

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

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: Thirupathi Reddy K

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	19
Configure Process Template.....	19
Perform Mass Processing	21
Direct Change	21
Mass Change Using Excel.....	32
Perform Consolidation.....	42
Matching and Best Record Calculation	42
Configure Process Template.....	42
Prerequisites.....	45
Configure Ruleset	45
Perform Import.....	49
Start Consolidation Process	51
Appendix A.....	68

Introduction

SAP MDG, Consolidation and Mass processing enable 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 Equipment.

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

File Creation for Import

The file used should be updated with the unique source ID for the root table EQUI and all the related tables provided in separate tabs or should be provided with key in each of the tabs to uniquely link the related records.

Configure Process Template

Use the following steps to configure the process template:

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

Display View "Master Data Consolidation: Configuration of Adapters": O			
BO Type	Step Type	Process Step Adapter	Adapter Description
183	Activation	▼ /UGI/CL_MDC_ADAPTER_EQ_ACT	Activation for EQ
183	Best Record Calculation	▼ /UGI/CL_MDC_ADAPTER_EQ_BRC	Equipment Best Record Calculation
183	Edit	▼ CL_MDC_ADAPTER_EDI	Interactive Mass Processing
183	Filter & Remove	▼ CL_MDC_ADAPTER_FAR	Filter and Remove
183	Matching	▼ /UGI/CL_MDC_ADAPTER_EAM_MTC	EAM Hana Matching
183	Matching	▼ CL_MDC_ADAPTER_FUZZY_MTC	CL_MDC_ADAPTER_FUZZY_MTC
183	Matching	▼ CL_MDC_ADAPTER_MTC	CL_MDC_ADAPTER_MTC
183	Standardization	▼ /UGI/CL_MDC_ADAPTER_EQ_VALMAP	Evaluate value mapping for EQ
183	Standardization	▼ /UGI/CL_MDC_ADAPTER_EQ_KEYMAP	Evaluate Key Mapping for EQ
183	Standardization	▼ CL_MDC_ADAPTER_BRF_STD	BRFplus
183	Validation	▼ /UGI/CL_MDC_ADAPTER_EQ_VAL	EQ Validations (Business Suite)

3. Navigate through the path: Master Data Governance, Consolidation and Mass Processing> Configure Process Template > Specify Process Template.
4. Add the following entry as part of customizing activity.

Display View "Process Template": Overview							
Dialog Structure		Process Template					
Proc Tmpl.	Description	BO Type	Description	Process Workfl...	Name	Process Goal	Default Te...
UGI_E_STD	SAP: Load Data-Testing with STD(EQ)	183	Individual Material	W554500001	MDC Workflow	Consolidation of ..	<input type="checkbox"/>

The template should be assigned with steps to be considered while running the consolidation of data. The following template has 5 steps including the Validation, Standardization, Activation and Replication.

Display View "Process Template Step": Overview						
Dialog Structure		Process Template	UGI_E_STD	SAP: Load Data-Testing with STD(EQ)		
Process Template		Bus. Obj. Type	183	Installation Point		
Process Template Step						
Step	Step Type	Description	BO Type	Adapter	Config. ID	Check Pt.
1	Validat...	Initial Check		/UGI/CL_MDC_ADAPTER_EQ_VAL	EQ_VAL	<input checked="" type="checkbox"/>
2	Standa...	Standardization		/UGI/CL_MDC_ADAPTER_EQ_KEYMAP		<input checked="" type="checkbox"/>
3	Validat...	Validation		/UGI/CL_MDC_ADAPTER_EQ_VAL	EQ_VAL	<input checked="" type="checkbox"/>
4	Activat...	Activation		/UGI/CL_MDC_ADAPTER_EQ_ACT	SAP_ACT_EQ	<input type="checkbox"/>

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

- Validation can be configured for MDG checks and BRF+. Refer [Appendix A](#) for detailed steps to configure the BRF+ checks.

Change View "Master Data Consolidation: Configurations for Validation"	
	New Entries
	BC Set: Change Field Values
Configuration ID	SAP_VAL
Master Data Consolidation: Configurations for Validation	
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 Equipment is to be assigned i.e. EQMAST0B, in case the Activation with change request is selected.
 - The value “Max. Rec” can be changed to a value to indicate the number of Equipment objects allowed per Change Request.
 - Replication is integrated with the Activation step for Direct Activation. The below indicated check box should be marked for the IDocs to be generated after successful activation.

Change View "Configurations for Activation for EQ": Details

Configuration ID: SAP_ACT_EQ SAP : EQ Activation

Configurations for Activation for EQ

No of Processes	10
Queue Prefix	MDC_EQ_ACT_Q

New Records

Activation Target for New Records	Activation with Change Request	Type of Chg. Request	EQMASTERB	Max. Reco	10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco	

Update Records

Activation Target for Updated Records	Activation of Best Record with Change Request	Type of Chg. Request	EQMASTERB	Max. Reco	10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco	

Match Group

Activation Target for Match Groups	Activation of Best Record with Change Request	Type of Chg. Request	EQMASTERB	Max. Reco	10
Target for Incorrect Match Groups		Type of Chg. Request		Max. Reco	10

Replication

Call DRF after Activation

Validation

Execute Central Governance Checks (Validation Rules (BRF+) & BADI Validations)
 MDG BRF Checks

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 : A1001

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) / A1001

Show

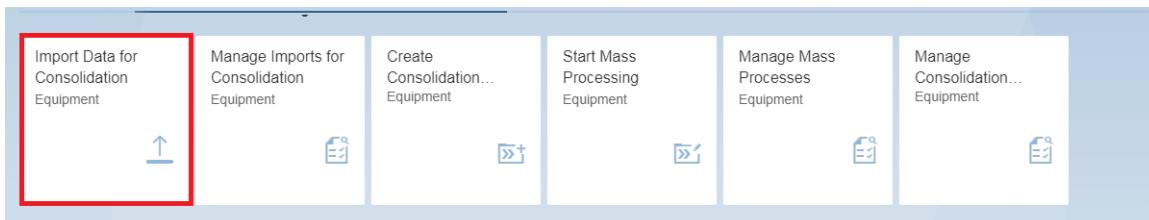
Mapped Objects

Add Row	Change Row	Delete Row	Undo Changes	
*No.	*System ID	*Business Object Type	Object ID Type	*Object ID
1	S23_ULABSHN23_S23CLNT100	Material	Material ID (external f...	A1001
2	S23_ULABSHN23_23CLNT200	Material	Material ID (external f...	B1001

Perform Mass Create

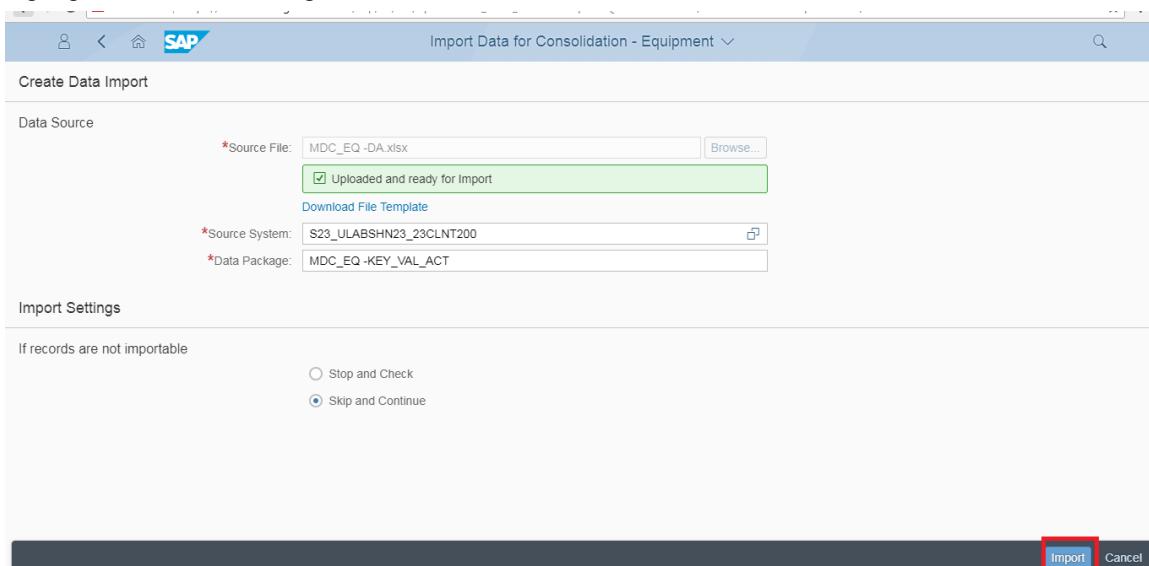
Use the following steps to perform the mass create for equipment using MDC.

1. Launch Fiori launchpad using t-code /UI2/FLP.
2. Run “Import Data for Consolidation - Equipment”.



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

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



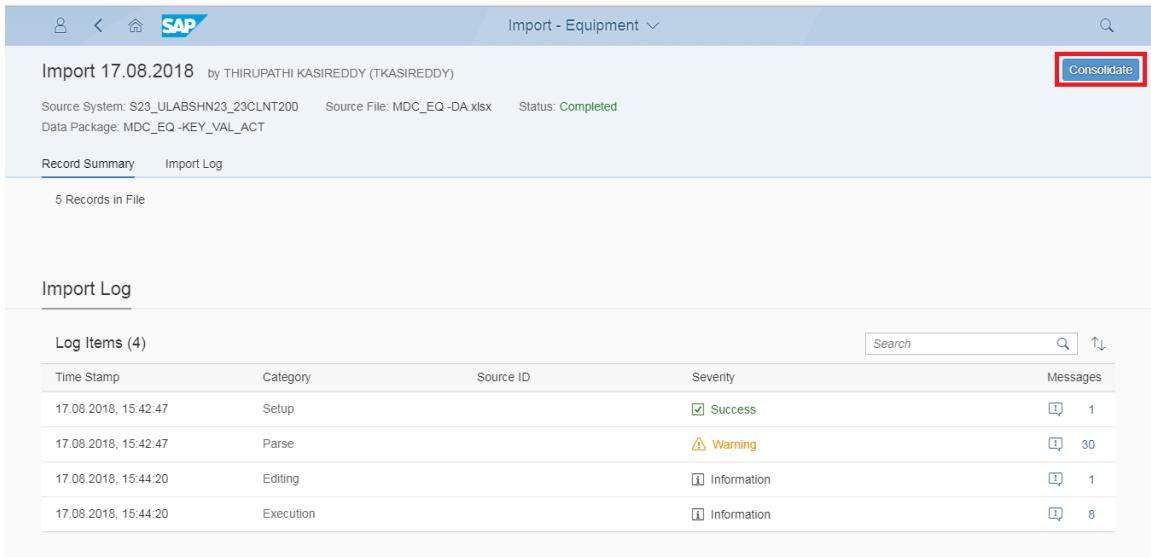
Note

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-Equipment” application from the “Import data for Consolidation-Equipment” application.

Note

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



Import 17.08.2018 by THIRUPATHI KASIREDDY (TKASIREDDY)

Source System: S23_ULABSHN23_23CLNT200 Source File: MDC_EQ -DA.xlsx Status: Completed

Data Package: MDC_EQ -KEY_VAL_ACT

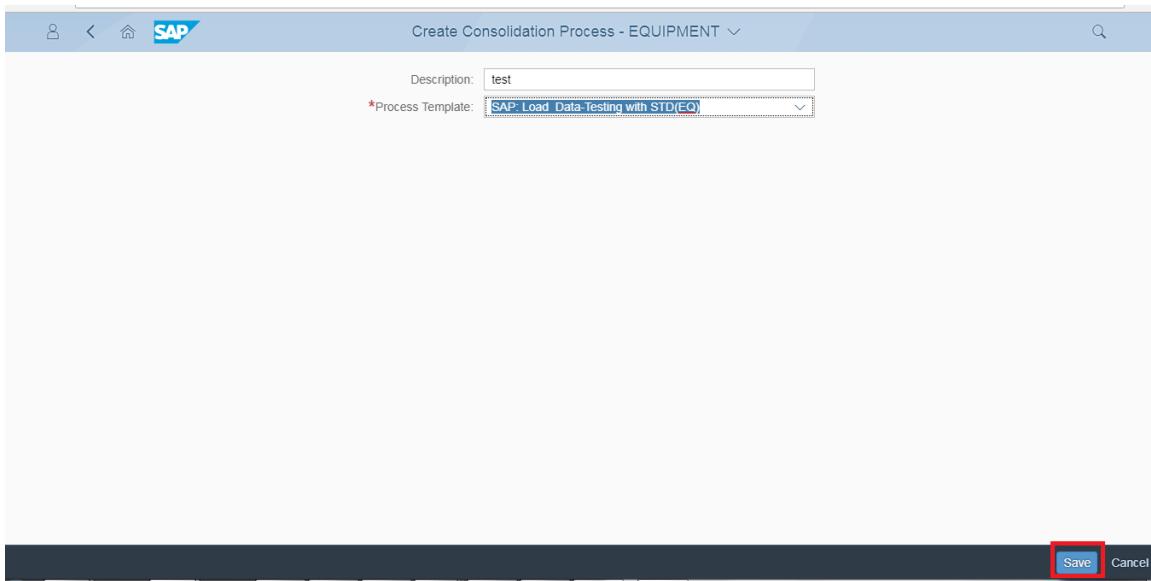
Record Summary Import Log

5 Records in File

Import Log

Log Items (4)				Search	↑
Time Stamp	Category	Source ID	Severity	Messages	
17.08.2018, 15:42:47	Setup		Success	1	
17.08.2018, 15:42:47	Parse		Warning	30	
17.08.2018, 15:44:20	Editing		Information	1	
17.08.2018, 15:44:20	Execution		Information	8	

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



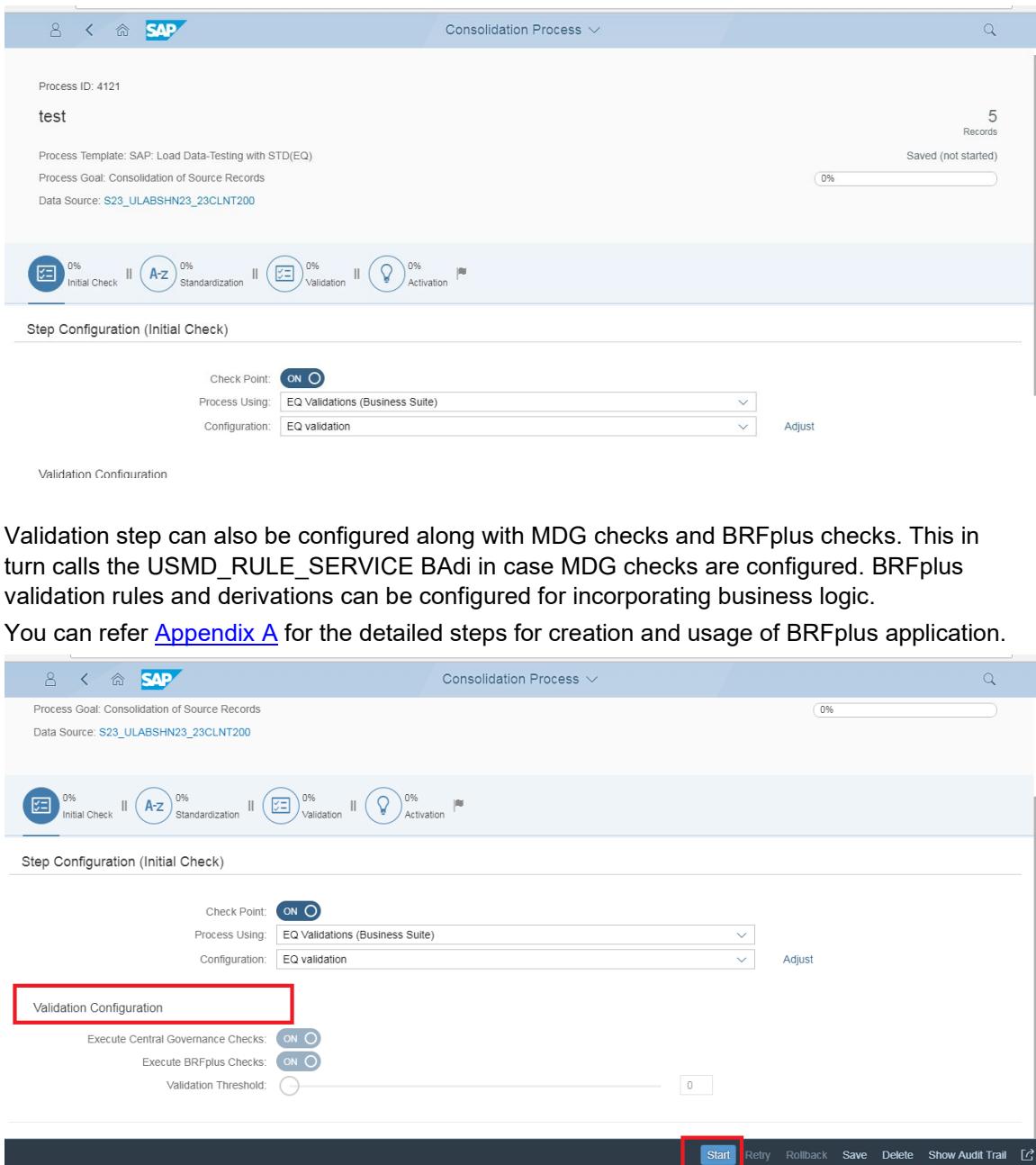
Description: test

*Process Template: SAP: Load Data-Testing with STD(EQ)

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.

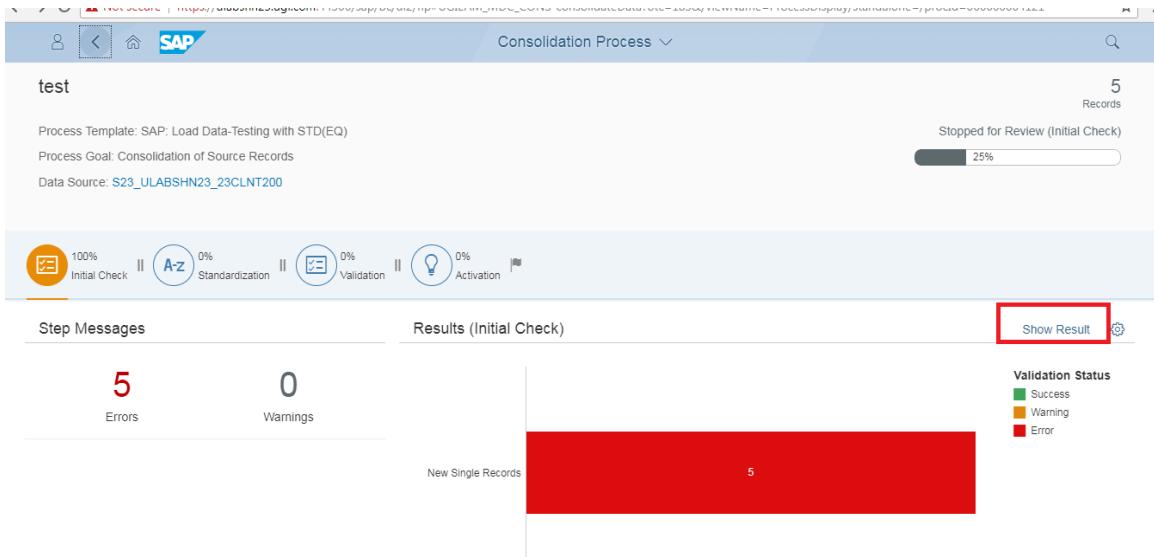
The default configurations are read from the backend for the process steps. In case, it must be changed, click on the “Adjust” link on the UI. This makes the screen editable for selections.



The screenshot shows the SAP Consolidation Process interface. At the top, it displays "Process ID: 4121" and "test". Below this, the process template is listed as "SAP: Load Data-Testing with STD(EQ)". The process goal is "Consolidation of Source Records" and the data source is "S23_ULABSHN23_23CLNT200". On the right side, there are progress bars for five steps: Initial Check (0%), Standardization (0%), Validation (0%), Activation (0%), and a fourth step which is partially visible. The validation step bar shows "5 Records" and "Saved (not started)" with a progress of 0%. Below the progress bars, the "Step Configuration (Initial Check)" section is shown. It includes fields for "Check Point" (set to "ON"), "Process Using" (selected as "EQ Validations (Business Suite)"), and "Configuration" (selected as "EQ validation"). There is also an "Adjust" button. A red box highlights the "Validation Configuration" section below these settings. This section contains three toggle switches: "Execute Central Governance Checks" (ON), "Execute BRFplus Checks" (ON), and "Validation Threshold" (set to 0). At the bottom of the configuration area, there is a toolbar with buttons for "Start" (highlighted with a red box), "Retry", "Rollback", "Save", "Delete", "Show Audit Trail", and a log icon.

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: SAP: Load Data-Testing with STD(EQ)
 Process Goal: Consolidation of Source Records
 Data Source: S23_ULABSHN23_23CLNT200

Initial Check 100% Standardization 0% Validation 0% Activation

Step Messages **Results (Initial Check)** **Show Result**

5 Errors **0 Warnings**

New Single Records 5

Validation Status: Success (Green), Warning (Yellow), Error (Red)

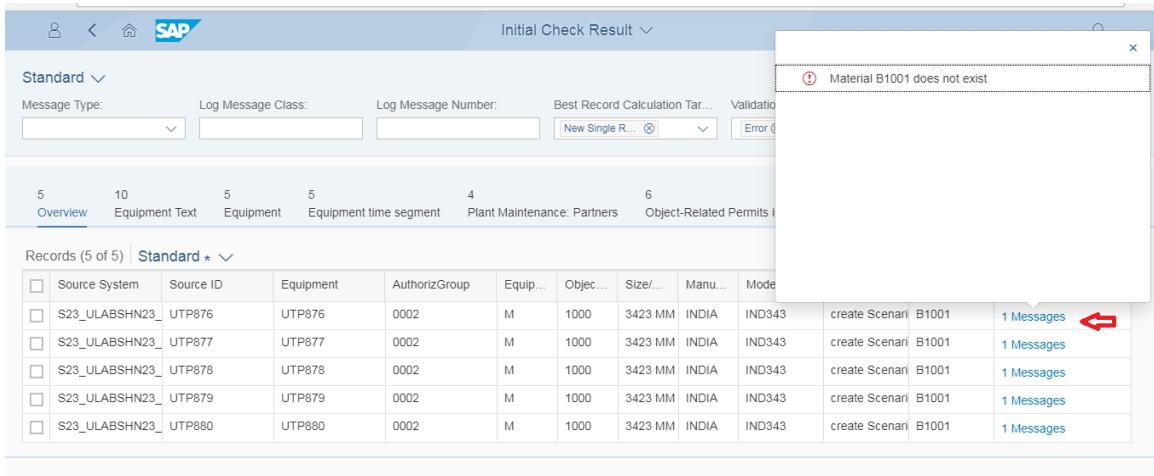
The messages are mapped to the “Details” column of the Overview tab.

6. Expand the list to view the messages.



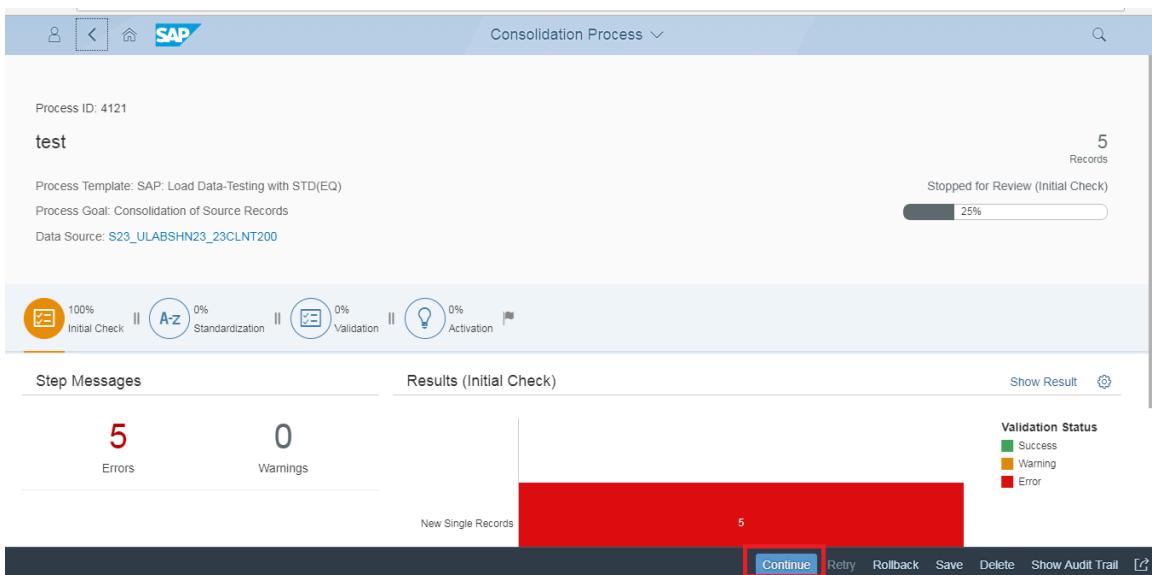
Note

The message “Material B1001 does not exist” in the above screen is because of this material does not exist in the correct system as this material exist in 200 systems (key mapping of material is B1001 (200 system->to A1001(100 system) once standardization step execution completed then only this material B1001 replaced with the key mapping material A1001.



Source System	Source ID	Equipment	AuthorizGroup	Equip...	Objec...	Size/...	Manu...	Mode	Messages
S23_ULABSHN23	UTP876	UTP876	0002	M	1000	3423 MM	INDIA	IND343	create Scenario B1001 1 Messages
S23_ULABSHN23	UTP877	UTP877	0002	M	1000	3423 MM	INDIA	IND343	create Scenario B1001 1 Messages
S23_ULABSHN23	UTP878	UTP878	0002	M	1000	3423 MM	INDIA	IND343	create Scenario B1001 1 Messages
S23_ULABSHN23	UTP879	UTP879	0002	M	1000	3423 MM	INDIA	IND343	create Scenario B1001 1 Messages
S23_ULABSHN23	UTP880	UTP880	0002	M	1000	3423 MM	INDIA	IND343	create Scenario B1001 1 Messages

7. Click on the “Continue” button to proceed to the next step.



Process ID: 4121
test

Process Template: SAP: Load Data-Testing with STD(EQ)
Process Goal: Consolidation of Source Records
Data Source: S23_ULABSHN23_23CLNT200

Initial Check 100% Standardization 0% Validation 0% Activation

Step Messages

Errors	Warnings
5	0

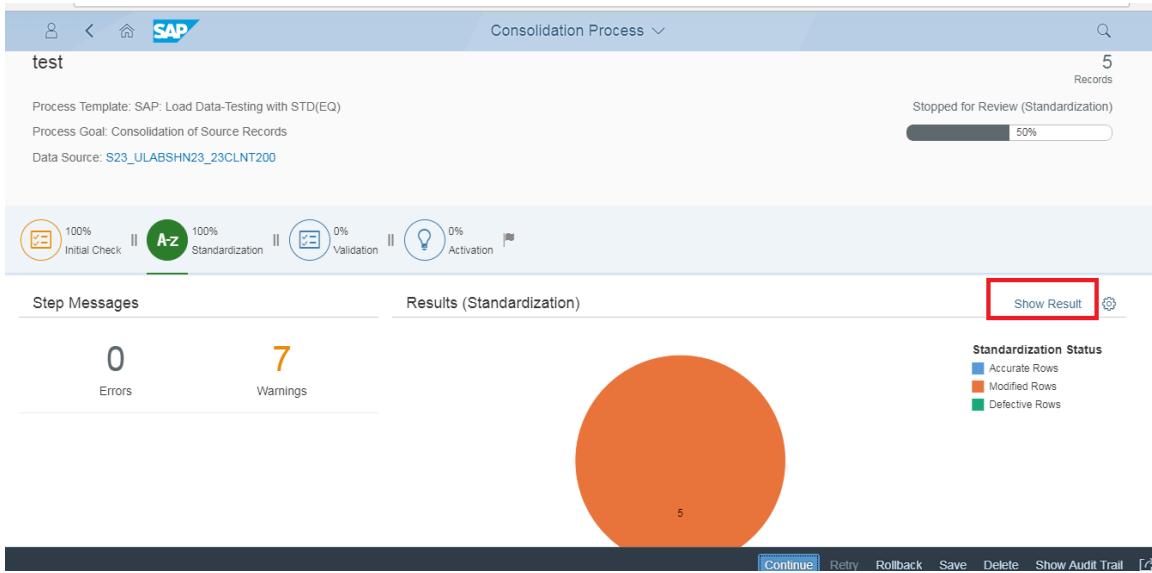
Results (Initial Check)

New Single Records	5
--------------------	---

Show Result Continue Retry Rollback Save Delete Show Audit Trail

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.



Process ID: 4121
test

Process Template: SAP: Load Data-Testing with STD(EQ)
Process Goal: Consolidation of Source Records
Data Source: S23_ULABSHN23_23CLNT200

Initial Check 100% Standardization 100% Validation 0% Activation

Step Messages

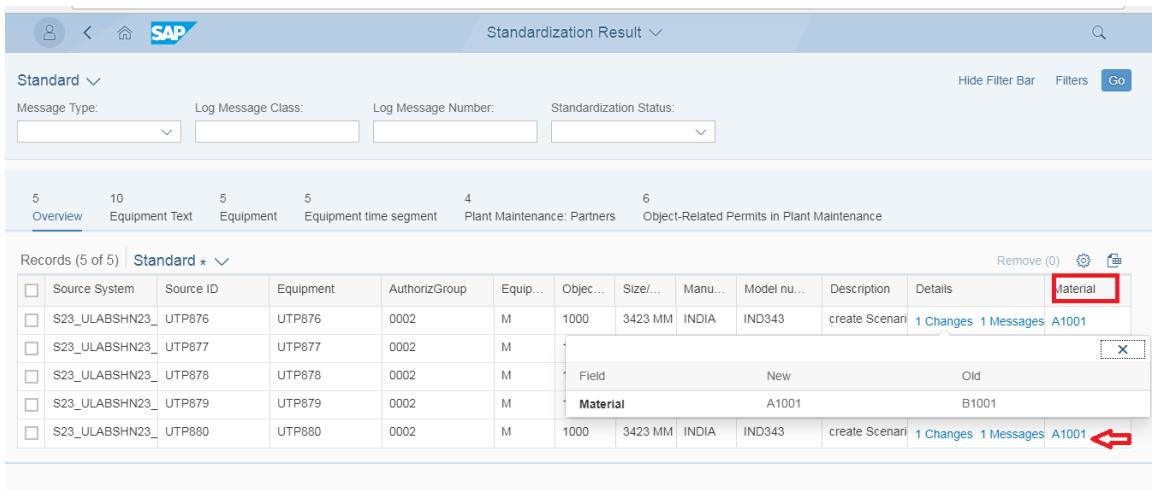
Errors	Warnings
0	7

Results (Standardization)

5

Show Result Continue Retry Rollback Save Delete Show Audit Trail

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

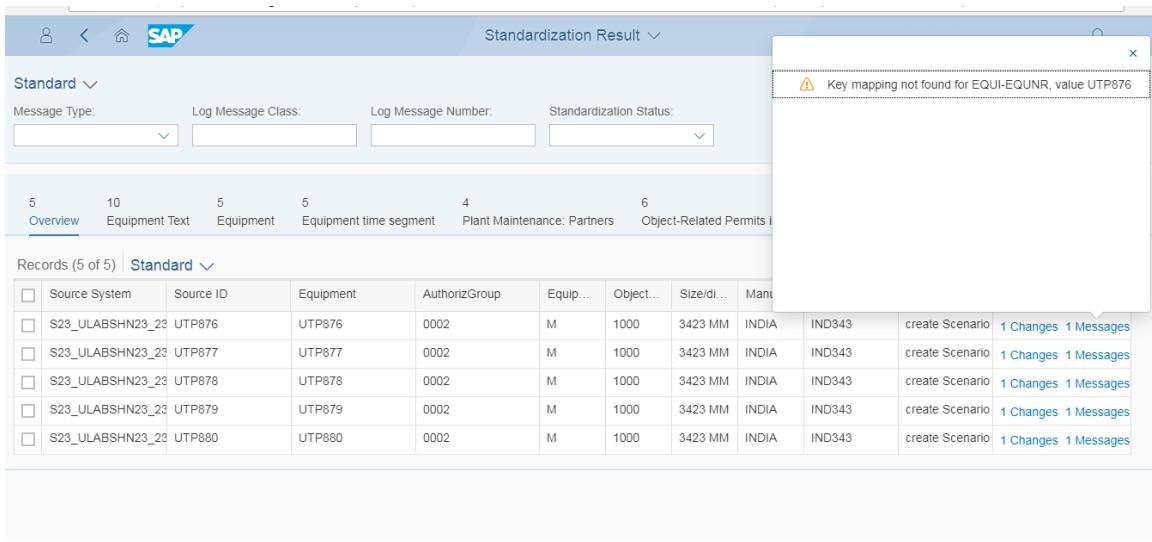


Standardization Result

Records (5 of 5) | Standard ▾

Source System	Source ID	Equipment	AuthorizGroup	Equip...	Object...	Size/di...	Manu...	Model nu...	Description	Details	Material
S23_ULABSHN23_	UTP876	UTP876	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	1 Changes 1 Messages	A1001
S23_ULABSHN23_	UTP877	UTP877	0002	M		Field	New				Old
S23_ULABSHN23_	UTP878	UTP878	0002	M		Material	A1001				B1001
S23_ULABSHN23_	UTP879	UTP879	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	1 Changes 1 Messages	A1001
S23_ULABSHN23_	UTP880	UTP880	0002	M							←

Warning messages for the fields for which the key mapping is not maintained. The status is displayed in the graph.

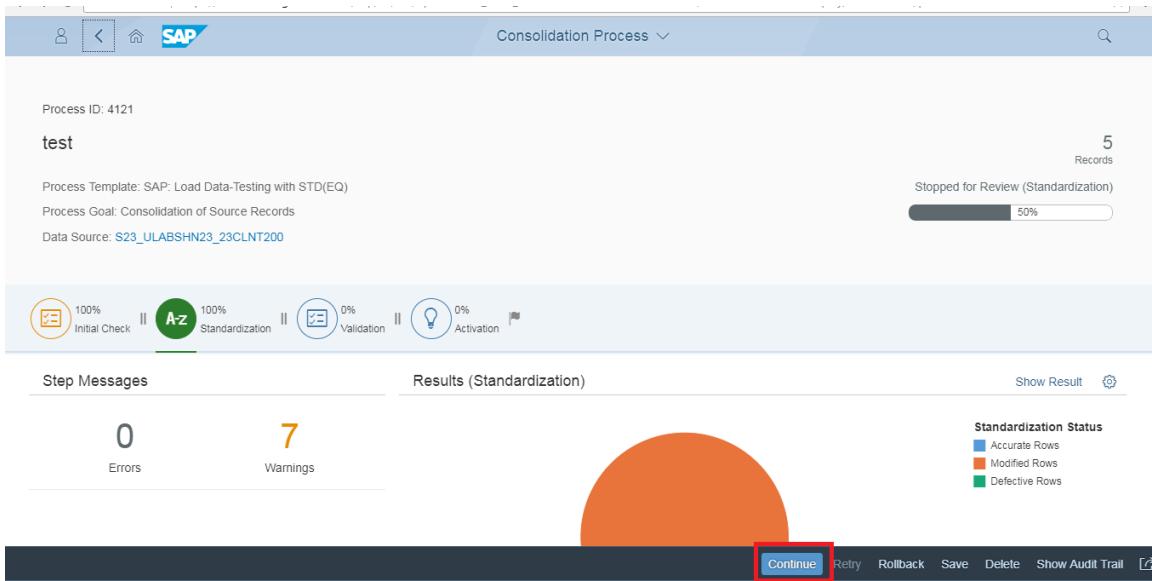


Standardization Result

Records (5 of 5) | Standard ▾

Source System	Source ID	Equipment	AuthorizGroup	Equip...	Object...	Size/di...	Manu...	Model nu...	Description	Details	Material
S23_ULABSHN23_23	UTP876	UTP876	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	1 Changes 1 Messages	
S23_ULABSHN23_23	UTP877	UTP877	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	1 Changes 1 Messages	
S23_ULABSHN23_23	UTP878	UTP878	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	1 Changes 1 Messages	
S23_ULABSHN23_23	UTP879	UTP879	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	1 Changes 1 Messages	
S23_ULABSHN23_23	UTP880	UTP880	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	1 Changes 1 Messages	

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



Consolidation Process

Process ID: 4121

test

5 Records

Stopped for Review (Standardization)

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

Step Messages

0 Errors 7 Warnings

Results (Standardization)

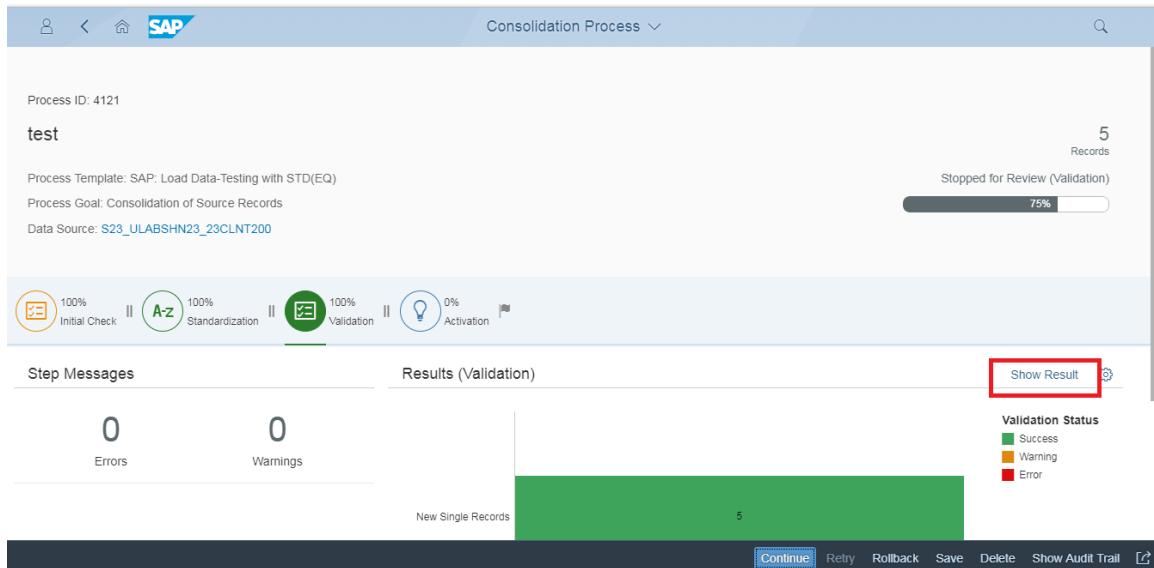
Show Result

Standardization Status

- Accurate Rows
- Modified Rows
- Defective Rows

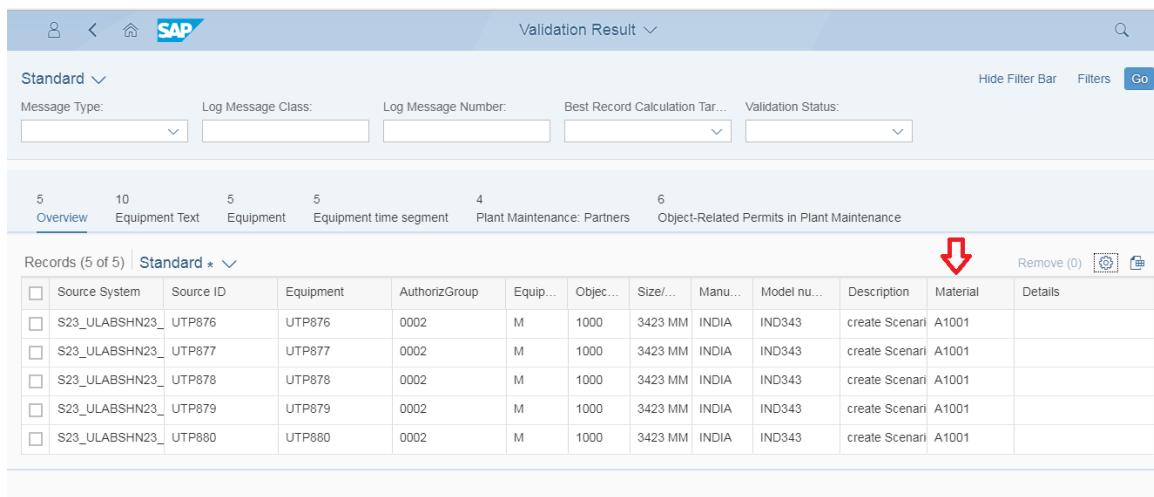
Continue

10. Once the nonexistent material has been replaced with the key mapped material, the error messages that appeared in Initial Check, no longer appear in the Validation step.
11. In case of errors, click on “Show Result” button to view and change the data.



