SID_MDC_F M		00000754	1							100.000	204.000	4 Changes
	SID_MDC_F M		00000752	1							100.000	205.000	4 Changes
	SID_MDC_F M		00000756	1							100.000	206.000	4 Changes
	SID_MDC_F M		00000755	1							100.000	207.000	4 Changes

- In case a record is inserted or deleted, the same is displayed against the record under the “Changes” column of the specific tab as shown in the following screen.

SAP Initial Check Result

8 Overview 8 Material to BOM Link 8 BOM Header 9 BOM Item 8 Permanent BOM data

Records (9 of 9) Edit View Display View Replace Values (0) Clear Fields (0) 

Record...	MBOM	BOM category		BOM		Item node		Counter	Tech st from		Deletion Ind.		Component		Changes
		Old	New	Old	New	Old	New		Old	New	Old	New	Old	New	
	SID_MDC	M	M	00000751	00000751	1	1	2							Deleted
	SID_MDC	M	M	00000753	00000753	1	1	2							2 Changes
	SID_MDC	M	M	00000750	00000750	1	1	2							2 Changes
	SID_MDC	M	M	00000754	00000754	1	1	2							5: 2 Changes
	SID_MDC	M	M	00000752	00000752	1	1	2							2 Changes
	SID_MDC	M	M	00000756	00000756	1	1	2							5: 6 Changes
	SID_MDC	M	M	00000755	00000755	1	1	2							6: 3 Changes
	SID_MDC	M	M	00000757	00000757	1	1	2							2 Changes
					00000757		2	4							5: Inserted

The following screen shows the changes at the BOM Item level.

SAP Initial Check Result

8 Overview 8 Material to BOM Link 8 BOM Header 9 BOM Item 8 Permanent BOM data

Records (9 of 9) Edit View Display View Replace Values (0) Clear Fields (0) 

Record...	MBOM	BOM category		BOM		Item node		Counter	Tech st from		Deletion Ind.		Component		Changes
		Old	New	Old	New	Old	New		Old	New	Old	New	Old	New	
	SID_MDC	M	M	00000751	00000751	1	1	2							Deleted
	SID_MDC	M	M	00000753	00000753	1	1	2							2 Changes
	SID_MDC	M	M	00000750	00000750	1	1	2							
	SID_MDC	M	M	00000754	00000754	1	1	2	Field	New					Old
	SID_MDC	M	M	00000752	00000752	1	1	2	Sort String	SORT12					SORT2
	SID_MDC	M	M	00000756	00000756	1	1	2	Component UoM	<empty>					PC
	SID_MDC	M	M	00000755	00000755	1	1	2							6005
	SID_MDC	M	M	00000757	00000757	1	1	2							6: 3 Changes
					00000757		2	4							2 Changes

The following screen shows the changes done against the “Permanent BOM data” tab.

SAP Initial Check Result

Standard

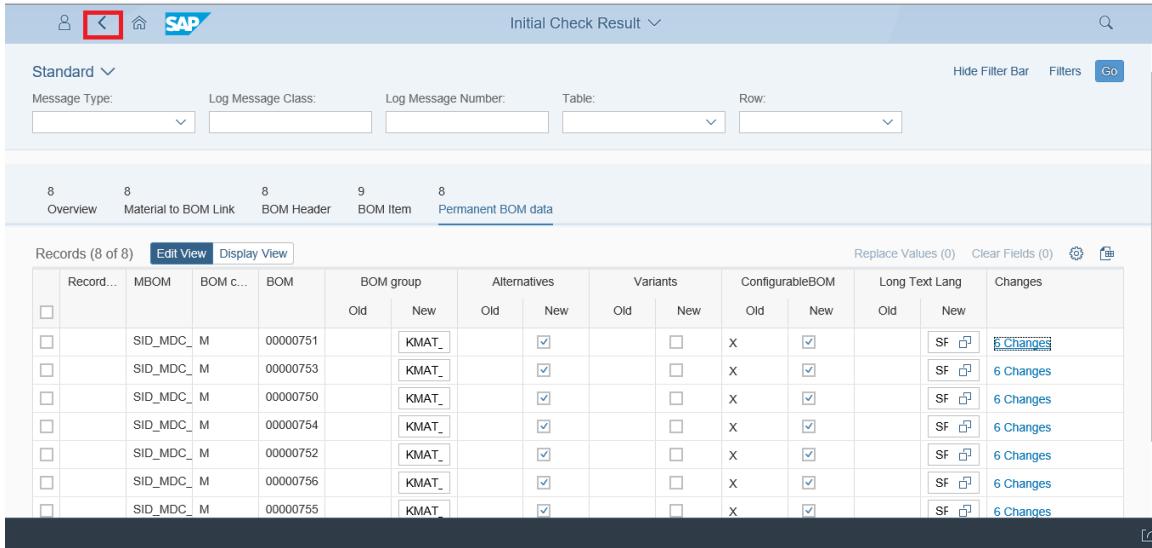
Message Type: Log Message Class: Log Message Number: Table: Row: Hide Filter Bar Filters Go

8 Overview 8 Material to BOM Link 8 BOM Header 9 BOM Item 8 Permanent BOM data

Records (8 of 8) Edit View Display View

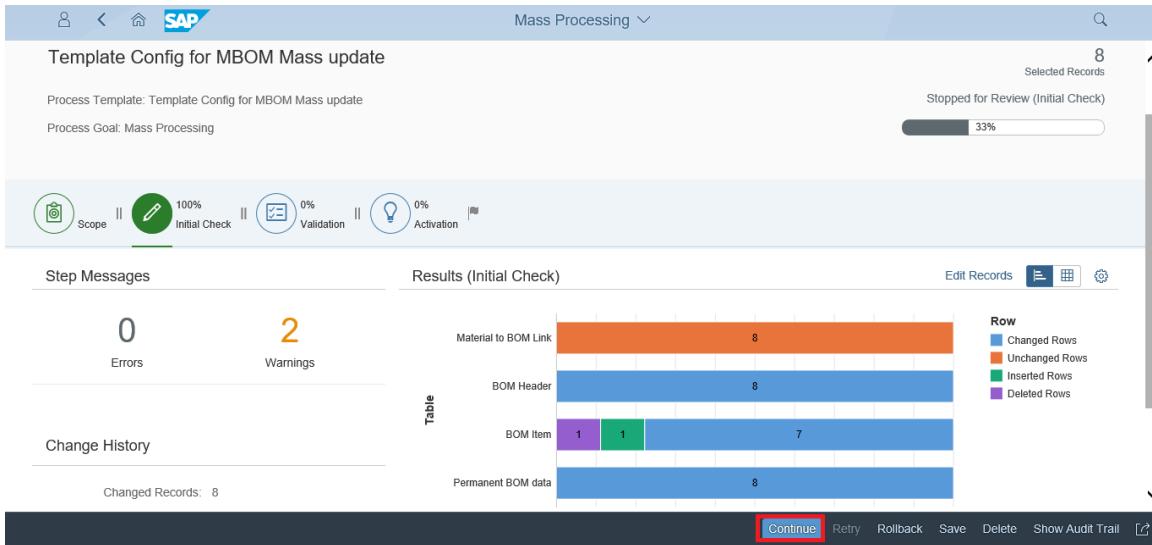
Record...	MBOM	BOM c...	BOM	BOM group		Alternatives		Old	New	Old	New	Field	New	Old	
				Old	New	Old	New								
	SID_MDC	M	00000751	KMAT_		<input checked="" type="checkbox"/>				X	<input checked="" type="checkbox"/>				6 Changes
	SID_MDC	M	00000753	KMAT_		<input checked="" type="checkbox"/>				X	<input checked="" type="checkbox"/>				6 Changes
	SID_MDC	M	00000750	KMAT_		<input checked="" type="checkbox"/>				X	<input checked="" type="checkbox"/>				6 Changes
	SID_MDC	M	00000754	KMAT_		<input checked="" type="checkbox"/>				X	<input checked="" type="checkbox"/>				6 Changes
	SID_MDC	M	00000752	KMAT_		<input checked="" type="checkbox"/>				X	<input checked="" type="checkbox"/>				6 Changes
	SID_MDC	M	00000756	KMAT_		<input checked="" type="checkbox"/>				X	<input checked="" type="checkbox"/>				6 Changes
	SID_MDC	M	00000755	KMAT_		<input checked="" type="checkbox"/>				X	<input checked="" type="checkbox"/>				6 Changes
															6 Changes

8. Click on the “<” button to go back to the main screen.



The screenshot shows the SAP Initial Check Result interface. At the top, there are search fields for Message Type, Log Message Class, Log Message Number, Table, and Row. Below the header, there are tabs for Overview, Material to BOM Link, BOM Header, BOM Item, and Permanent BOM data, with Permanent BOM data selected. The main area displays a grid of 8 rows of BOM data. Each row contains columns for Record..., MBOM, BOM c..., BOM, BOM group (Old, New), Alternatives (Old, New), Variants (Old, New), ConfigurableBOM (Old, New), Long Text Lang (Old, New), and Changes. The 'Changes' column shows 'SF' and '6 Changes' for each row. A red box highlights the back arrow icon in the top left corner of the browser window.

