

How-To Guide: Master Data Consolidation and Mass Processing, Master Data Quality for EAM Objects

Applies to

EAM Solutions by Prometheus Group

Summary

Master Data Consolidation and Mass Processing

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, Equipment, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point, respectively.

Master Data Quality

The master data quality function includes a whole array of features to ensure quality standards for master data in the following categories as accuracy, validity, completeness, consistency.

The process steps are allowing to create business rule which would be adapted to your requirements. Apply those rules to the active data records in the system to improve the data quality using MDQ.

Current solution aims at extending the Master data quality solution to the EAM objects i.e., Functional Locations, Equipment, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point, respectively.

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Created On: January 28, 2020

Version: 1.0

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Introduction - Master Data Consolidation and Mass Processing

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. Similarly, ensure adapters should be available to be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

Display View "Master Data Consolidation: Configuration of Adapters": 0			
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	Evaluation	▼ CL_MDQ_RULE_EVALUATION_ADAPTER	MDQ Rule Evaluation Adapter
183	Filter & Remove	▼ CL_MDC_ADAPTER_FAR	Filter and Remove
183	Matching	▼ /UGI/CL_MDC_ADAPTER_EAM_MTC	New SAP HANA fuzzy search
183	Matching	▼ /UGI/CL_MDC_ADAPTER_EQ_MTC	EQ Inventory number Matching
183	Matching	▼ CL_MDC_ADAPTER_FUZZY_MTC	General Task List SAP HANA fuzzy search
183	Matching	▼ CL_MDC_ADAPTER_MTC	New SAP HANA fuzzy search
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 for General Task List
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.

Add the following entry as part of customizing activity for Equipment. Similarly, entries should be added as process templates for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point, respectively.

Display View "Process Template": Overview of Selected Set										
Dialog Structure		Process Template								
Proc Tmpl	Description	BO Type	Description	Process Workflow ...	Name	Process Goal	Default Templ...	Delete Source	Strategy	
U_EQ_EVA	Data Quality Rule Evaluation Equipment	183	Individual Material	WS54500001	MDC Workflow	Data Quality Evalu...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UMASSEQ	MDC : Template Config for EQ Mass update	183	Individual Material	WS54500001	MDC Workflow	Mass Processing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U_EQ_CAB	MDC : Consolidate (Improve Best Record)	183	Individual Material	WS54500001	MDC Workflow	Consolidation of ..	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Improve Best..
U_EQ_CON	MDC : Consolidate Equipment Data	183	Individual Material	WS54500001	MDC Workflow	Consolidation of ..	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
U_EQ_LOA	MDC : Load EQ Data	183	Individual Material	WS54500001	MDC Workflow	Consolidation for ..	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
U_EQ_STD	MDC : Load Data-Testing with STD(EQ)	183	Individual Material	WS54500001	MDC Workflow	Consolidation of ..	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The template should be assigned with steps to be considered while running the consolidation of data. The following " MDC: Load Data-Testing with STD(EQ)" template has 5 steps including the Initial Check, Standardization, Validation, Activation and Replication.

Process Template		U_EQ_STD		MDC : Load Data-Testing with STD(EQ)			
Bus. Obj. Type		183		Individual Material			
Process Template Step							
Step	Step Type	Description	BO Type	Adapter	Config. ID	Check Pt.	Action Control for next step
1	Validation	▼ Intial Check		/UGI/CL_MDC_ADAPTER_EQ_VAL	UEQ_VAL	<input checked="" type="checkbox"/>	No action control
2	Standardization	▼ Standardization		/UGI/CL_MDC_ADAPTER_EQ_KEYMAP		<input checked="" type="checkbox"/>	No action control
3	Validation	▼ Validation		/UGI/CL_MDC_ADAPTER_EQ_VAL	UEQ_VAL	<input checked="" type="checkbox"/>	No action control
4	Activation	▼ Activation		/UGI/CL_MDC_ADAPTER_EQ_ACT	U_ACT_EQ	<input type="checkbox"/>	No action control

The Config ID field as shown in the above screen is defined in the IMG path. Ensure to update other templates for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively as mentioned above with required process steps.

- Validation step can be configured for MDG checks and BRF+ for Equipment, Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point, respectively. Refer [Appendix A](#) for detailed steps to configure the BRF+ checks.