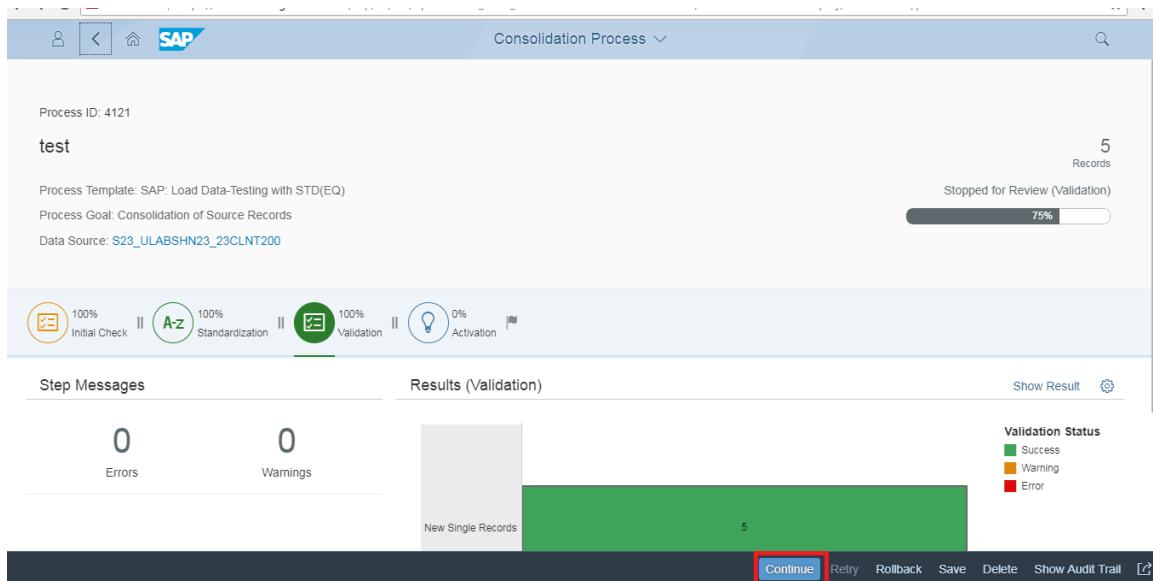
The screenshot shows the SAP Consolidation Process interface. At the top, it displays "Process ID: 4121" and "test". Below that, "Process Template: SAP: Load Data-Testing with STD(EQ)", "Process Goal: Consolidation of Source Records", and "Data Source: S23_ULABSHN23_23CLNT200". A progress bar indicates "5 Records" with "75% Stopped for Review (Validation)". Below the progress bar, there are four circular status indicators: "Initial Check" (orange, 100%), "Standardization" (green, 100%), "Validation" (green, 100%), and "Activation" (blue, 0%). The "Validation" step is underlined. The main area shows "Step Messages" with 0 Errors and 0 Warnings, and "Results (Validation)" showing 5 New Single Records. A red box highlights the "Show Result" button in the toolbar. A legend on the right defines "Validation Status": Success (green), Warning (orange), and Error (red).

The following highlighted arrow mark shows that the material key has been replaced with the key mapped material.

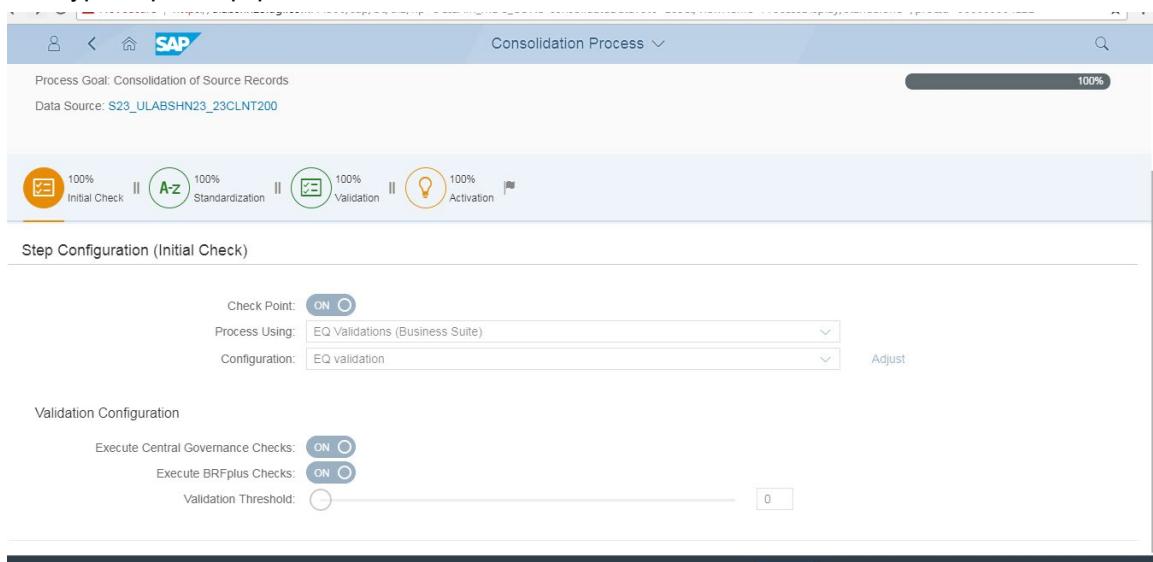


The screenshot shows the SAP Validation Result interface. It includes search and filter fields for "Message Type", "Log Message Class", "Log Message Number", "Best Record Calculation Tar...", and "Validation Status". Below these are tabs for "Overview" (selected), "Equipment Text", "Equipment", "Equipment time segment", "Plant Maintenance: Partners", and "Object-Related Permits in Plant Maintenance". A red arrow points down to the table below. The table has columns: "Records (5 of 5)", "Source System", "Source ID", "Equipment", "AuthorizGroup", "Equip...", "Objec...", "Size/...", "Manu...", "Model nu...", "Description", "Material", and "Details". The data rows show entries for UTP876 through UTP880, all mapped to material A1001.

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



Activation can be either Direct activation or through the Change Request. The Change Request is of type Import Equipment i.e. EQMAST0B.

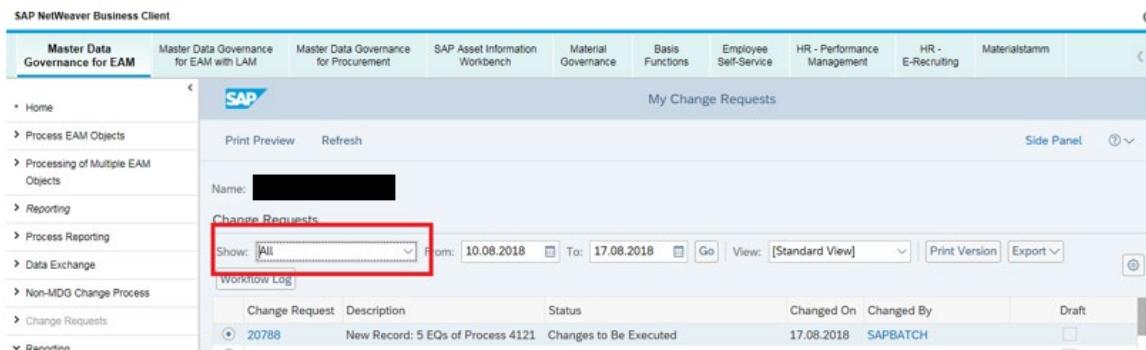


On successful Activation, the Change Request is created in MDG.

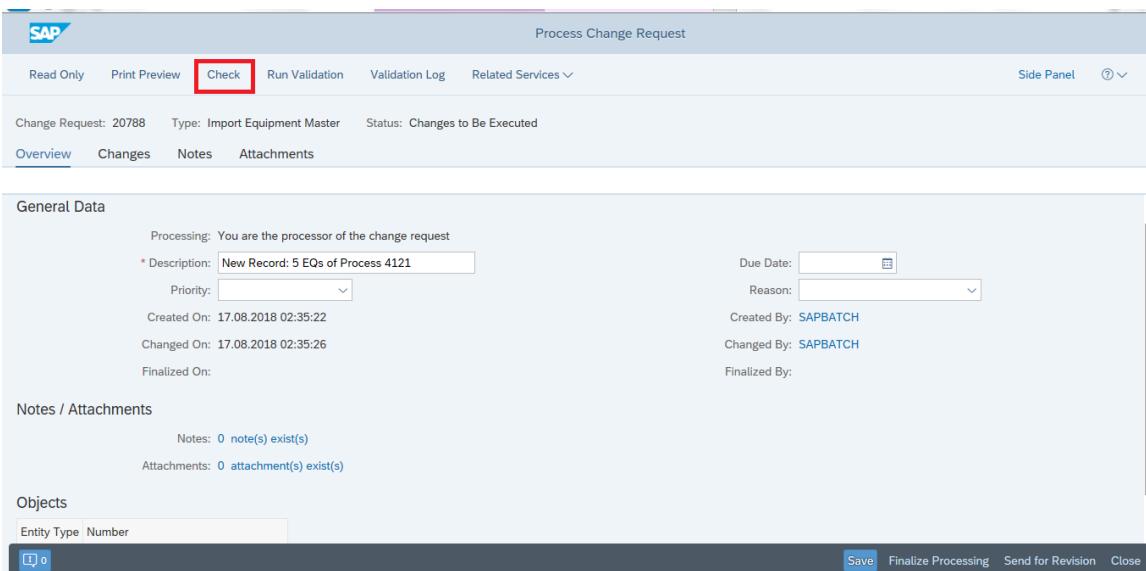
Note

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

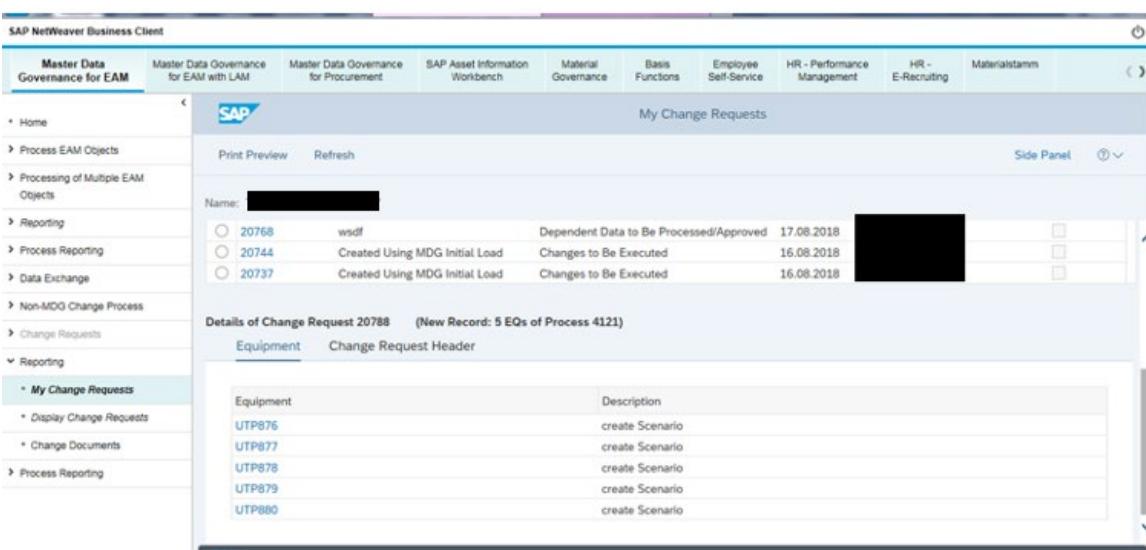
13. Launch t-code NWBC. Use the role “/UGI/_MDGEAM_MENU” to navigate to the Change Requests created.
The CR of type EQMAST0B is created with user name as SAP_WFRT (background used).
14. To search for the Change Request created, Open NWBC then click on Reporting > My Change Requests.
15. Select show as “ALL”. You can filter Change Request by using “Changed by” as “SAPBATCH”.



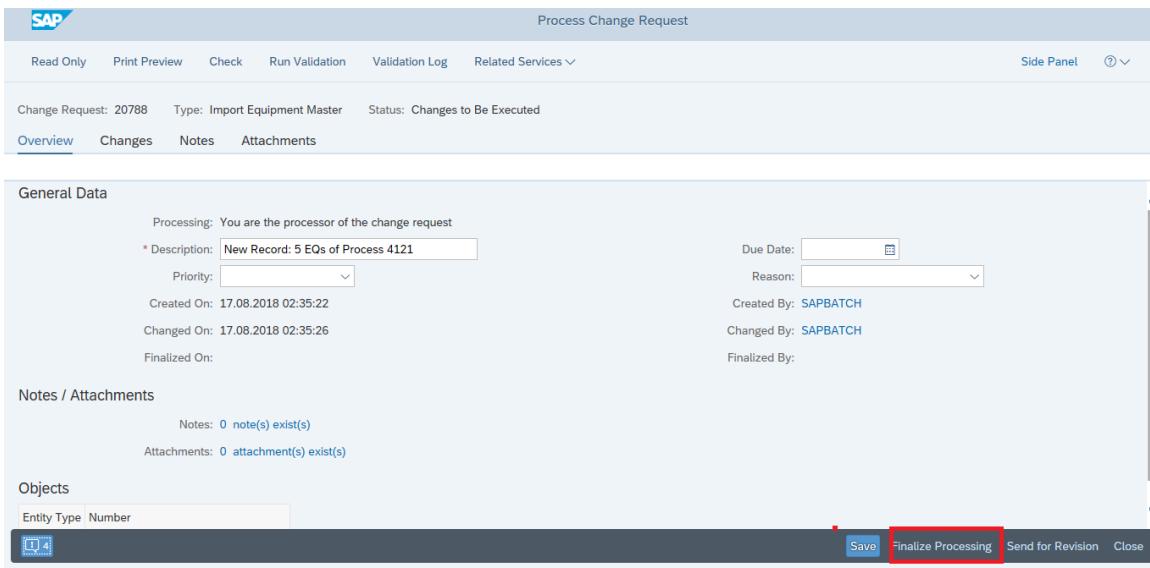
16. Open the Change Request created, click on “Check” button to perform validation. In case no errors found, the success message “No errors found” appears on the screen.



17. Double-Click on the Change Request “20788” to open the Change Request.



18. Click on “Finalize Processing” to proceed further.



Process Change Request

Change Request: 20788 Type: Import Equipment Master Status: Changes to Be Executed

General Data

Processing: You are the processor of the change request

* Description: New Record: 5 EQs of Process 4121

Priority:

Created On: 17.08.2018 02:35:22

Changed On: 17.08.2018 02:35:26

Finalized On:

Due Date:

Reason:

Created By: SAPBATCH

Changed By: SAPBATCH

Finalized By:

Notes / Attachments

Notes: 0 note(s) exist(s)

Attachments: 0 attachment(s) exist(s)

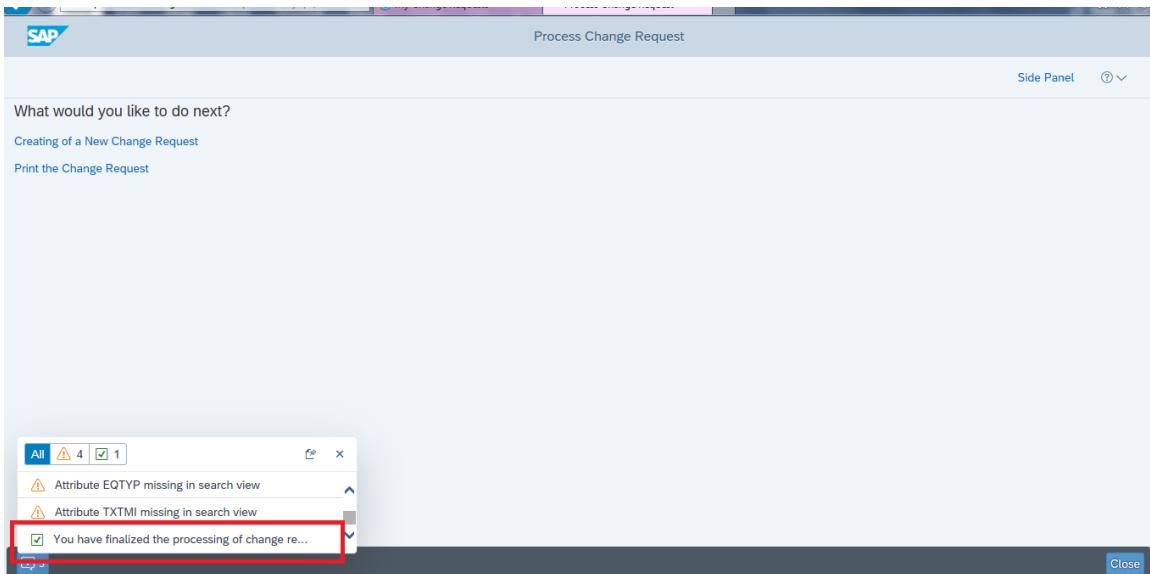
Objects

Entity Type Number

Action Bar

Save **Finalize Processing** Send for Revision Close

Success message appears as "You have finalized the processing of change request XX".



Process Change Request

What would you like to do next?

Creating of a New Change Request

Print the Change Request

Message Dialog

All 4 1

⚠ Attribute EQTYP missing in search view

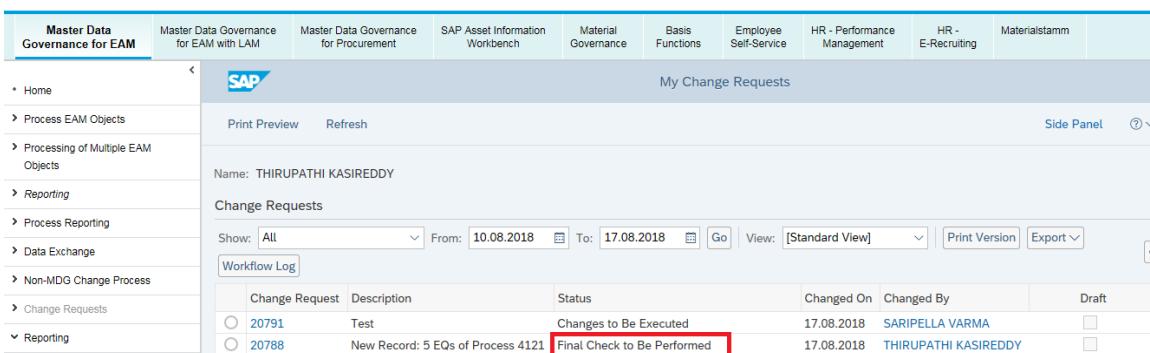
⚠ Attribute TXTMI missing in search view

You have finalized the processing of change re...

Action Bar

Close

19. Once finalized, the status of the Change Request is changed as "Final check to be performed".



Master Data Governance for EAM

Master Data Governance for EAM with LAM Master Data Governance for Procurement SAP Asset Information Workbench Material Governance Basis Functions Employee Self-Service HR - Performance Management HR - E-Recruiting Materialstamm

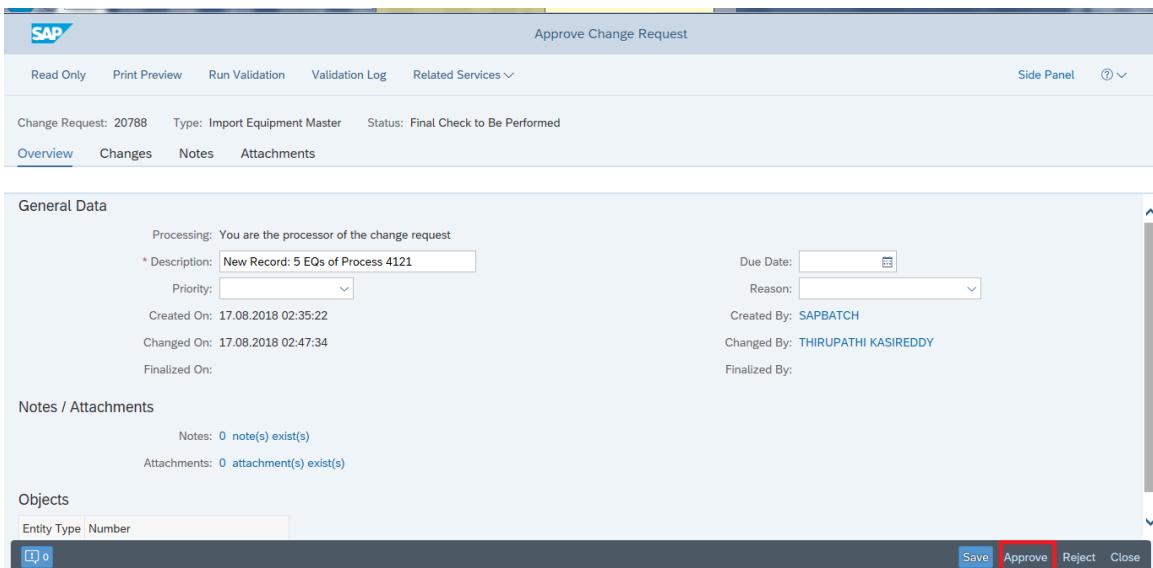
My Change Requests

Name: THIRUPATHI KASIREDDY

Change Requests

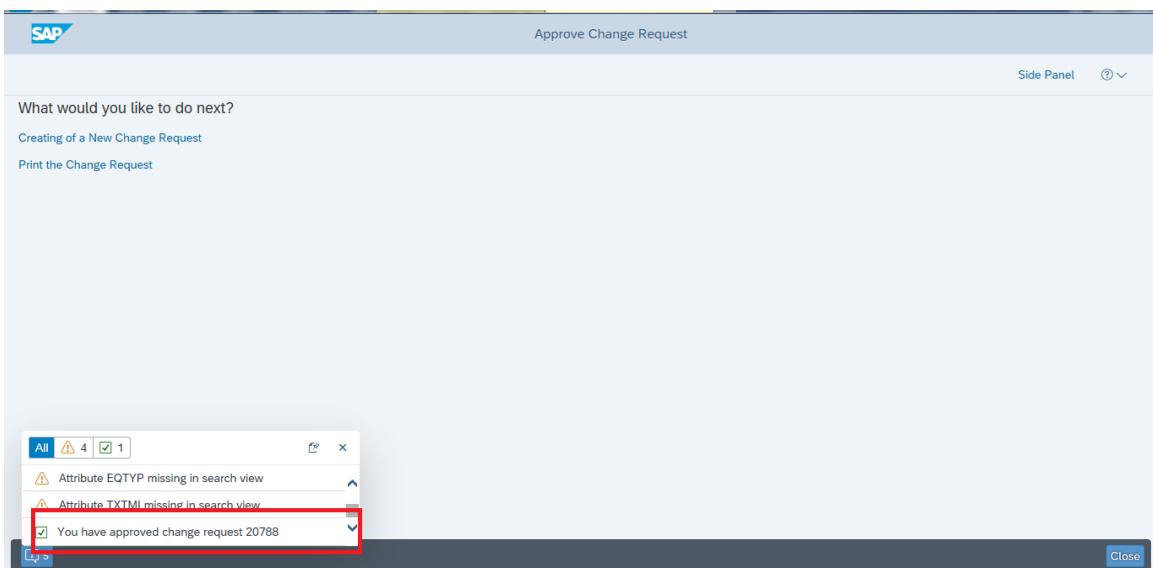
Show:	From:	To:	View:	Print Version	Export
All	10.08.2018	17.08.2018	[Standard View]		
Workflow Log					
Change Request	Description	Status	Changed On	Changed By	Draft
20791	Test	Changes to Be Executed	17.08.2018	SARIPELLA VARMA	<input type="checkbox"/>
20788	New Record: 5 EQs of Process 4121	Final Check to Be Performed	17.08.2018	THIRUPATHI KASIREDDY	<input type="checkbox"/>

20. Click on the "Approve" button.



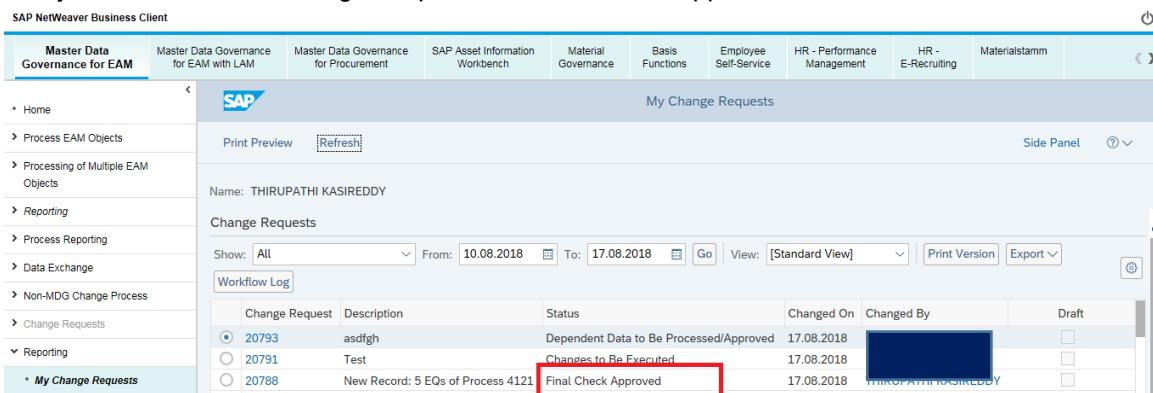
The screenshot shows the SAP Fiori interface for approving a change request. The top navigation bar includes 'Approve Change Request', 'Read Only', 'Print Preview', 'Run Validation', 'Validation Log', 'Related Services', 'Side Panel', and help icons. Below the header, it displays 'Change Request: 20788', 'Type: Import Equipment Master', and 'Status: Final Check to Be Performed'. The main content area is divided into sections: 'General Data' (with fields for Description, Due Date, Priority, Reason, Created On, Changed On, Finalized On, and users), 'Notes / Attachments' (showing 0 note(s) and 0 attachment(s)), and 'Objects' (Entity Type: Number). At the bottom right 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 the SAP Fiori interface after approval. A toast notification at the bottom left displays the message 'You have approved change request 20788' with a checkmark icon. The rest of the screen shows the 'Approve Change Request' interface with the same layout as the previous screenshot.

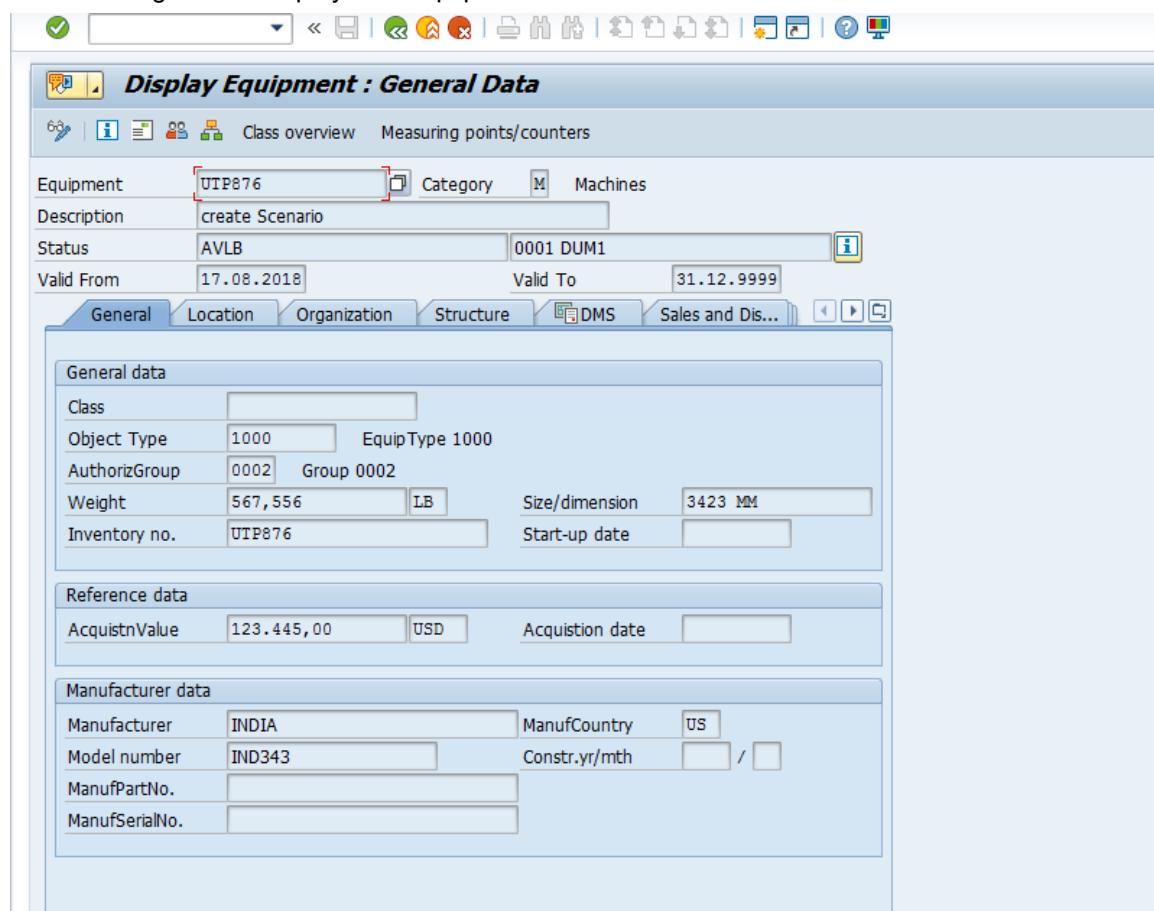
21. Verify the status of the Change Request as “Final Check Approved”.



The screenshot shows the SAP NetWeaver Business Client interface for managing change requests. The left sidebar has a tree view with nodes like 'Home', 'Process EAM Objects', 'Processing of Multiple EAM Objects', 'Reporting', 'Process Reporting', 'Data Exchange', 'Non-MDG Change Process', 'Change Requests', 'Reporting', and 'My Change Requests' (which is selected and highlighted in blue). The main content area shows a table titled 'My Change Requests' with columns: 'Name' (THIRUPATHI KASIREDDY), 'Change Requests', 'Workflow Log', 'Status', 'Changed On', 'Changed By', and 'Draft'. The table lists three change requests: 20793 (Dependent Data to Be Processed/Approved, 17.08.2018, [redacted]), 20791 (Changes to Be Executed, 17.08.2018, [redacted]), and 20788 (New Record: 5 EQs of Process 4121, Final Check Approved, 17.08.2018, THIRUPATHI KASIREDDY). The 'Final Check Approved' status for Change Request 20788 is highlighted with a red box.

22. Run t-code “IE03” to view and validate the Equipment data created in backend system under all tabs.

The following screen displays the Equipment basic data.



Display Equipment : General Data

Equipment: UTP876 Category: Machines

Description: create Scenario

Status: AVLB Valid To: 0001 DUM1

Valid From: 17.08.2018 Valid To: 31.12.9999

General

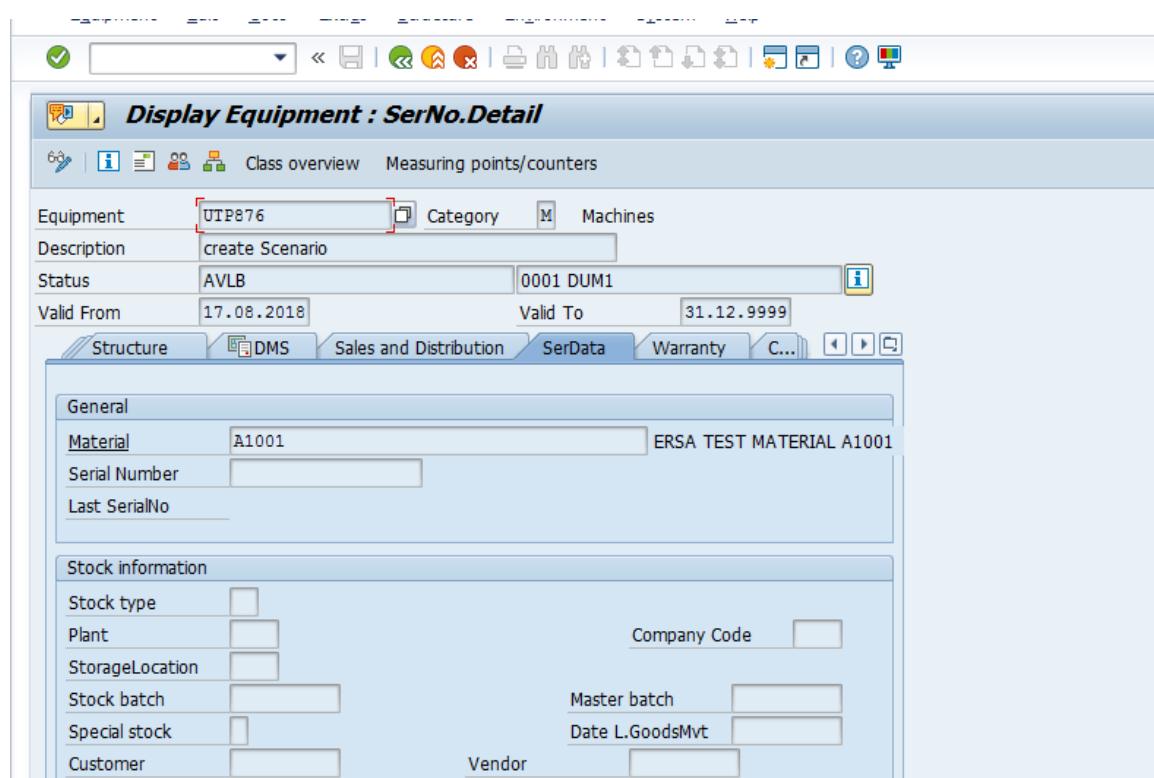
Class:
Object Type: 1000 EquipType 1000
AuthorizGroup: 0002 Group 0002
Weight: 567,556 LB Size/dimension: 3423 MM
Inventory no.: UTP876 Start-up date:

Reference data

AcquistnValue: 123.445,00 USD Acquistion date:

Manufacturer data

Manufacturer: INDIA ManufCountry: US
Model number: IND343 Constr.yr/mth: /
ManufPartNo:
ManufSerialNo:



Display Equipment : SerNo.Detail

Equipment: UTP876 Category: Machines

Description: create Scenario

Status: AVLB Valid To: 0001 DUM1

Valid From: 17.08.2018 Valid To: 31.12.9999

SerData

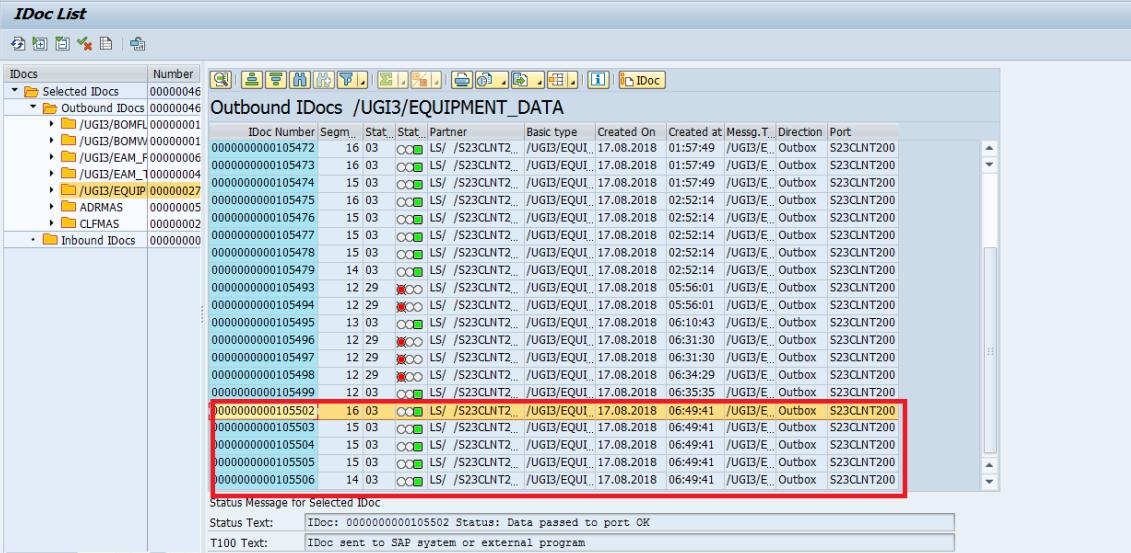
Material: A1001 ERSA TEST MATERIAL A1001
Serial Number:
Last SerialNo:

Stock information

Stock type:
Plant: Company Code:
StorageLocation:
Stock batch: Master batch:
Special stock: Date L.GoodsMvt:
Customer: Vendor:

Once the Change Request is approved, the data is replicated to the connected systems through the Data Replication Framework(DRF) of MDG.

23. Run t-code WE02 to view the IDocs created for the Equipment. The message type for Equipment is /UGI3/EQUIPMENT_DATA.

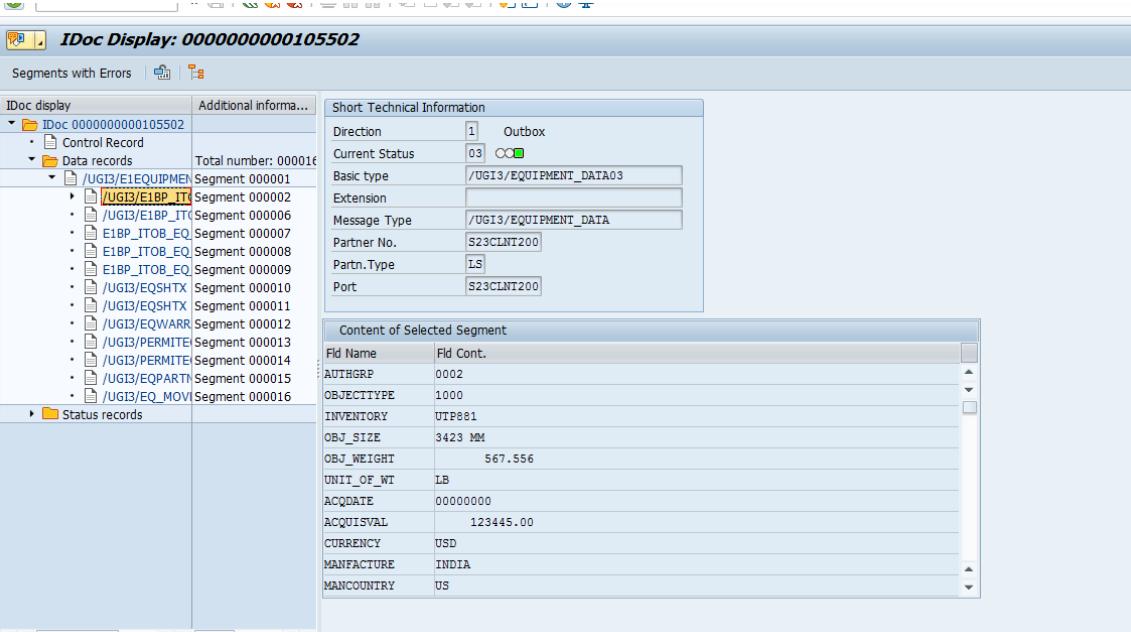


The screenshot shows the SAP WE02 - IDoc List interface. The left pane displays a tree structure with 'Selected IDocs' (number 00000046) expanded, showing 'Outbound IDocs' (number 00000046) which further expands to show several IDoc entries. The right pane is titled 'Outbound IDocs /UGI3/EQUIPMENT_DATA' and lists these IDocs in a table. One specific row, IDoc 000000000105502, is highlighted with a red border. The table columns include IDoc Number, Segm., Stat., Partner, Basic type, Created On, Created at, Messg.T., Direction, and Port. The status bar at the bottom indicates 'Status Message for Selected IDoc' and 'Status Text: IDoc: 000000000105502 Status: Data passed to port OK'.

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



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



The screenshot shows the SAP WE02 - IDoc Display interface for IDoc 000000000105502. The left pane shows the structure of the IDoc, including 'Control Record' and 'Data records' (Total number: 000016). The right pane is divided into two main sections: 'Short Technical Information' and 'Content of Selected Segment'. The 'Short Technical Information' section includes fields like Direction (1 Outbox), Current Status (03 OC), Basic type (/UGI3/EQUIPMENT_DATA03), Extension, Message Type (/UGI3/EQUIPMENT_DATA), Partner No. (S23CLNT200), Partn.Type (LS), and Port (S23CLNT200). The 'Content of Selected Segment' section shows a table with columns 'Fld Name' and 'Fld Cont.' for various equipment parameters like AUTHGRP, OBJECTTYPE, INVENTORY, OBJ_SIZE, OBJ_WEIGHT, UNII_OF_WI, ACQDATE, ACQUISVAL, CURRENCY, MANFACTURE, and MANCOUNTRY. A red box highlights the segment /UGI3/E1BP_IT in the IDoc structure.

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 mass change for equipment using MDC application.

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

Display View "Master Data Consolidation: Configuration of Adapters": O			
BO Type	Step Type	Process Step Adapter	Adapter Description
183	Activation	/UGI/CL_MDC_ADAPTER_EQ_ACT	Activation for EQ
183	Best Record Calculation	/UGI/CL_MDC_ADAPTER_EQ_BRC	Equipment Best Record Calculation
183	Edit	CL_MDC_ADAPTER_EDIT	Interactive Mass Processing
183	Filter & Remove	CL_MDC_ADAPTER_FAR	Filter and Remove
183	Matching	/UGI/CL_MDC_ADAPTER_EAM_MTC	EAM Hana Matching
183	Matching	CL_MDC_ADAPTER_FUZZY_MTC	CL_MDC_ADAPTER_FUZZY_MTC
183	Matching	CL_MDC_ADAPTER_MTC	CL_MDC_ADAPTER_MTC
183	Standardization	/UGI/CL_MDC_ADAPTER_EQ_VALMAP	Evaluate value mapping for EQ
183	Standardization	/UGI/CL_MDC_ADAPTER_EQ_KEYMAP	Evaluate Key Mapping for EQ
183	Standardization	CL_MDC_ADAPTER_BRF_STD	BRFplus
183	Validation	/UGI/CL_MDC_ADAPTER_EQ_VAL	EQ Validations (Business Suite)

3. Run t-code MDCIMG. Navigate through the customizing path: Master Data Governance, Consolidation and Mass Processing> Configure Process Template > Specify Process Template.
4. Use the following steps to create the process template for the mass change:
 - Click on New Entries
 - Provide the name of the template.
 - Provide the description for the template.
 - Assign the BO type as “183”.
 - 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 following default configuration.