9. Click on “Continue” button to proceed to the next step i.e. Validation.

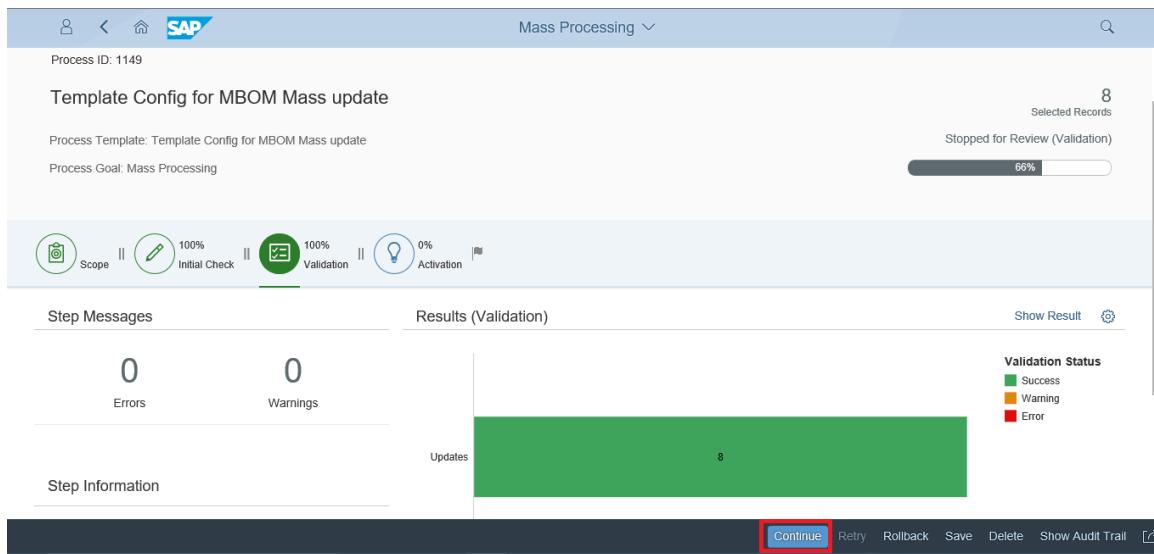


The screenshot shows the SAP Mass Processing interface. At the top, it says "Mass Processing" and "Template Config for MBOM Mass update". It shows "8 Selected Records" and "Stopped for Review (Initial Check)". Below this is a progress bar indicating 33% completion. The main area has tabs for Step Messages, Results (Initial Check), and Edit Records. Under Step Messages, there are 0 Errors and 2 Warnings. Under Results (Initial Check), there is a table showing validation status for Material to BOM Link, BOM Header, BOM Item, and Permanent BOM data. The table uses color coding: orange for unchanged rows, blue for changed rows, green for inserted rows, and purple for deleted rows. A legend on the right defines these colors. At the bottom, there are buttons for Continue, Retry, Rollback, Save, Delete, Show Audit Trail, and a red box highlights the Continue button.

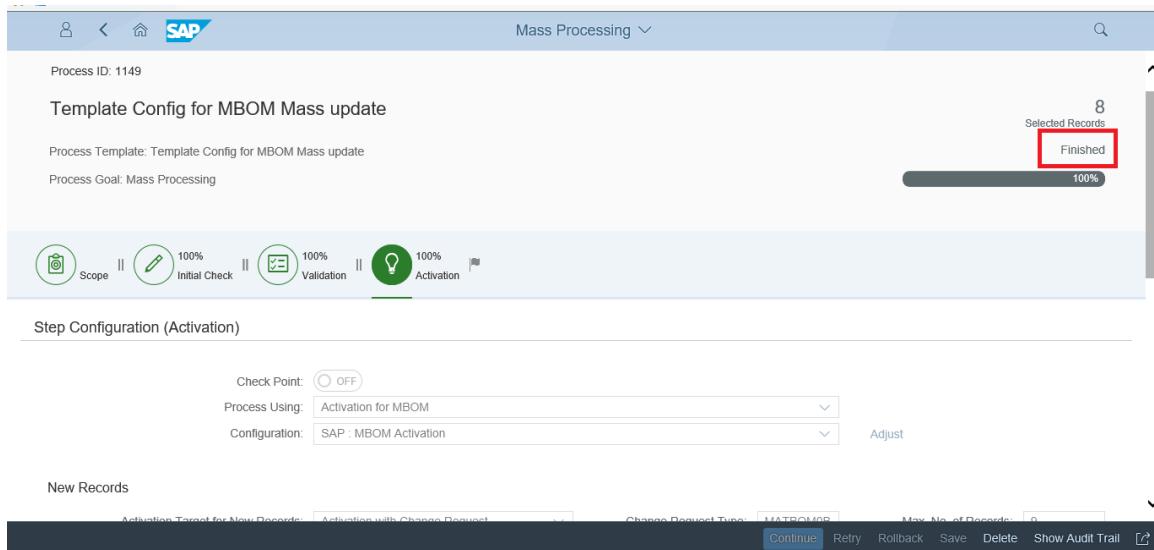
10. The validation step can be used to incorporate the additional checks along with the API validations and the MDG access class checks using BRFplus application and MDG validation BAdI.

The records are shown in a graph based on errors, warnings or success with different color conventions as below. You can click on the link “Show results” to the review and change the erroneous records.

11. Click on “Continue” button to proceed with the activation step.



The status of the process Id is changed to “Finished”.



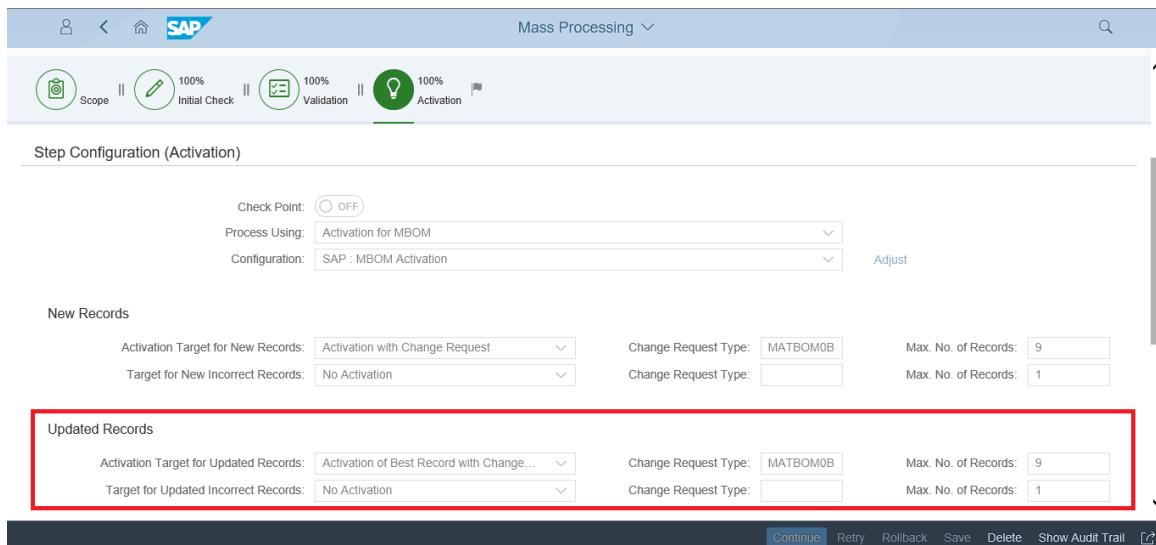
- Once the activation is successful, a Change Request is launched.



Note

In case the direct activation option is used, the data gets created in backend and does not go through the governance process.

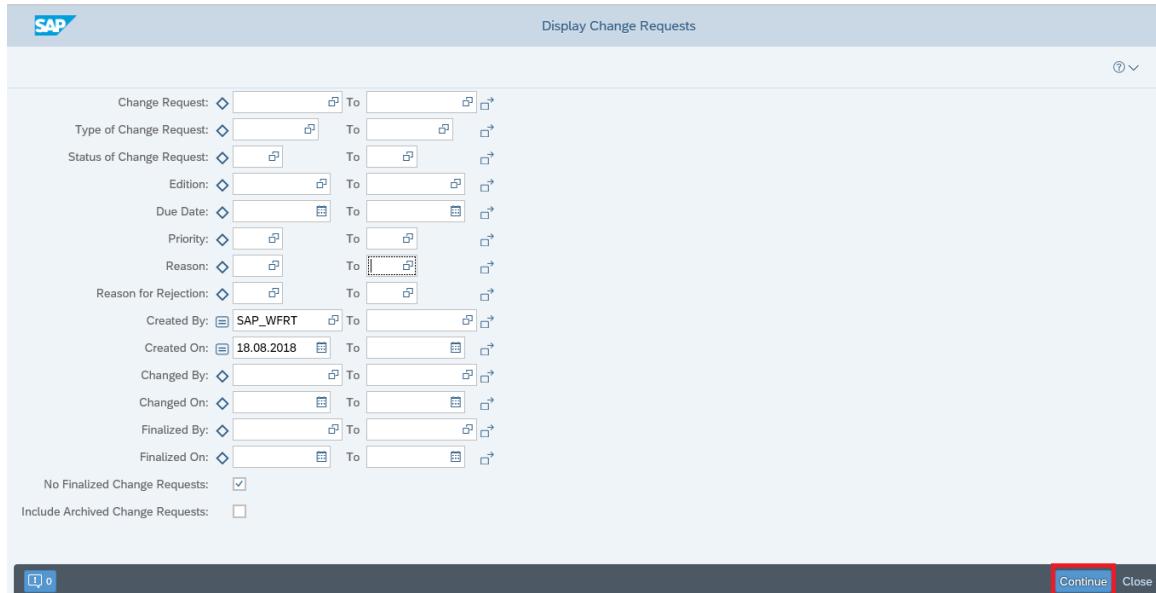
The following screen shows the configuration settings for Activation of updated records.