Display View "Master Data Consolidation: Configurations for Validation"							
Master Data Consolidation: Configurations for Validation							
Config. ID	Adapter Config Description	Prefix for Queue Name	Apply DQ Rules	Change Request Checks	BRF+ Check	Worklist	Rmv.Unchg.
UEQ_VAL	EQ validation Config	MDC_EQ_VAL_Q_	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UFBQM_VAL	Functional Location BOM Validation	MDC_FBMQ_VAL_Q_	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UFLOC_VAL	Functional Location Validation Config	MDC_FL_VAL_Q_	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UGNTL_VAL	General Task List validation	MDC_TL_VAL_Q_	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UMBOM_VAL	MBOM validation	MDC_MBOM_VAL_Q_	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UMPLAN_VAL	Maintenance Plan validation	MDC_MPLAN_VAL_Q_	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UMSPT_VAL	Measuring Point validation	MDC_MSPT_VAL_Q_	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UTLEQ_VAL	EquipmentTask List validation	MDC_TLEQ_VAL_Q_	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UTFLF_VAL	Functional Location Task List validation	MDC_TLFL_VAL_Q_	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Display View "Master Data Consolidation: Configurations for Validation"							
Configuration ID							
Master Data Consolidation: Configurations for Validation							
Description	EQ validation Config	Queue Prefix	MDC_EQ_VAL_Q_	Apply Data Quality Rules	<input type="checkbox"/>	Execute Change Request Checks	<input checked="" type="checkbox"/>
No. of Processes	10	BRF+ Checks	<input type="checkbox"/>	Write MDQ Worklist	<input type="checkbox"/>	Remove Unchanged Rec	<input checked="" type="checkbox"/>
Threshold (%)	0	Threshold (%)	<input type="checkbox"/>	Threshold (%)	<input type="checkbox"/>	Threshold (%)	<input type="checkbox"/>

5. The default configuration is “Direct Activation” for all objects. 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.

Display View "Configurations for Activation for EQ": Details

Configuration ID	J_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	EQMAST0B	Max. Reco	10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco	0
Update Records					
Activation Target for Updated Records	Activation of Best Record with Change Request	Type of Chg. Request	EQMAST0B	Max. Reco	10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco	0
Match Group					
Activation Target for Match Groups	Activation of Best Record with Change Request	Type of Chg. Request	EQMAST0B	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					
Retention Time					
Retention Days	0	Ret. Time (Hours)	0	Ret. Time (Minutes)	0

Above mentioned Configuration is for Equipment. Similarly, need to maintain the configuration for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point, respectively.

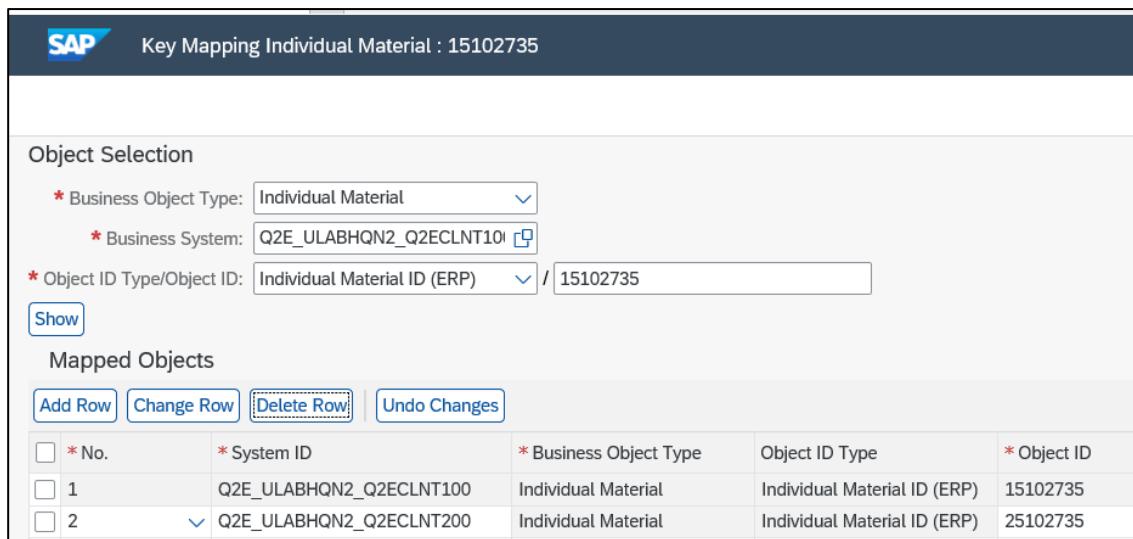
Mass Consolidation

Prerequisites

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

To check the key mapping scenario, navigate to the t-code MDG_KM_MAINTAIN and maintain the key mapping between the equipment from source system provided in the spreadsheet and the equipment which exists in the target system. Similarly, Key mapping should maintain for respective objects for which mass create is going to be processed.