Change View "Process Template": Overview								
BC Set: Change Field Values								
Dialog Structure	Process Template	Proc Tmpl	Description	BO Type	Description	Process Workflow	Name	Process Goal
Process Template	UGIMASEQ	Template Config for EQ Mass update	183	Individual Material	WS54500001	MDC Workflow		Mass Processing

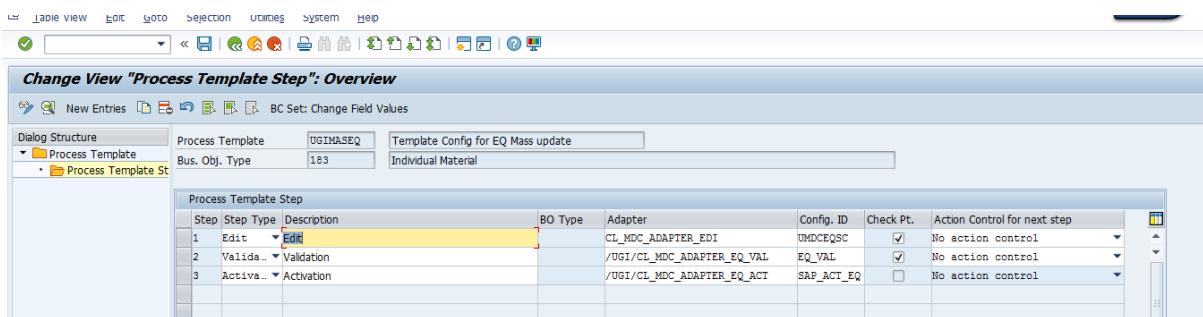
5. Use the following steps to configure the process template steps:
 - Mark the process template and click on the path “Process Template Steps”.
 - Click on “New entries” button.

- Provide the Step Number and Step sequence in order of occurrence of steps.

 Note

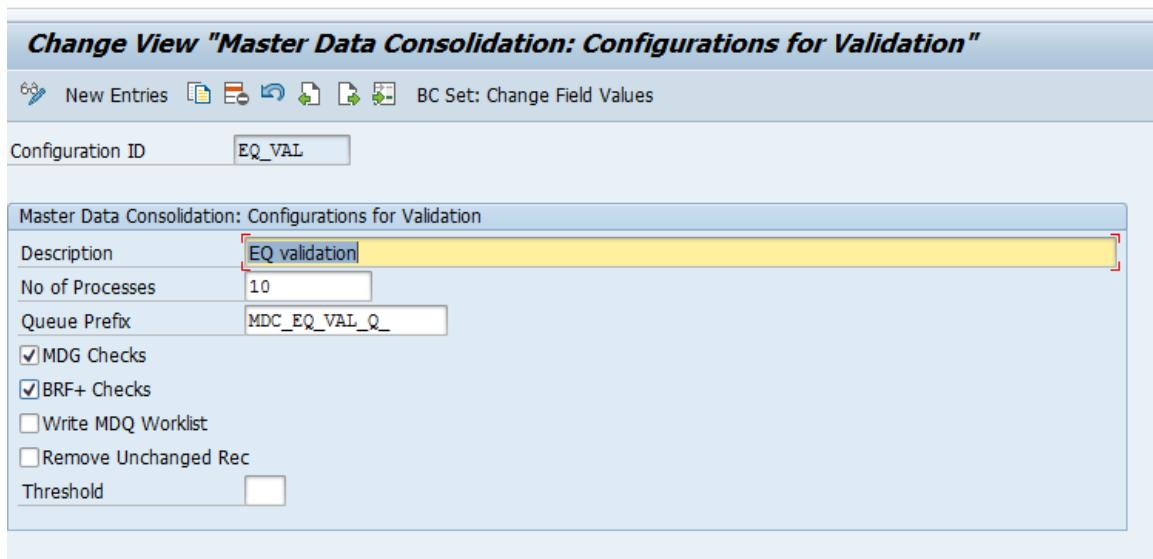
Ensure that the steps are defined in the logically accepted manner. Refer to Configuration Guide on MDC for order details.

- 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.



Step	Step Type	Description	BO Type	Adapter	Config. ID	Check Pt.	Action Control for next step
1	Edit	EQ		CL_MDC_ADAPTER_EDI	UMDCEQSC	<input checked="" type="checkbox"/>	No action control
2	Validation	Validation		/UGI/CL_MDC_ADAPTER_EQ_VAL	EQ_VAL	<input checked="" type="checkbox"/>	No action control
3	Activation	Activation		/UGI/CL_MDC_ADAPTER_EQ_ACT	SAP_ACT_EQ	<input type="checkbox"/>	No action control

The Config ID field as displayed in the above screen is defined in the IMG path. Validation can be configured for MDG checks and BRF+.



Master Data Consolidation: Configurations for Validation	
Description	EQ validation
No of Processes	10
Queue Prefix	MDC_EQ_VAL_Q
<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	

The default configuration is “Direct Activation”. This can be changed to “Activation with change request” with the Change Request EQMAST0B. The value “Max. Rec” can be changed to a value to indicate the number of Equipment objects allowed per Change Request.

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

Change View "Configurations for Activation for EQ": Details

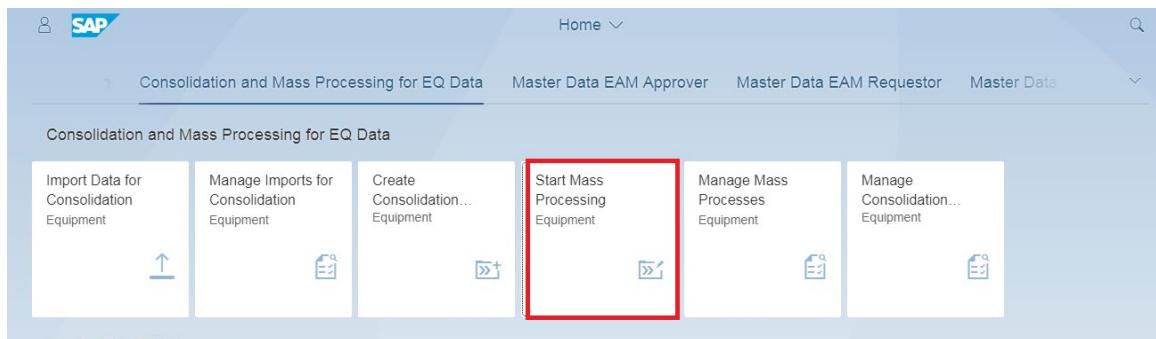
New Entries						
Configuration ID	SAP_ACT_EQ	SAP : EQ Activation				
Configurations for Activation for EQ						
No of Processes	10	Queue Prefix	MDC_EQ_ACT_Q_			
New Records						
Activation Target for New Records	Activation with Change Request		Type of Chg. Request	EQMASTOB	Max. Reco	10
Target for New Incorrect Records			Type of Chg. Request		Max. Reco	
Update Records						
Activation Target for Updated Records	Activation of Best Record with Change Request		Type of Chg. Request	EQMASTOB	Max. Reco	10
Target for New Incorrect Records			Type of Chg. Request		Max. Reco	
Match Group						
Activation Target for Match Groups	Activation of Best Record with Change Request		Type of Chg. Request	EQMASTOB	Max. Reco	10
Target for Incorrect Match Groups			Type of Chg. Request		Max. Reco	10
Replication						
<input checked="" type="checkbox"/> Call DRF after Activation						
Validation						
<input type="checkbox"/> Execute Central Governance Checks (Validation Rules (BRF+) & BAdI Validations)						
<input type="checkbox"/> MDG BRF Checks						

Perform Mass Processing

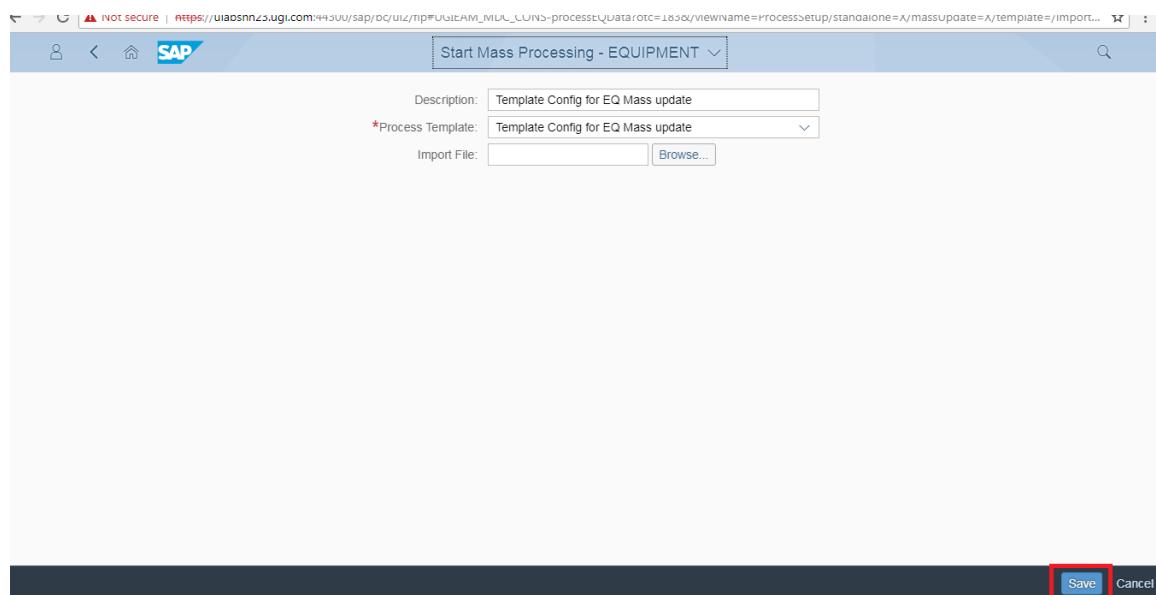
Direct Change

Use the following steps to perform the mass change for equipment using MDC.

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.

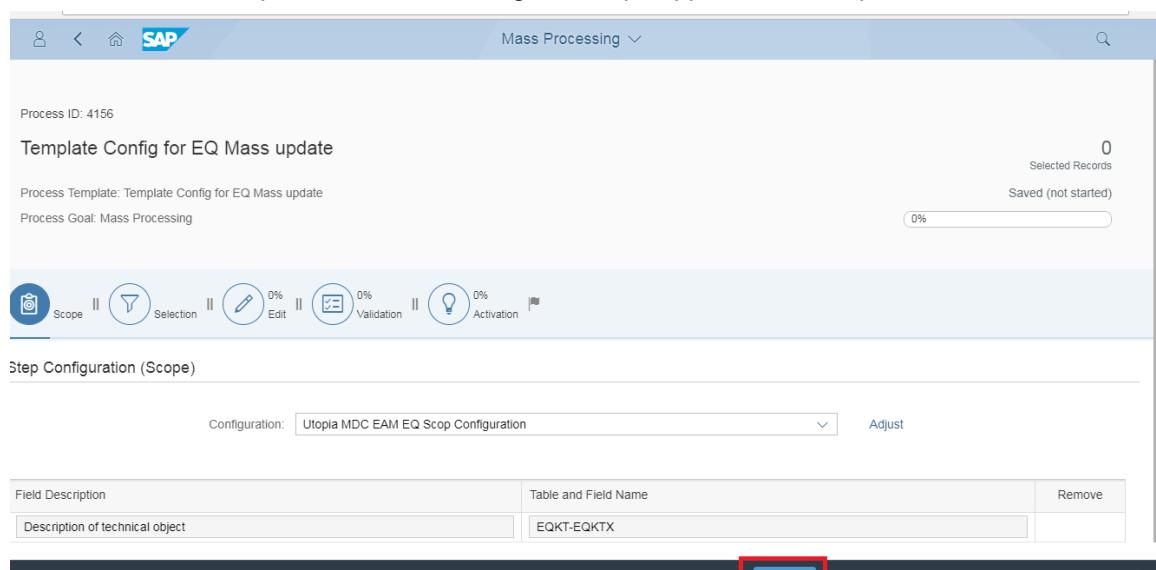


Description:

*Process Template:

Import File:

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



Process ID: 4156

Template Config for EQ Mass update

Process Template: Template Config for EQ Mass update

Process Goal: Mass Processing

0
Selected Records

0%
Saved (not started)

0%

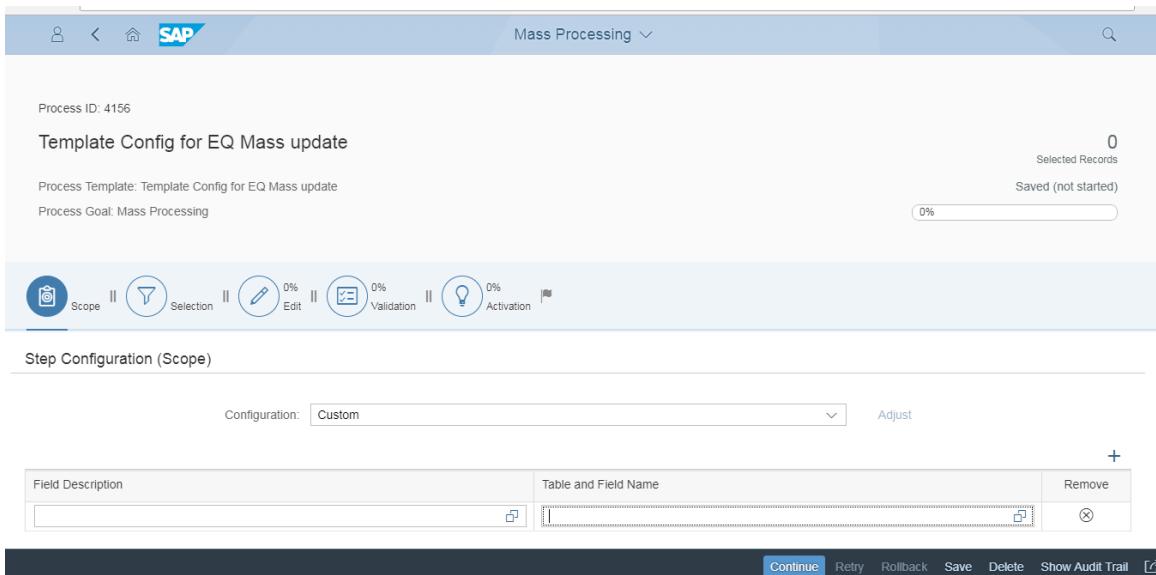
Scope Selection Edit Validation Activation

Step Configuration (Scope)

Configuration:

Field Description	Table and Field Name	Remove
Description of technical object	EQKT-EQKTX	<input type="button" value="Remove"/>

You can also select configuration as Custom and press F4 help.



Process ID: 4156
Template Config for EQ Mass update
 Process Template: Template Config for EQ Mass update
 Process Goal: Mass Processing

0 Selected Records
 Saved (not started) 0%

Scope 0% | Selection 0% | Edit 0% | Validation 0% | Activation 0%

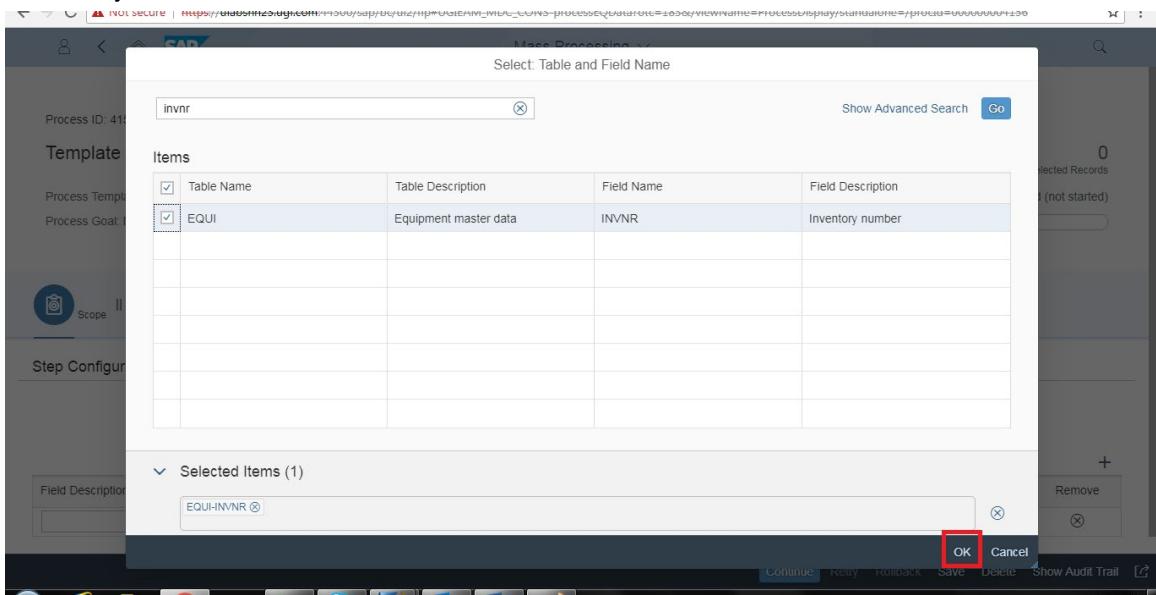
Step Configuration (Scope)

Configuration: Custom | Adjust

Field Description	Table and Field Name	Remove
	INVNR	X

Continue | Retry | Rollback | Save | Delete | Show Audit Trail

5. Select any field and click on “OK” button.



Process ID: 4156
Template Config for EQ Mass update
 Process Goal: Mass Processing

Step Configuration (Scope)

invnr

Select: Table and Field Name

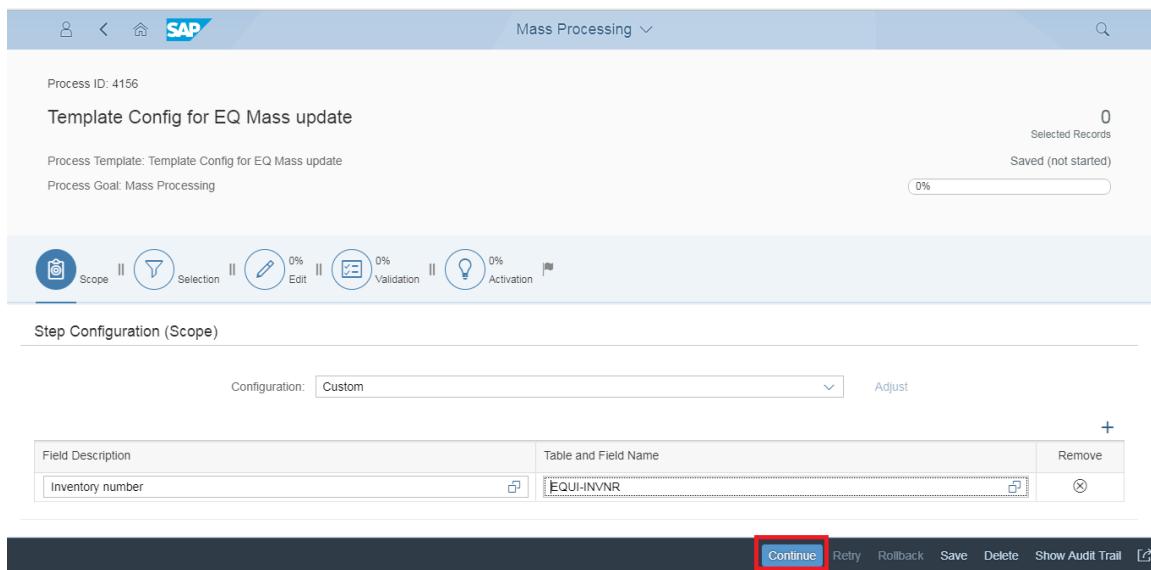
Table Name	Table Description	Field Name	Field Description
EQUI	Equipment master data	INVNR	Inventory number

Selected Items (1)

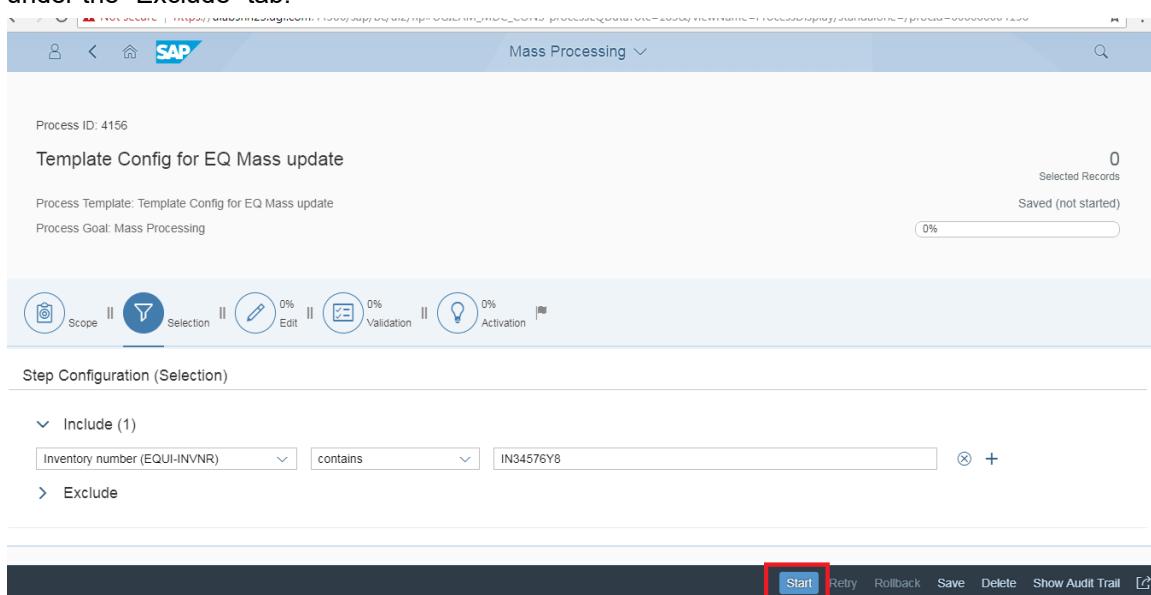
EQUI-INVNR

OK | Cancel

6. Click on “Continue” button.

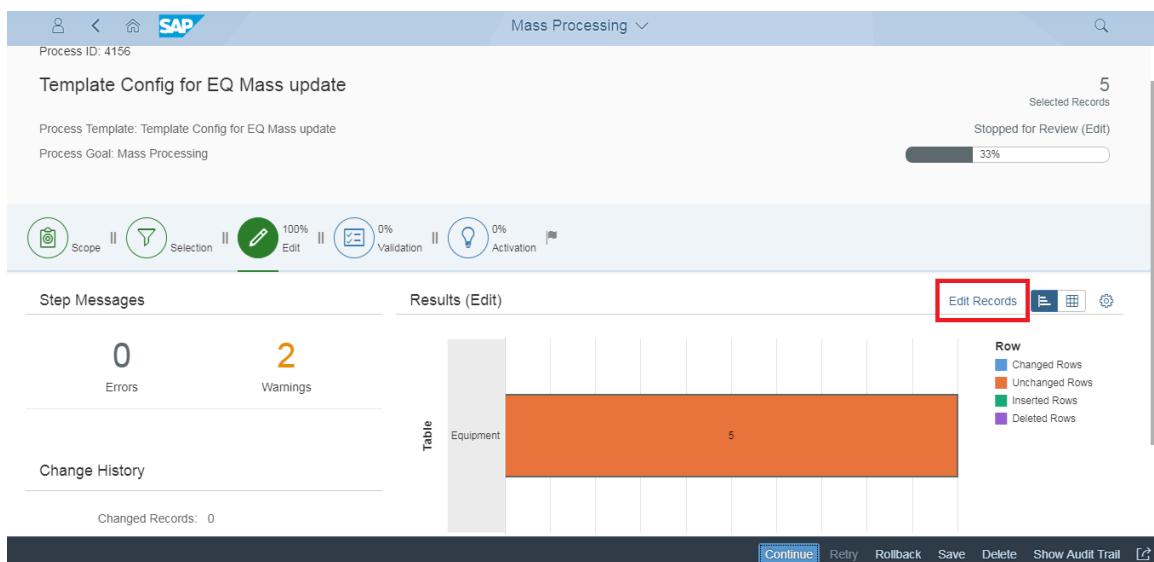


The following screen appears to provide the selection criteria. To perform an inclusive search, provide the selection criteria under the “Include” tab. For Exclusive criteria, provide the criteria under the “Exclude” tab.



A new process ID is created.

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



Template Config for EQ Mass update

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

Scope Selection Edit Validation Activation

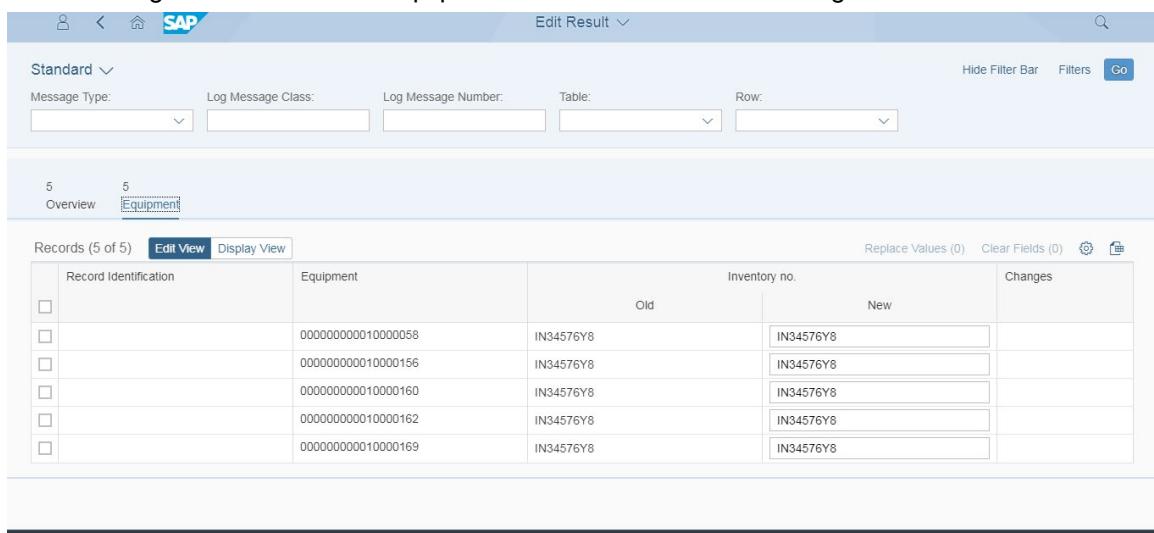
Step Messages: 0 Errors, 2 Warnings

Results (Edit): Equipment (5 rows)

Row Legend: Changed Rows (Blue), Unchanged Rows (Orange), Inserted Rows (Green), Deleted Rows (Purple)

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

The following screen shows the Equipment screens available for changes.



Standard >

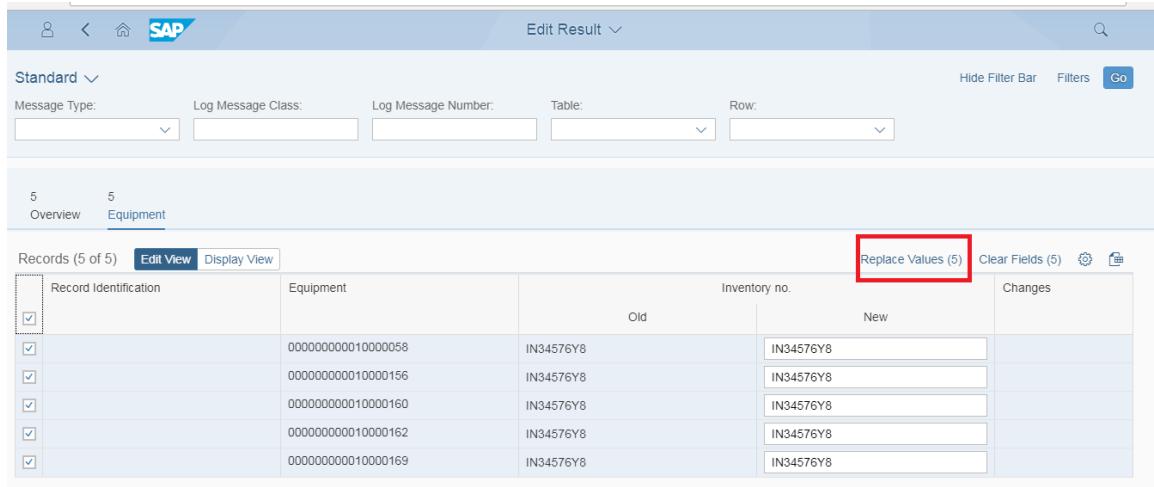
Message Type: Log Message Class: Log Message Number: Table: Row:

5 Overview 5 Equipment

Records (5 of 5) Edit View Display View Replace Values (0) Clear Fields (0)

Record Identification	Equipment	Inventory no.	Changes
	Old	New	
<input type="checkbox"/>	00000000001000058	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input type="checkbox"/>	000000000010000156	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input type="checkbox"/>	000000000010000160	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input type="checkbox"/>	000000000010000162	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input type="checkbox"/>	000000000010000169	IN34576Y8	<input type="text" value="IN34576Y8"/>

- To change the value for field, say Inventory no, 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.



Standard >

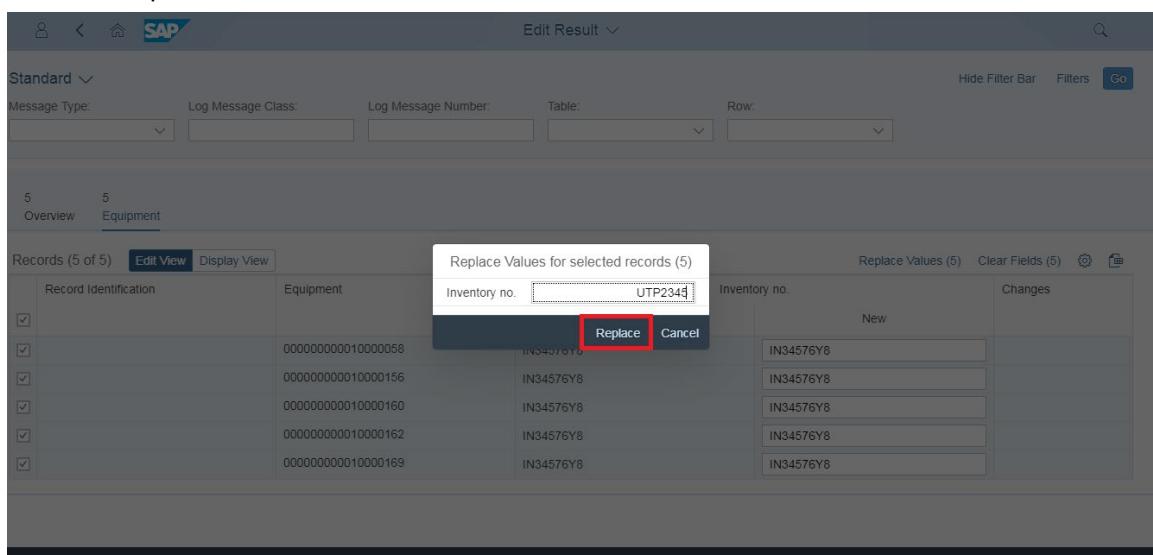
Message Type: Log Message Class: Log Message Number: Table: Row:

5 Overview 5 Equipment

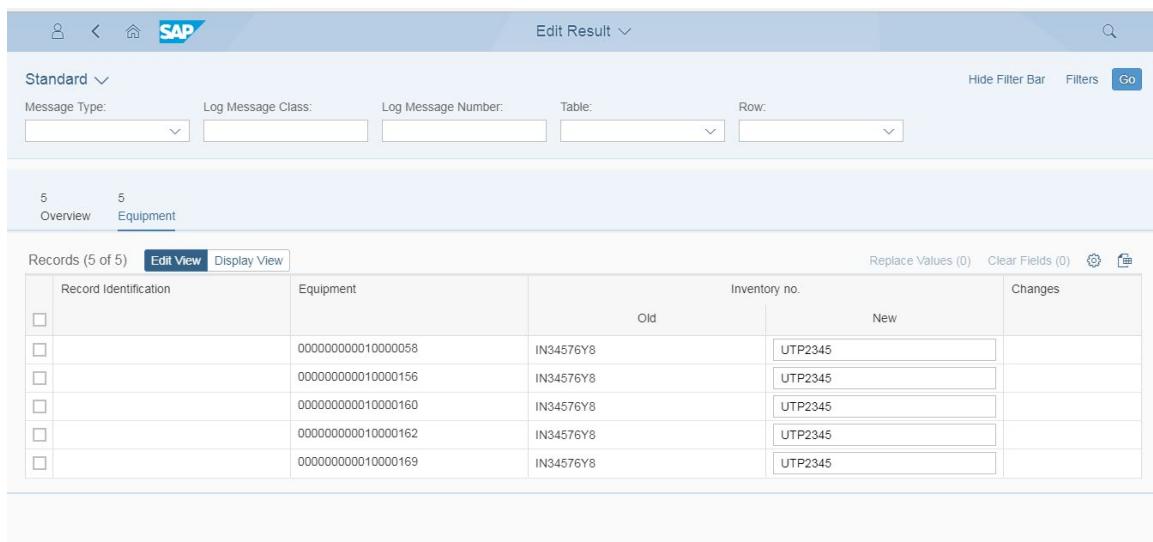
Records (5 of 5) Edit View Display View Replace Values (5) Clear Fields (5)

Record Identification	Equipment	Inventory no.	Changes
	Old	New	
<input checked="" type="checkbox"/>	00000000001000058	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input checked="" type="checkbox"/>	000000000010000156	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input checked="" type="checkbox"/>	000000000010000160	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input checked="" type="checkbox"/>	000000000010000162	IN34576Y8	<input type="text" value="IN34576Y8"/>
<input checked="" type="checkbox"/>	000000000010000169	IN34576Y8	<input type="text" value="IN34576Y8"/>

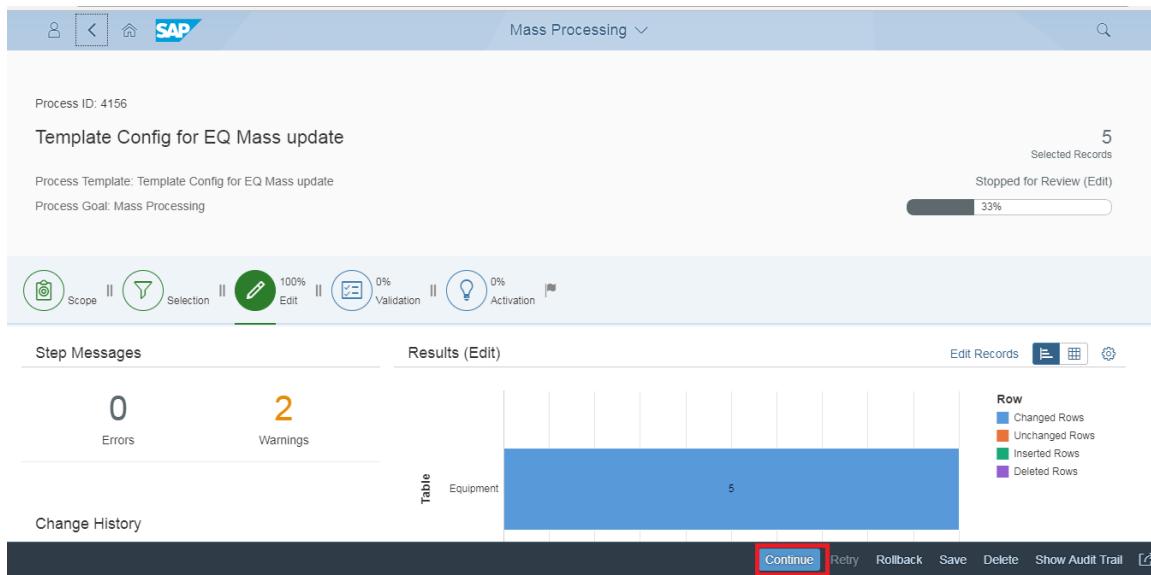
9. Enter the value or choose from the F4 help against the field.
10. Click on “Replace” button once the value has been entered.



You can see the values have been updated on the UI for the “Inventory” field.

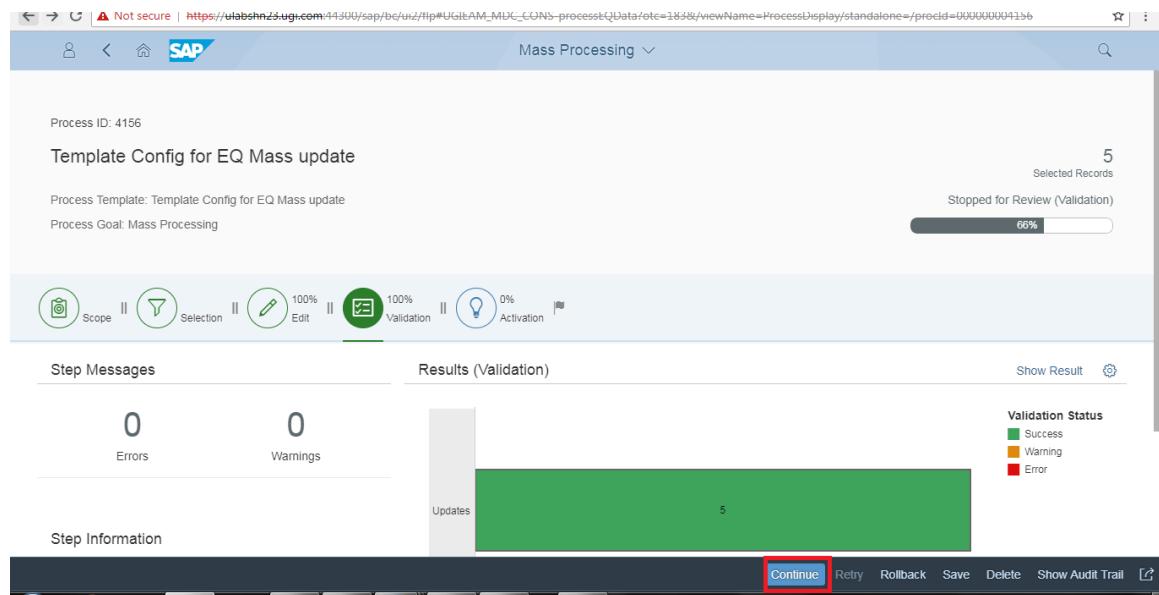


11. Click on back () button to go back to the main screen of process ID. Click on “Continue” button to proceed to the next step i.e. validation.



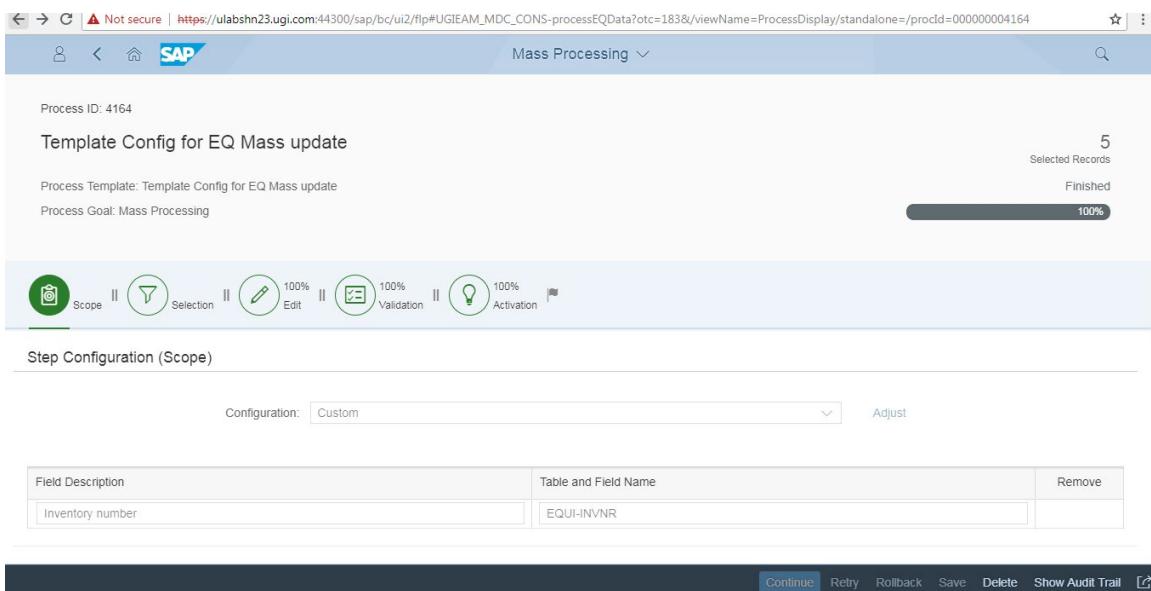
12. You can also configure the MDG BAdI validations and BRFplus checks at this step based on the business requirement.

The records are shown in the graph with different color conventions as shown in the following screen.



In case of erroneous records, navigate to the link “Show Result”. You can review and change the data in corresponding tabs.

13. Click on “Continue” button to proceed to the next step i.e. Activation.
14. Activation of records can be either direct or through Change Request type EQMAST0B.



Process ID: 4164
Template Config for EQ Mass update
 Process Template: Template Config for EQ Mass update
 Process Goal: Mass Processing
 5 Selected Records
 Finished 100%

Step Configuration (Scope)

Configuration: Custom Adjust

Field Description	Table and Field Name	Remove
Inventory number	EQUI-INVNR	

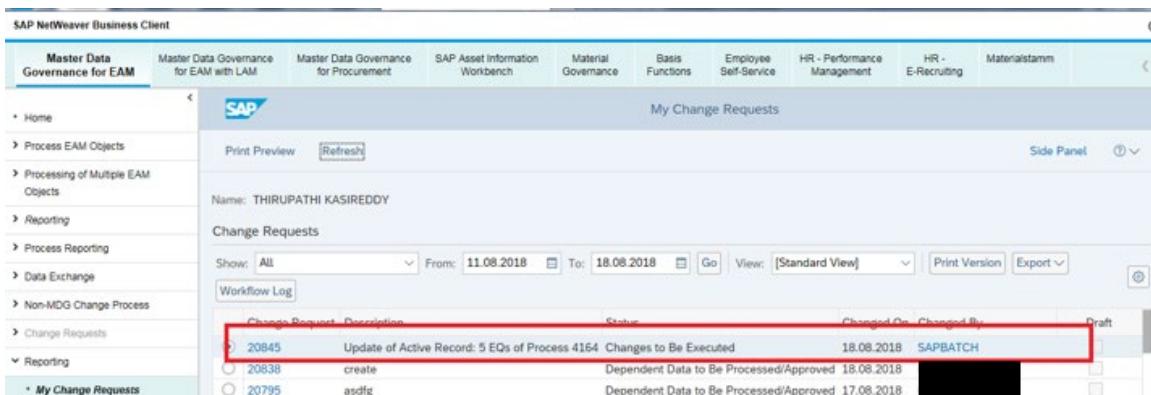
Continue Retry Rollback Save Delete Show Audit Trail

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

i Note

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

15. Launch t-code NWBC. Use the role “/UGI/_MDGEAM_MENU” to navigate to the Change Requests created. The CR of type EQMAST0B is created with user name as SAP_WFRT (background used).
16. To search for the Change Request created, open NWBC then click on Reporting > My change requests.
17. Select show as “ALL”. You can filter Change Requests with changed by as “SAPBATCH”.
18. Click on the Change Request “20845” to open the Change Request.