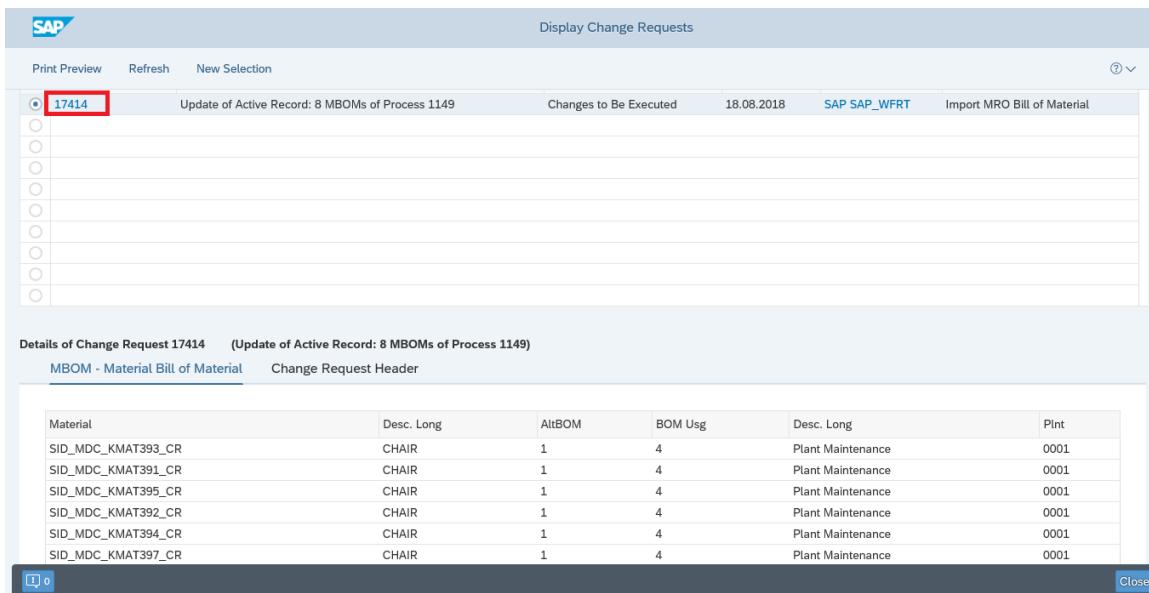
- Run t-code NWBC. Use the role /UGI/_MDGEAM_MENU to navigate to the Change Requests created.

The CR of type MATBOM0B is created with user name as SAP_WFRT (background used). To search for the Change Request created, Provided the “Created by” field as “SAP_WFRT” and “Created on” as date on which the process is launched.

- Click on “Continue” button.



- Double-Click on the Change Request “17414” to open the Change Request.



Display Change Requests

Print Preview Refresh New Selection

17414 Update of Active Record: 8 MBOMs of Process 1149 Changes to Be Executed 18.08.2018 SAP SAP_WFRT Import MRO Bill of Material

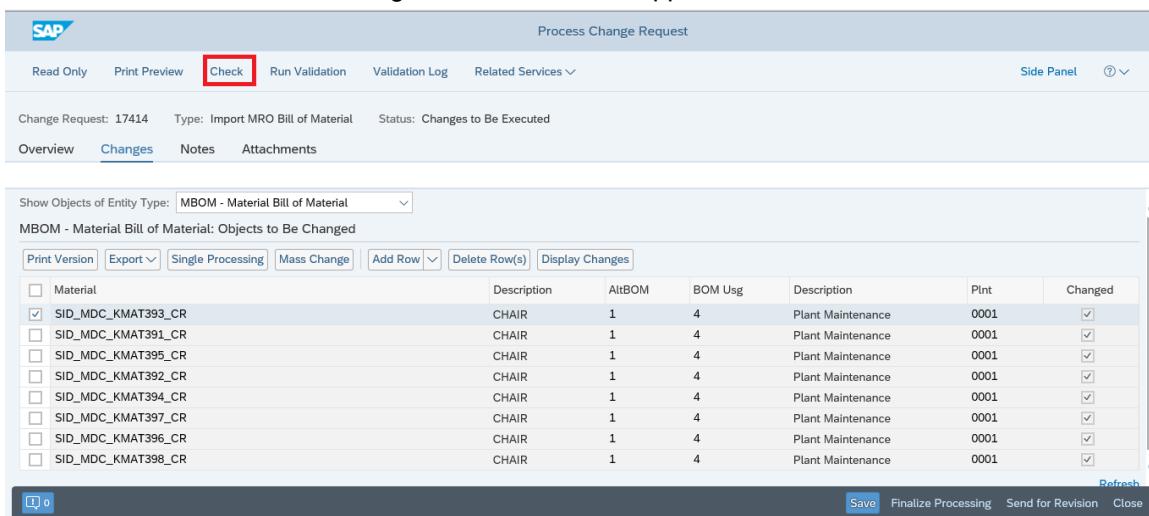
Details of Change Request 17414 (Update of Active Record: 8 MBOMs of Process 1149)

MBOM - Material Bill of Material Change Request Header

Material	Desc. Long	AltBOM	BOM Usg	Desc. Long	Plnt
SID_MDC_KMAT393_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT391_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT395_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT392_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT394_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT397_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT396_CR	CHAIR	1	4	Plant Maintenance	0001
SID_MDC_KMAT398_CR	CHAIR	1	4	Plant Maintenance	0001

0 Close

16. Open the Change Request created, click on “Check” button to perform validation. In case no errors found, the success message “No errors found” appears on the screen.



Process Change Request

Read Only Print Preview Check Run Validation Validation Log Related Services Side Panel

Change Request: 17414 Type: Import MRO Bill of Material Status: Changes to Be Executed

Overview Changes Notes Attachments

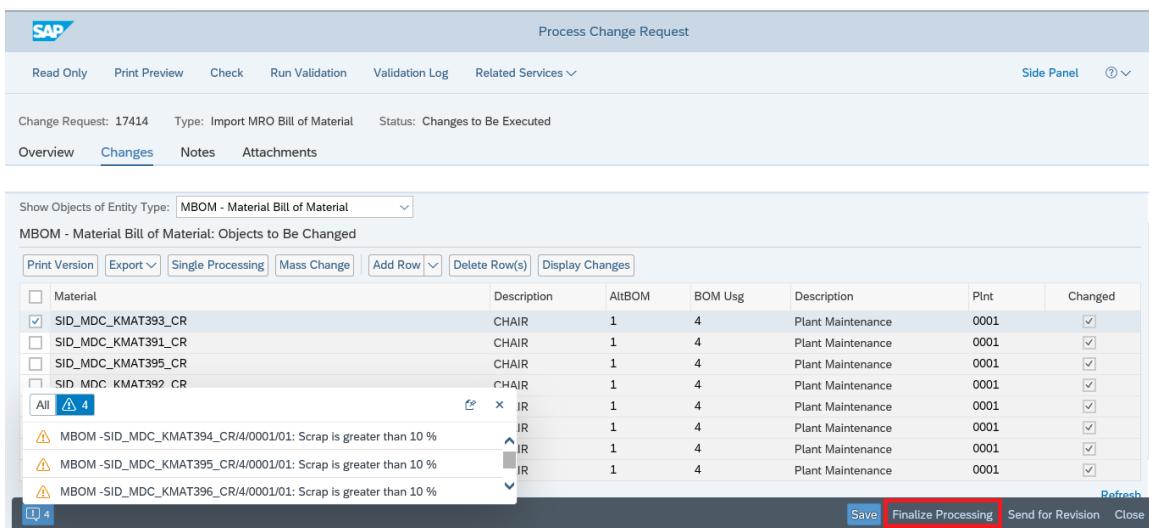
Show Objects of Entity Type: MBOM - Material Bill of Material

MBOM - Material Bill of Material: Objects to Be Changed

Material	Description	AltBOM	BOM Usg	Description	Plnt	Changed
SID_MDC_KMAT393_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT391_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT395_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT392_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT394_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT397_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT396_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT398_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>

0 Refresh Save Finalize Processing Send for Revision Close

17. Click on the “Finalize Processing” button.



Process Change Request

Read Only Print Preview Check Run Validation Validation Log Related Services Side Panel

Change Request: 17414 Type: Import MRO Bill of Material Status: Changes to Be Executed

Overview Changes Notes Attachments

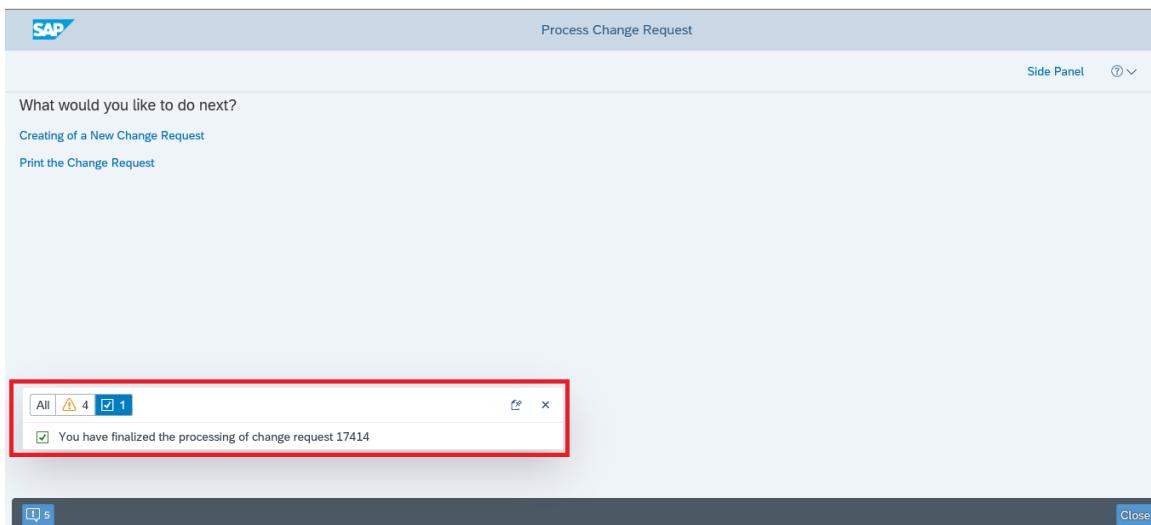
Show Objects of Entity Type: MBOM - Material Bill of Material