Master Data Governance for EAM

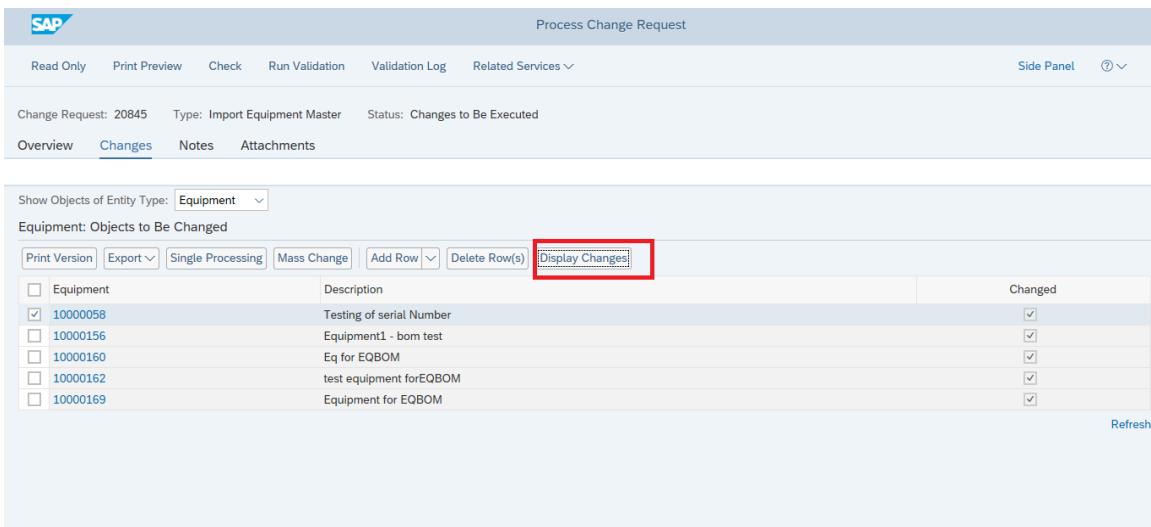
My Change Requests

Name: THIRUPATHI KASIREDDY

Show: All From: 11.08.2018 To: 18.08.2018 Go View: [Standard View] Print Version Export

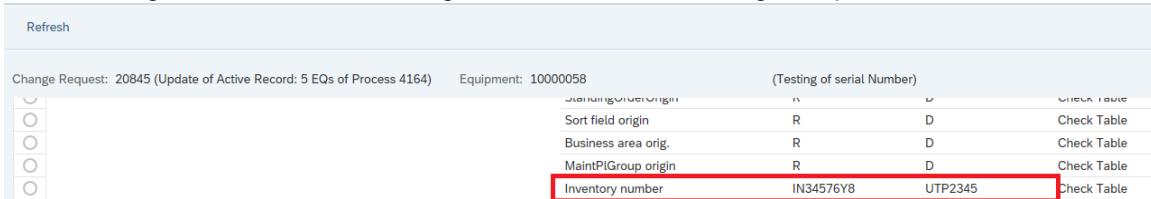
Change Request	Description	Status	Changed On	Changed By	Draft
20845	Update of Active Record: 5 EQs of Process 4164 Changes to Be Executed	Changes to Be Executed	18.08.2018	SAPBATCH	
20838	create	Dependent Data to Be Processed/Approved	18.08.2018		
20795	asdflg	Dependent Data to Be Processed/Approved	17.08.2018		

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



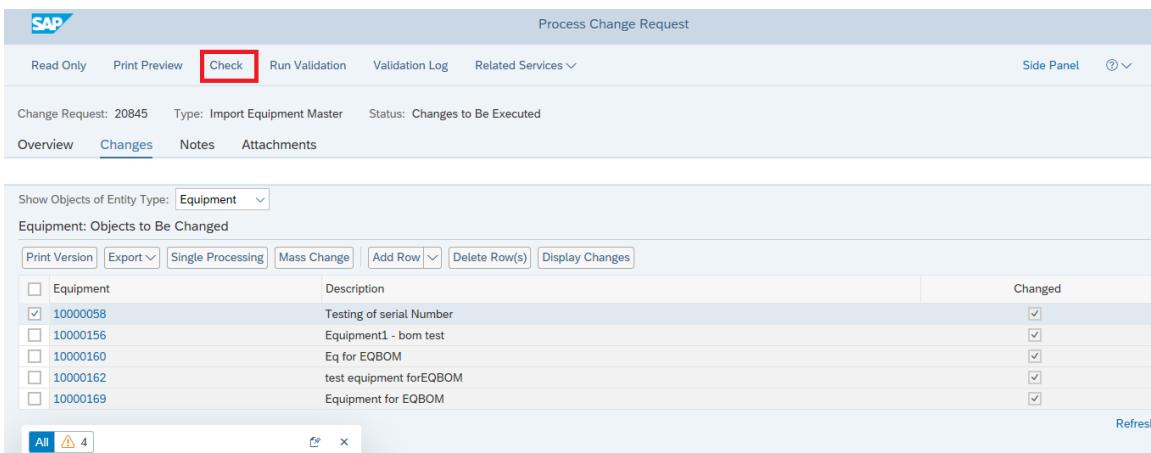
The screenshot shows the SAP Process Change Request interface. At the top, it displays "Process Change Request". Below that, navigation links include "Read Only", "Print Preview", "Check", "Run Validation", "Validation Log", and "Related Services". The status is shown as "Changes to Be Executed". The main content area is titled "Equipment: Objects to Be Changed". It lists several equipment objects with their descriptions and a "Changed" column. A red box highlights the "Display Changes" button in the toolbar above the list.

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



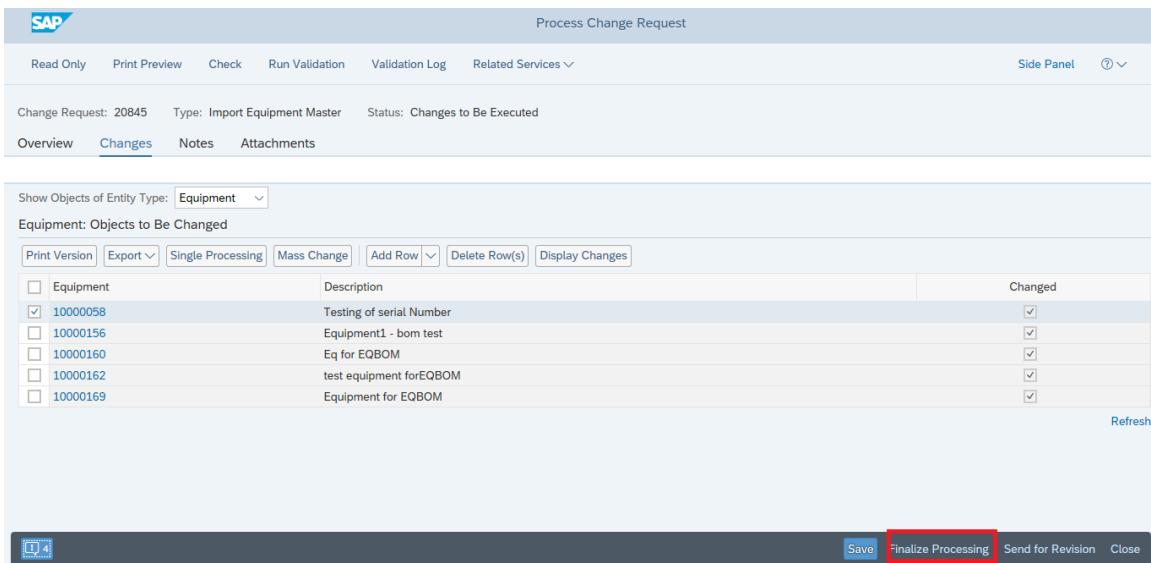
This screenshot shows the detailed view of a change document for equipment 10000058. The document title is "(Testing of serial Number)". It lists several fields with their values and status (R for Read, D for Dirty). A red box highlights the "Inventory number" field, which has the value "IN34576Y8" and is marked as "UTP2345".

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



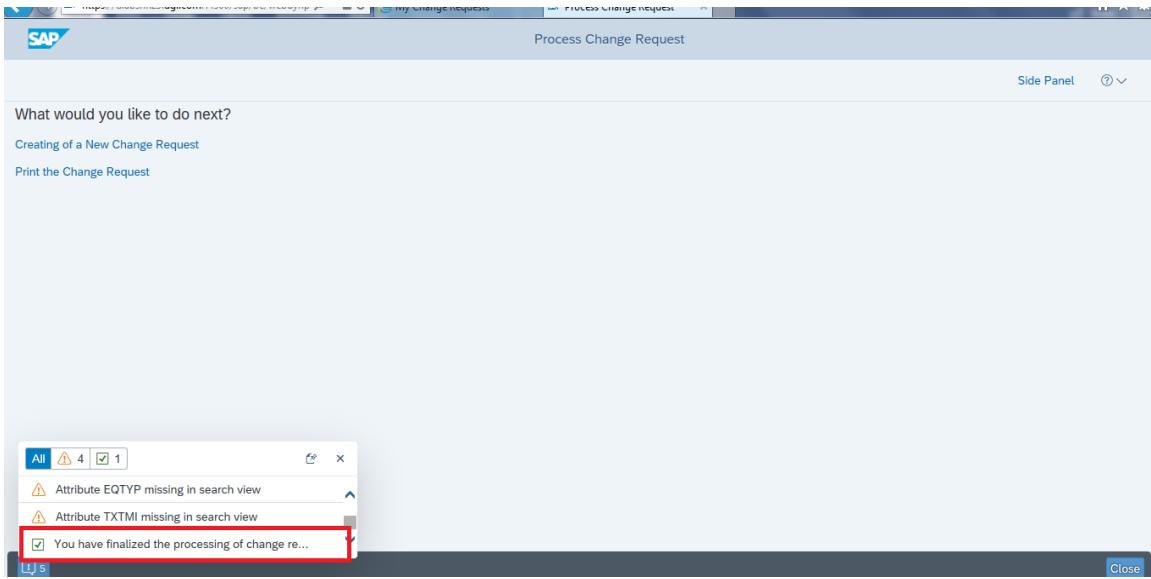
This screenshot shows the same SAP Process Change Request interface as before, but now with the "Check" button highlighted by a red box. The status bar at the bottom indicates "All 4" changes have been checked. The rest of the interface and data list remain the same.

21. Click on “Finalize Processing” button.



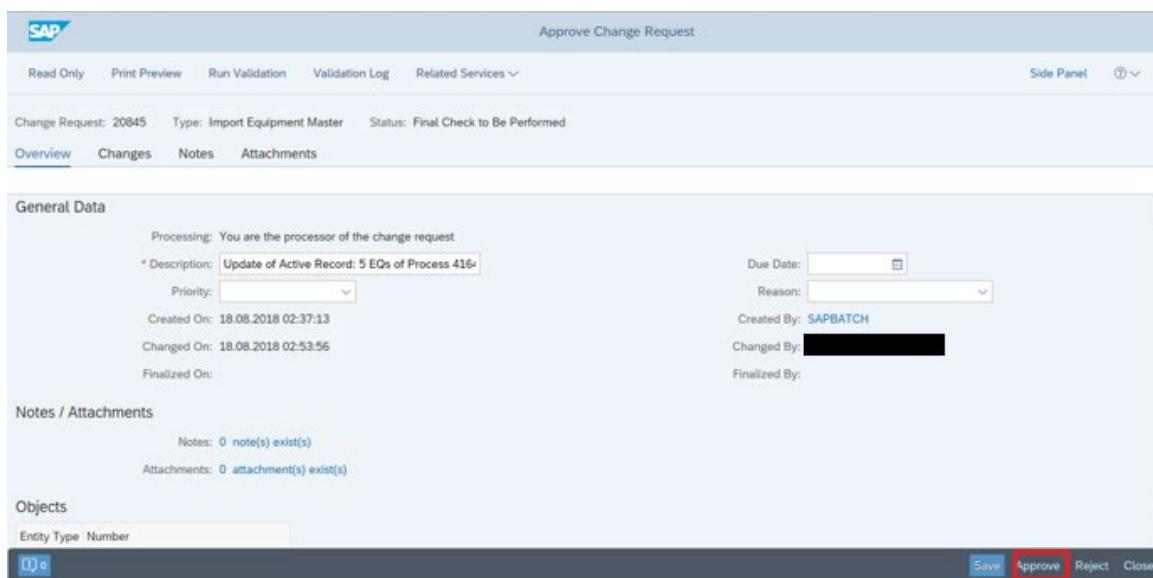
The screenshot shows the SAP Process Change Request interface. At the top, it displays "Process Change Request", "Change Request: 20845", "Type: Import Equipment Master", and "Status: Changes to Be Executed". Below this, there are tabs for "Overview", "Changes" (which is selected), "Notes", and "Attachments". A sub-header "Equipment: Objects to Be Changed" is present, along with a dropdown menu "Show Objects of Entity Type: Equipment". Below this are buttons for "Print Version", "Export", "Single Processing", "Mass Change", "Add Row", "Delete Row(s)", and "Display Changes". The main area lists equipment objects with columns for "Equipment", "Description", and "Changed". The object "10000058" is selected and highlighted. The "Description" column contains details like "Testing of serial Number" and "Equipment1 - born test". The "Changed" column has checkboxes, all of which are checked. A "Refresh" button is located at the bottom right of the list area. At the bottom of the screen, there are buttons for "Save", "Finalize Processing" (which is highlighted with a red box), "Send for Revision", and "Close".

Success message appears as “You have finalized the processing of change request XX”.



The screenshot shows the SAP Process Change Request interface after finalizing the processing. It displays a success message in a notification bar: "You have finalized the processing of change request XX". The message is preceded by a green checkmark icon. Above the message, there are links for "Creating of a New Change Request" and "Print the Change Request". The SAP logo and "Process Change Request" title are visible at the top. A side panel button is also present.

22. Click on the “Approve” button.



Approve Change Request

Change Request: 20845 Type: Import Equipment Master Status: Final Check to Be Performed

General Data

Processing: You are the processor of the change request

* Description: Update of Active Record: 5 EQs of Process 4164

Priority:

Created On: 18.08.2018 02:37:13

Changed On: 18.08.2018 02:53:56

Finalized On:

Due Date:

Reason:

Created By: SAPBATCH

Changed By: [REDACTED]

Finalized By:

Notes / Attachments

Notes: 0 note(s) exist(s)

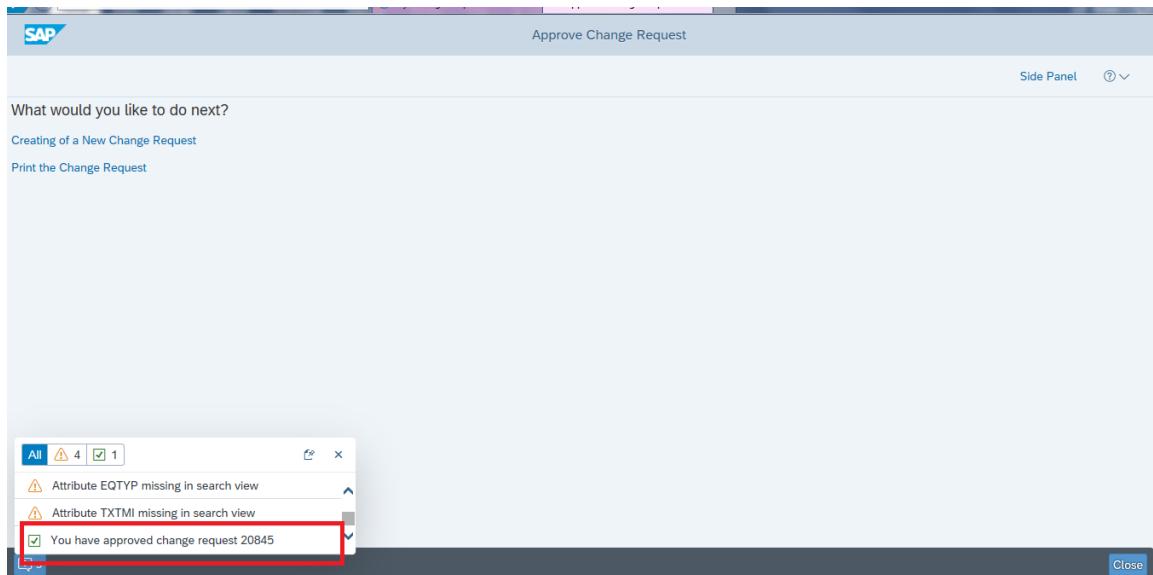
Attachments: 0 attachment(s) exist(s)

Objects

Entity Type: Number

Save Approve Reject Close

The following success message appears as “You have approved the change request XX”.



Approve Change Request

Side Panel ⓘ

What would you like to do next?

Creating of a New Change Request

Print the Change Request

All 4 1

⚠ Attribute EQTYP missing in search view

⚠ Attribute TXTMI missing in search view

You have approved change request 20845

Close

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



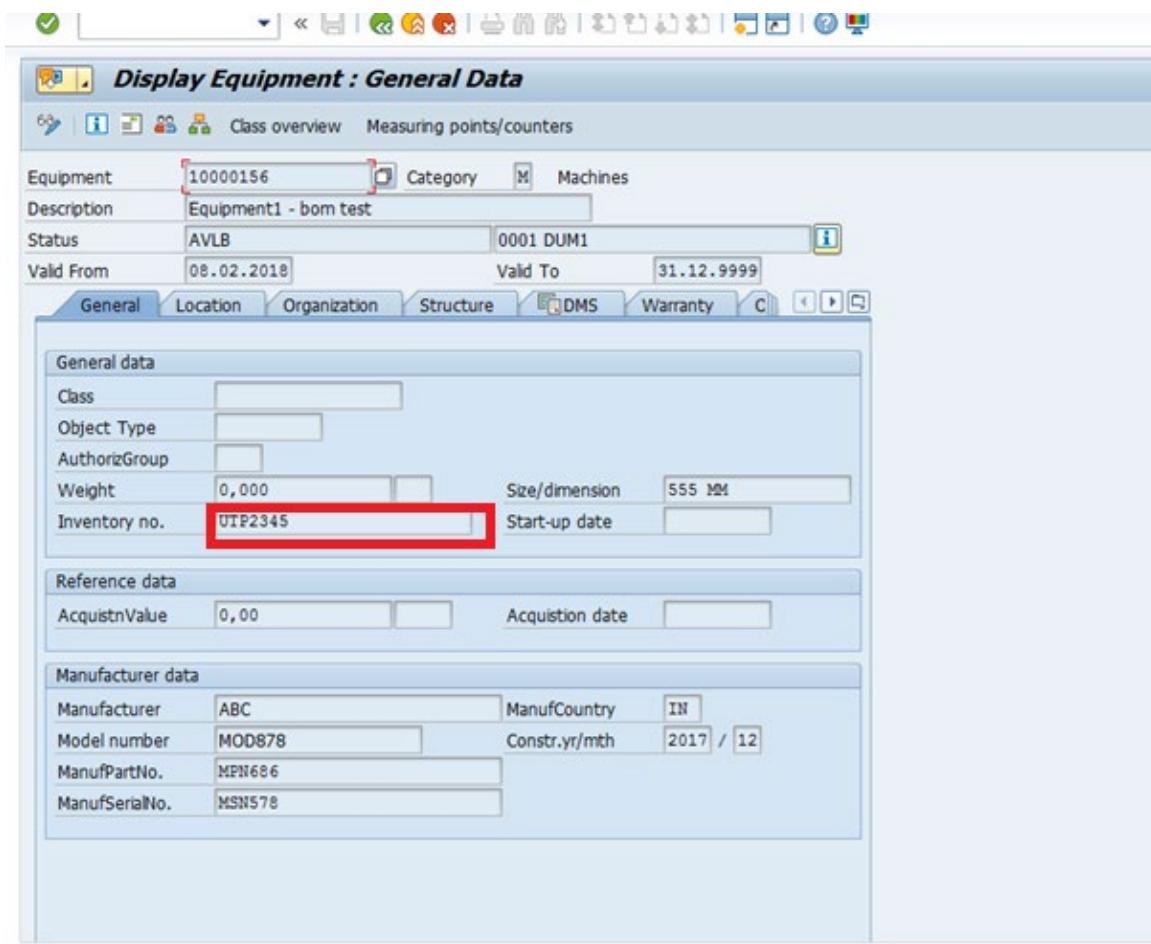
Display Change Requests

Print Preview Refresh New Selection

Change Requests

View: [Standard View]	Description	Status	Changed On	Changed By	Type
20845	Update of Active Record: 5 EQs of Process 4164	Final Check Approved	18.08.2018	[REDACTED]	Import Equipment Master

Inventory number changed as shown in the following screen.

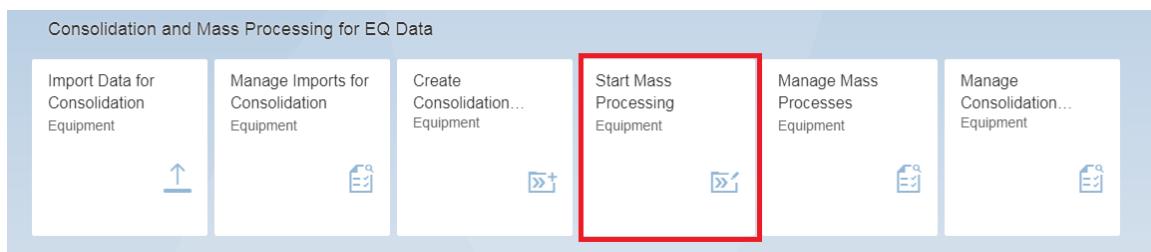


The screenshot shows the 'Display Equipment : General Data' Fiori application. At the top, there are tabs for General, Location, Organization, Structure, DMS, Warranty, and C. The General tab is selected. The equipment number is 10000156, category is Machines, and status is AVLB. The inventory number is UTP2345, which is highlighted with a red box.

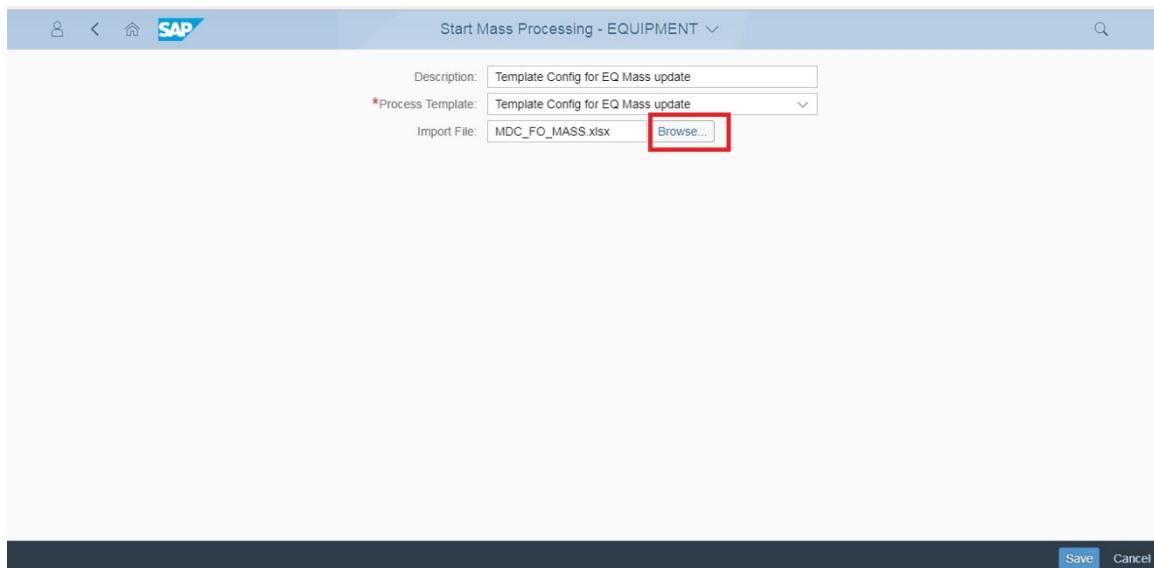
Mass Change Using Excel

You can use the "Manage Mass Processes-183" application to access the process IDs created for Equipment mass processing.

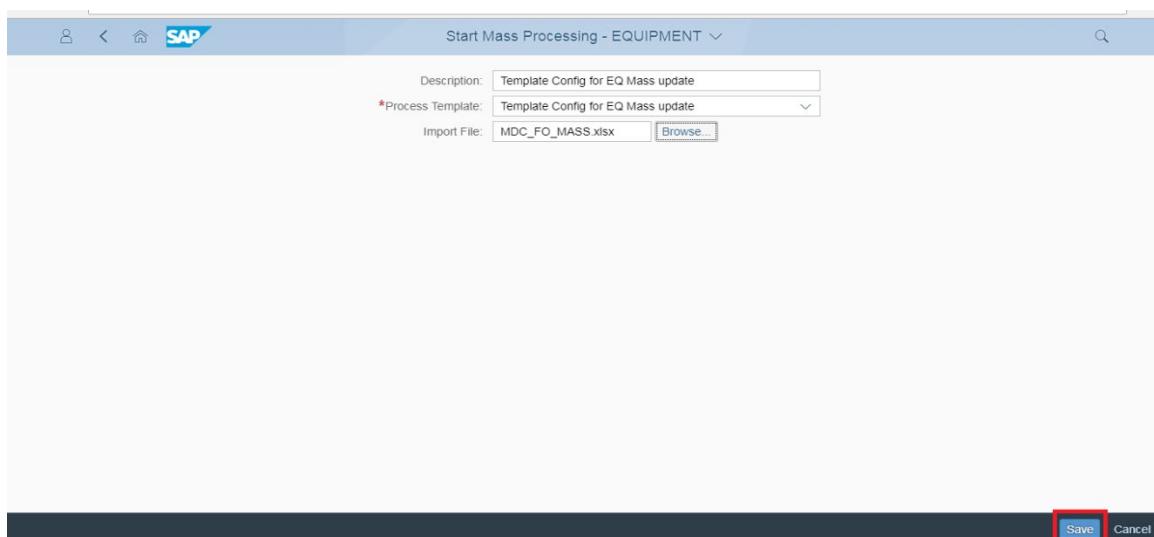
1. Run t-code "/UI2/FLP" and launch the Fiori application "Start Mass Processing".



2. Choose the process template from the drop down.
3. Click on the "Browse" button to select the Excel file for mass change.

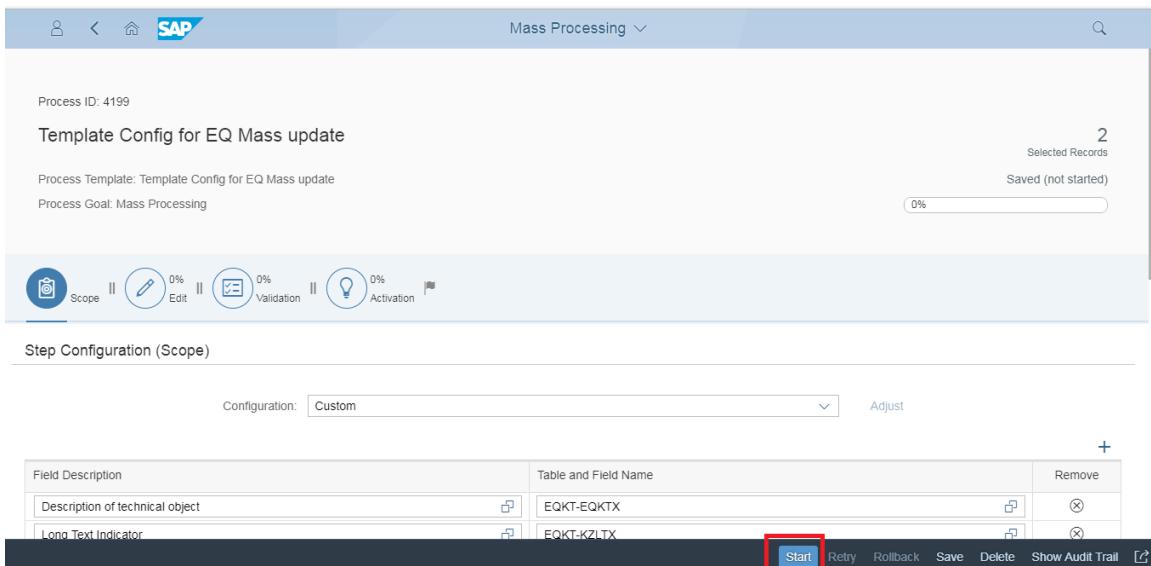


4. Click on “Save” button.



A new process ID is created.

5. Click on “Start” button to initiate the process as shown in the following screen.



Process ID: 4199
Template Config for EQ Mass update
 Process Template: Template Config for EQ Mass update
 Process Goal: Mass Processing
 Selected Records: 2
 Saved (not started)
 0%
 Scope || Edit 0% || Validation 0% || Activation 0%

Step Configuration (Scope)

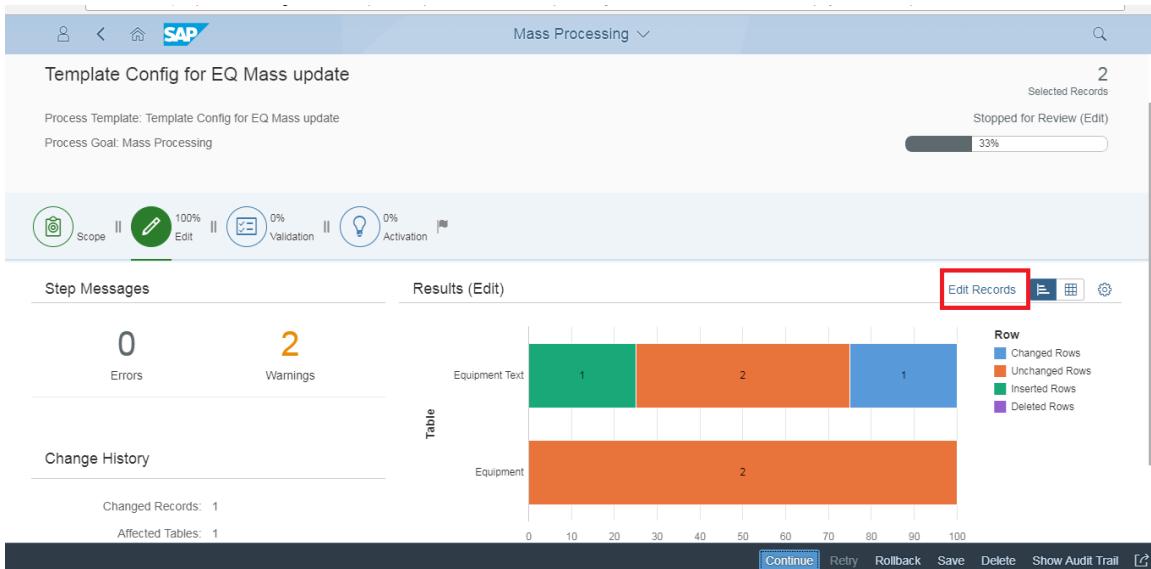
Configuration: Custom Adjust

Field Description	Table and Field Name	Remove
Description of technical object	EQKT-EQKTX	[Delete]
Long Text Indicator	EQKT-KZLTX	[Delete]

Start Retry Rollback Save Delete Show Audit Trail

The graph shows the changed, deleted, inserted, deleted records with different color conventions.

6. You can review and change the erroneous records by clicking on the “Edit Records” link and navigating to the corresponding tab.



Template Config for EQ Mass update
 Process Template: Template Config for EQ Mass update
 Process Goal: Mass Processing
 Selected Records: 2
 Stopped for Review (Edit)
 33%

Scope || Edit 100% || Validation 0% || Activation 0%

Step Messages

0 Errors 2 Warnings

Results (Edit)

Equipment Text

Equipment

Table

Row

- Changed Rows
- Unchanged Rows
- Inserted Rows
- Deleted Rows

Equipment Text: 1 2 1

Equipment: 2

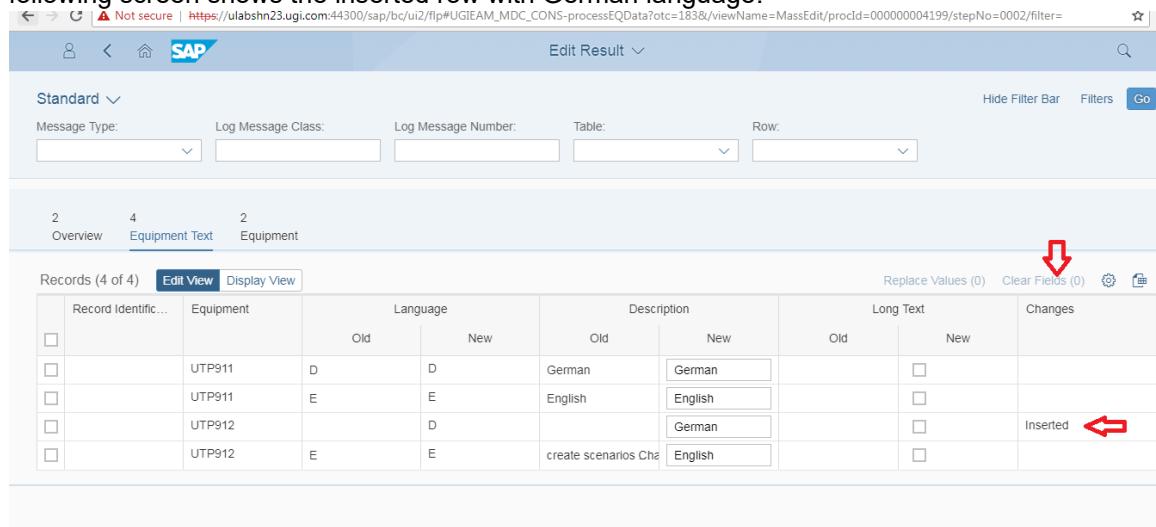
0 10 20 30 40 50 60 70 80 90 100

Edit Records Continue Retry Rollback Save Delete Show Audit Trail

Change History

Changed Records: 1 Affected Tables: 1

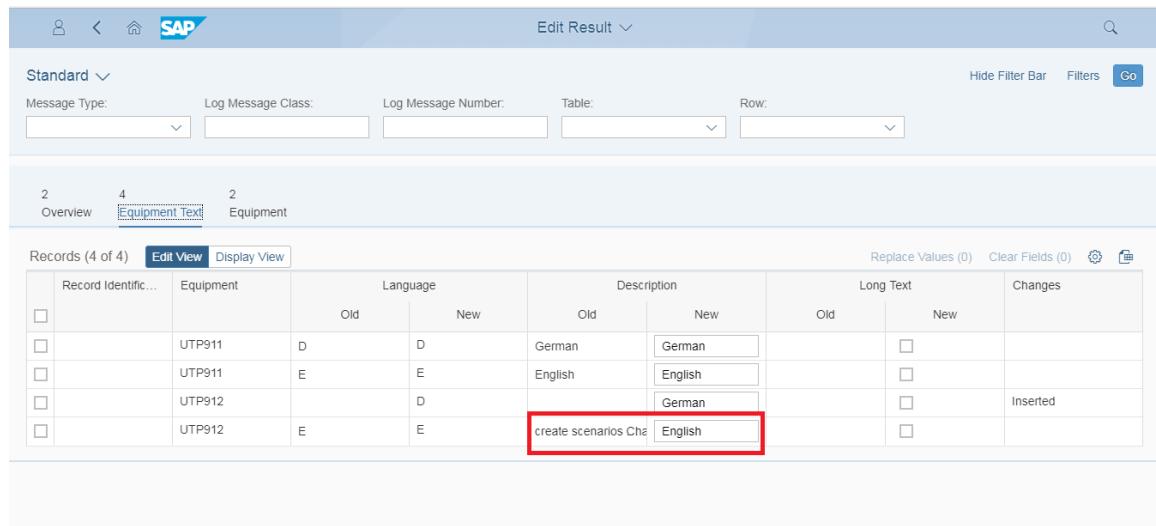
You can view the changes under the “Edit View” column of the “Equipment text” tab. The following screen shows the inserted row with German language.



The screenshot shows the SAP 'Edit Result' interface with the 'Equipment Text' tab selected. The table displays four records. The last record, UTP912, has a status of 'Inserted' in the 'Changes' column, indicated by a red arrow. The table structure includes columns for Record Identifier, Equipment, Language (Old and New), Description (Old and New), Long Text (Old and New), and Changes.

Record Identifier	Equipment	Language		Description		Long Text		Changes
		Old	New	Old	New	Old	New	
UTP911	D	D	German	German		<input type="checkbox"/>		
UTP911	E	E	English	English		<input type="checkbox"/>		
UTP912		D	German	German		<input type="checkbox"/>		Inserted 
UTP912	E	E	create scenarios Cha	English		<input type="checkbox"/>		

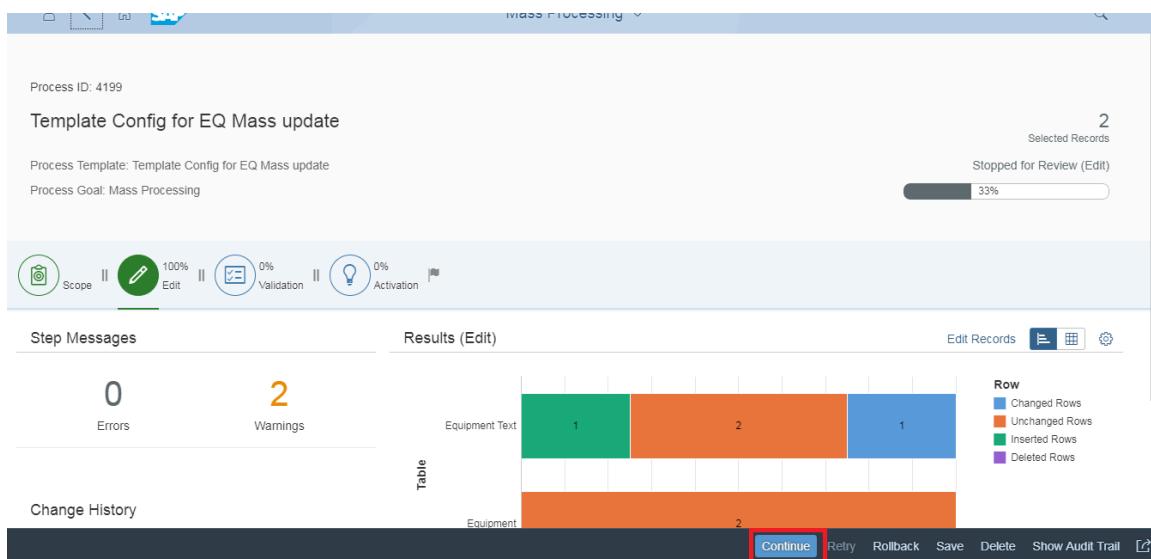
The following screen shows the “Description field” changes. Click on “<” button to go back to the main screen.



The screenshot shows the SAP 'Edit Result' interface with the 'Equipment Text' tab selected. The table displays four records. The last record, UTP912, has a status of 'Inserted' in the 'Changes' column. A red box highlights the 'create scenarios Cha' entry in the 'Description' column of the last row. The table structure is identical to the previous screenshot.

Record Identifier	Equipment	Language		Description		Long Text		Changes
		Old	New	Old	New	Old	New	
UTP911	D	D	German	German		<input type="checkbox"/>		
UTP911	E	E	English	English		<input type="checkbox"/>		
UTP912		D	German	German		<input type="checkbox"/>		Inserted
UTP912	E	E	create scenarios Cha	English		<input type="checkbox"/>		

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



Process ID: 4199
Template Config for EQ Mass update
 Process Template: Template Config for EQ Mass update
 Process Goal: Mass Processing

Scope || Edit 100% || Validation 0% || Activation 0%

Step Messages
 Errors: 0 Warnings: 2

Results (Edit)

Equipment Text	1	2	1
Equipment		2	

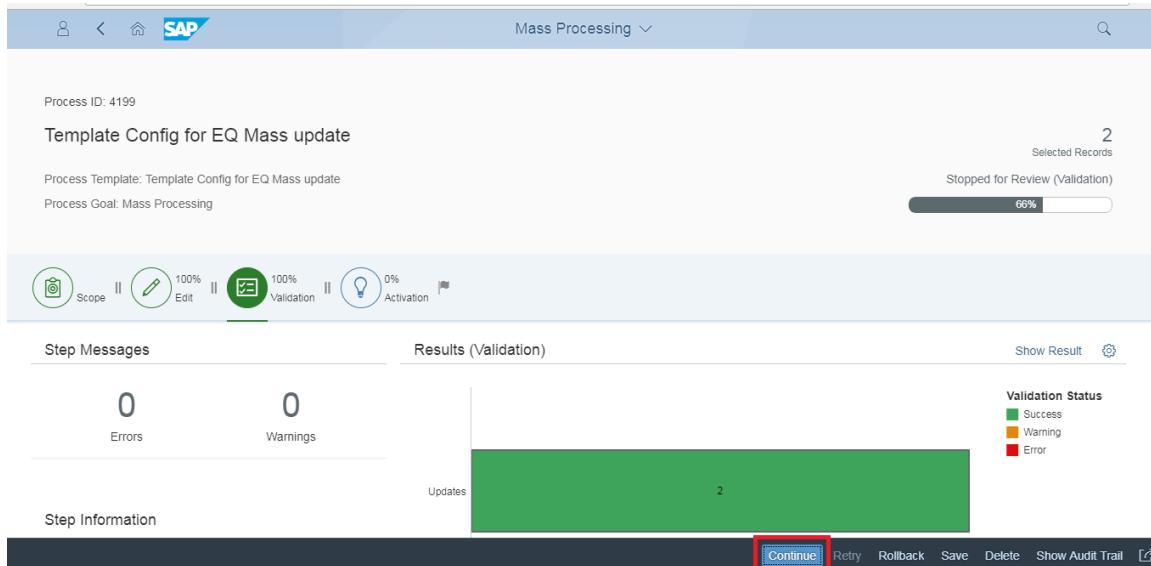
Change History

Row
 Changed Rows (Blue)
 Unchanged Rows (Orange)
 Inserted Rows (Green)
 Deleted Rows (Purple)

Buttons: Continue (highlighted), Retry, Rollback, Save, Delete, Show Audit Trail, Log

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.

8. You can click on the link “Show results” to the review and change the erroneous records.
9. Click on “Continue” button to proceed with the activation step.



Process ID: 4199
Template Config for EQ Mass update
 Process Template: Template Config for EQ Mass update
 Process Goal: Mass Processing

Scope || Edit 100% || Validation 100% || Activation 0%

Step Messages
 Errors: 0 Warnings: 0

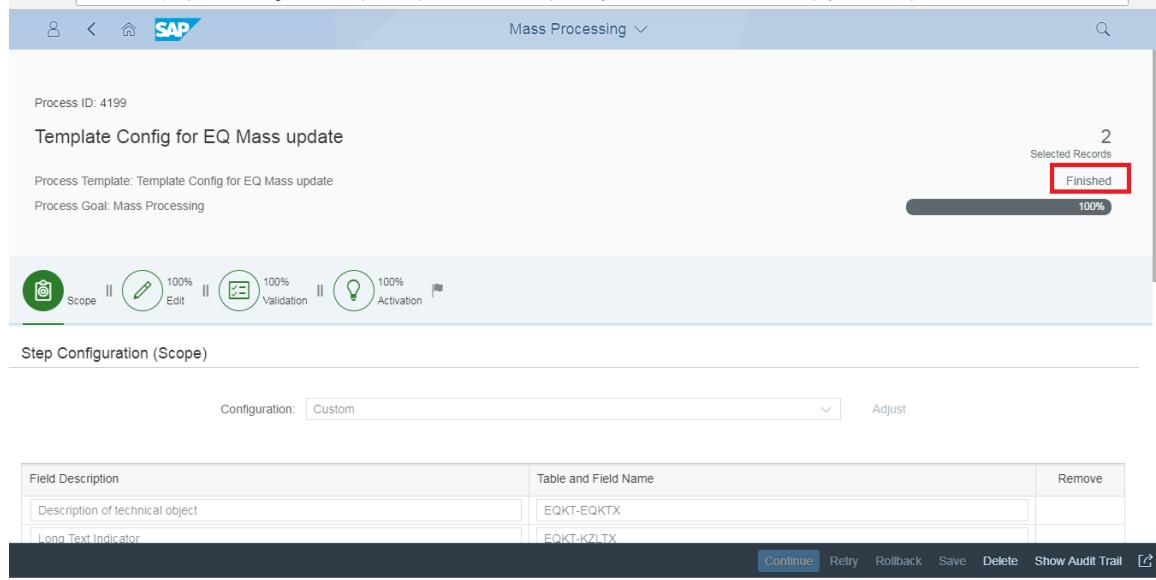
Results (Validation)

Updates	2
Updates	2

Validation Status
 Success (Green)
 Warning (Yellow)
 Error (Red)

Buttons: Continue (highlighted), Retry, Rollback, Save, Delete, Show Audit Trail, Log

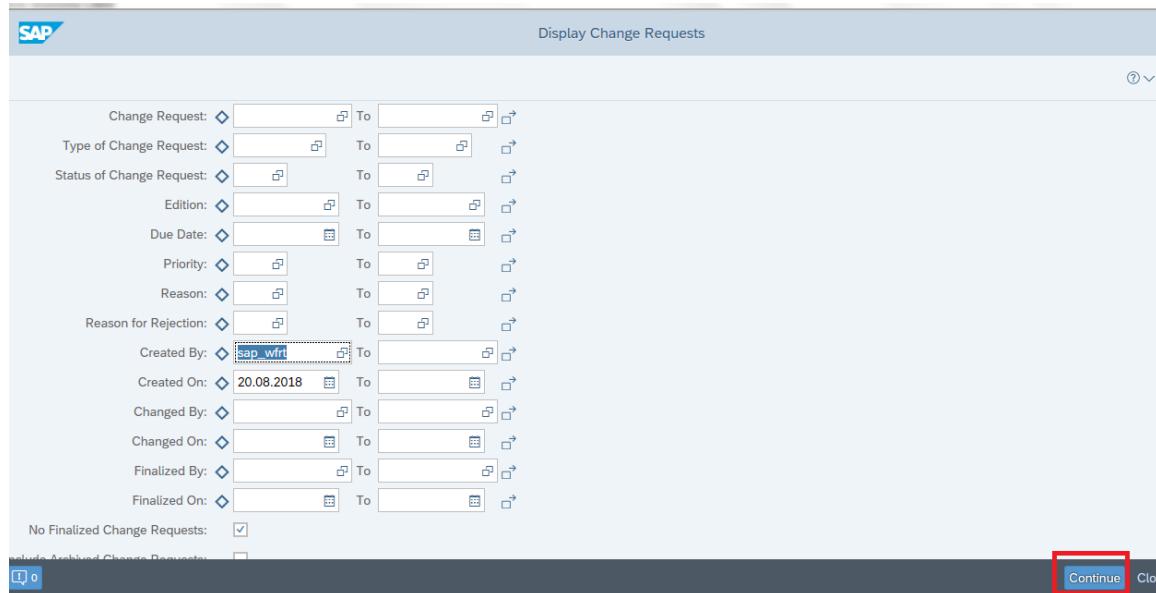
The status of the process Id changed to “Finished”.



This screenshot shows the SAP Mass Processing interface. At the top, it displays "Process ID: 4199" and "Template Config for EQ Mass update". Below this, there are status indicators for "Scope", "Edit", "Validation", and "Activation", all at 100%. On the right, a progress bar shows "2 Selected Records" and "100%". A red box highlights the "Finished" status in the progress bar area. The bottom section shows a table with field descriptions and table names, and a footer with buttons for "Continue", "Retry", "Rollback", "Save", "Delete", "Show Audit Trail", and a help icon.

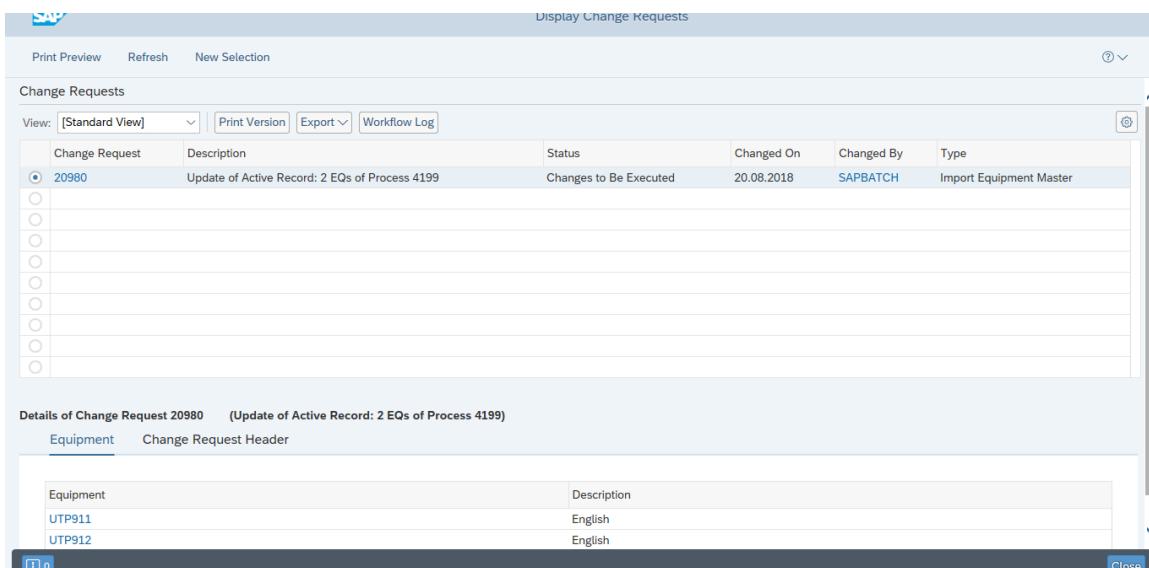
Field Description	Table and Field Name	Remove
Description of technical object	EQKT-EQKTX	
Long Text Indicator	EQKT-KZLTX	

10. Run t-code NWBC. Use the role Use the role /UGI/_MDGEAM_MENU to navigate to the Change Requests created. The CR of type EQMAST0B is created with user name as SAP_WFRT (background used).
11. 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.
12. Click on “Continue” button.

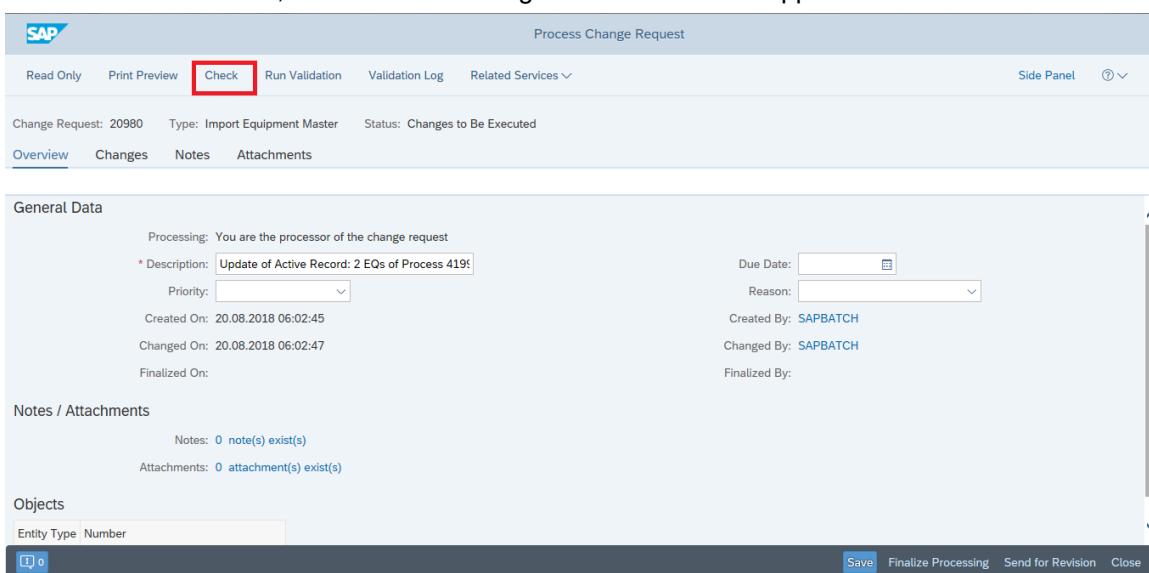
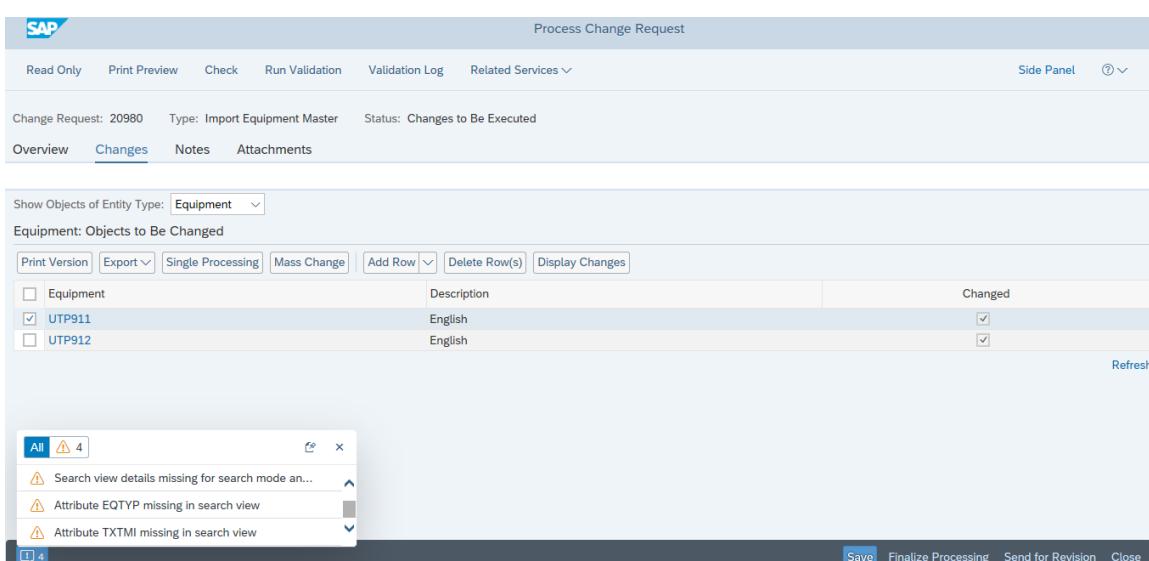


This screenshot shows the SAP Display Change Requests screen. It features a grid of search fields for various change request attributes like "Change Request", "Type of Change Request", "Status of Change Request", etc., each with a "To" button to the right. Below the grid, there are additional fields for "Edition", "Due Date", "Priority", "Reason", "Reason for Rejection", and "Created By" (with "sap_wfrt" entered). Further down are fields for "Created On" (set to "20.08.2018"), "Changed By", "Changed On", "Finalized By", and "Finalized On". At the bottom left is a checkbox for "No Finalized Change Requests". The bottom right features a "Continue" button with a red box around it, and other buttons for "Close" and "Help".

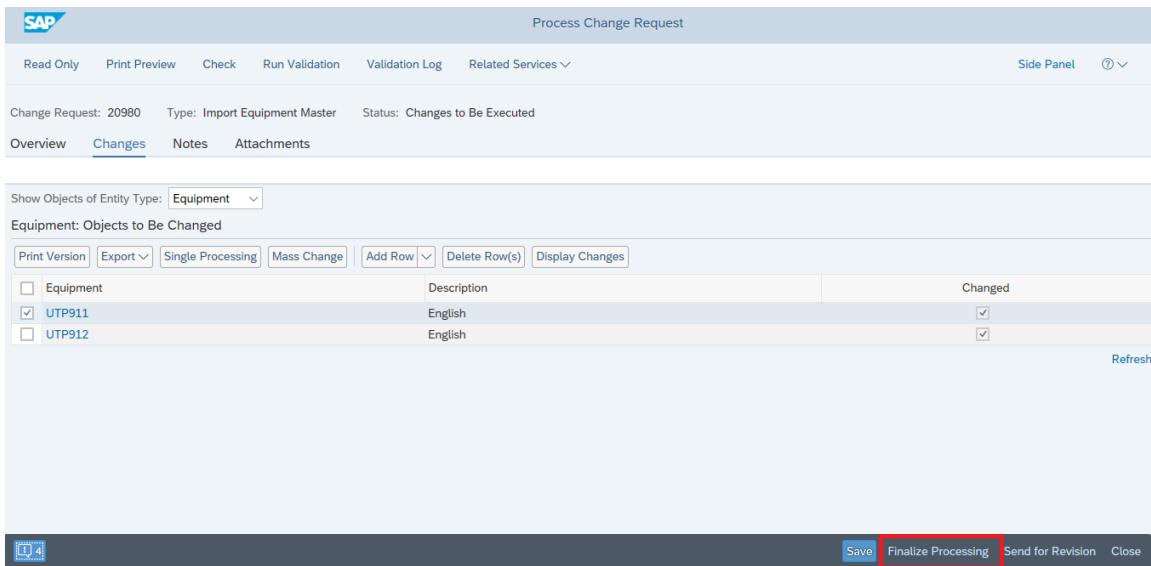
13. Double-Click on the Change Request “20980” to open the Change Request.



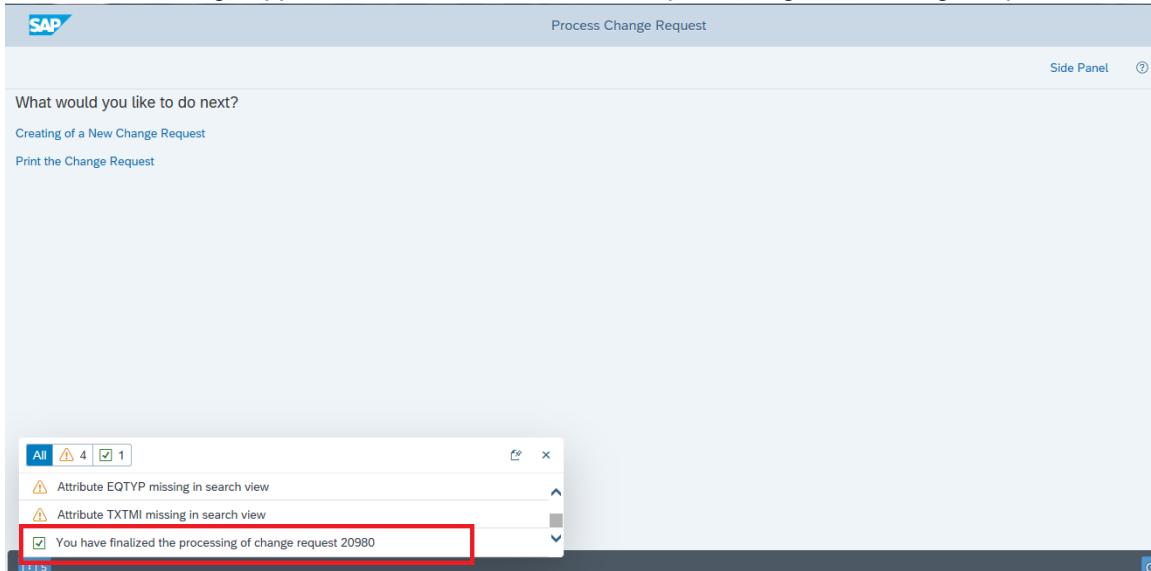
14. Open the Change Request created, click on “Check” button to perform validation.
15. In case no errors found, the success message “No errors found “appears on the screen.

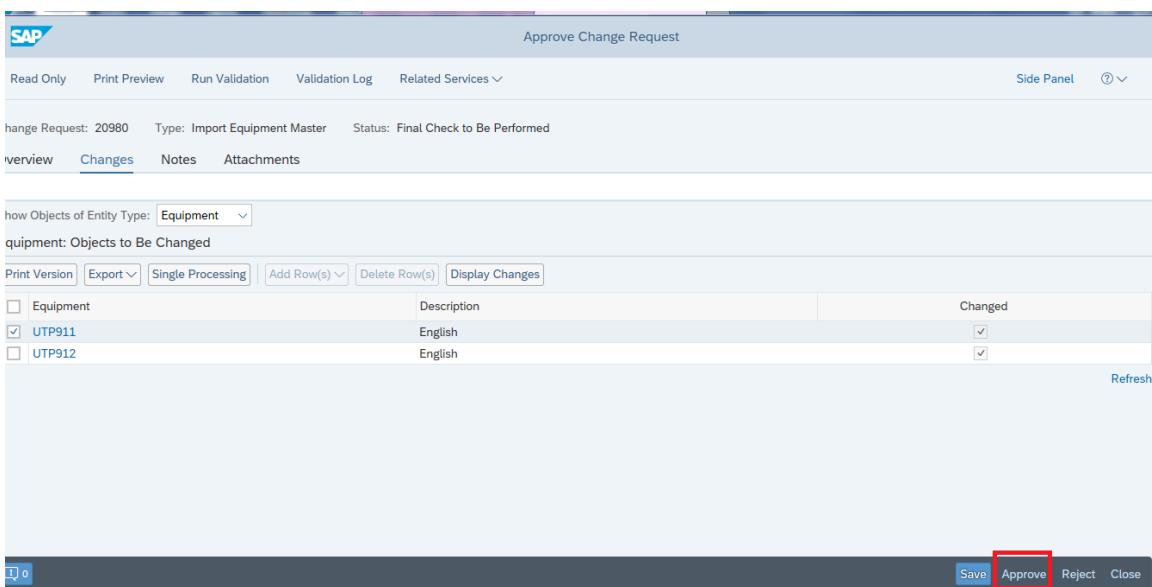
16. Click on the “Finalize Processing” button.



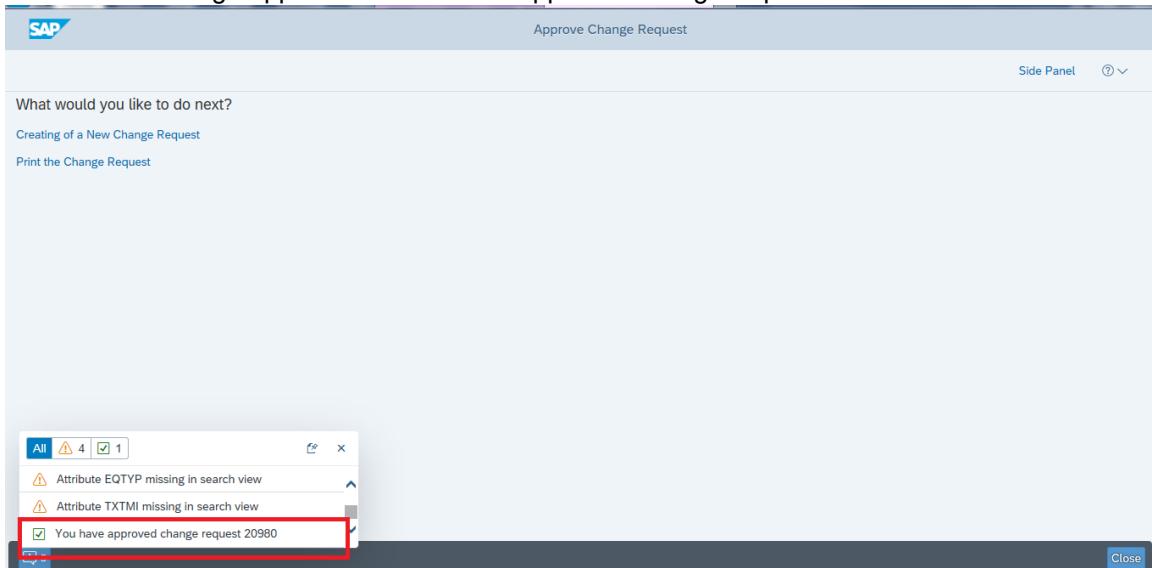
A success message appears as “You have finalized the processing of the change request XX”.



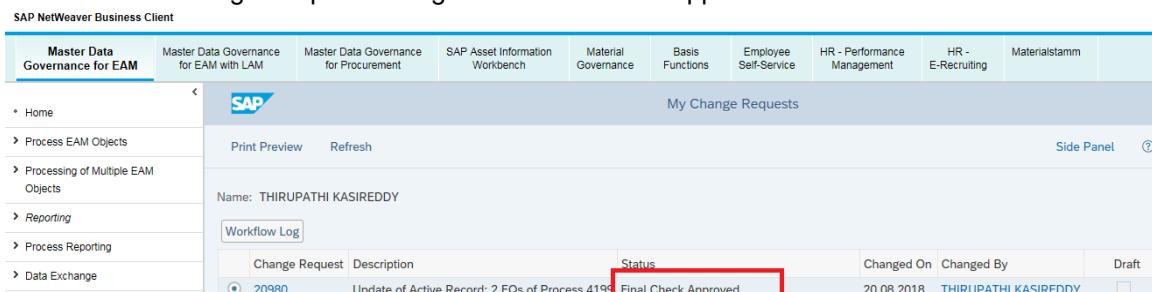
17. Click on “Approve” button to approve the Change Request.



A success message appears as "You have approved change request XX".



The status of Change Request changes to "Final Check Approved".



18. Launch t-code "IE03" to view the equipment in backend. You can verify the changes reflecting on the ECC screens.

Display Equipment - General Data

Display Equipment : General Data

Class overview Measuring points/counters

Equipment	UTP912	Category	M Machines
Description	English		
Status	AVLB	0001 DUM1 	
Valid From	20.08.2018	Valid To	31.12.9999

General Location Organization Structure DMS Sales and Dis...

General data

Class			
Object Type	1000 EquipType 1000		
AuthorizGroup	0002 Group 0002		
Weight	567,556 LB	Size/dimension	3423 MM
Inventory no.	UTP86	Start-up date	

Reference data

AcquistnValue	123.445,00	USD	Acquisition date	
---------------	------------	-----	------------------	--

Manufacturer data

Manufacturer	INDIA	ManufCountry	US
Model number	IND343	Constr.yr/mth	/
ManufPartNo.			
ManufSerialNo.			

The following screen displays the newly inserted short text in German language.

Multilingual Texts: Display

Further texts Long Text

Equipment.....: UTP912 Primary lang. EN

Short texts

S	Lang.	Sh. text	LongText
<input type="checkbox"/>	EN	English	
<input type="checkbox"/>	DE	German	

Page 1 / 1

Perform Consolidation

You can use the following steps to configure and perform the consolidation of equipment master data.

Matching and Best Record Calculation

You can define and generate a match configuration that SAP HANA uses to match master data records using the fuzzy matching adapter CL_MDC_ADAPTER_FUZZY_MTC HANA.

The rulesets are created in the SAP HANA studio to define certain rules based on the business scenarios. The ruleset can be found in the package used for creating the match configuration. The ruleset naming convention is as follows: <MatchConfigurationName>_RULESET.

To configure Matching, run the Customizing activities under the navigation path as: Master Data Governance > Consolidation and Mass Processing > Configure Matching.

 Note

Sample configuration for matching will be available once the BC-Set /UGI/MDC_EAM_CONFIG_MATCH_920 is activated.

Once the matching is completed, the data is divided into separate match groups. In a first step, the records of a match group are compared on table level.

To configure the Best Record Calculation for MDG, consolidation, run the Customizing activities under the navigation path as: Master Data Governance > Consolidation and Mass Processing >Configure Best Record Calculation.

Once this step is completed, the resultant records are identified as updates, new records or best records. This can be followed by activation step which creates data in backend either through direct activation or Change Request in MDG.

 Note

Sample configuration for best record calculations will be available once the BC-Set /UGI/MDC_EAM_BR_CONFIG_920 is activated.

Configure Process Template

Use the following steps for configure process template:

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

Display View "Master Data Consolidation: Configuration of Adapters": O			
BO Type	Step Type	Process Step Adapter	Adapter Description
183	Activation	/UGI/CL_MDC_ADAPTER_EQ_ACT	Activation for EQ
183	Best Record Calculation	/UGI/CL_MDC_ADAPTER_EQ_BRC	Equipment Best Record Calculation
183	Edit	CL_MDC_ADAPTER_EDIT	Interactive Mass Processing
183	Filter & Remove	CL_MDC_ADAPTER_FAR	Filter and Remove
183	Matching	/UGI/CL_MDC_ADAPTER_EAM_MTC	EAM Hana Matching
183	Matching	CL_MDC_ADAPTER_FUZZY_MTC	CL_MDC_ADAPTER_FUZZY_MTC
183	Matching	CL_MDC_ADAPTER_MTC	CL_MDC_ADAPTER_MTC
183	Standardization	/UGI/CL_MDC_ADAPTER_EQ_VALMAP	Evaluate value mapping for EQ
183	Standardization	/UGI/CL_MDC_ADAPTER_EQ_KEYMAP	Evaluate Key Mapping for EQ
183	Standardization	CL_MDC_ADAPTER_BRF_STD	BRFplus
183	Validation	/UGI/CL_MDC_ADAPTER_EQ_VAL	EQ Validations (Business Suite)

3. Run t-code MDCIMG. Navigate through the path: Master Data Governance, Consolidation and Mass Processing> Configure Process Template > Specify Process Template.
4. Use the following steps to create the process template for the mass change
 - Click on New Entries.
 - Provide the name of the template.
 - Provide the description for the template.
 - Assign the BO type as “183”.
 - Assign the workflow template as “WS54500001”.
 - Make sure that the process goal is selected as “C- Consolidation Processing”.
 - Ensure that the process template is selected as Consolidate matching and BRC (best record Calculation)
 - Make sure that need to select files which are imported for consolidation as data sources.
5. You can also activate the BC-Set /UGI/MDC_EAM_PT_CONFIG_920 for the following default configuration.

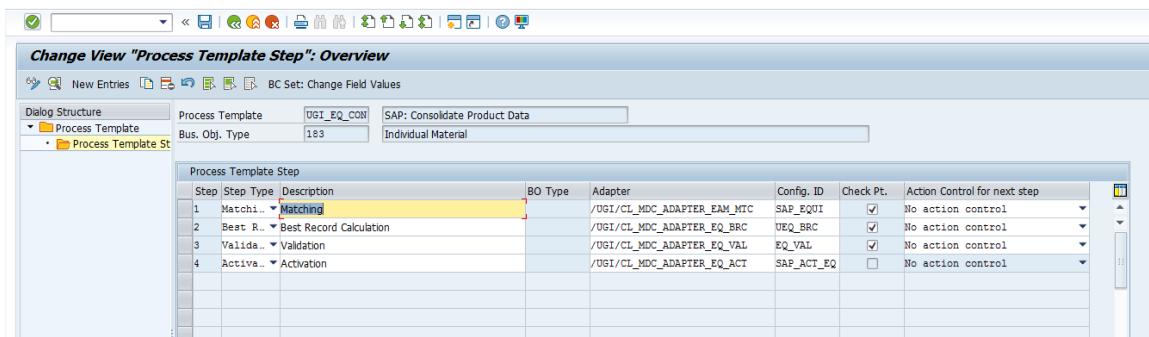
Change View "Process Template": Overview																										
Change View "Process Template": Overview																										
Dialog Structure		Process Template																								
Process Template		<table border="1"> <thead> <tr> <th>Proc Tmpl</th> <th>Description</th> <th>BO Type</th> <th>Description</th> <th>Process Workflow</th> <th>Name</th> <th>Process Goal</th> <th>Default Temp</th> <th>Delete Scenario</th> </tr> </thead> <tbody> <tr> <td>UGI_EQ_CON</td> <td>SAP: Consolidate Product Data</td> <td>183</td> <td>Individual Material</td> <td>WS54500001</td> <td>MDC Workflow</td> <td>Consolidation of</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>							Proc Tmpl	Description	BO Type	Description	Process Workflow	Name	Process Goal	Default Temp	Delete Scenario	UGI_EQ_CON	SAP: Consolidate Product Data	183	Individual Material	WS54500001	MDC Workflow	Consolidation of	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proc Tmpl	Description	BO Type	Description	Process Workflow	Name	Process Goal	Default Temp	Delete Scenario																		
UGI_EQ_CON	SAP: Consolidate Product Data	183	Individual Material	WS54500001	MDC Workflow	Consolidation of	<input type="checkbox"/>	<input checked="" type="checkbox"/>																		
Process Template St																										

6. You can 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.

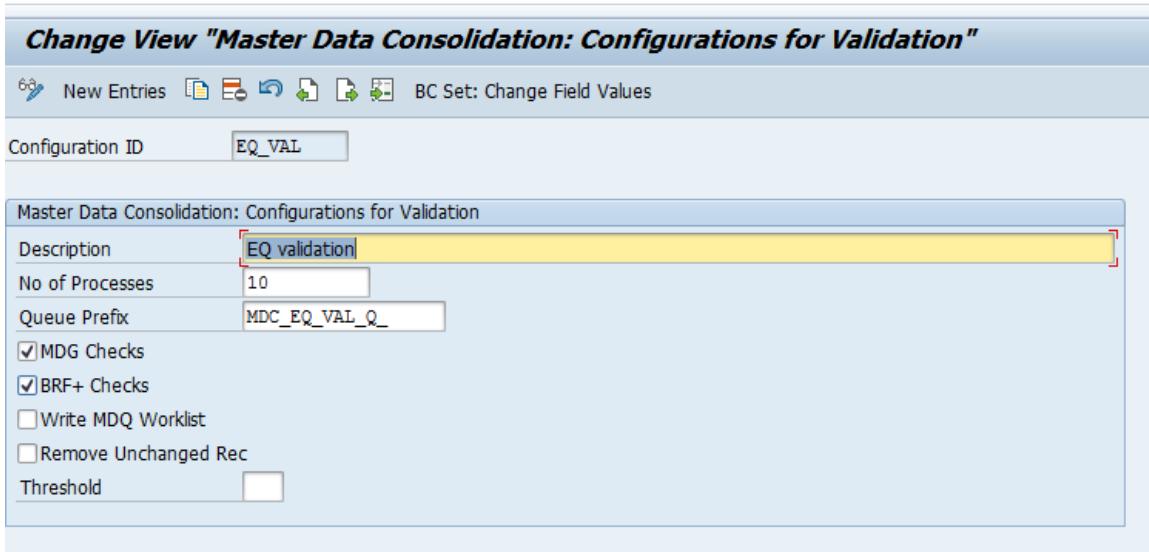
 Note

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.



The Config ID field as displayed in the above screen is defined in the IMG path. Validation can be configured for MDG checks and BRF+.



The default configuration is “Direct Activation”. This can be changed to “Activation with change request” with the Change Request EQMAST0B. The value “Max. Rec” can be changed to a value to indicate the number of Equipment objects allowed per Change Request.

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

Change View "Configurations for Activation for EQ": Details

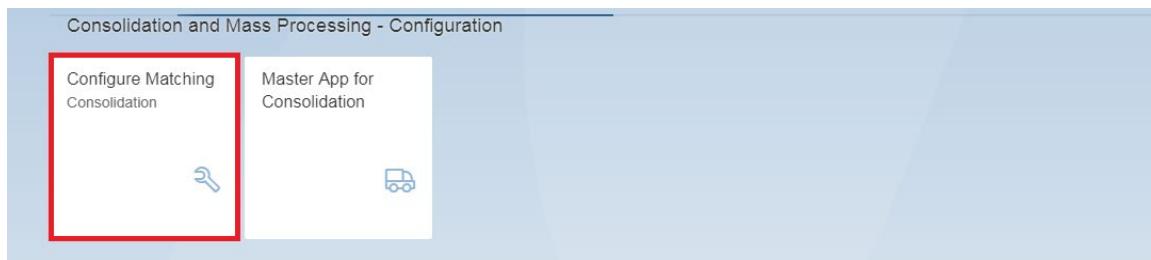
New Entries				
Configuration ID	SAP_ACT_EQ	SAP : EQ Activation		
Configurations for Activation for EQ				
No of Processes	10	Queue Prefix	MDC_EQ_ACT_Q_	
New Records				
Activation Target for New Records	Activation with Change Request	Type of Chg. Request	EQMASTOB	Max. Reco 10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco
Update Records				
Activation Target for Updated Records	Activation of Best Record with Change Request	Type of Chg. Request	EQMASTOB	Max. Reco 10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco
Match Group				
Activation Target for Match Groups	Activation of Best Record with Change Request	Type of Chg. Request	EQMASTOB	Max. Reco 10
Target for Incorrect Match Groups		Type of Chg. Request		Max. Reco 10
Replication				
<input checked="" type="checkbox"/> Call DRF after Activation				
Validation				
<input type="checkbox"/> Execute Central Governance Checks (Validation Rules (BRF+) & BADI Validations)				
<input type="checkbox"/> MDG BRF Checks				

Prerequisites

Configure Ruleset

It is to be ensured that at least one rule set is defined for matching process. You can define the ruleset using the following steps.

1. Launch Fiori launchpad using t-code /UI2/FLP. Run “Configure Matching Consolidation”.

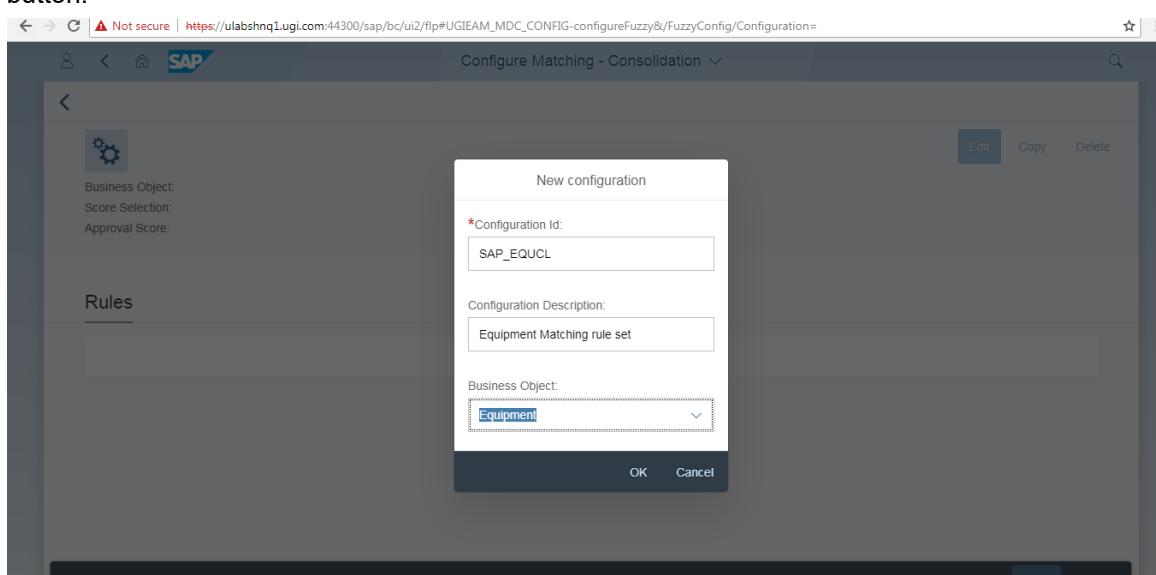


2. Click on “Add configuration” button.

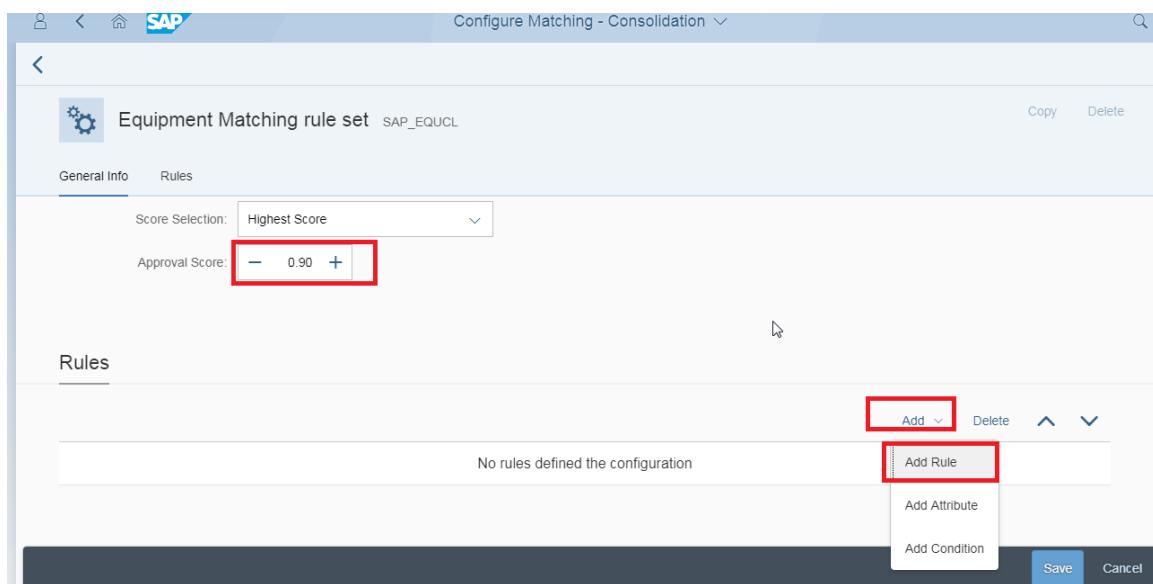
Screenshot of the SAP Fiori interface showing the "Configure Matching - Consolidation" screen. The table lists Match Configurations with columns: Configuration, Business Object, Approval Score, and Number of Rules. A red box highlights the "Add configuration" button in the top right corner.