MBOM - Material Bill of Material: Objects to Be Changed

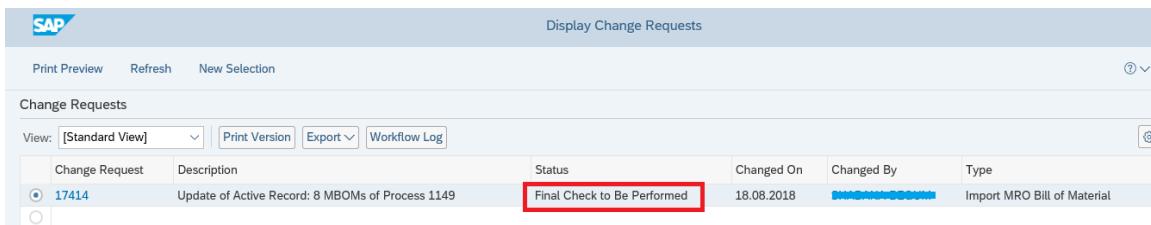
Material	Description	AltBOM	BOM Usg	Description	Plnt	Changed
SID_MDC_KMAT393_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT391_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT395_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
SID_MDC_KMAT392_CR	CHAIR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
All 4	IR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
MBOM-SID_MDC_KMAT394_CR/4/0001/01: Scrap is greater than 10 %	IR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
MBOM-SID_MDC_KMAT395_CR/4/0001/01: Scrap is greater than 10 %	IR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>
MBOM-SID_MDC_KMAT396_CR/4/0001/01: Scrap is greater than 10 %	IR	1	4	Plant Maintenance	0001	<input checked="" type="checkbox"/>

4 Save Finalize Processing Send for Revision Close

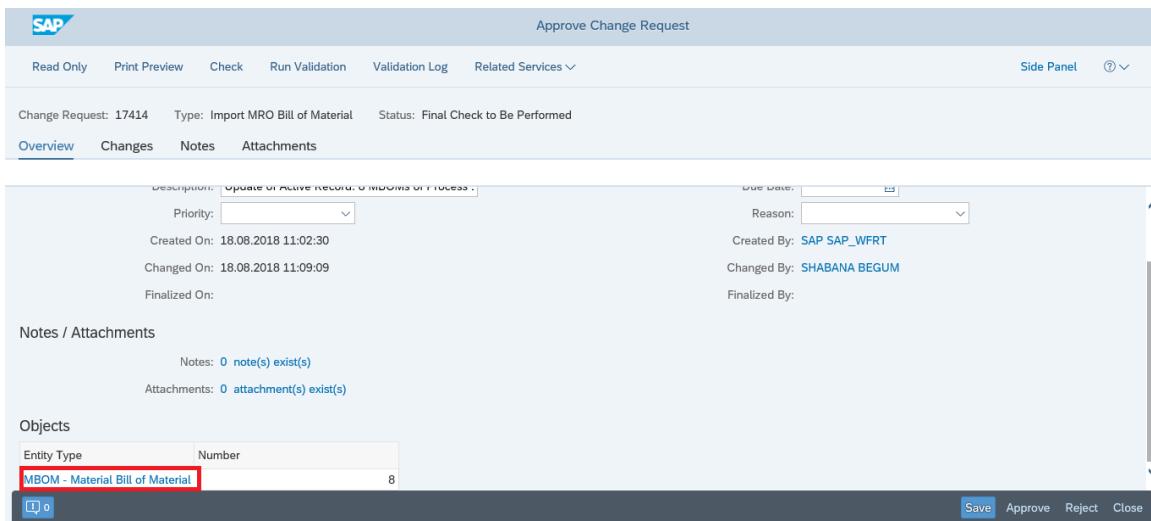
A success message appears as “You have finalized the processing of the Change Request XX”.



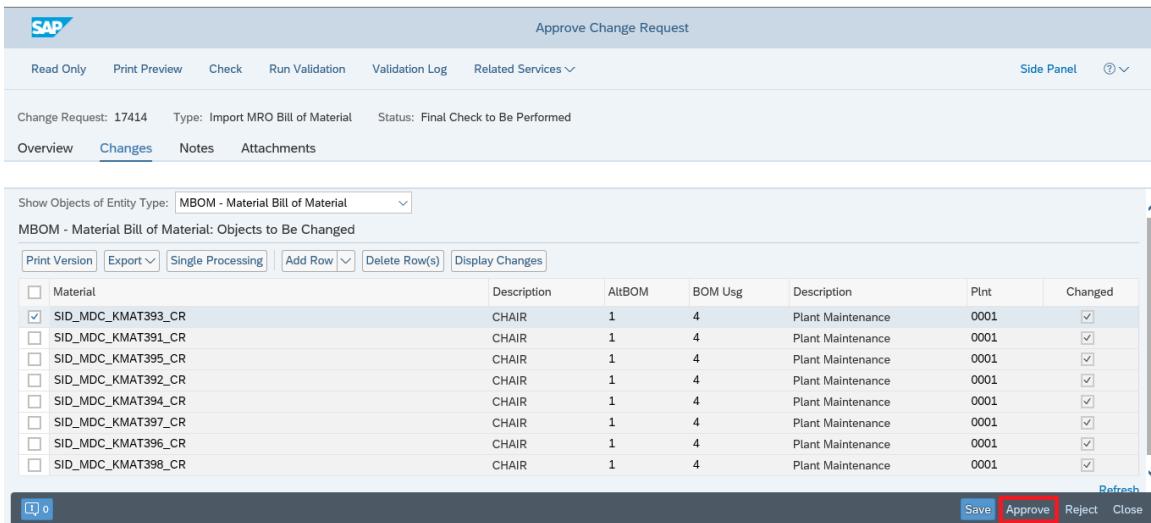
The status of the Change Request changes to “Final Check to be performed” status.



18. You can click on the link “MBOM-Material Bill of Material” to view the objects included in the Change Request.

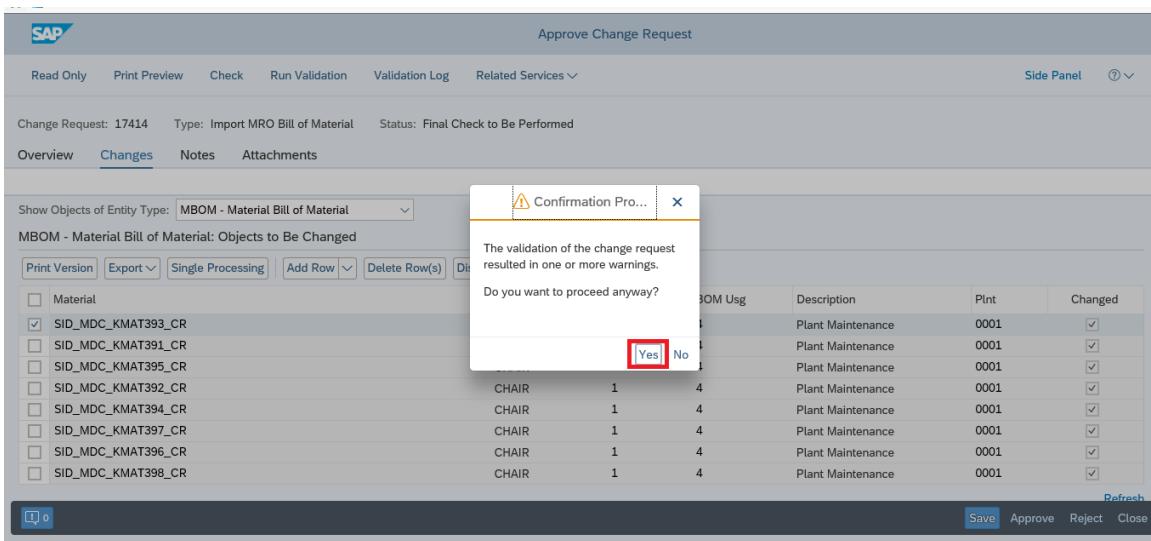


19. Click on “Approve” button to approve the Change Request.



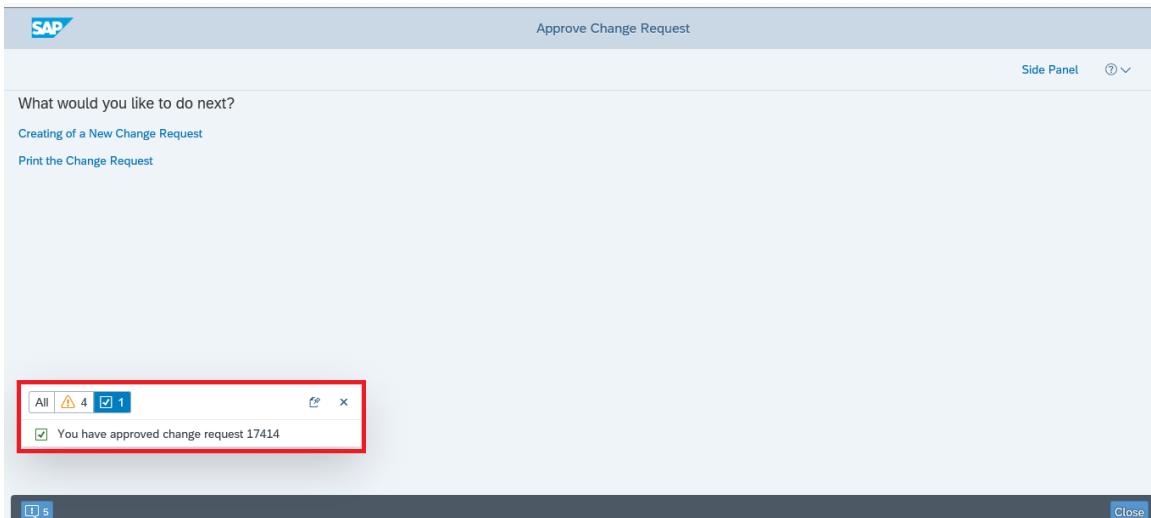
The screenshot shows the SAP Approve Change Request interface. At the top, it displays "Approve Change Request". Below that, there are tabs for "Read Only", "Print Preview", "Check", "Run Validation", "Validation Log", and "Related Services". On the right, there are buttons for "Side Panel", "Help", and "Close". The main area shows a list of changes for "MBOM - Material Bill of Material: Objects to Be Changed". The "Changes" tab is selected. The list includes rows for various items, such as "SID_MDC_KMAT393_CR" and "SID_MDC_KMAT398_CR", with columns for Description, AltBOM, BOM Usg, Description, Plnt, and Changed. At the bottom right, there are buttons for "Save", "Approve" (which is highlighted with a red box), "Reject", and "Close".

20. Click on “Yes” button on the pop up in case you want warnings to be ignored or select the material. Click on “Single Processing” button to navigate to the Change Request and correct the data.



The screenshot shows the SAP Approve Change Request interface with a confirmation dialog box overlaid. The dialog box has a yellow warning icon and the title "Confirmation Pro...". It contains the message: "The validation of the change request resulted in one or more warnings. Do you want to proceed anyway?". There are two buttons: "Yes" (highlighted with a red box) and "No". In the background, the SAP interface shows a list of changes for "MBOM - Material Bill of Material: Objects to Be Changed". The "Changes" tab is selected. The list includes rows for various items, such as "SID_MDC_KMAT393_CR" and "SID_MDC_KMAT398_CR", with columns for Description, AltBOM, BOM Usg, Description, Plnt, and Changed. At the bottom right, there are buttons for "Save", "Approve" (highlighted with a red box), "Reject", and "Close".

A success message appears as “You have approved Change Request XX”.



The screenshot shows the SAP Approve Change Request interface after approval. A red box highlights a message box at the bottom left. The message box contains the text "What would you like to do next?" followed by two options: "Creating of a New Change Request" and "Print the Change Request". Below this, a red box highlights a message: "All 4 1" and "You have approved change request 17414". At the bottom right, there is a "Close" button.

The status of Change Request changes to “Final Check Approved”.

Display Change Requests					
Print Preview Refresh New Selection					
Change Requests					
View:	[Standard View]	Print Version	Export ▾	Workflow Log	
Change Request	Description	Status	Changed On	Changed By	Type
17414	Update of Active Record: 8 MBOMs of Process 1149	Final Check Approved	18.08	 BANA BEGUM	Import MRO Bill of Material

21. Run t-code CS03. Enter the material number and select the BOM created.
22. Click “Enter”. You can validate the changes in backend after successful activation.

The following screen displays the changes on the “BOM Header” screen of the Material BOM in backend.

Display material BOM: Header:Quantities/long text

Material	SID_MDC_KMAT391_CR	Chair	
Plant	0001 Werk 0001		
BOM	00000751		
Alternative BOM	1		
BOM Usage	4 Plant Maintenance		
Technical type			
BOM group			
BOM and alternative text			
BOM text	Update BOM text 1		
Alt Text	Change BOM alternative text 1		
Quantity data			
Base quantity	201	EA	
Validity			
Change Number		BOM status	1
Valid From	24.07.2018	Authorization group	
<input type="checkbox"/> Deletion Indicator	<input type="checkbox"/> Deletion Flag		

You can validate that the BOM Item has been deleted for the material in backend.

Display material BOM: General Item Overview													
Material		SID_MDC_1MATT391_CR	Chair	Plant		0001 Werk 0001	Alternative BOM		1 Change BOM alternative text 1	Position		Effectivity Initial Screen	
Material		Document	Class	General									
Item ICt	Component	Component description	Quantity	U...	A...	Sls	Valid From	Valid to	Change No.	P...	SortString	Item ID	Chg No. To

The following screen shows the change documents for the BOM header.

Display Change Documents						
Doc. No.	121498	Date	18.08.2018	Time	11:16:05	
Changed By	SAP_WFRT Transaction					
Table	Table Key	Field chan	Action	Field Description	Old Value	New Value
STKO	100M000007510100000001	BMENG	Change	Base quantity	100 EA	201 EA
		LABOR		Laboratory/design office	001	002
		STKTX		Alternative BOM Text	1st BOM Alternative Text Uploaded by STK	Change BOM alternative text 1
STZU	100M00000751	ZTEXT		BOM text		Update BOM text 1

The following screen shows the change documents for BOM Item.

Display Change Documents						
Doc. No.	121497	Date	18.08.2018	Time	11:16:05	
Changed By	SAP_WFRT Transaction					
Table	Table Key	Field chan	Action	Field Desc	Old Value	New Value
STAS	100M00000751010000000100000003		Deletion			
STPO	100M000007510000000100000002					

You can validate that the BOM Item is inserted in the backend.

Display material BOM: General Item Overview													
Material		SID_MDC_1MATT391_CR	Chair	Plant		0001 Werk 0001	Alternative BOM		1 Change BOM alternative text 8	Position		Effectivity Initial Screen	
Material		Document	Class	General									
Item ICt	Component	Component description	Quantity	U...	A...	Sls	Valid From	Valid to	Change No.	P...	SortString	Item ID	Chg No. To
0010 K	Car		80	PC	<input type="checkbox"/>	<input type="checkbox"/>	24.07.2018	31.12.9999		<input type="checkbox"/>	SORT18	00000001	<input checked="" type="checkbox"/>
0020 N	5995	MRO ERS A TEST MATERIAL 5995	60	EA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	24.07.2018	31.12.9999		<input type="checkbox"/>	SORT19	00000002	<input checked="" type="checkbox"/>

The following screen display the changes on the “BOM Header” screen of the Material BOM in backend.

Display material BOM: Header Overview

		Item		Summ.BOM		Alternative Long Text		BOM Long Text
Material	SID_MDC_KMAT398_CR			<input type="checkbox"/>	Chair			
Plant	0001	Werk 0001						
BOM	00000757							
Alternative BOM	1							
BOM Usage	4	Plant Maintenance						
Technical type	<input type="checkbox"/>							
BOM group								

Quantities/Long Text Additional Data Administration Data Document Assignment

BOM and Alternative Text

BOM text	Update BOM text 8	<input type="button" value="..."/>
Alternative Text	Change BOM alternative text 8	<input type="button" value="..."/>