Configuration	Business Object	Approval Score	Number of Rules
LeelaEQRuleSet ConfigId1	Equipment	1.00	1
EQUIPMNET MFR MATCHING EQUI_MATCH	Equipment	0.90	1
Match by Inventory/Description SAP_EQUI	Equipment	0.70	1
Functional Location Matching rule set SAP_FLCL	Functional Location	0.90	2
Match by Inventory/Description SAP_FLOC	Functional Location	0.75	2

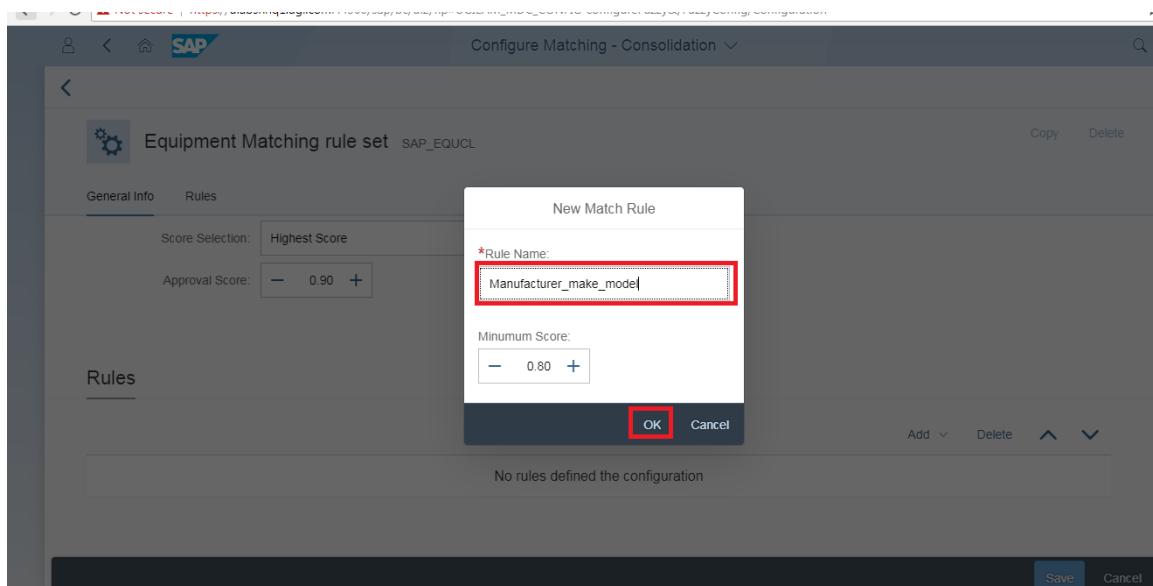
3. Enter the Configuration id and configuration Description and business object. Click on “OK” button.



4. Enter Approve score and click on “Add” button and click on “Add Rule”.



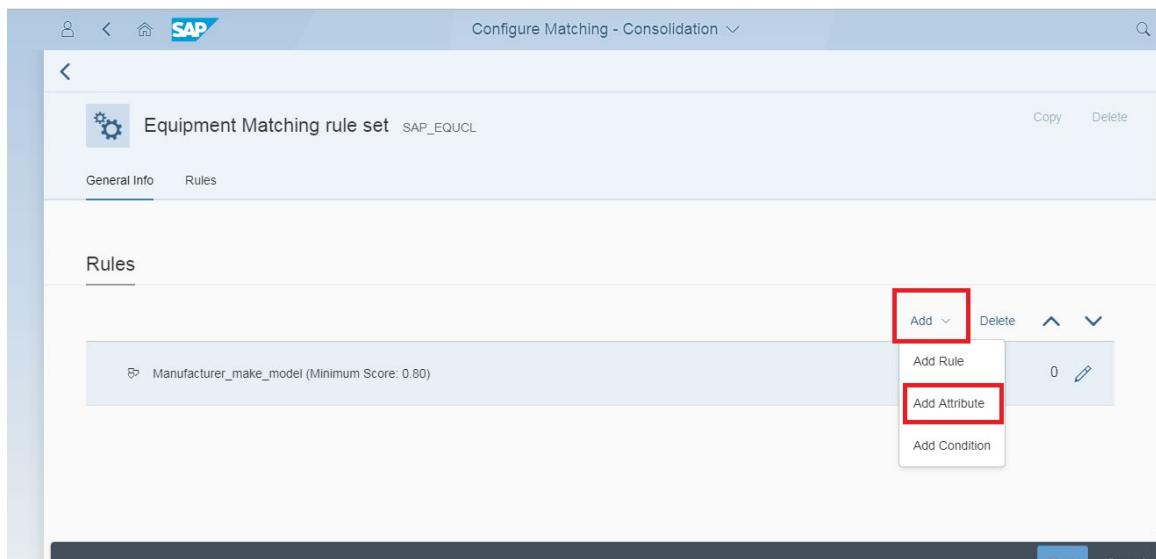
5. Enter "Rule name" and click on "OK" button.



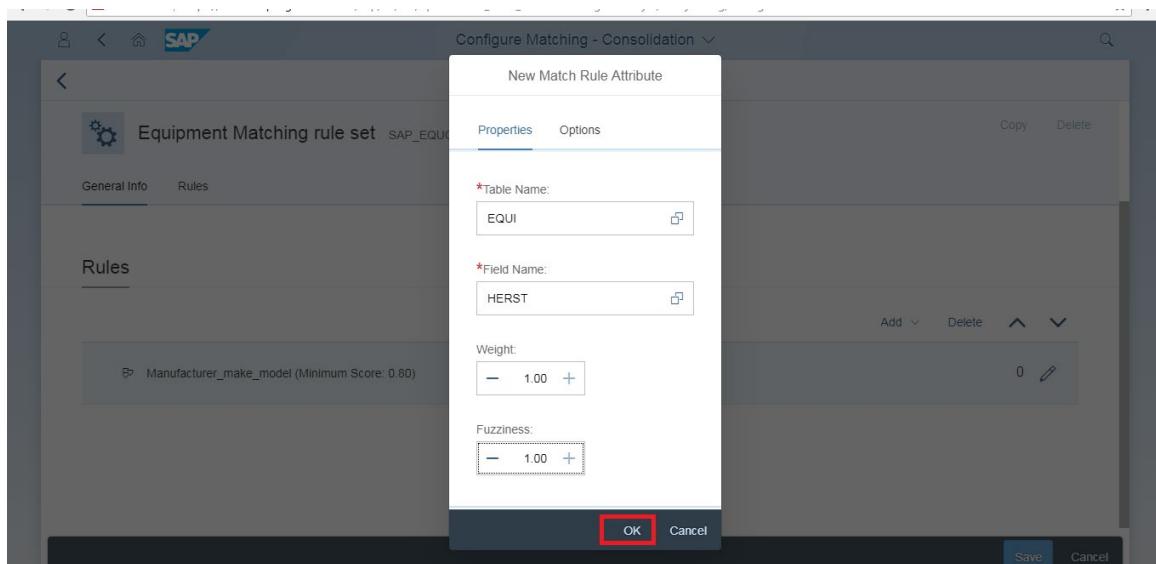
6. Select Rule as highlighted in the following screen.



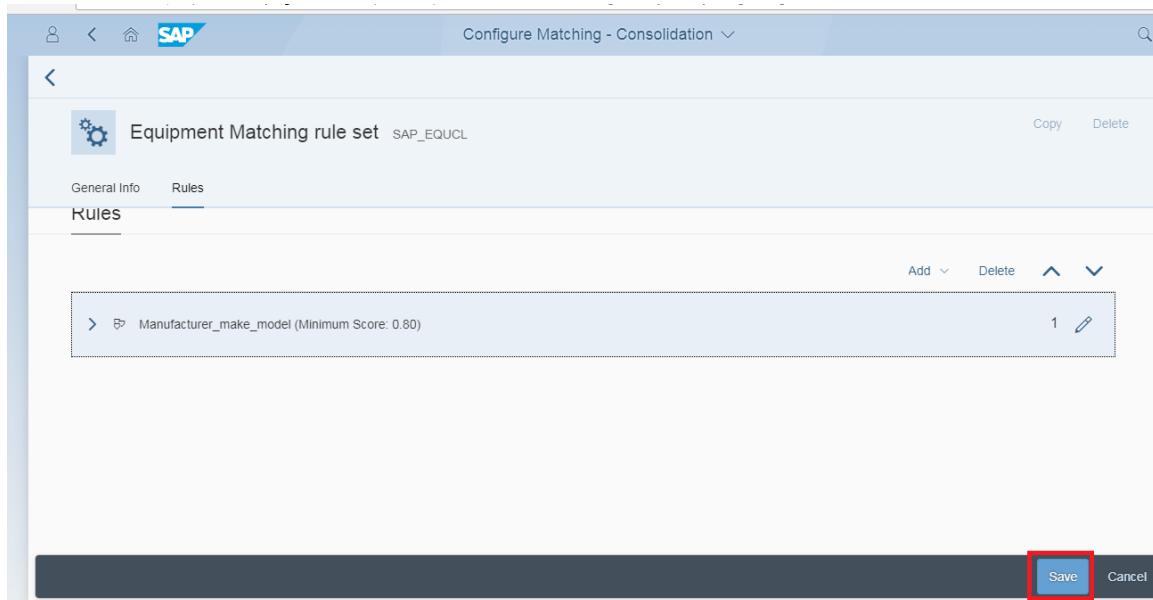
7. Click on “Add” button and Choose “Add Attribute” option.



8. Enter following screen details and click on “OK” button.



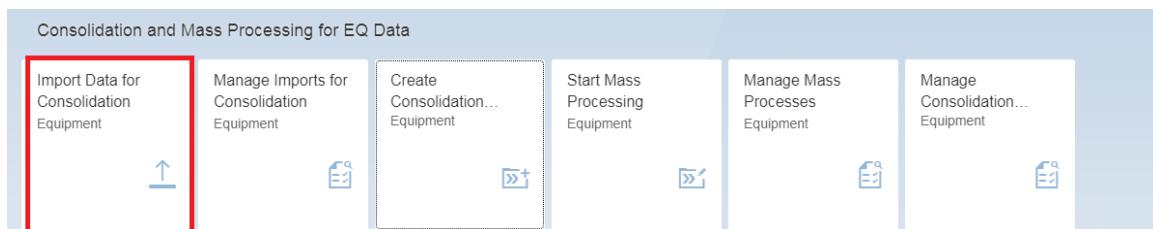
5. Click on “Save” button.



Perform Import

Use the following steps to upload the files used for Consolidation process.

1. Launch Fiori launchpad using t-code /UI2/FLP. Run “Import Data for Consolidation”. You can use this application to upload the files from different sources used in consolidation of data.



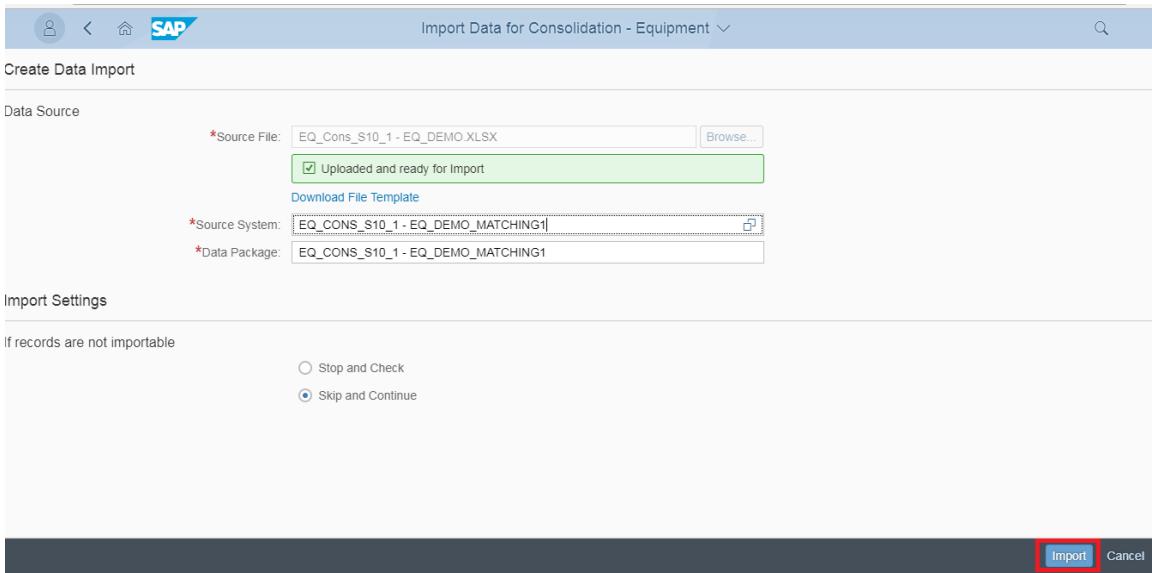
2. Choose the source file from the application server. Provide the “Source System” name and the data package.



Note

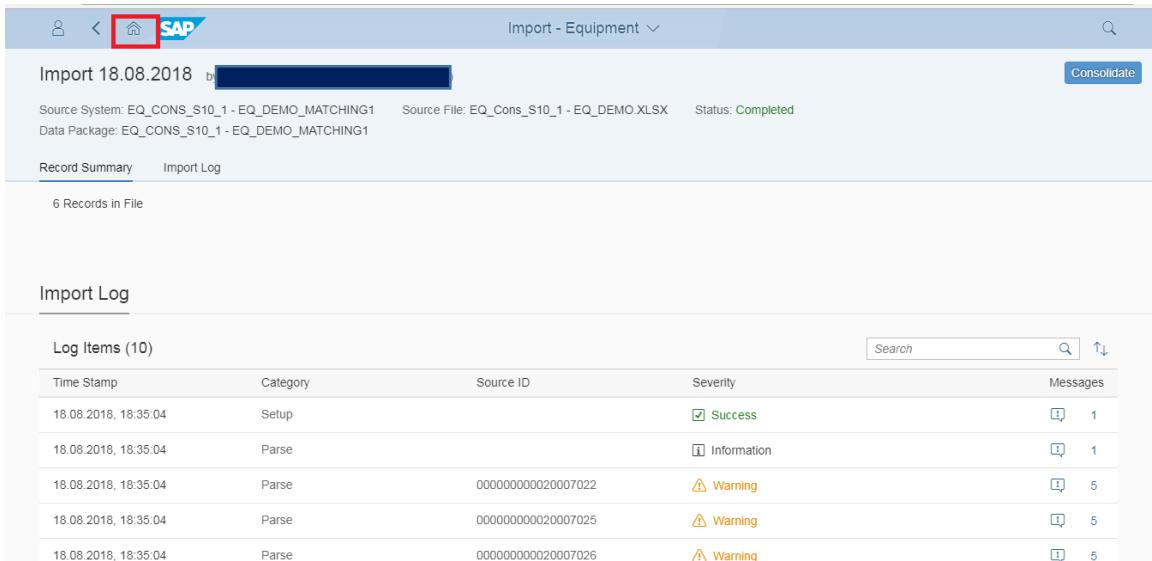
Make sure that the combination of source system and data package is unique.

3. Under the Import settings heading, select the “Skip and Continue” radio button. Click on “Import” button.



The screenshot shows the SAP Import Data for Consolidation - Equipment interface. In the 'Create Data Import' section, the 'Source File' field contains 'EQ_Cons_S10_1 - EQ_DEMO.XLSX' and has a checked checkbox indicating it is uploaded and ready for import. The 'Source System' and 'Data Package' fields both show 'EQ_CONS_S10_1 - EQ_DEMO_MATCHING1'. Under 'Import Settings', there are two radio button options: 'Stop and Check' (unchecked) and 'Skip and Continue' (checked). At the bottom right, the 'Import' button is highlighted with a red box.

- Click on the “Home” button as highlighted in the following screen.



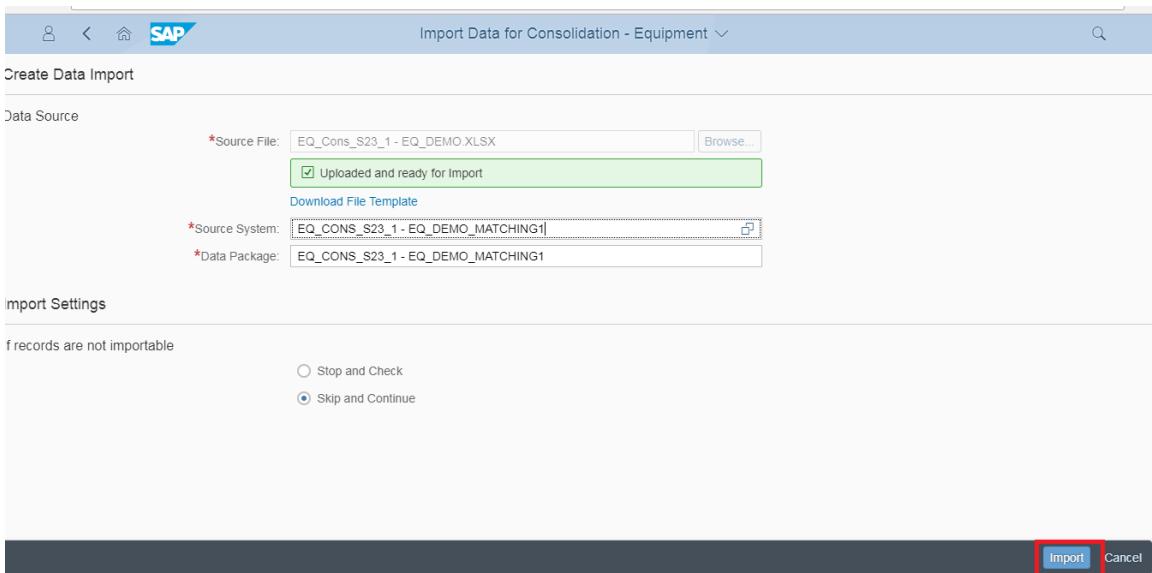
The screenshot shows the SAP Import - Equipment interface. It displays the results of an import from 18.08.2018. The 'Record Summary' tab indicates 6 records in the file. Below it, the 'Import Log' tab is selected, showing a log of 10 items. The log details the following events:

Time Stamp	Category	Source ID	Severity	Messages
18.08.2018, 18:35:04	Setup		Success	1
18.08.2018, 18:35:04	Parse		Information	1
18.08.2018, 18:35:04	Parse	000000000020007022	Warning	5
18.08.2018, 18:35:04	Parse	000000000020007025	Warning	5
18.08.2018, 18:35:04	Parse	000000000020007026	Warning	5

Note

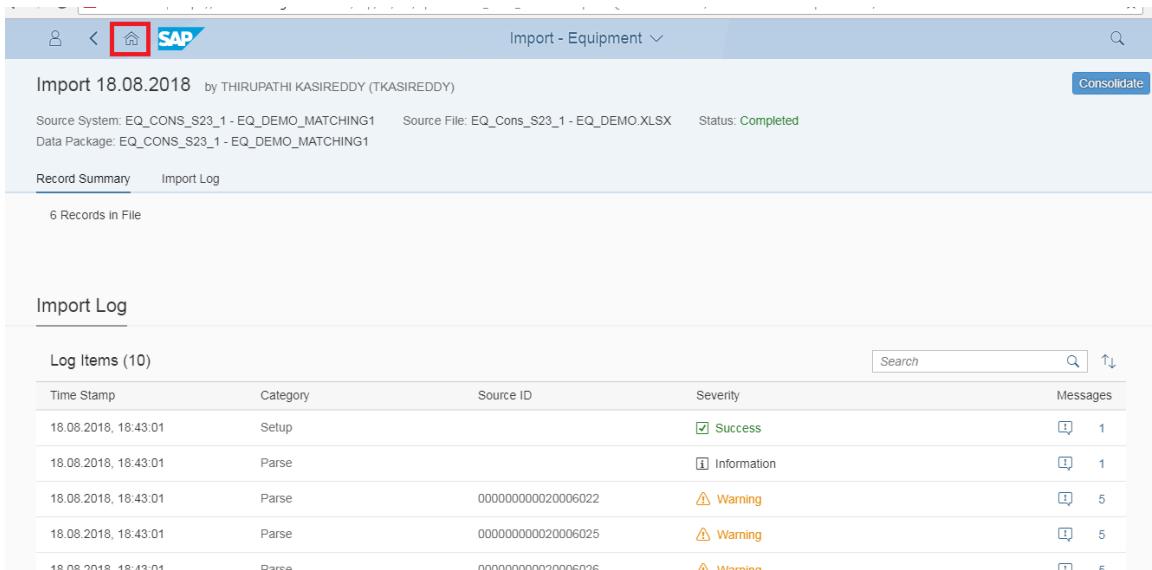
You can use the above steps to upload all the files to be used for consolidation process.

The following screen shows that the second file is uploaded successfully and is ready for the import.



The screenshot shows the SAP Import Data for Consolidation - Equipment interface. It includes fields for Data Source (Source File: EQ_Cons_S23_1 - EQ_DEMO XLSX, Source System: EQ_CONS_S23_1 - EQ_DEMO_MATCHING1, Data Package: EQ_CONS_S23_1 - EQ_DEMO_MATCHING1), Import Settings (records are not importable, Stop and Check or Skip and Continue), and a bottom bar with Import and Cancel buttons.

- Click on the “Home” button to navigate to the initial screen.



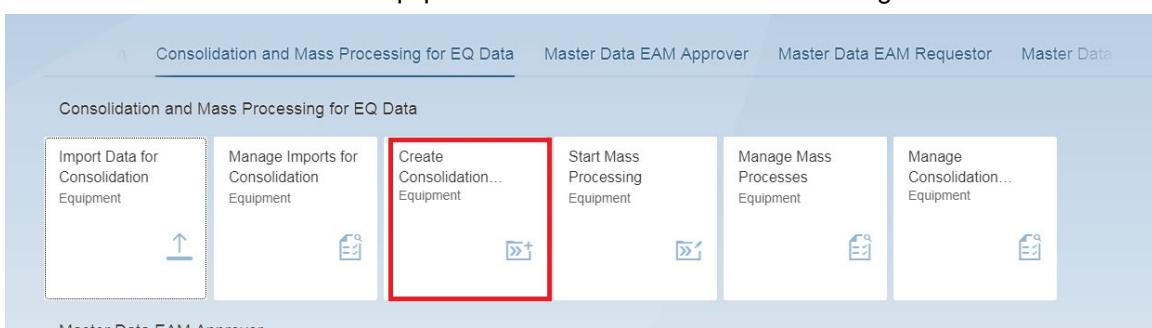
The screenshot shows the SAP Import - Equipment screen after a successful import. It displays the import date (18.08.2018), user (THIRUPATHI KASIREDDY (TKASIREDDY)), source system (EQ_CONS_S23_1 - EQ_DEMO_MATCHING1), source file (EQ_Cons_S23_1 - EQ_DEMO.XLSX), status (Completed), and a detailed Import Log table.

Time Stamp	Category	Source ID	Severity	Messages
18.08.2018, 18:43:01	Setup		Success	1
18.08.2018, 18:43:01	Parse		Information	1
18.08.2018, 18:43:01	Parse	000000000020006022	Warning	5
18.08.2018, 18:43:01	Parse	000000000020006025	Warning	5
18.08.2018, 18:43:01	Parse	000000000020006026	Warning	5

Start Consolidation Process

You can use the following steps to run the Consolidation on the imported data.

- Click on “Create Consolidation Equipment” button as shown in the following screen.

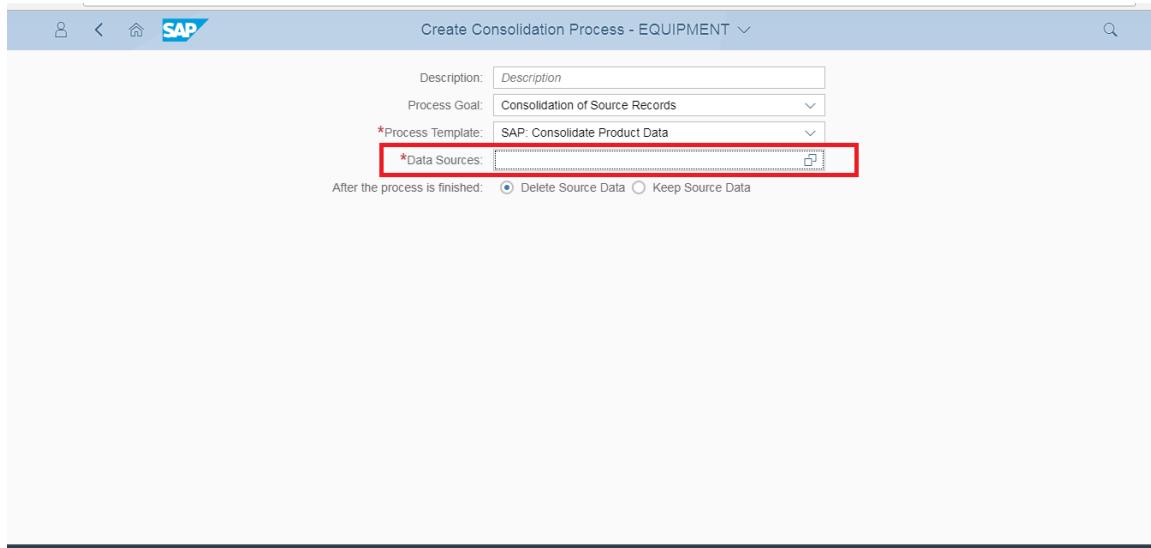


The screenshot shows the SAP Consolidation and Mass Processing for EQ Data screen. It features several buttons: Import Data for Consolidation Equipment, Manage Imports for Consolidation Equipment, Create Consolidation... Equipment (highlighted with a red box), Start Mass Processing Equipment, Manage Mass Processes Equipment, and Manage Consolidation... Equipment.

2. Enter the description. The process goal should be selected as “Consolidation of Source Records”.

The data sources are to be selected from the F4 help. The imports done in the above steps are available for selection in the data sources.

You can choose the radio button “Delete source data” in case you wish to delete the source status tables after the process is finished.



SAP Create Consolidation Process - EQUIPMENT

Description:

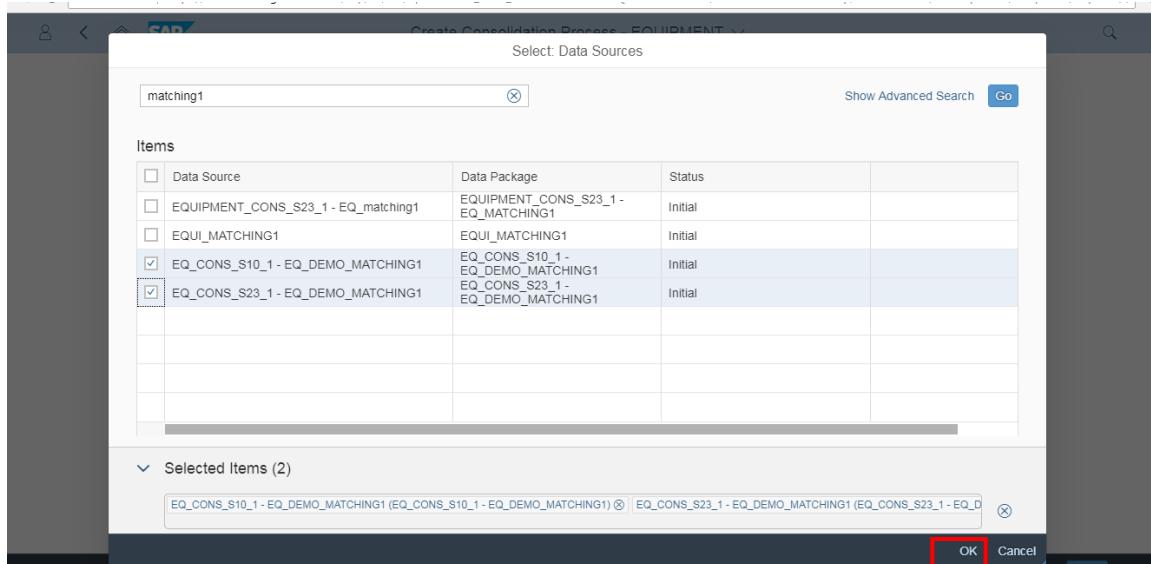
Process Goal:

*Process Template:

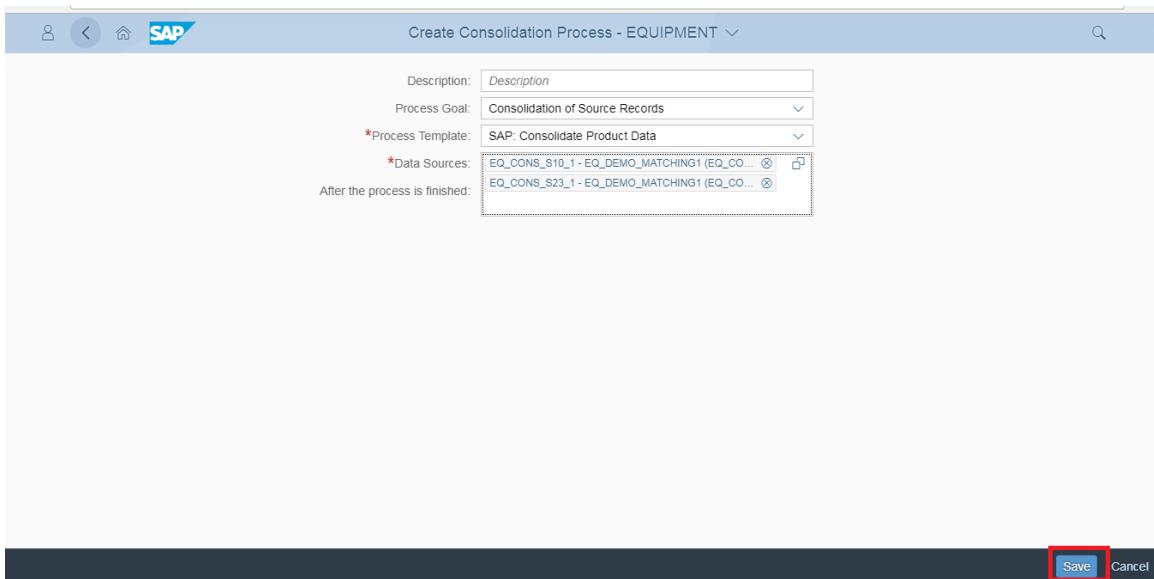
*Data Sources:

After the process is finished: Delete Source Data Keep Source Data

3. Once the data sources are marked for selection, click on “OK” button.



4. Click on “Save” button.



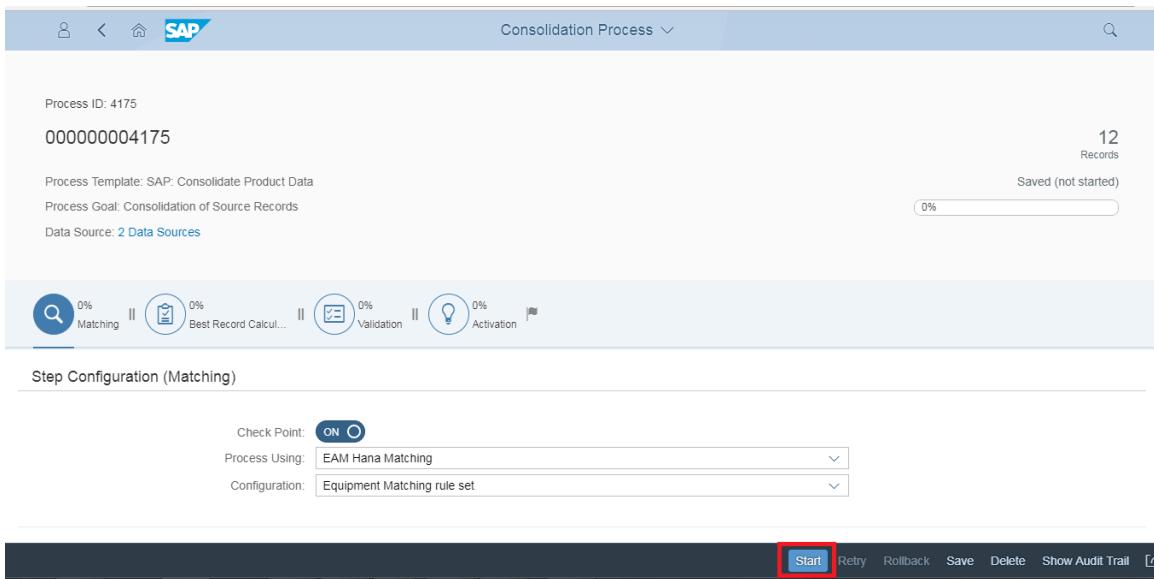
The screenshot shows the SAP Fiori interface for creating a consolidation process. The top navigation bar includes icons for user profile, back, home, and SAP logo. The title is 'Create Consolidation Process - EQUIPMENT'. The form fields are as follows:

- Description:
- Process Goal:
- *Process Template:
- *Data Sources:
- After the process is finished:

At the bottom right, there are 'Save' and 'Cancel' buttons, with 'Save' being highlighted by a red box.

A new process ID is created.

5. Click on “Start” button to initiate the process.



The screenshot shows the SAP Fiori interface for managing consolidation processes. The top navigation bar includes icons for user profile, back, home, and SAP logo. The title is 'Consolidation Process'. The process details are:

- Process ID: 4175
- 000000004175
- 12 Records
- Process Template: SAP: Consolidate Product Data
- Process Goal: Consolidation of Source Records
- Data Source: 2 Data Sources
- Saved (not started)

The main area shows a horizontal progress bar with four steps: Matching (0%), Best Record Calcul... (0%), Validation (0%), and Activation (0%).

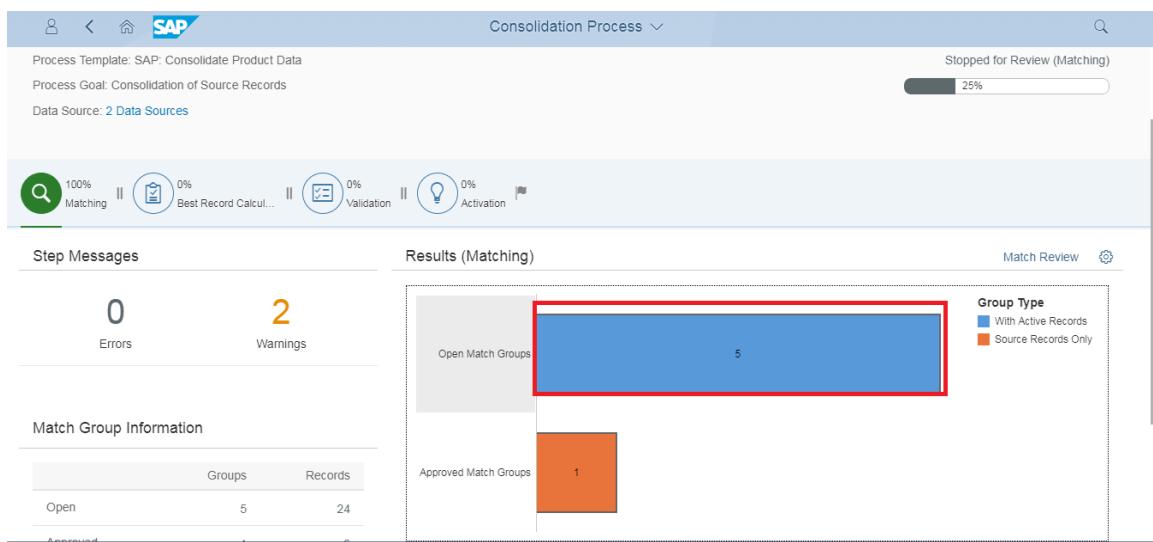
Step Configuration (Matching)

Configuration settings for the Matching step:

- Check Point: ON
- Process Using: EAM Hana Matching
- Configuration: Equipment Matching rule set

At the bottom right, there are buttons for 'Start' (highlighted with a red box), 'Retry', 'Rollback', 'Save', 'Delete', 'Show Audit Trail', and a help icon.

This runs the matching process step as shown in the following screen.

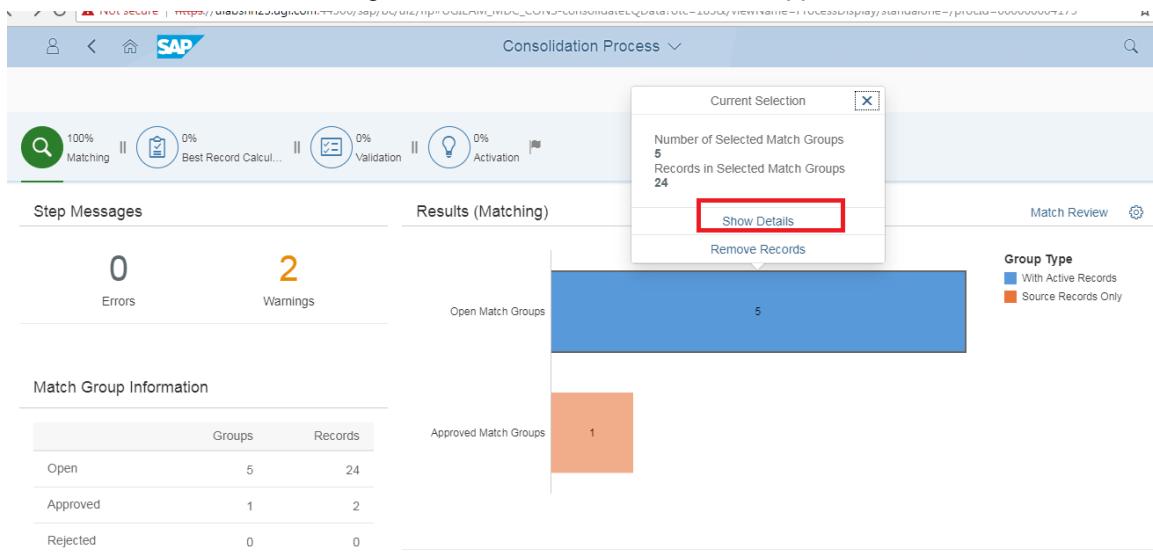


The records are bundled into “Open match groups” or “Approved match” groups based on the results of matching rulesets as configured using the “Configure Matching” application.

The above screen shows the graphical representation of the data with different color conventions.

You can view the details of the records by clicking on the “Open Match Group” or “Approved match group” on graph.

- Click on “Show Details” to navigate to the records for review and approval.

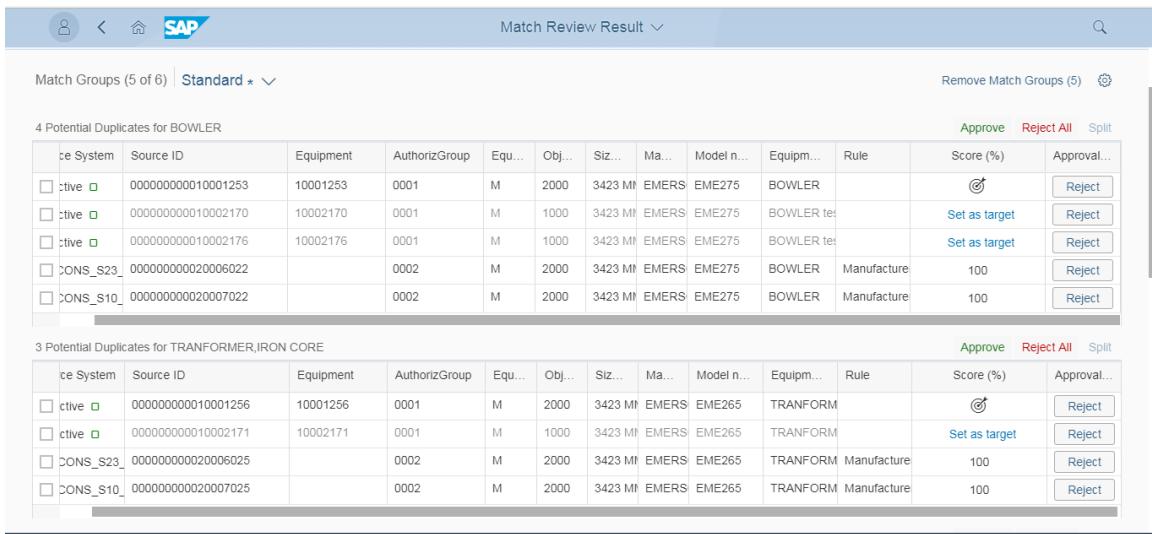


- You can see the records being segregated into different match groups along with the active records from the current system based on the matching rulesets as configured in the “Configure Matching” application.

The rule and score values can be used to determine the potential duplicates.

You can choose to approve or reject the match group based on the matching results.

- Click on “Back” button to navigate to the home page.