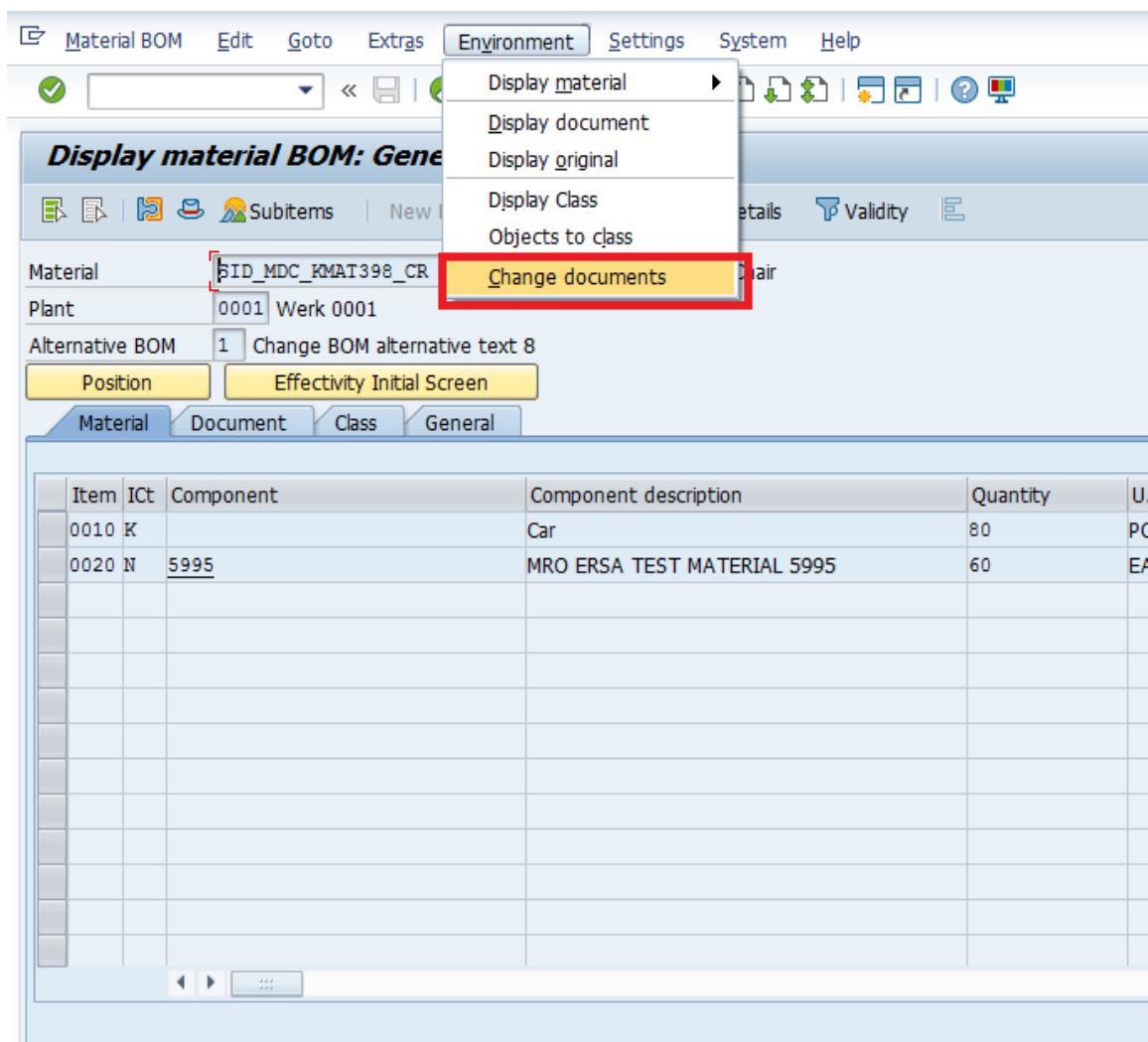
Quantity Data

Base quantity	208	EA
---------------	-----	----

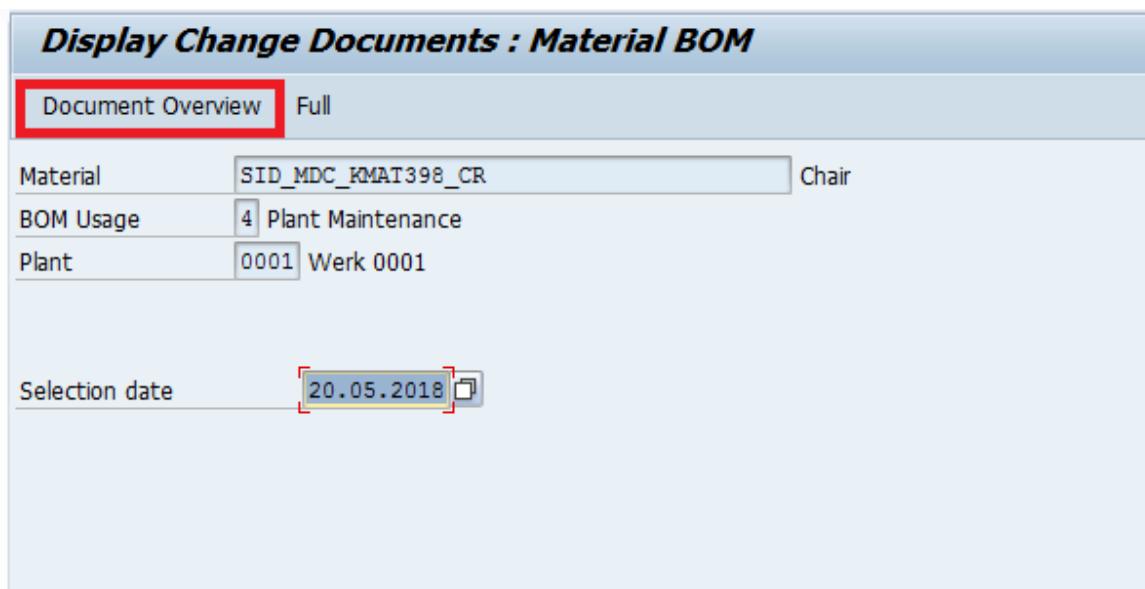
Validity

Change Number	<input type="text"/>	BOM status	1
Valid From	24.07.2018	Authorization group	<input type="checkbox"/>
Deletion Indicator	<input type="checkbox"/>	Deletion Flag	<input type="checkbox"/>

You can view the change documents of the material BOM in backend by navigating through the path: Environment > Change documents.



23. Click on the “Document Overview” button to view the change documents.



The following screen shows the change documents for the changes on “BOM header”.

Display Change Documents						
      						
Doc. No. 121509 Date 18.08.2018 Time 11:16:05 Changed By SAP_WFRT Transaction						
Table	Table Key	Field chan	Action	Field Description	Old Value	New Value
STKO	100M000007570100000001	BMENG	Change	Base quantity	100 EA	208 EA
		LABOR		Laboratory/design office	001	002
		STKTX		Alternative BOM Text	8th BOM Alternative Text Uploaded by STK	Change BOM alternative text 8
STPO	100M000007570000000100000002	SORTF		Sort String	SORT8	SORT18
STZU	100M00000757	ZTEXT		BOM text		Update BOM text 8

The following screen displays the change documents for the BOM Item inserted.

Display Change Documents						
      						
Doc. No. 121508 Date 18.08.2018 Time 11:16:05 Changed By SAP_WFRT Transaction						
Table	Table Key	Field chan	Action	Field Desc	Old Value	New Value
STAS	100M00000757010000000200000005		Entry			
STPO	100M000007570000000200000004					

Appendix A

You can use the following steps to configure the BRF+ checks integrated with the Validation step of the process ID in MDC.

1. Run t-code MDCIMG. Navigate through the customizing path: Master Data Governance, Consolidation and Mass Processing > Configure Validation.
2. Mark the “BRFplus Checks” checkbox as displayed in the following screen.

Change View "Master Data Consolidation: Configurations for Validation"	
 New Entries	    
Configuration ID	MBOM_VAL
Master Data Consolidation: Configurations for Validation	
Description	MBOM validation
No of Processes	10
Queue Prefix	MDC_MBOM_VAL_Q_
<input checked="" type="checkbox"/> BRF+ Checks	
<input type="checkbox"/> Write MDQ Worklist	
<input type="checkbox"/> Remove Unchanged Rec	
Threshold	<input type="text"/>

3. Run t-code MDCIMG. Navigate to the following customizing path:

Master Data Governance, Consolidation and Mass Processing > Configure Process Models and Field Properties > Configure Process Models.

4. Select the BO type as 237. Click on the “Resultant Artifacts” column.

Change View "Business Object Type": Overview				
Dialog Structure		Business Object Type	Resultant Artifacts	Reset Cache
63	New Entries	BO Type	BO Type Description	Namespace
		1405	Business Partner Relationship	
		147	Business Partner	
		183	Individual Material	/UGI/
		185	Installation Point	/UGI/
		194	Material	
		237	File of Material	/UGI/
		MDC_147	Business Partner for Consolidation	
		2183	Individual Material	

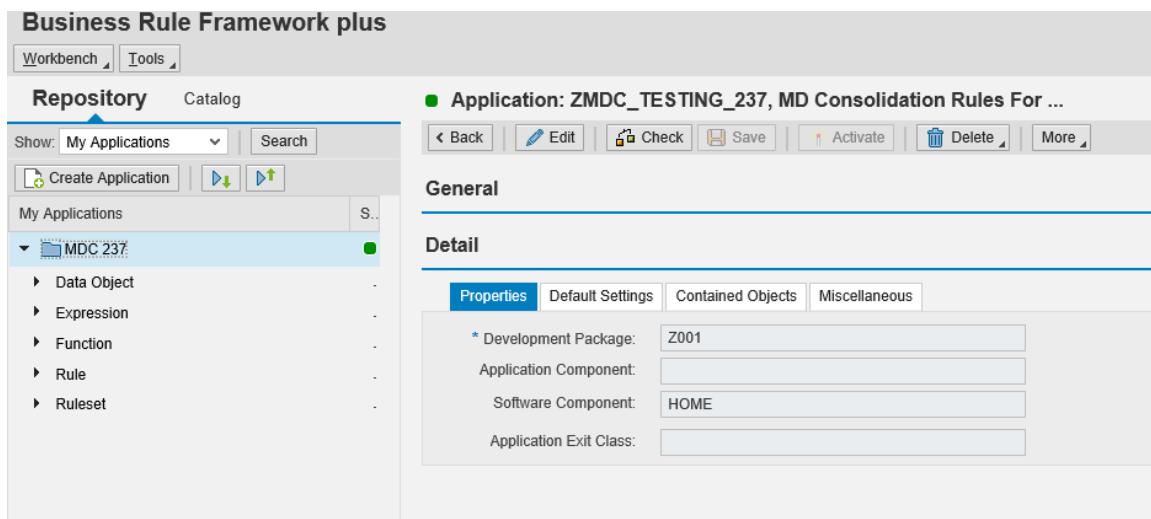
5. Enter the package in customer namespace. Click on “Apply BRF+ Artifacts”. This will generate the BRFplus application with all the required objects used to further define the business rules for data enrichment.

Model Maintenance																																																																	
		Apply Missing		Apply Selected		Apply BRF+ Artifacts																																																											
Package		2001																																																															
Table Keeps																																																																	
<table border="1"> <thead> <tr> <th>Table</th> <th>Type</th> <th>Template</th> <th>Name</th> <th>Available</th> <th>Custom</th> </tr> </thead> <tbody> <tr> <td>MAST</td> <td>STRUCTURE</td> <td>MDC_TMPL_ATTRIBUTES</td> <td>/UGI/MDC_MAST_ATTRIBUTES</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>MAST</td> <td>TABLE</td> <td>MDC_TMPL_SRCROOT</td> <td>/UGI/MAST_SRC</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>MAST</td> <td>TABLE</td> <td>MDC_TMPL_SRCSTAT</td> <td>/UGI/MAST_SRC_ST</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>MAST</td> <td>TABLETYPE</td> <td>MDC_TMPL_SRC_TT</td> <td>/UGI/MDC_TT_MAST_SRC</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>MAST</td> <td>TABLE</td> <td>MDC_TMPL_PRCROOT</td> <td>/UGI/MAST_PRC</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>MAST</td> <td>TABLETYPE</td> <td>MDC_TMPL_PRC_TT</td> <td>/UGI/MDC_TT_MAST_PRC</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>STKO</td> <td>STRUCTURE</td> <td>MDC_TMPL_KEY</td> <td>/UGI/MDC_STKO_KEY</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>STKO</td> <td>STRUCTURE</td> <td>MDC_TMPL_ATTRIBUTES</td> <td>/UGI/MDC_STKO_ATTRIBUTES</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>STKO</td> <td>TABLE</td> <td>MDC_TMPL_SRC</td> <td>/UGI/STKO_SRC</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>						Table	Type	Template	Name	Available	Custom	MAST	STRUCTURE	MDC_TMPL_ATTRIBUTES	/UGI/MDC_MAST_ATTRIBUTES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAST	TABLE	MDC_TMPL_SRCROOT	/UGI/MAST_SRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAST	TABLE	MDC_TMPL_SRCSTAT	/UGI/MAST_SRC_ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAST	TABLETYPE	MDC_TMPL_SRC_TT	/UGI/MDC_TT_MAST_SRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAST	TABLE	MDC_TMPL_PRCROOT	/UGI/MAST_PRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAST	TABLETYPE	MDC_TMPL_PRC_TT	/UGI/MDC_TT_MAST_PRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	STKO	STRUCTURE	MDC_TMPL_KEY	/UGI/MDC_STKO_KEY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	STKO	STRUCTURE	MDC_TMPL_ATTRIBUTES	/UGI/MDC_STKO_ATTRIBUTES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	STKO	TABLE	MDC_TMPL_SRC	/UGI/STKO_SRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table	Type	Template	Name	Available	Custom																																																												
MAST	STRUCTURE	MDC_TMPL_ATTRIBUTES	/UGI/MDC_MAST_ATTRIBUTES	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
MAST	TABLE	MDC_TMPL_SRCROOT	/UGI/MAST_SRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
MAST	TABLE	MDC_TMPL_SRCSTAT	/UGI/MAST_SRC_ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
MAST	TABLETYPE	MDC_TMPL_SRC_TT	/UGI/MDC_TT_MAST_SRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
MAST	TABLE	MDC_TMPL_PRCROOT	/UGI/MAST_PRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
MAST	TABLETYPE	MDC_TMPL_PRC_TT	/UGI/MDC_TT_MAST_PRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
STKO	STRUCTURE	MDC_TMPL_KEY	/UGI/MDC_STKO_KEY	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
STKO	STRUCTURE	MDC_TMPL_ATTRIBUTES	/UGI/MDC_STKO_ATTRIBUTES	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
STKO	TABLE	MDC_TMPL_SRC	/UGI/STKO_SRC	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																												
Available Appends																																																																	
<table border="1"> <thead> <tr> <th>Table</th> <th>Active Append Name</th> <th>Source Append Name</th> <th>Process Append Name</th> <th>Custom</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							Table	Active Append Name	Source Append Name	Process Append Name	Custom																																																						
Table	Active Append Name	Source Append Name	Process Append Name	Custom																																																													

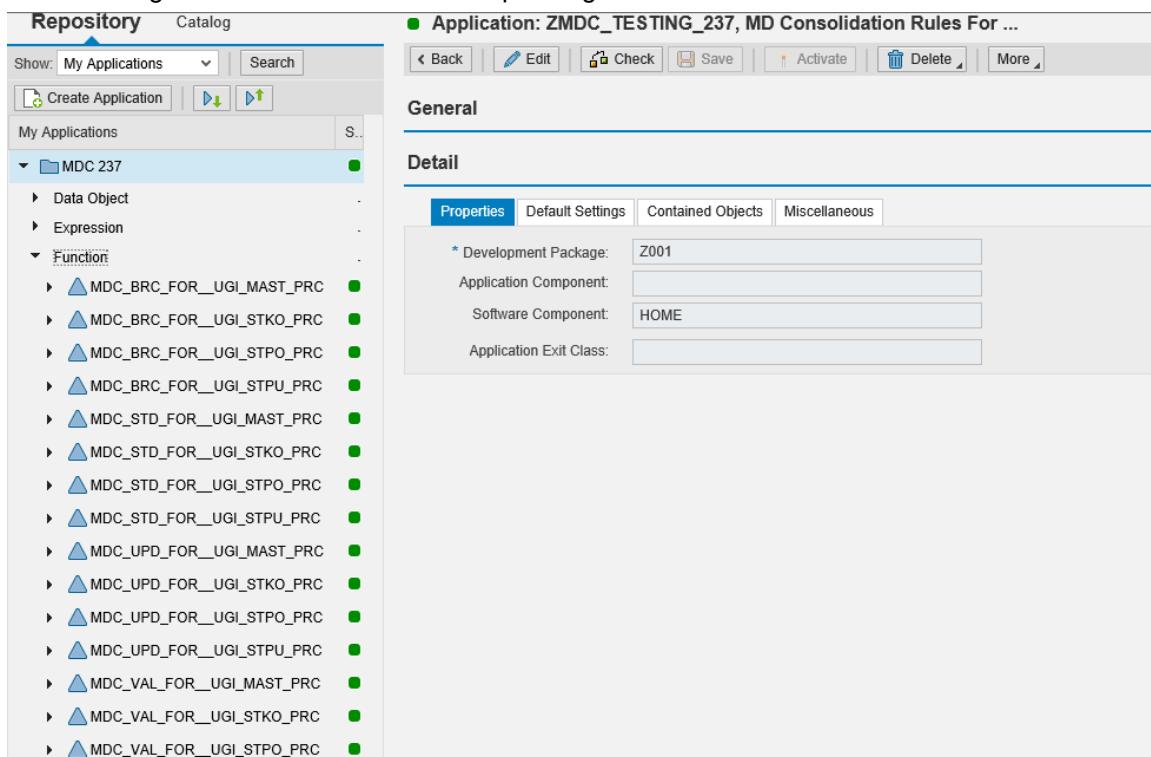
Once the artifacts are generated successfully, a pop up appears with the detailed messages.

Error Log		
Type	Name of the column	Message Text
[Yellow]		Created BRF+ application ZMDC_TESTING_237
[Green]		Object ZMDC_TESTING_237 successfully activated
[Green]		Object ZMDC_TESTING_237 successfully activated
[Green]		Object MDC_INITIALIZE_NUMBER successfully activated
[Green]		Object MDC_LOG_EXT_ID successfully activated
[Green]		Object MDC_VALIDATION_STATUS successfully activated
[Green]		Object MDC_TABLE_OF_UGI_MAST_PRC successfully activated
[Green]		Object MDC_VAL_FOR_UGI_MAST_PRC successfully activated
[Green]		Object MDC_STD_FOR_UGI_MAST_PRC successfully activated
[Green]		Object MDC_BRC_FOR_UGI_MAST_PRC successfully activated
[Green]		Object MDC_UPD_FOR_UGI_MAST_PRC successfully activated
[Green]		Object MDC_LOOP_AT_UGI_MAST_PRC successfully activated
[Green]		Object MDC_BEST_OF_UGI_MAST_PRC successfully activated
[Green]		Object MDC_GET_BEST_UGI_MAST_PRC successfully activated
[Green]		Object MDC_TABLE_OF_UGI_STKO_PRC successfully activated
[Green]		Object MDC_VAL_FOR_UGI_STKO_PRC successfully activated
[Green]		Object MDC_STD_FOR_UGI_STKO_PRC successfully activated
[Green]		Object MDC_BRC_FOR_UGI_STKO_PRC successfully activated
[Green]		Object MDC_UPD_FOR_UGI_STKO_PRC successfully activated
[Green]		Object MDC_LOOP_AT_UGI_STKO_PRC successfully activated
[Green]		Object MDC_BEST_OF_UGI_STKO_PRC successfully activated
[Green]		Object MDC_GET_BEST_UGI_STKO_PRC successfully activated
[Green]		Object MDC_TABLE_OF_UGI_STPO_PRC successfully activated
[Green]		Object MDC_VAL_FOR_UGI_STPO_PRC successfully activated
[Green]		Object MDC_STD_FOR_UGI_STPO_PRC successfully activated
[Green]		Object MDC_BRC_FOR_UGI_STPO_PRC successfully activated
[Green]		Object MDC_UPD_FOR_UGI_STPO_PRC successfully activated
[Green]		Object MDC_LOOP_AT_UGI_STPO_PRC successfully activated
[Green]		Object MDC_BEST_OF_UGI_STPO_PRC successfully activated
[Green]		Object MDC_GET_BEST_UGI_STPO_PRC successfully activated
[Green]		Object MDC_TABLE_OF_UGI_STPU_PRC successfully activated
[Green]		Object MDC_VAL_FOR_UGI_STPU_PRC successfully activated
[Green]		Object MDC_STD_FOR_UGI_STPU_PRC successfully activated
[Green]		Object MDC_BRC_FOR_UGI_STPU_PRC successfully activated
[Green]		Object MDC_UPD_FOR_UGI_STPU_PRC successfully activated
[Green]		Object MDC_LOOP_AT_UGI_STPU_PRC successfully activated
		Object MDC_UPD_FOR_UGI_STPU_PRC successfully activated
		Object MDC_LOOP_AT_UGI_STPU_PRC successfully activated
		Object MDC_BEST_OF_UGI_STPU_PRC successfully activated
		Object MDC_GET_BEST_UGI_STPU_PRC successfully activated

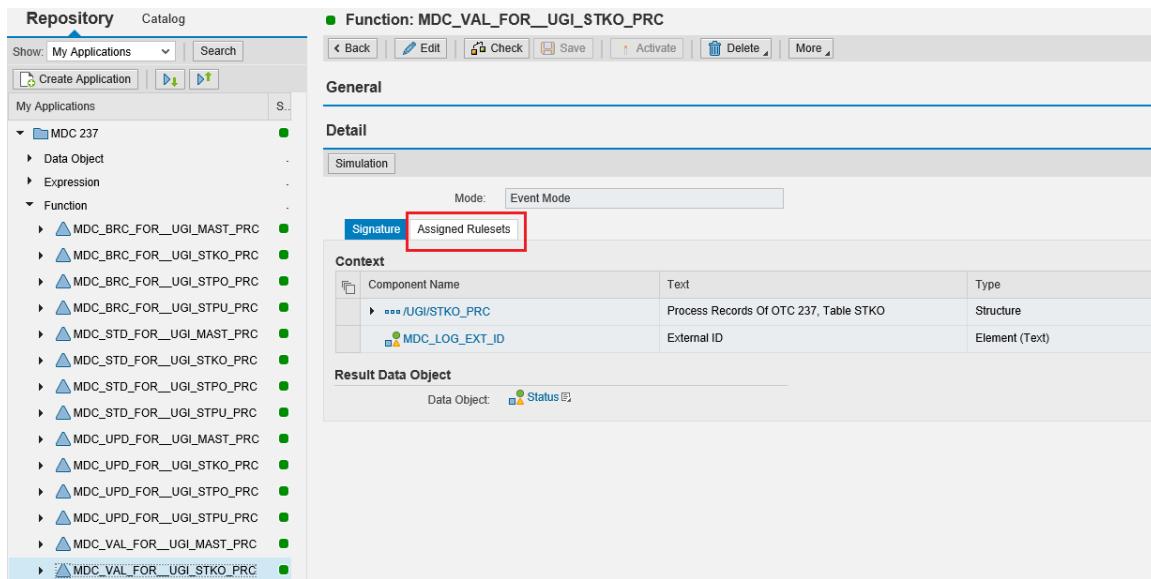
6. Launch t-code BRFplus. Ensure that the following application named “MDC_237” is generated.



The following functions are created corresponding to each of the Process tables.