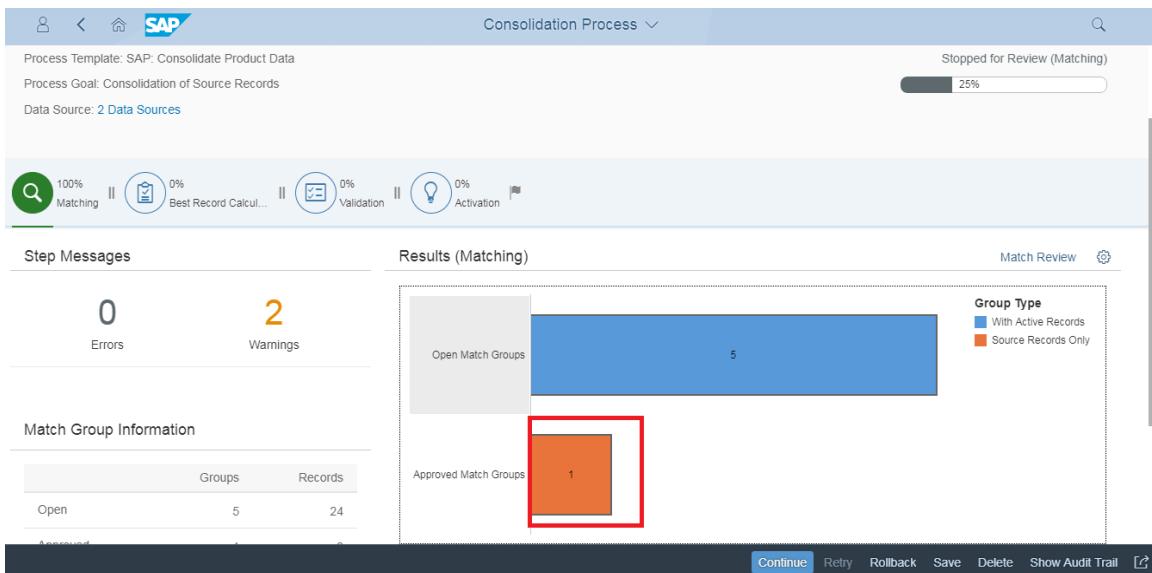
The screenshot shows the SAP Match Review Result interface. It displays two sections of potential duplicates:

- 4 Potential Duplicates for BOWLER**

ce System	Source ID	Equipment	AuthorizGroup	Equ...	Obj...	Siz...	Ma...	Model n...	Equipm...	Rule	Score (%)	Approval...
ctive	000000000010001253	10001253	0001	M	2000	3423 M	EMERS	EME275	BOWLER		100	<input type="button" value="Approve"/>
ctive	000000000010002170	10002170	0001	M	1000	3423 M	EMERS	EME275	BOWLER te		100	<input type="button" value="Reject"/>
ctive	000000000010002176	10002176	0001	M	1000	3423 M	EMERS	EME275	BOWLER te		100	<input type="button" value="Reject"/>
CONS_S23	000000000020006022		0002	M	2000	3423 M	EMERS	EME275	BOWLER Manufacture		100	<input type="button" value="Reject"/>
CONS_S10	000000000020007022		0002	M	2000	3423 M	EMERS	EME275	BOWLER Manufacture		100	<input type="button" value="Reject"/>
- 3 Potential Duplicates for TRANSFORMER,IRON CORE**

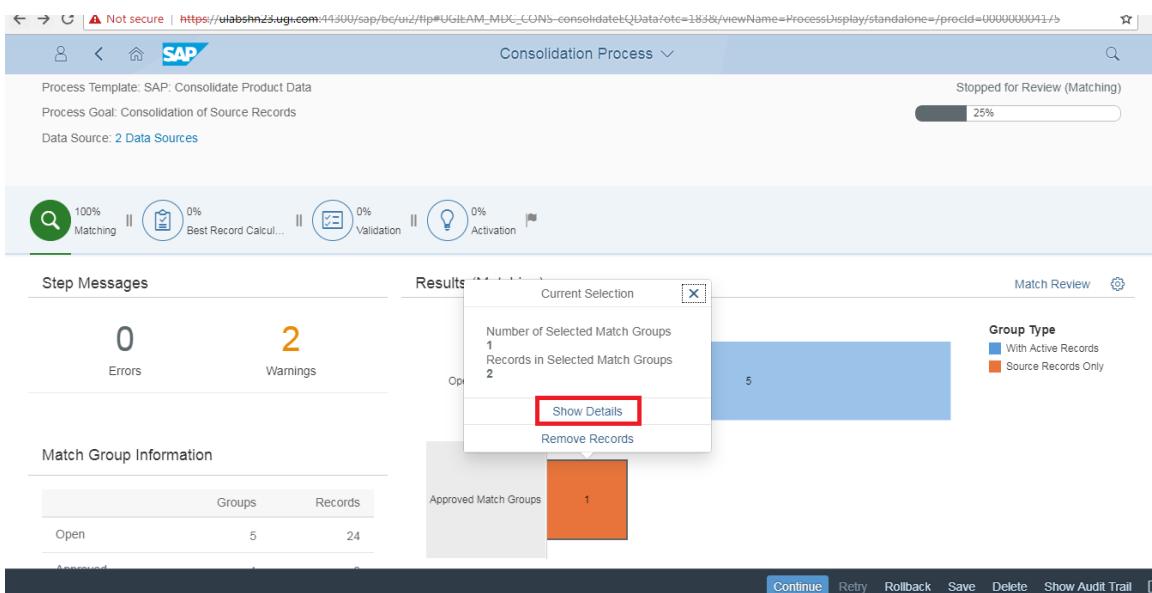
ce System	Source ID	Equipment	AuthorizGroup	Equ...	Obj...	Siz...	Ma...	Model n...	Equipm...	Rule	Score (%)	Approval...
ctive	000000000010001256	10001256	0001	M	2000	3423 M	EMERS	EME265	TRANSFORM		100	<input type="button" value="Approve"/>
ctive	000000000010002171	10002171	0001	M	1000	3423 M	EMERS	EME265	TRANSFORM		100	<input type="button" value="Reject"/>
CONS_S23	000000000020006025		0002	M	2000	3423 M	EMERS	EME265	TRANSFORM Manufacture		100	<input type="button" value="Reject"/>
CONS_S10	000000000020007025		0002	M	2000	3423 M	EMERS	EME265	TRANSFORM Manufacture		100	<input type="button" value="Reject"/>

9. Click on “Approved Match Groups” graph to view the records.



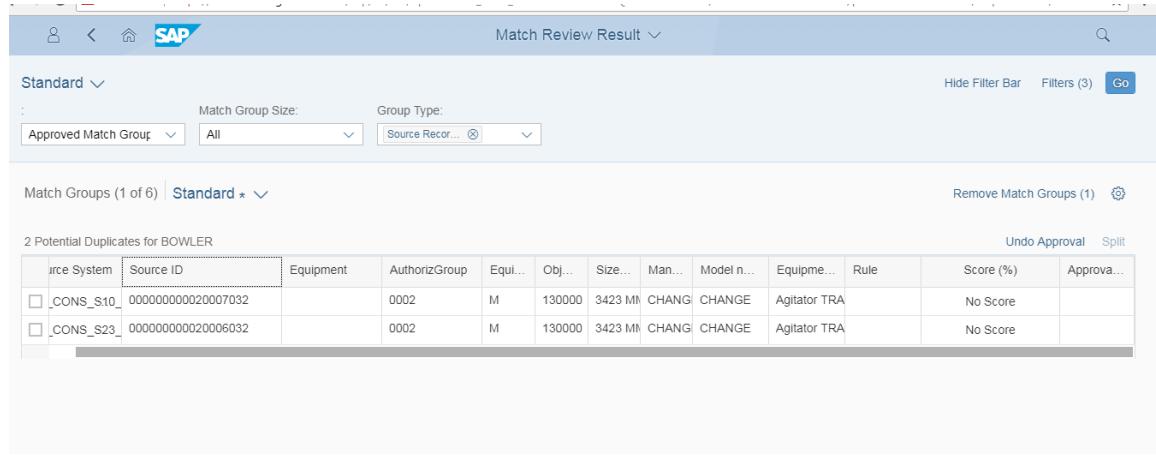
The screenshot shows the SAP Consolidation Process interface. In the **Match Group Information** section, there are tables for **Open** and **Approved** groups and records. In the **Results (Matching)** section, there are two bars: **Open Match Groups** (blue) and **Approved Match Groups** (orange). The **Approved Match Groups** bar is highlighted with a red box.

10. Click on “Show Details” button to review the records.



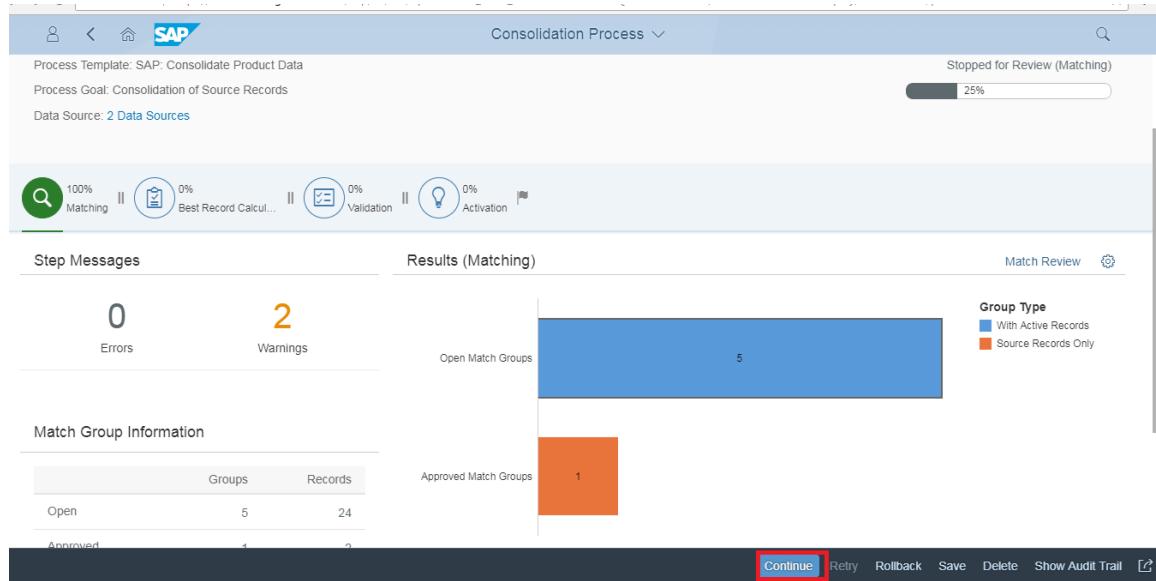
The screenshot shows the SAP Consolidation Process interface. A context menu is open over the **Approved Match Groups** bar. The menu items are: **Number of Selected Match Groups** (1), **Records in Selected Match Groups** (2), **Show Details**, and **Remove Records**. The **Show Details** button is highlighted with a red box.

The following screen shows the records having “No score” as there are no matches found in the current system with the active records. These records will go for new record creation process.



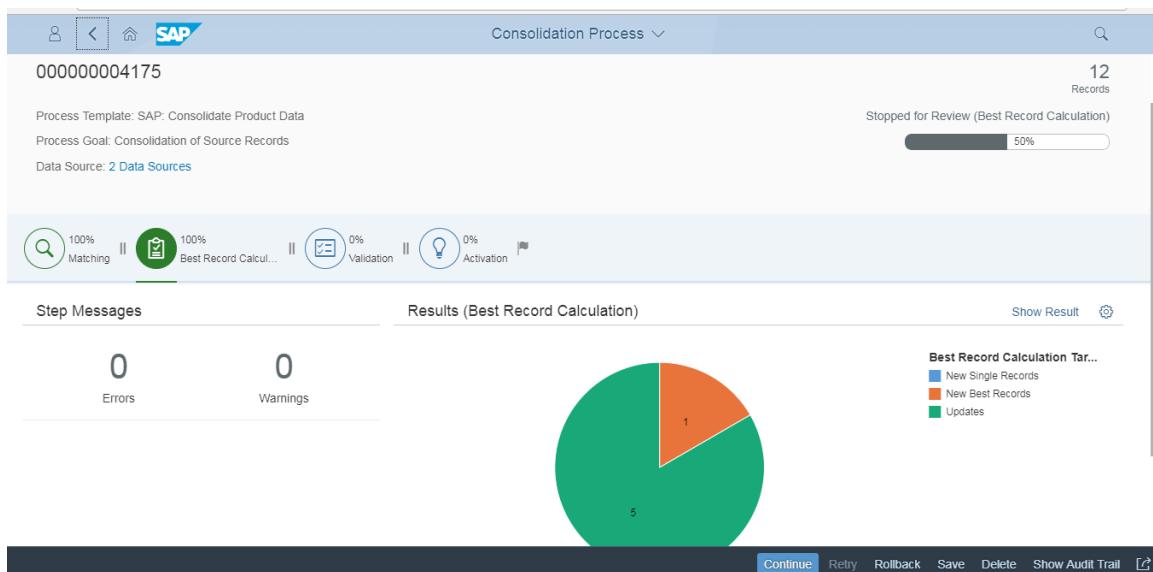
The screenshot shows the SAP Match Review Result interface. At the top, it displays "Match Review Result" and "Standard". Below this, there are dropdown menus for "Match Group Size" (set to "All") and "Group Type" (set to "Source Recor..."). On the right, there are buttons for "Hide Filter Bar", "Filters (3)", "Go", "Remove Match Groups (1)", and "Split". The main area shows "Match Groups (1 of 6) | Standard". A table lists "2 Potential Duplicates for BOWLER". The columns include: Source System, Source ID, Equipment, AuthorizGroup, Equi..., Obj..., Size..., Man..., Model n..., Equipme..., Rule, Score (%), and Approva.... Two rows are shown, both from "CONNS_S10" and "CONNS_S23", both with Source ID 000000000020007032 and Equipment 0002. The "Score (%)" column shows "No Score" for both rows.

11. Click on “Back” button to navigate to home page.
12. Click on “Continue” button to proceed to the next step i.e. best record calculation.



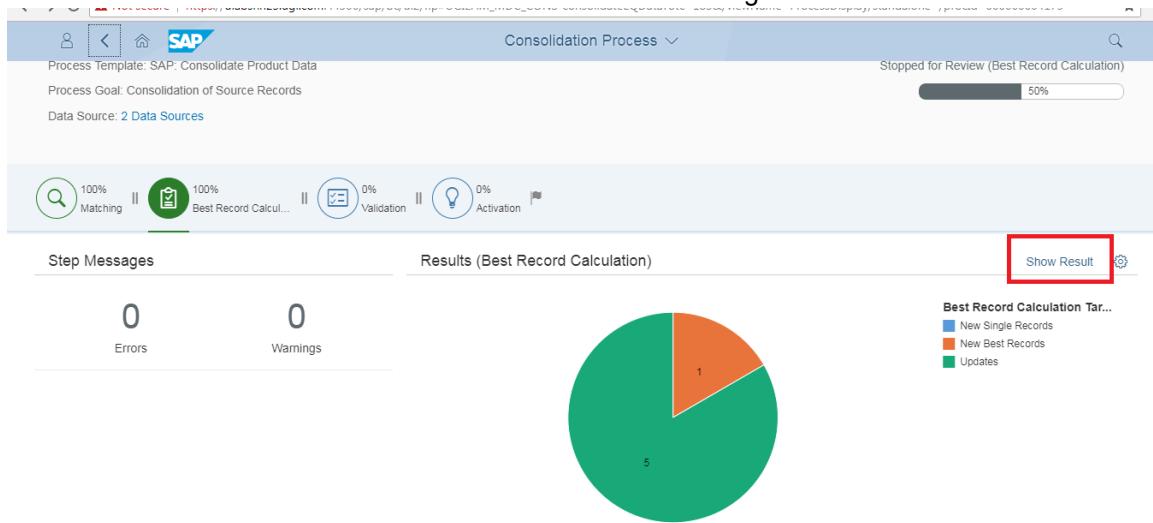
The screenshot shows the SAP Consolidation Process interface. The title bar says "Consolidation Process" and "SAP". It displays "Process Template: SAP: Consolidate Product Data", "Process Goal: Consolidation of Source Records", and "Data Source: 2 Data Sources". A progress bar indicates "Stopped for Review (Matching)" at 25%. Below this, a progress bar shows four steps: Matching (100%), Best Record Calcul... (0%), Validation (0%), and Activation (0%). The main area has tabs for "Step Messages" (Errors: 0, Warnings: 2) and "Results (Matching)". Under "Results (Matching)", there is a chart showing "Open Match Groups" (5 blue bars) and "Approved Match Groups" (1 orange bar). A legend indicates "Group Type: With Active Records (Blue)" and "Source Records Only (Orange)". At the bottom, there are buttons for "Match Review", "Continue" (which is highlighted with a red box), "Retry", "Rollback", "Save", "Delete", "Show Audit Trail", and a refresh icon.

The following screen shows the results of the “Best Record Calculation” step.

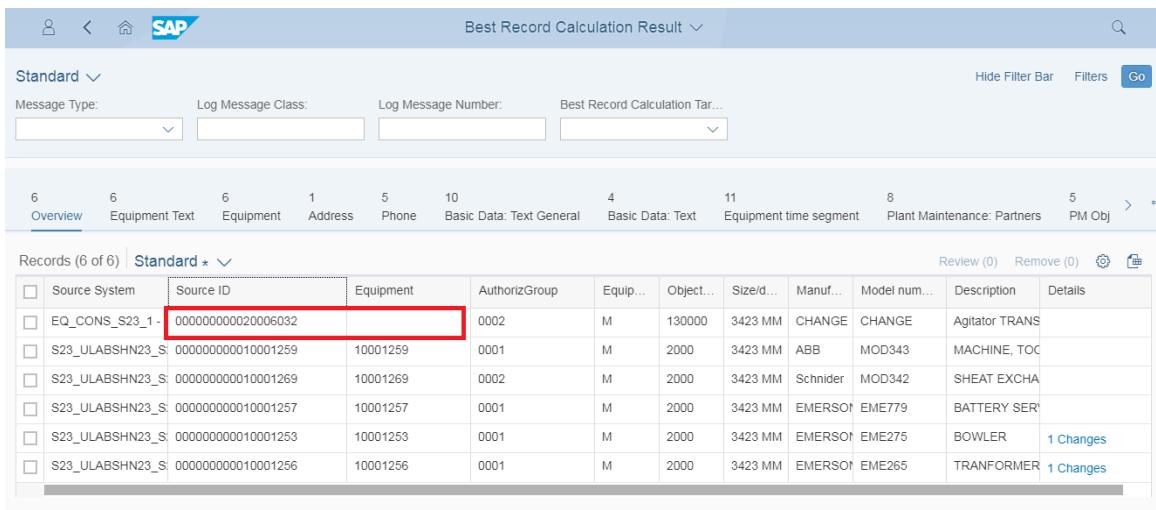


The records are differentiated and represented in the graph as new single records, new best records or updates with different color conventions.

13. You can click on the “Show Results” button to review and change the data if needed.



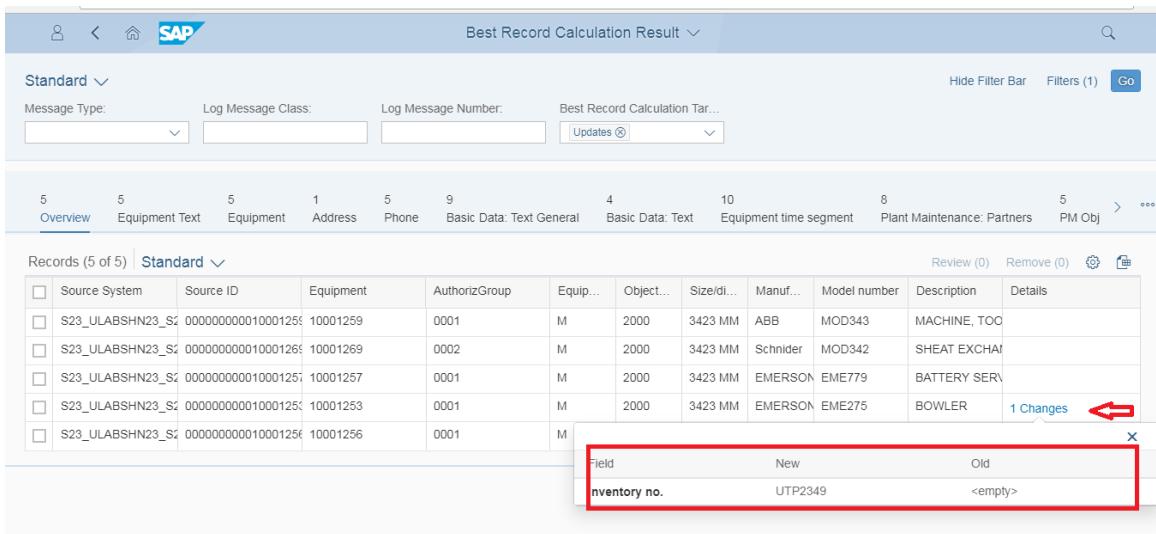
The following screen shows the records to be considered for creation and updatation. In case of update scenario, the changes can be viewed by navigating to the “Details” column of the overview tab to view the changes against the records.



Records (6 of 6) | Standard * ↴

Source System	Source ID	Equipment	AuthorizGroup	Equip...	Object...	Size/di...	Manuf...	Model num...	Description	Details
EQ_CONS_S23_1	00000000020006032		0002	M	130000	3423 MM	CHANGE	CHANGE	Agitator TRANS	
S23_ULABSHN23_S	00000000010001259	10001259	0001	M	2000	3423 MM	ABB	MOD343	MACHINE, TOC	
S23_ULABSHN23_S	00000000010001269	10001269	0002	M	2000	3423 MM	Schnider	MOD342	SHEET EXCHA	
S23_ULABSHN23_S	00000000010001257	10001257	0001	M	2000	3423 MM	EMERSO	EAE779	BATTERY SER	
S23_ULABSHN23_S	00000000010001253	10001253	0001	M	2000	3423 MM	EMERSO	EAE275	BOWLER	1 Changes
S23_ULABSHN23_S	00000000010001256	10001256	0001	M	2000	3423 MM	EMERSO	EAE265	TRANFORMER	1 Changes

14. Click on the “Changes” link as highlighted below to view the old and new values of the fields changed.



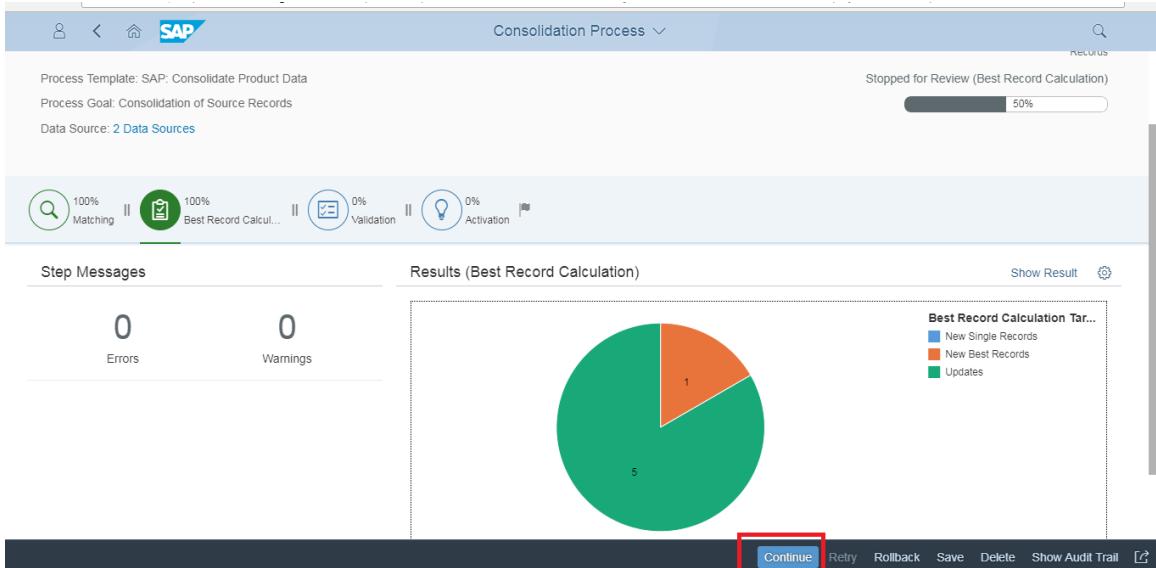
Records (5 of 5) | Standard * ↴

Source System	Source ID	Equipment	AuthorizGroup	Equip...	Object...	Size/di...	Manuf...	Model number	Description	Details
S23_ULABSHN23_S	00000000010001259	10001259	0001	M	2000	3423 MM	ABB	MOD343	MACHINE, TOC	
S23_ULABSHN23_S	00000000010001269	10001269	0002	M	2000	3423 MM	Schnider	MOD342	SHEET EXCHA	
S23_ULABSHN23_S	00000000010001257	10001257	0001	M	2000	3423 MM	EMERSON	EAE779	BATTERY SER	
S23_ULABSHN23_S	00000000010001253	10001253	0001	M	2000	3423 MM	EMERSON	EAE275	BOWLER	1 Changes
S23_ULABSHN23_S	00000000010001256	10001256	0001	M	2000	3423 MM	EMERSO	EAE265	TRANFORMER	1 Changes

Field New Old

Inventory no. UTP2349 <empty>

15. Click on “Continue” button to run the next step i.e. validation.



Consolidation Process ↴

Process Template: SAP: Consolidate Product Data
Process Goal: Consolidation of Source Records
Data Source: 2 Data Sources

Stopped for Review (Best Record Calculation)

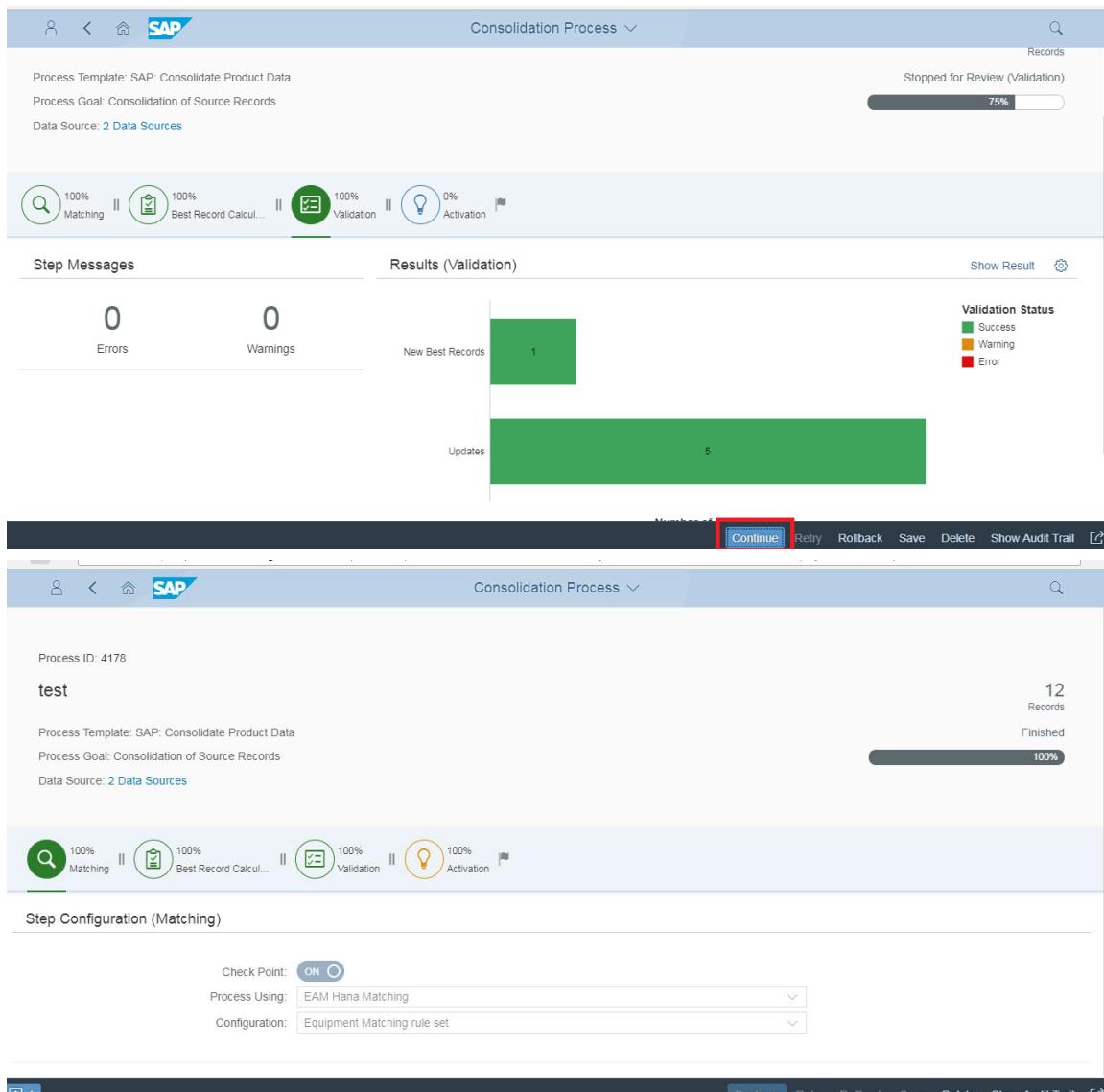
100% Matching 100% Best Record Calcul... 0% Validation 0% Activation

Step Messages Results (Best Record Calculation) Show Result

0 Errors 0 Warnings

Pie Chart: Best Record Calculation Total
 - New Single Records (Blue)
 - New Best Records (Orange)
 - Updates (Green)

Continue Retry Rollback Save Delete Show Audit Trail



Note

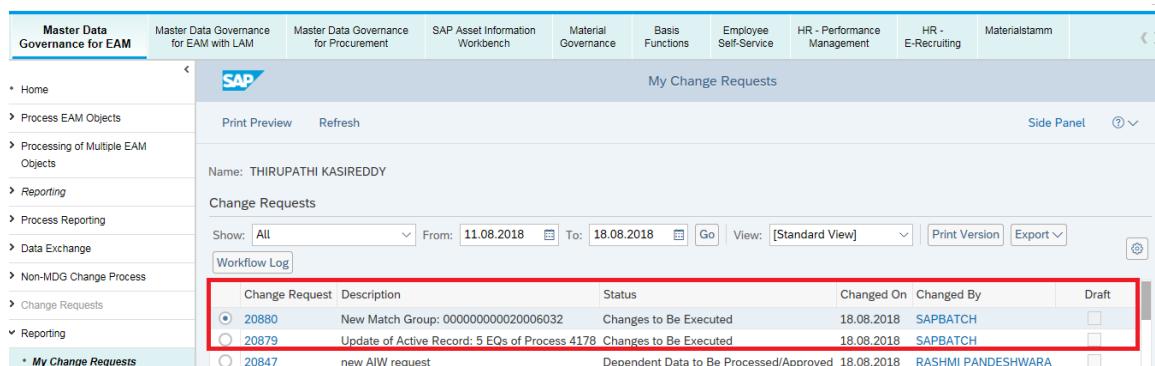
In case the direct activation option is used, the data gets created in backend and does not go through the governance process.

16. Launch t-code NWBC. Use the role /UGI/_MDGEAM_MENU to navigate to the Change Requests created.
The CR of type EQMAST0B is created with user name as SAP_WFRT (background used).
17. To search for the Change Request created, Launch t-code "NWBC". Use the role "/UGI/_MDGEAM_MENU" to navigate to the Equipment screens.
18. Click on Reporting->My change requests. You can filter the change requests by using the "Changed By" as "SAPBATCH" user.

Note

The created and updated records are included in separate change requests.

The following screen shows the Change Requests created upon activation.

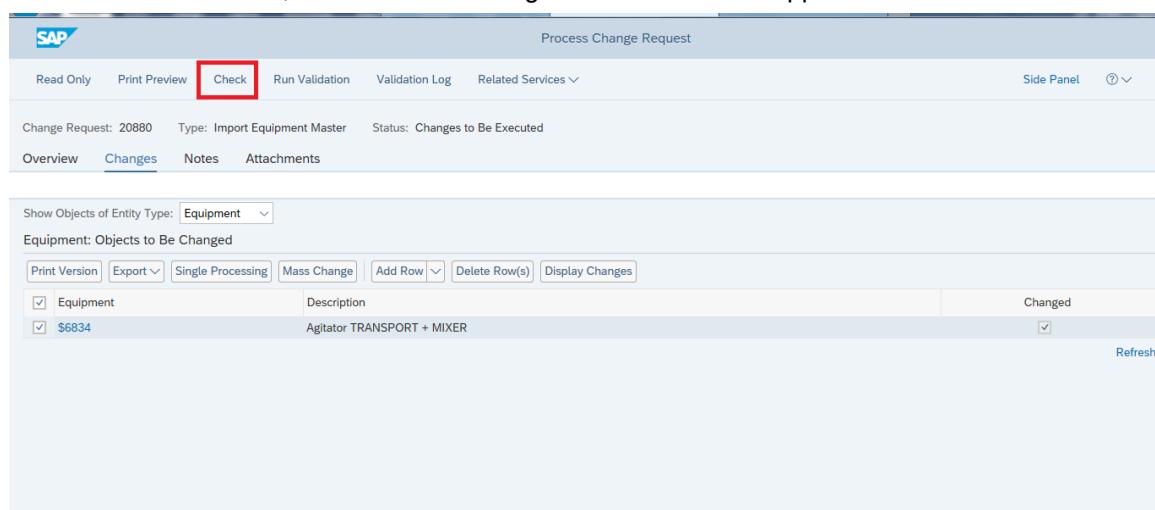


The screenshot shows the SAP Master Data Governance for EAM interface. On the left, there's a navigation tree with nodes like Home, Process EAM Objects, Reporting, etc. The main area is titled 'My Change Requests'. It shows a table with columns: Change Request, Description, Status, Changed On, Changed By, and Draft. Two rows are highlighted with a red box: row 20880 (New Match Group: 000000000020006032, Status: Changes to Be Executed) and row 20879 (Update of Active Record: 5 EQs of Process 4178, Status: Changes to Be Executed). Row 20847 is also listed.

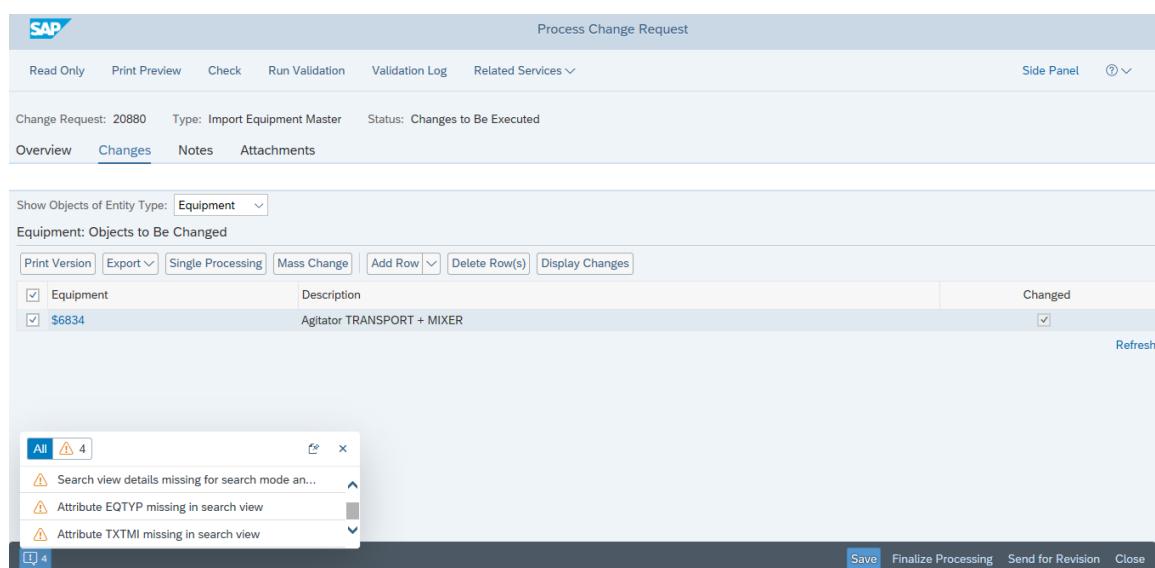
19. Click on Change Request 20880(Creation process).

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.

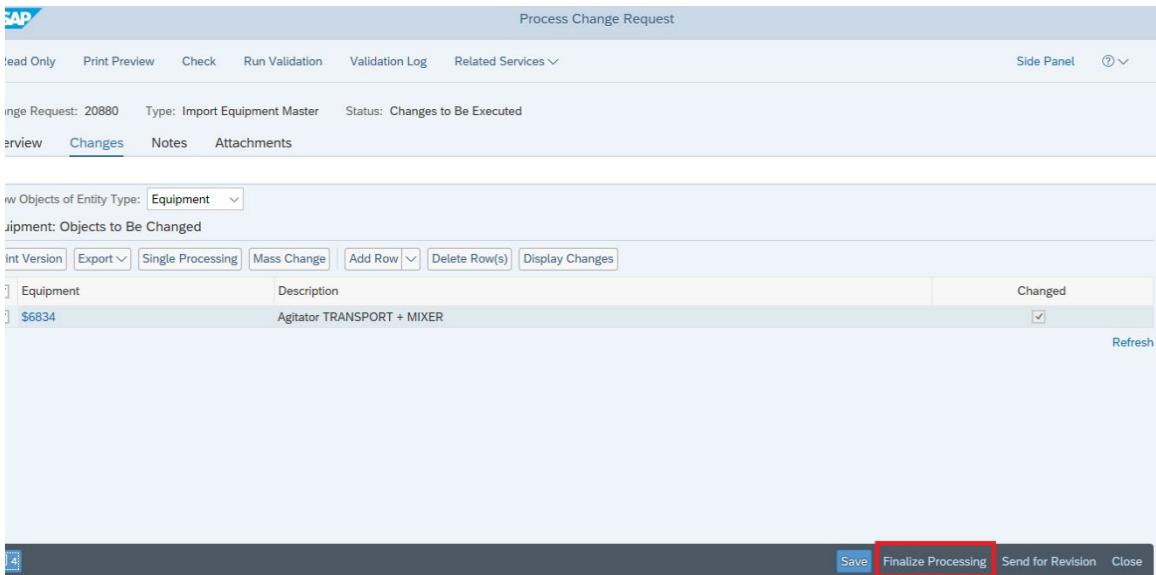


This screenshot shows the 'Process Change Request' page for Change Request 20880. The 'Check' button is highlighted with a red box. The 'Changes' tab is selected. The table below shows changes to equipment objects. Row 20880 has a checked checkbox in the 'Changed' column. A 'Refresh' button is visible at the bottom right of the table.



This screenshot shows the 'Process Change Request' page after performing a validation check. A modal dialog box at the bottom left lists three validation errors: 'Search view details missing for search mode an...', 'Attribute EQTYP missing in search view', and 'Attribute TXTMI missing in search view'. At the bottom right, there are buttons for 'Save', 'Finalize Processing', 'Send for Revision', and 'Close'.

21. Click on “Finalize Processing” button to proceed further.

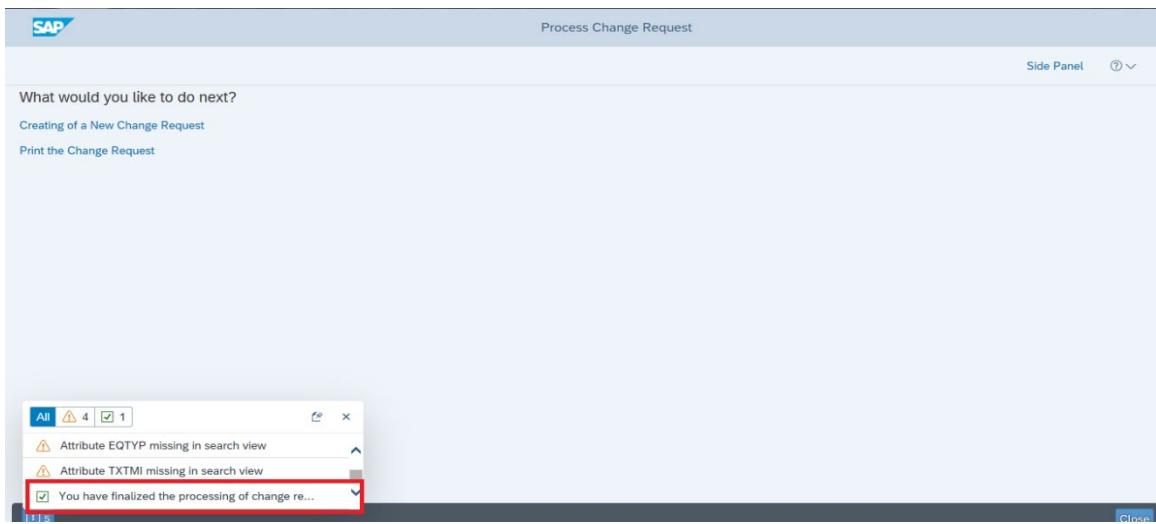


The screenshot shows the SAP Process Change Request interface. At the top, it displays "Process Change Request" and various navigation links like "Read Only", "Print Preview", "Check", "Run Validation", "Validation Log", and "Related Services". The status bar indicates "Change Request: 20880", "Type: Import Equipment Master", and "Status: Changes to Be Executed". Below this, there are tabs for "Overview", "Changes" (which is selected), "Notes", and "Attachments". A search bar says "Show Objects of Entity Type: Equipment". The main area shows a table of changes:

Equipment	Description	Changed
\$6834	Agitator TRANSPORT + MIXER	<input checked="" type="checkbox"/>

At the bottom, there are buttons for "Save", "Finalize Processing" (which is highlighted with a red box), "Send for Revision", and "Close".

A success message appears as "You have finalized the processing of change request XX".

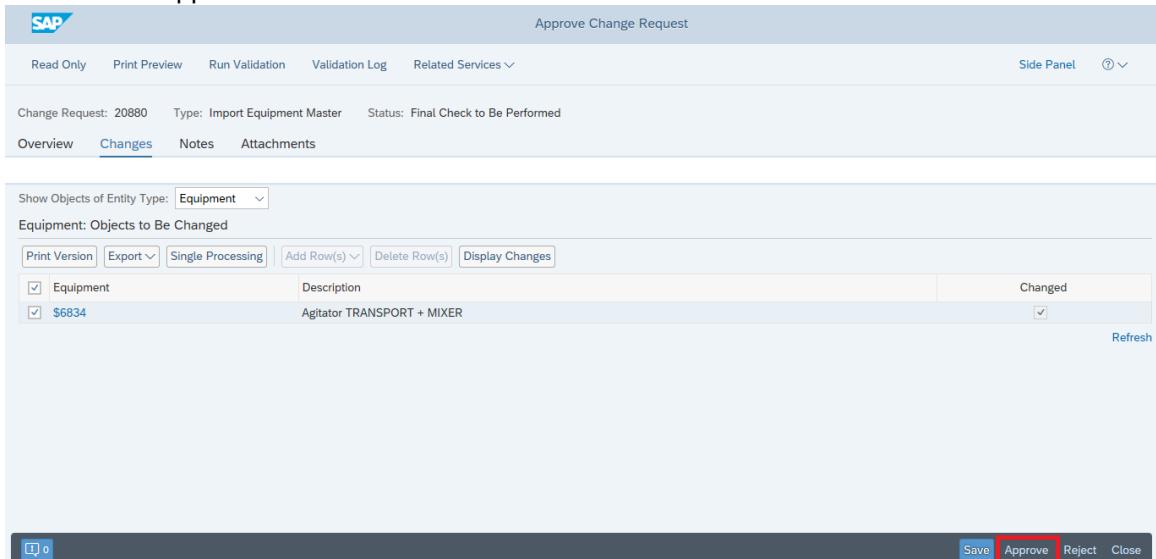


The screenshot shows the SAP Process Change Request interface after finalizing a change request. A modal dialog box is displayed at the bottom, titled "What would you like to do next?". It contains two options: "Creating of a New Change Request" and "Print the Change Request". Below the dialog, a success message is shown in a separate window:

All 4
 Attribute EQTYP missing in search view
 Attribute TXTMI missing in search view
 You have finalized the processing of change re...

The "You have finalized the processing of change re..." message is highlighted with a red box.