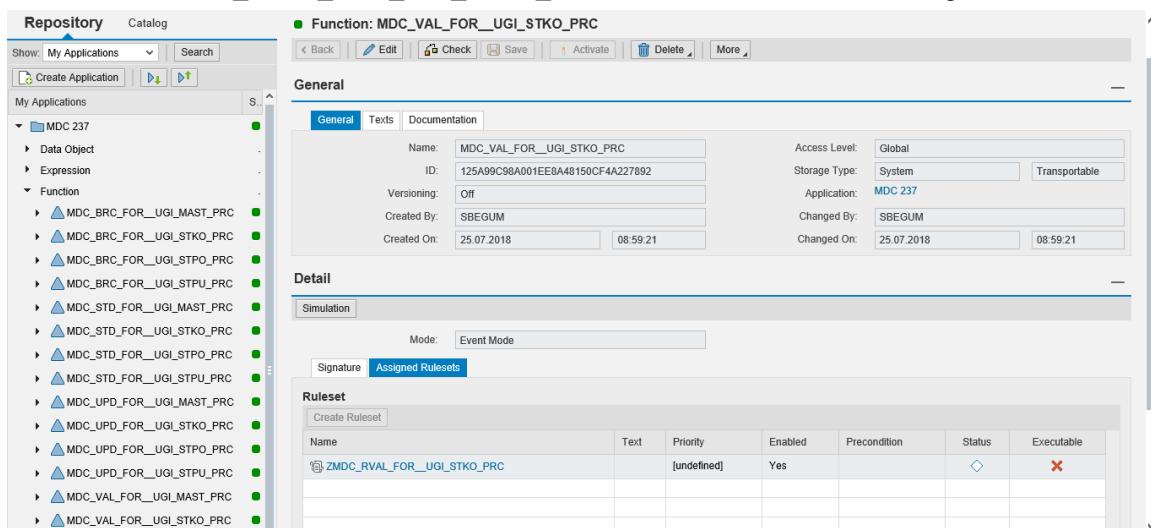


7. Choose a function corresponding to the table for which the rule is to be defined say "MDC_VAL_FOR_UGI_STKO_PRC".
 - a. Navigate to "Assigned Rulesets".
 - b. Click on "Create Ruleset". Provide the name of the ruleset and description. Save in the transport request.



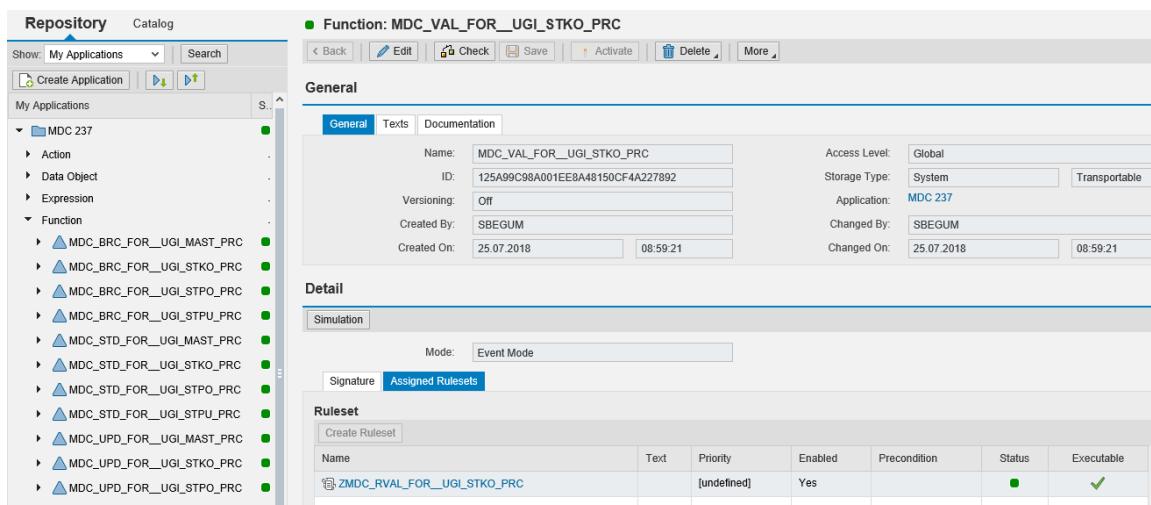
The screenshot shows the SAP Fiori interface for creating a function. The left sidebar lists various functions under 'MDC 237'. The main area is titled 'Function: MDC_VAL_FOR_UGI_STKO_PRC'. In the 'Context' section, the 'Assigned Rulesets' tab is highlighted. The 'Result Data Object' section shows a data object named 'Status'.

The ruleset "ZMDC_RVAL_FOR_UGI_STKP_PRC" is created as in the following screen.



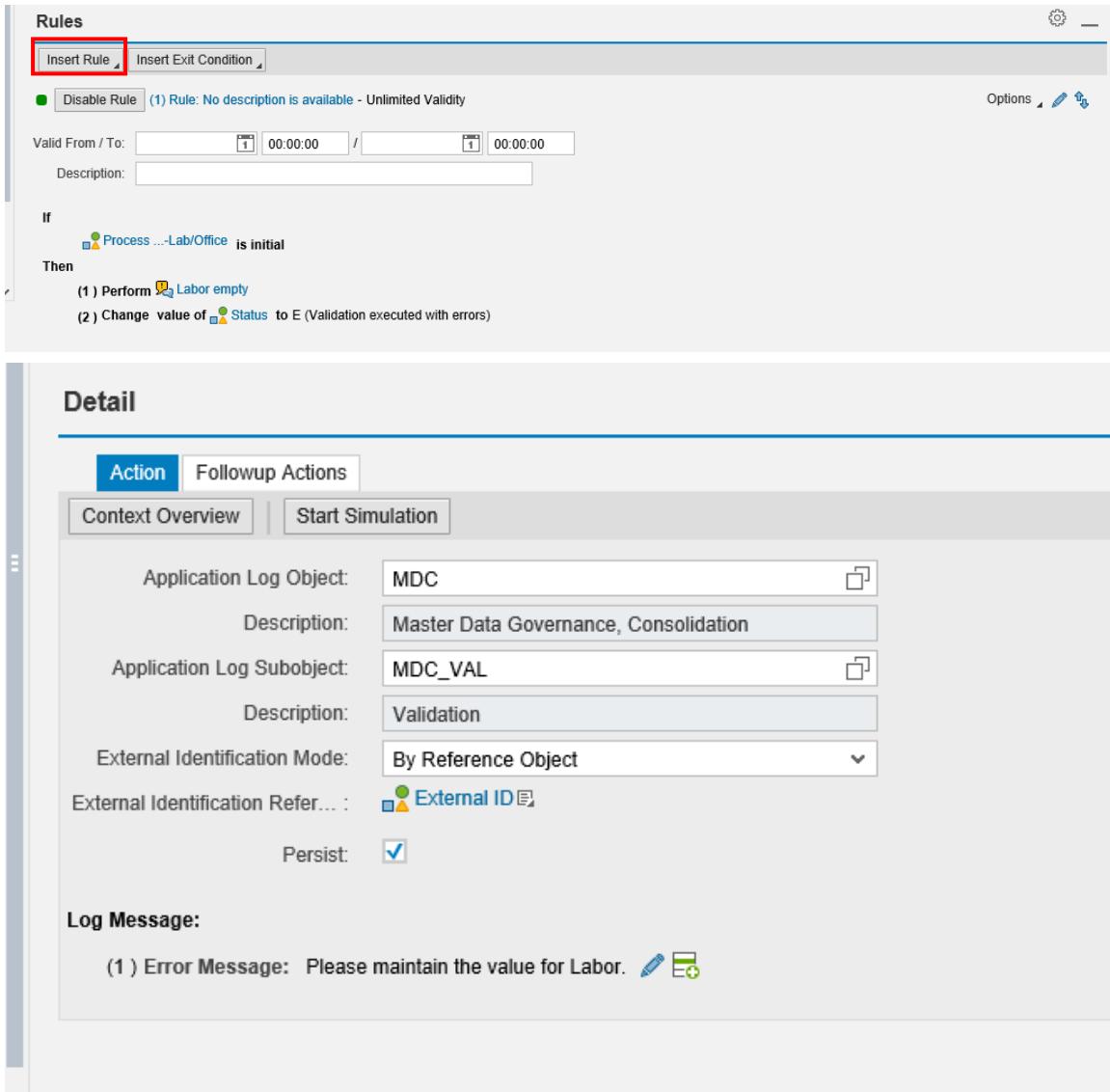
The screenshot shows the SAP Fiori interface for creating a ruleset. The left sidebar lists various functions under 'MDC 237'. The main area is titled 'Function: MDC_VAL_FOR_UGI_STKO_PRC'. In the 'Ruleset' section, the 'Assigned Rulesets' tab is highlighted, showing a table with one row for 'ZMDC_RVAL_FOR_UGI_STKP_PRC'.

c. Save and Activate the ruleset.



The screenshot shows the SAP Fiori interface for viewing the function details. The left sidebar lists various functions under 'MDC 237'. The main area is titled 'Function: MDC_VAL_FOR_UGI_STKO_PRC'. In the 'Ruleset' section, the 'Assigned Rulesets' tab is highlighted, showing a table with one row for 'ZMDC_RVAL_FOR_UGI_STKP_PRC', which has a green checkmark in the 'Executable' column.

- d. Click on “Insert Rule” and define the rule as displayed in the screen. The following screen displays a simple rule on the Labor field to throw an error message “Please maintain the labor field” when the field is not provided.



Rules

Insert Rule **Insert Exit Condition**

Disable Rule (1) Rule: No description is available - Unlimited Validity

Valid From / To: [] 00:00 / [] 00:00:00

Description:

If

Process ...-Lab/Office is initial

Then

(1) Perform Labor empty
(2) Change value of Status to E (Validation executed with errors)

Detail

Action **Followup Actions**

Context Overview | Start Simulation

Application Log Object: MDC

Description: Master Data Governance, Consolidation

Application Log Subobject: MDC_VAL

Description: Validation

External Identification Mode: By Reference Object

External Identification Refer... : External ID

Persist:

Log Message:

(1) Error Message: Please maintain the value for Labor.  