22. Click on the “Approve” button.

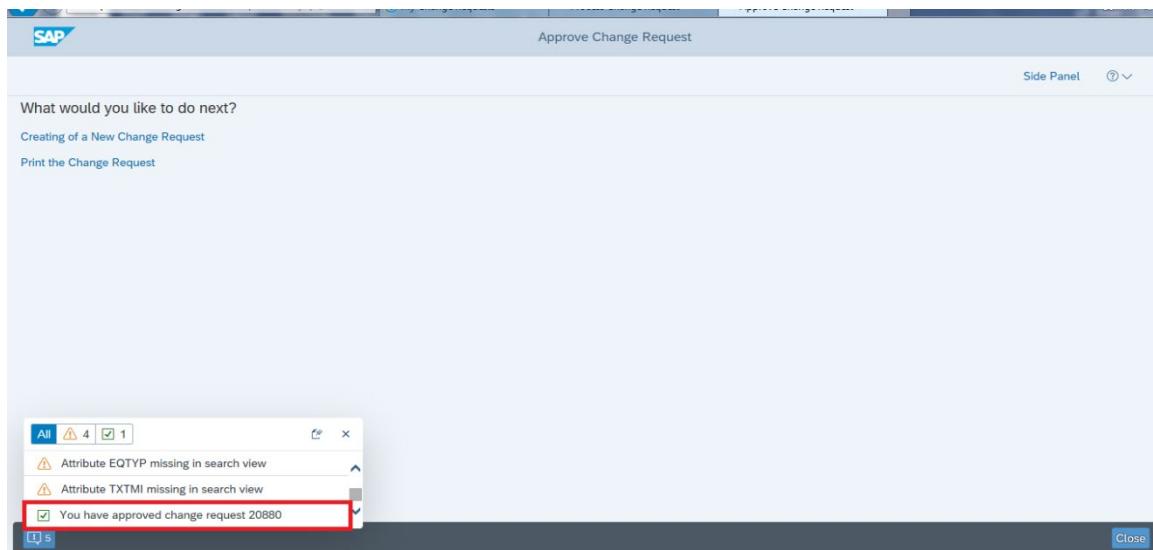


The screenshot shows the SAP Approve Change Request interface. At the top, it displays "Approve Change Request" and various navigation links like "Read Only", "Print Preview", "Run Validation", "Validation Log", and "Related Services". The status bar indicates "Change Request: 20880", "Type: Import Equipment Master", and "Status: Final Check to Be Performed". Below this, there are tabs for "Overview", "Changes" (which is selected), "Notes", and "Attachments". A search bar says "Show Objects of Entity Type: Equipment". The main area shows a table of changes:

Equipment	Description	Changed
\$6834	Agitator TRANSPORT + MIXER	<input checked="" type="checkbox"/>

At the bottom, there are buttons for "Save", "Approve" (which is highlighted with a red box), "Reject", and "Close".

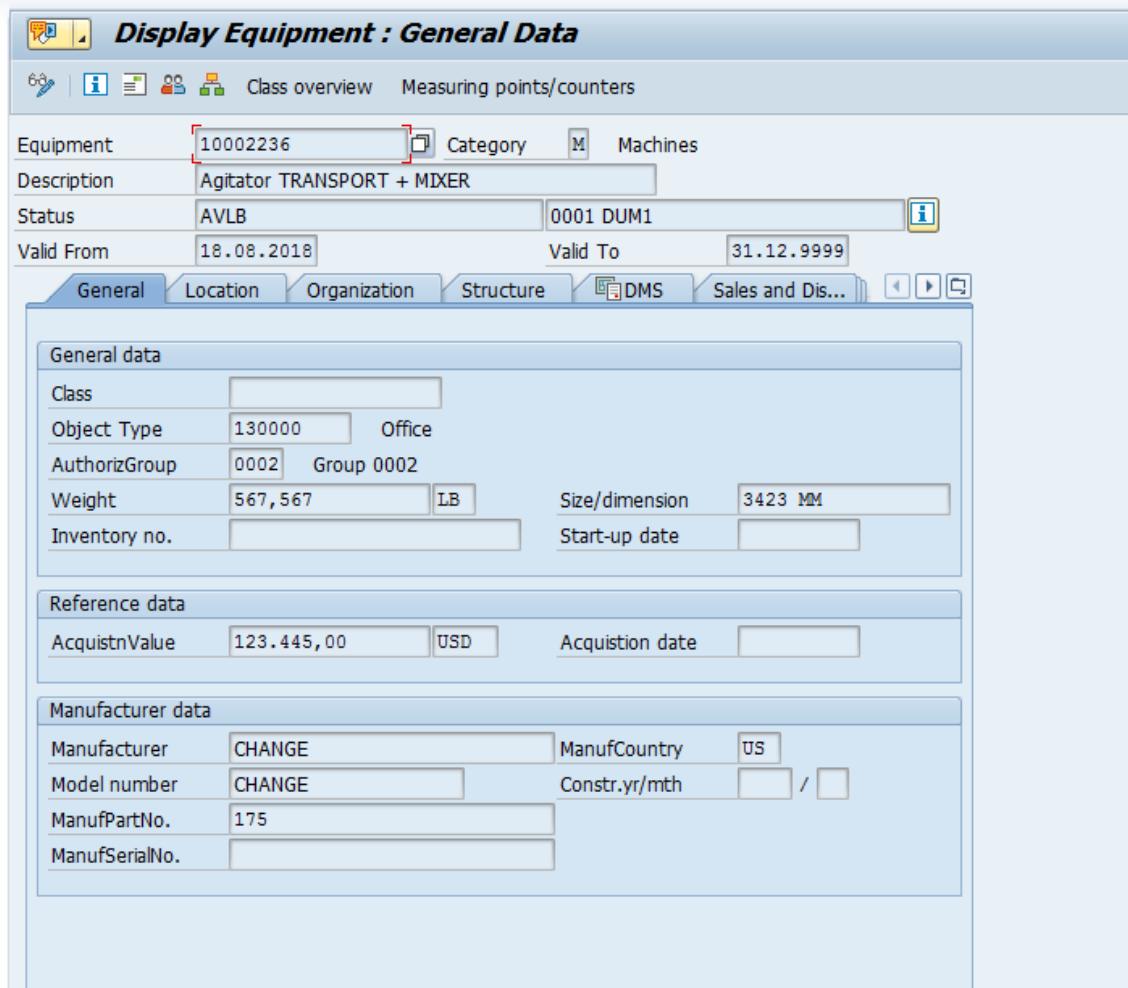
The following success message appears as “You have approved the change request XX”.



23. Verify the status of the change request as “Final Check Approved”.

Change Requests					
View:		Description	Status	Changed On	Type
20880	New Match Group: 000000000020006032		Final Check Approved	18.08.2018	Import Equipment Master

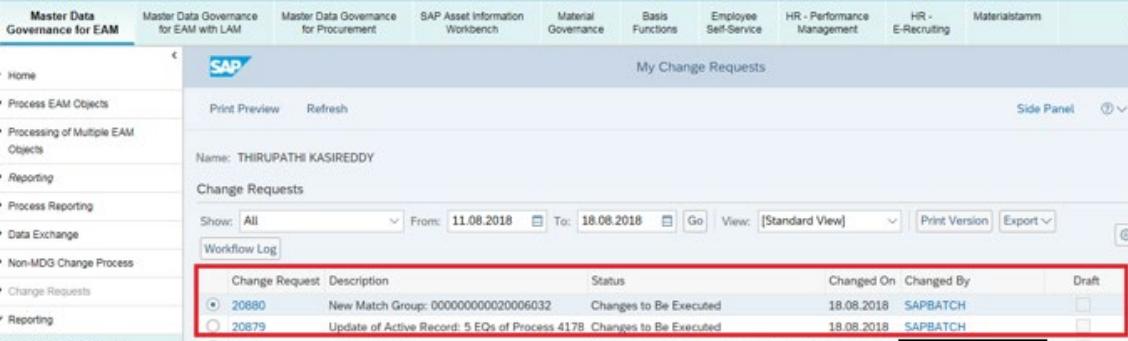
The following screen shows the new record which is created through the Change Request.



The screenshot shows the SAP EAM General Data screen for equipment. Key fields include:

- Equipment:** 10002236 (Category: Machines)
- Description:** Agitator TRANSPORT + MIXER
- Status:** AVL (Status ID: 0001 DUM1)
- Valid From:** 18.08.2018 (Valid To: 31.12.9999)
- General Tab:** Active tabs include General, Location, Organization, Structure, DMS, and Sales and Dis...
- General Data Section:**
 - Class: [empty]
 - Object Type: 130000 (Office)
 - AuthorizGroup: 0002 (Group 0002)
 - Weight: 567,567 (LB)
 - Size/dimension: 3423 MM
 - Inventory no.: [empty]
 - Start-up date: [empty]
- Reference Data Section:**
 - AcquistnValue: 123.445,00 (USD)
 - Acquisition date: [empty]
- Manufacturer Data Section:**
 - Manufacturer: CHANGE
 - ManufCountry: US
 - Model number: CHANGE
 - Constr.yr/mth: [empty] / [empty]
 - ManufPartNo: 175
 - ManufSerialNo: [empty]

24. Click on the Change Request with description starting with text “Update of Active Record...” to view the updated records.

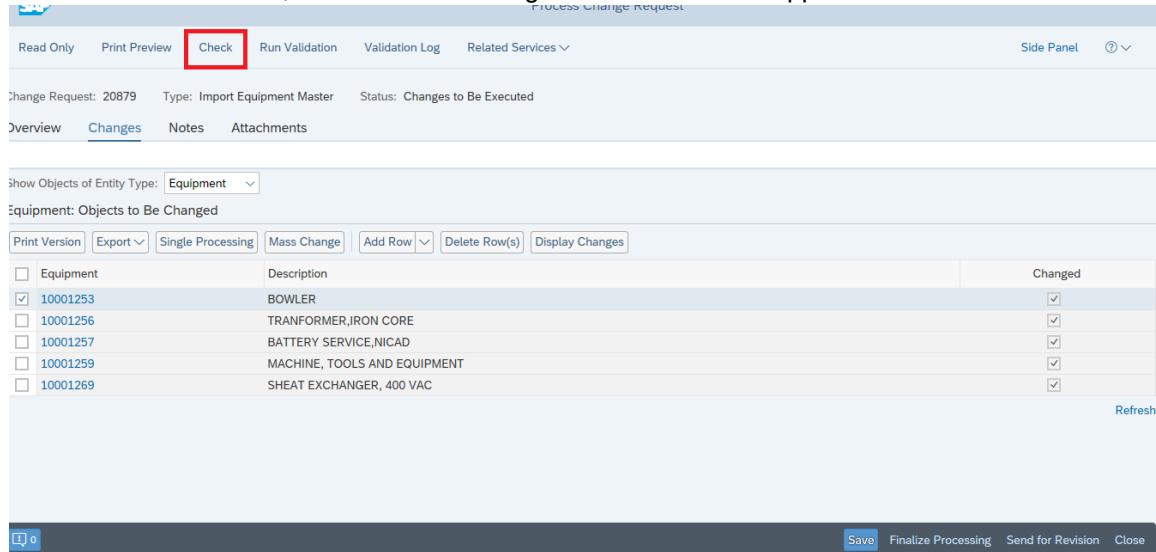


The screenshot shows the SAP Change Requests screen. A specific change request is highlighted:

Change Request	Description	Status	Changed On	Changed By	Draft
20880	New Match Group: 000000000020006032	Changes to Be Executed	18.08.2018	SAPBATCH	<input type="checkbox"/>
20879	Update of Active Record: 5 EQs of Process 4178	Changes to Be Executed	18.08.2018	SAPBATCH	<input type="checkbox"/>
20847	new AIW request	Dependent Data to Be Processed/Approved	18.08.2018	[redacted]	<input type="checkbox"/>

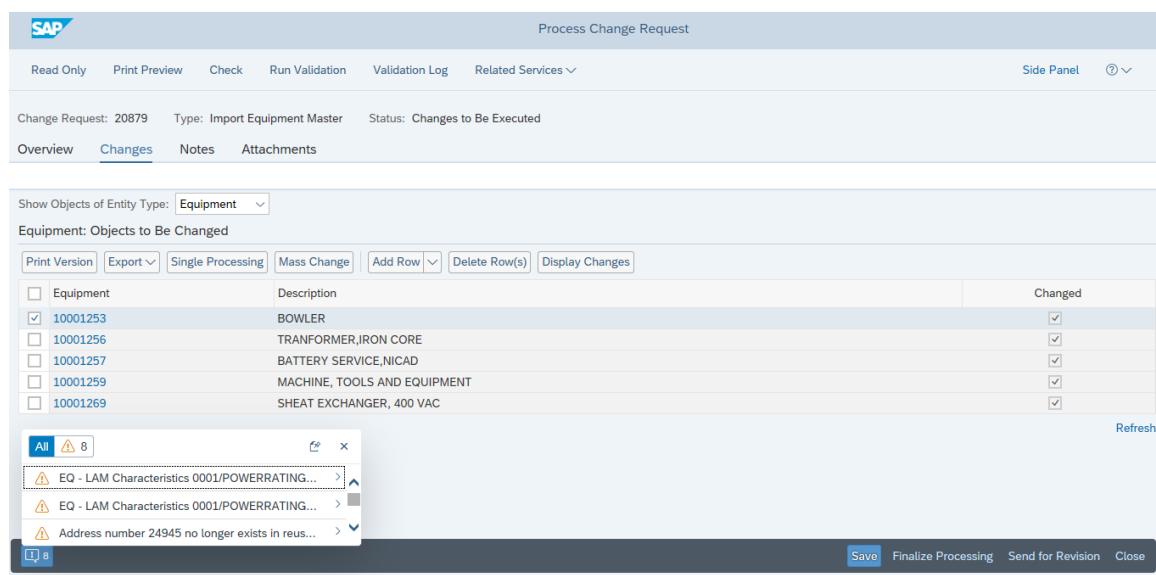
25. Open the Change Request created, click on “Check” button to perform validation.

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



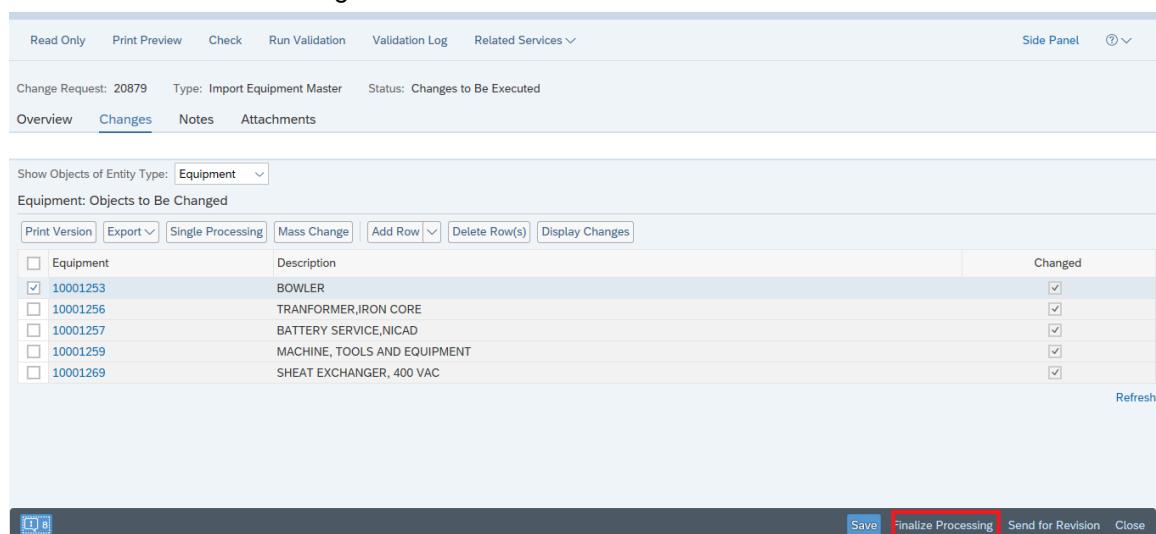
The screenshot shows the SAP Process Change Request interface. The 'Check' button in the top navigation bar is highlighted with a red box. The status bar at the bottom indicates 'Save' and 'Finalize Processing' buttons are available. A modal dialog box is open, displaying a list of validation errors:

All	8
EQ - LAM Characteristics 0001/POWERATING...	>
EQ - LAM Characteristics 0001/POWERATING...	>
Address number 24945 no longer exists in reus...	>



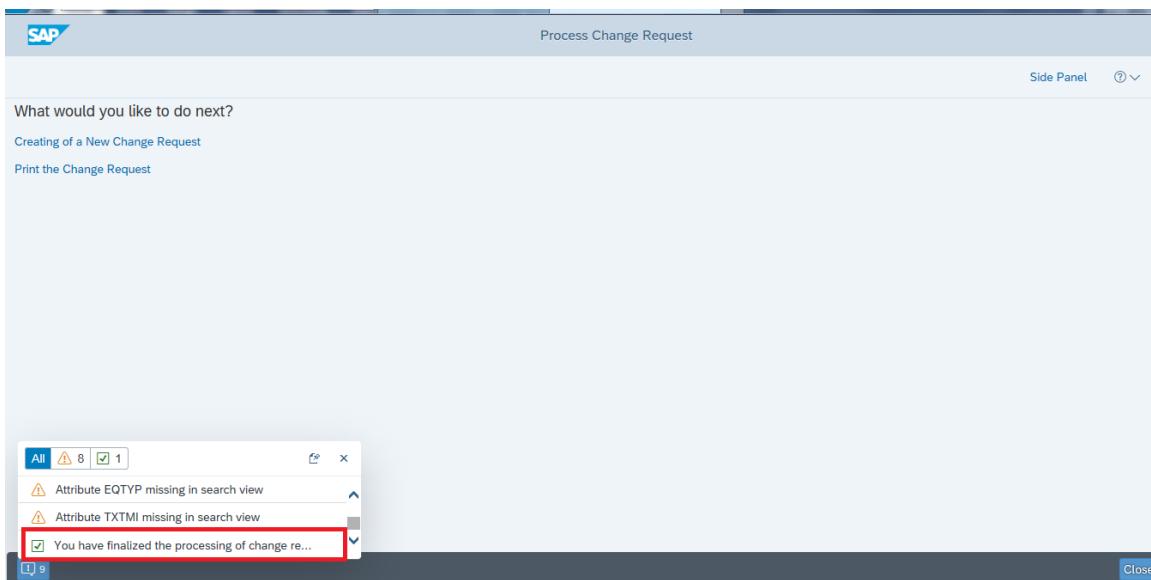
The screenshot shows the SAP Process Change Request interface. The 'Check' button in the top navigation bar is highlighted with a red box. The status bar at the bottom indicates 'Save' and 'Finalize Processing' buttons are available. A modal dialog box is open, displaying a list of validation errors. A yellow warning icon is visible in the top left corner of the main content area.

26. Click on “Finalize Processing” button.

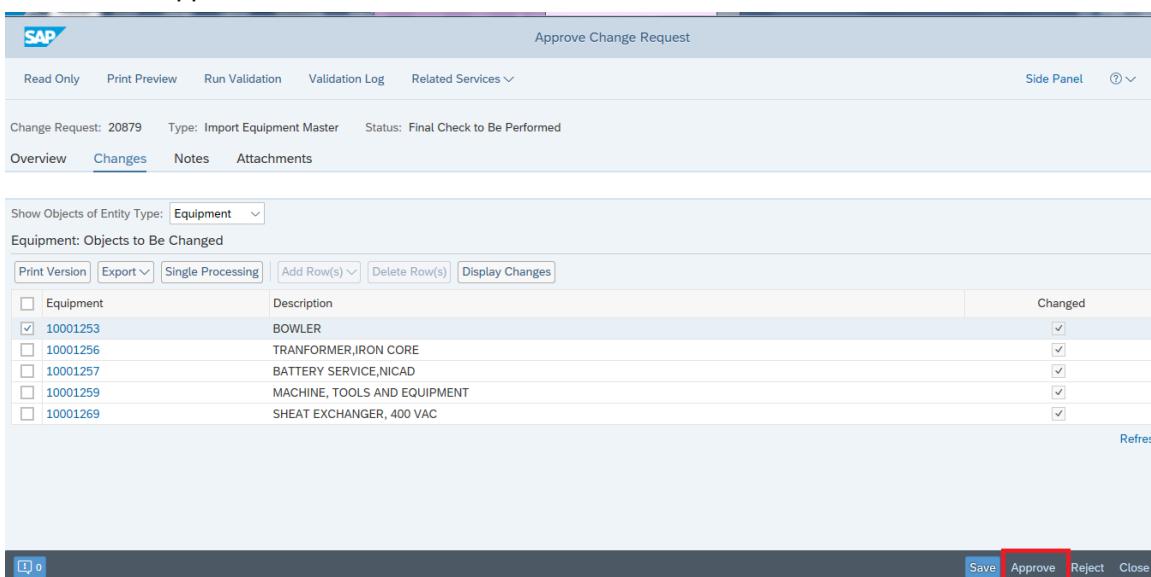


The screenshot shows the SAP Process Change Request interface. The 'Finalize Processing' button in the bottom right corner is highlighted with a red box. The status bar at the bottom indicates 'Save' and 'Finalize Processing' buttons are available.

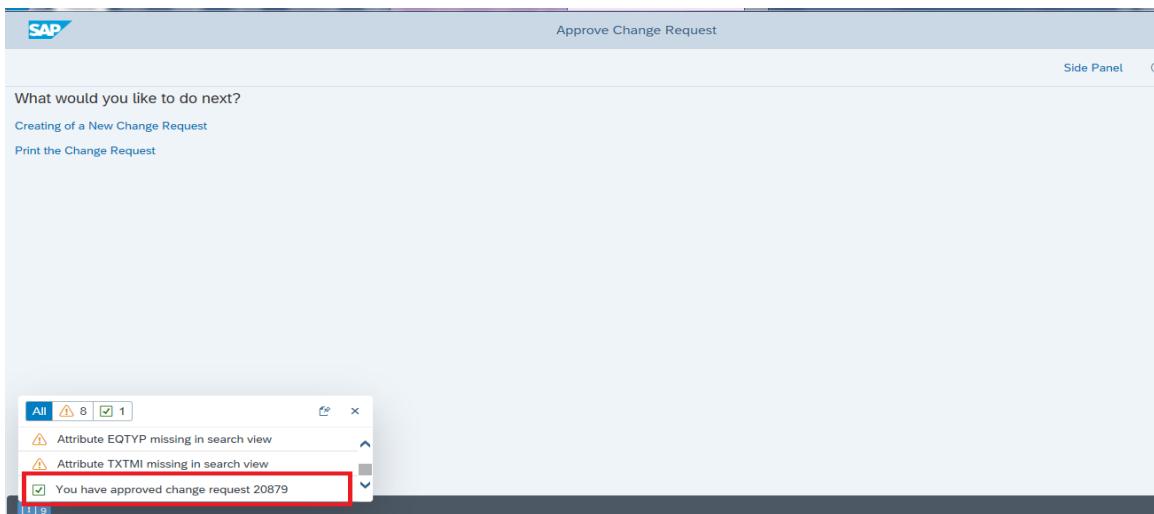
Success message appears as “You have finalized the processing of change request XX”.



27. Click on the “Approve” button.



The following success message appears as “You have approved the change request XX”.



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

Change Requests					
View:		Change Request	Description	Status	Type
<input checked="" type="radio"/>	20879	Update of Active Record: 5 EQs of Process 4178		Final Check Approved	18.08.2018 [REDACTED] Import Equipment Master

29. Run t-code “IE03” and verify that created /updated equipment master data.

Display Equipment : General Data

Equipment 10001256 Category Machines

Description TRANSFORMER,IRON CORE

Status AVLB 0001 DUM1

Valid From 12.06.2018 Valid To 31.12.9999

General Location Organization Structure DMS Sales and Dis...

General data

Class	LAM_CLASS	LAM CLASS
Object Type	2000	EquipType 2000
AuthorizGroup	0001	Group 0001
Weight	567.556	LB
Inventory no.	UTP2349	Start-up date

Reference data

AcquistnValue	123.445,00	USD	Acquisition date
---------------	------------	-----	------------------

Manufacturer data

Manufacturer	EMERSON	ManufCountry	US
Model number	EME265	Constr.yr/mth	/
ManufPartNo.	3996 ST 1.5X2-6		
ManufSerialNo.			

Classification

COMPRESSOR POWER RATING 200 KW

Display Equipment : General Data

Equipment 10000156 Category Machines

Description Equipment1 - bom test

Status AVLB 0001 DUM1

Valid From 08.02.2018 Valid To 31.12.9999

General Location Organization Structure DMS Warranty C

General data

Class			
Object Type			
AuthorizGroup			
Weight	0,000	Size/dimension	555 MM
Inventory no.	UTP2345	Start-up date	

Reference data

AcquistnValue	0,00	Acquisition date
---------------	------	------------------

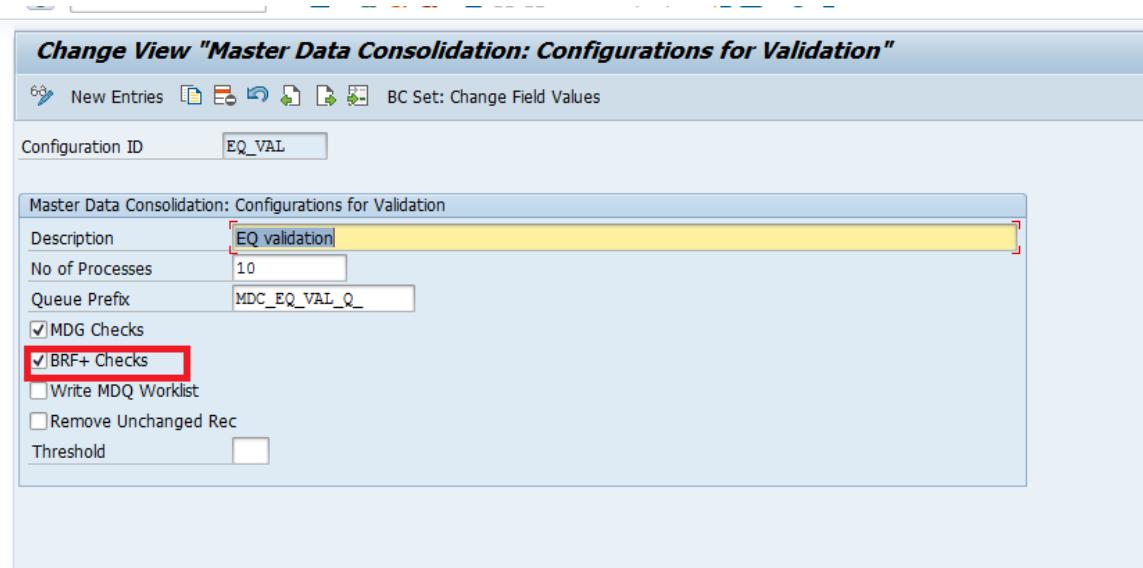
Manufacturer data

Manufacturer	ABC	ManufCountry	IN
Model number	MOD878	Constr.yr/mth	2017 / 12
ManufPartNo.	MPN686		
ManufSerialNo.	MSN578		

Appendix A

You can use the following steps to configure the BRF+ application integrated with validation step in MDC.

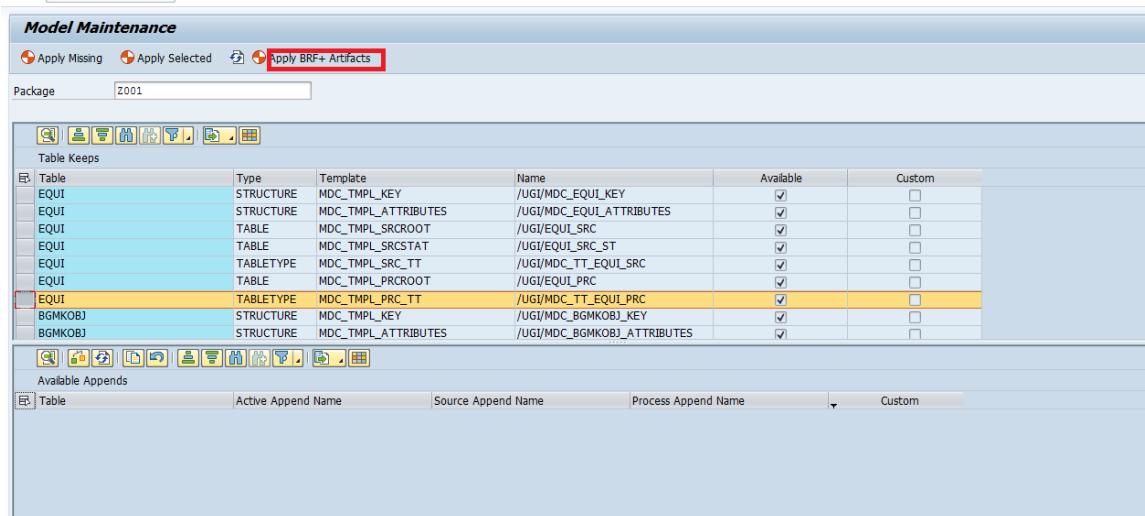
1. Run t-code MDCIMG. Navigate through the customizing path: Master Data Governance, Consolidation and Mass Processing > Configure Validation.
2. Mark the checkbox “BRFplus Checks” as shown in the following screen.



3. Navigate to customizing path: Master Data Governance, Consolidation and Mass Processing > Configure Process Models and Field Properties > Configure Process Models.
4. Select the “BO type” as “183”.
5. Click on the “Resultant Artifacts” column.

Change View "Business Object Type": Overview				
Dialog Structure		Business Object Type		
	Business Object Type	BO Type Description	Namespace	Resultant Artifacts
	1405	Business Partner Relationship		
	147	Business Partner		
	183	Individual Material	/UGI/	
	185	Installation Point	/UGI/	
	194	Material		
	237	Bill of Material	/UGI/	
	MDC_147	Business Partner for Consolidation		
	Z183	Individual Material		

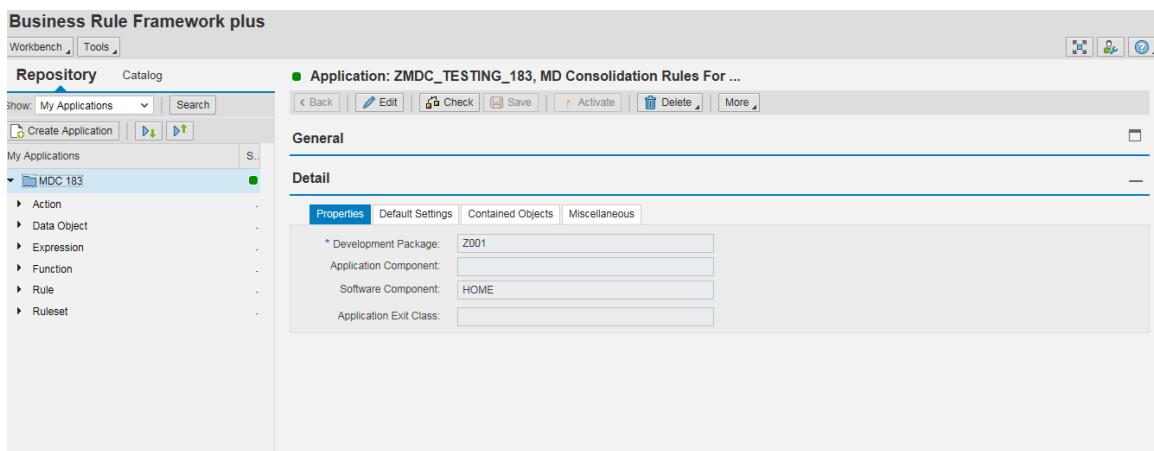
6. Provide the package in customer namespace.
7. Click on “Apply BRF+ Artifacts”. This will generate the BRFplus application with all the required objects used to further define the business rules for data enrichment.



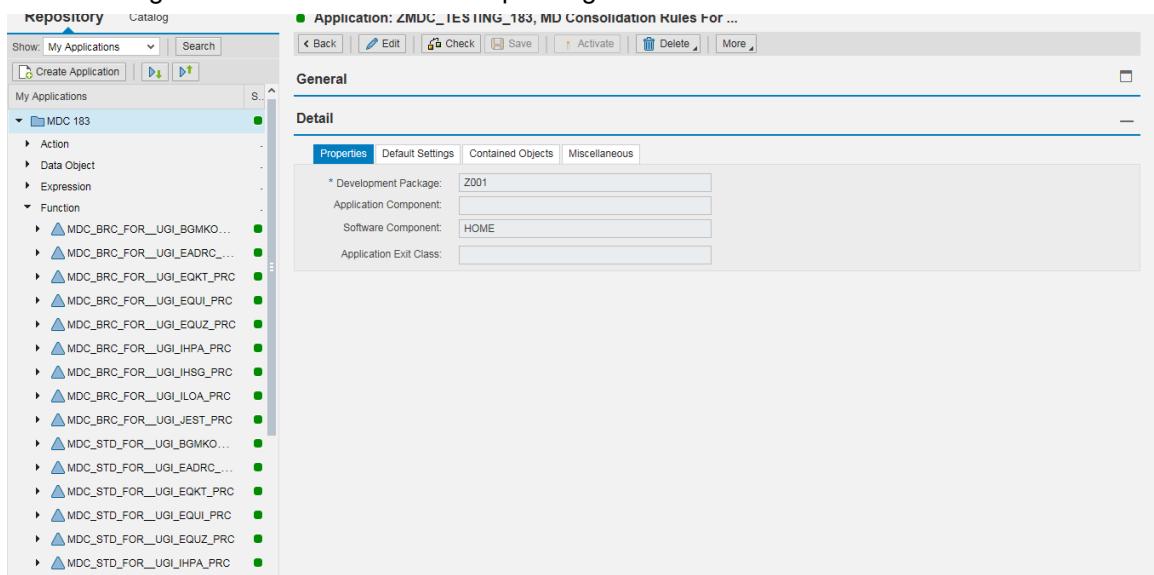
8. Once the artifacts are generated successfully, a pop up appears with the detailed messages.

Error Log		
Type	Name of the column	Message Text
		Created BRF+ application ZMDC_TESTING_183
		Object ZMDC_TESTING_183 successfully activated
		Object ZMDC_TESTING_183 successfully activated
		Object MDC_INITIALIZE_NUMBER successfully activated
		Object MDC_LOG_EXT_ID successfully activated
		Object MDC_VALIDATION_STATUS successfully activated
		Object MDC_TABLE_OF__UGI_EADRC_PRC successfully activated
		Object MDC_VAL_FOR__UGI_EADRC_PRC successfully activated
		Object MDC_STD_FOR__UGI_EADRC_PRC successfully activated
		Object MDC_BRC_FOR__UGI_EADRC_PRC successfully activated
		Object MDC_UPD_FOR__UGI_EADRC_PRC successfully activated
		Object MDC_LOOP_AT__UGI_EADRC_PRC successfully activated
		Object MDC_BEST_OF__UGI_EADRC_PRC successfully activated
		Object MDC_GET_BEST__UGI_EADRC_PRC successfully activated
		Object MDC_TABLE_OF__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_VAL_FOR__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_STD_FOR__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_BRC_FOR__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_UPD_FOR__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_LOOP_AT__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_BEST_OF__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_GET_BEST__UGI_BGMKOBJ_PRC successfully activated
		Object MDC_TABLE_OF__UGI_EQKT_PRC successfully activated
		Object MDC_VAL_FOR__UGI_EQKT_PRC successfully activated
		Object MDC_STD_FOR__UGI_EQKT_PRC successfully activated
		Object MDC_BRC_FOR__UGI_EQKT_PRC successfully activated
		Object MDC_UPD_FOR__UGI_EQKT_PRC successfully activated
		Object MDC_LOOP_AT__UGI_EQKT_PRC successfully activated
		Object MDC_BEST_OF__UGI_EQKT_PRC successfully activated
		Object MDC_GET_BEST__UGI_EQKT_PRC successfully activated
		Object MDC_TABLE_OF__UGI_EQUI_PRC successfully activated
		Object MDC_VAL_FOR__UGI_EQUI_PRC successfully activated
		Object MDC_STD_FOR__UGI_EQUI_PRC successfully activated
		Object MDC_BRC_FOR__UGI_EQUI_PRC successfully activated
		Object MDC_UPD_FOR__UGI_EQUI_PRC successfully activated
		Object MDC_LOOP_AT__UGI_EQUI_PRC successfully activated

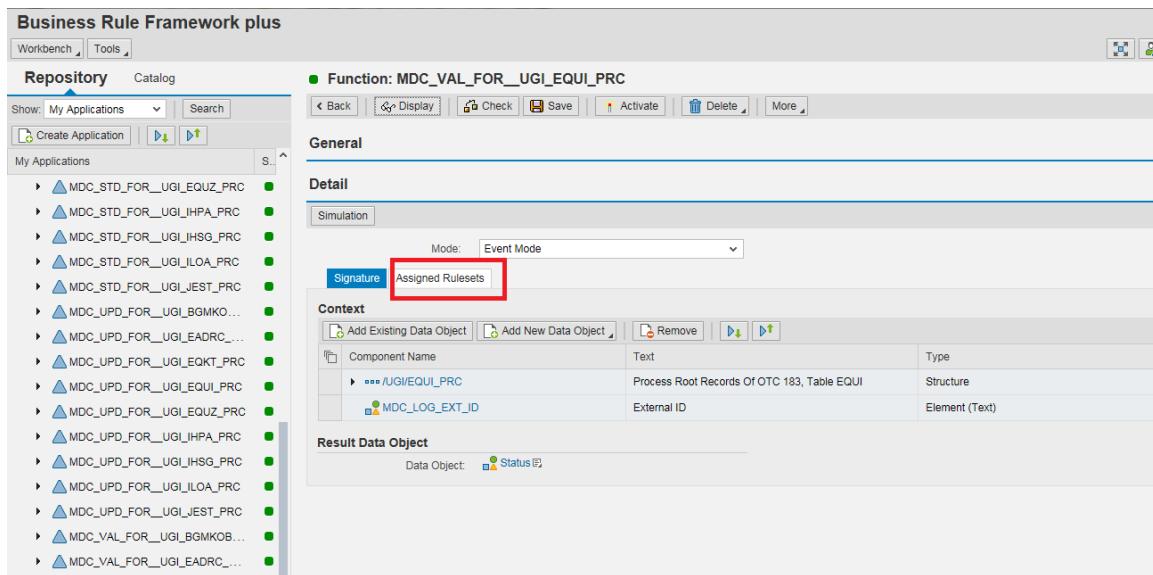
9. Launch t-code BRFplus. Ensure that the following application named “MDC_283” is generated. Each function corresponds to separate table.



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

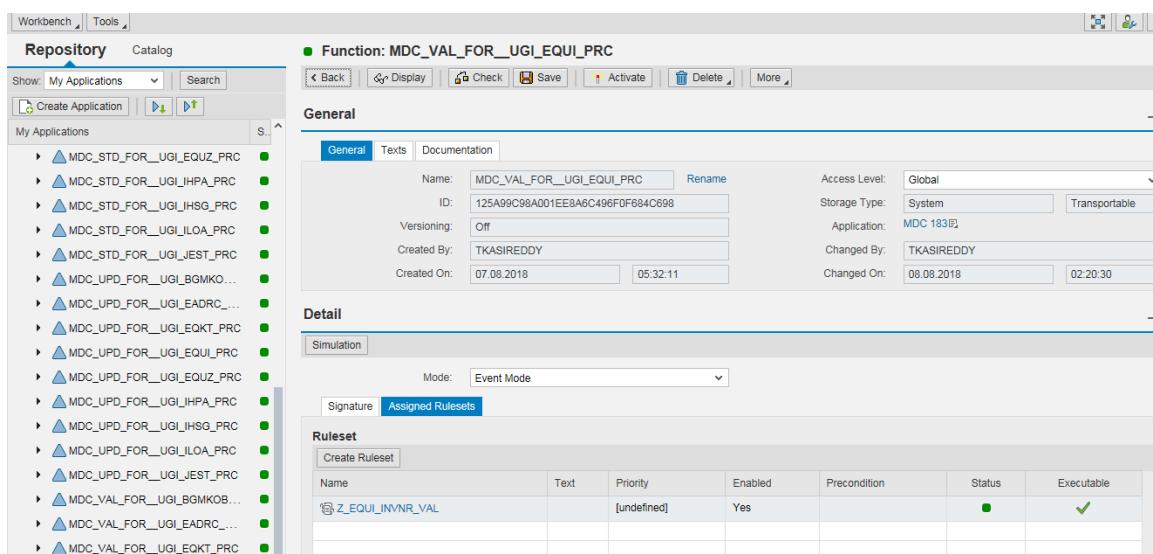


10. Choose any function say “MDC_VAL_FOR_UGI_EQUI_PRC”. Navigate to “Assigned Rulesets” tab. Click on “Create Ruleset” button.
11. Provide the name of the ruleset and description. Save in the transport request.



The ruleset "ZMDC_RVAL_FOR_UGI_EQUI_PRC" is created as below.

12. Click on "Save" button to save the ruleset.
13. Click on "Activate" button to activate the ruleset.



14. Click on "Insert Rule" and define the rule.

The following screen shows a simple rule on the Inventory field to display an error message "Maintain Inventory Number" when the field is not provided.

Create Application

General

Detail

Enabled: Function:  MDC_VAL_FOR_UGI_EQUI_PRC
Precondition: <Not assigned>

Number of Rules: 1
Number of Variables: 0
Priority: 00

Variables

(1) <Not assigned>

Expressions Which Initialize the Variables

(1) <Not assigned>

Rules

Insert Rule | Insert Exit Condition | Options 

Disable Rule (1) Rule: Inventory rule - Unlimited Validity

If  Process ...-Inventory no. is initial
Then
(1) Perform  MSG_EQ_INVNR
(2) Change value of  Status to E (Validation executed with errors)

Show: My Applications Search | Back | Display | Check | Save | Activate | Delete | More

General

Detail

Action | Followup Actions

Refresh Message Placeholders | 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... : 
Persist:

Log Message:

(1) Error Message: Maintain inventory number  