The following screen depicts the key mapping maintained when the consolidation process is to be performed on the system Q2E_ULABHQN2_Q2ECLNT100 and the source system for file import is Q2E_ULABHQN2_Q2ECLNT200.



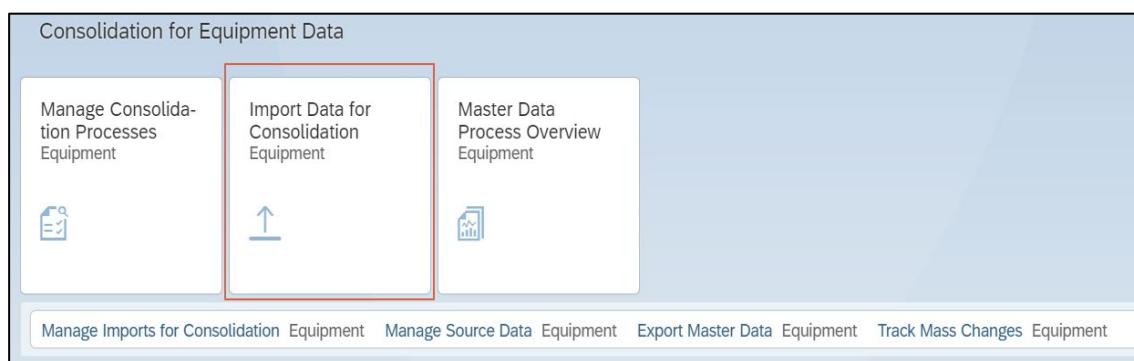
The screenshot shows the SAP Fiori Key Mapping Individual Material interface. At the top, it displays "Key Mapping Individual Material : 15102735". Below this, the "Object Selection" section includes fields for Business Object Type (Individual Material), Business System (Q2E_ULABHQN2_Q2ECLNT101), and Object ID Type/Object ID (Individual Material ID (ERP) / 15102735). A "Show" button is also present. The "Mapped Objects" section contains a table with two rows:

* No.	* System ID	* Business Object Type	Object ID Type	* Object ID
1	Q2E_ULABHQN2_Q2ECLNT100	Individual Material	Individual Material ID (ERP)	15102735
2	Q2E_ULABHQN2_Q2ECLNT200	Individual Material	Individual Material ID (ERP)	25102735

Perform Mass Consolidation

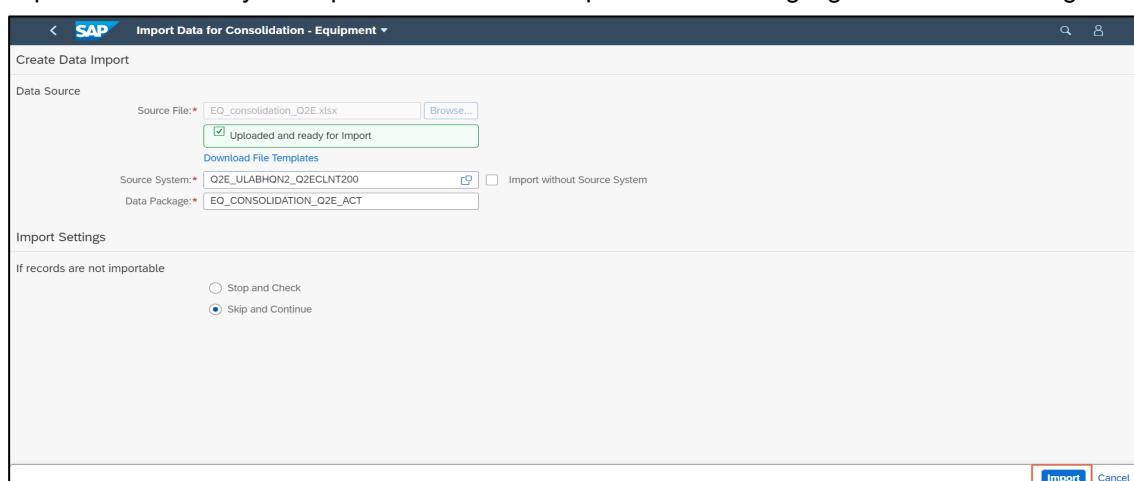
Use the following steps to perform the mass create for equipment using MDC as described below. Similar steps can be followed for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point as well.

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



The screenshot shows the SAP Fiori launchpad with the "Import Data for Consolidation - Equipment" option highlighted with a red box. Other options include "Manage Consolidation Processes Equipment" and "Master Data Process Overview Equipment". Below the cards are navigation links: "Manage Imports for Consolidation Equipment", "Manage Source Data Equipment", "Export Master Data Equipment", and "Track Mass Changes 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.

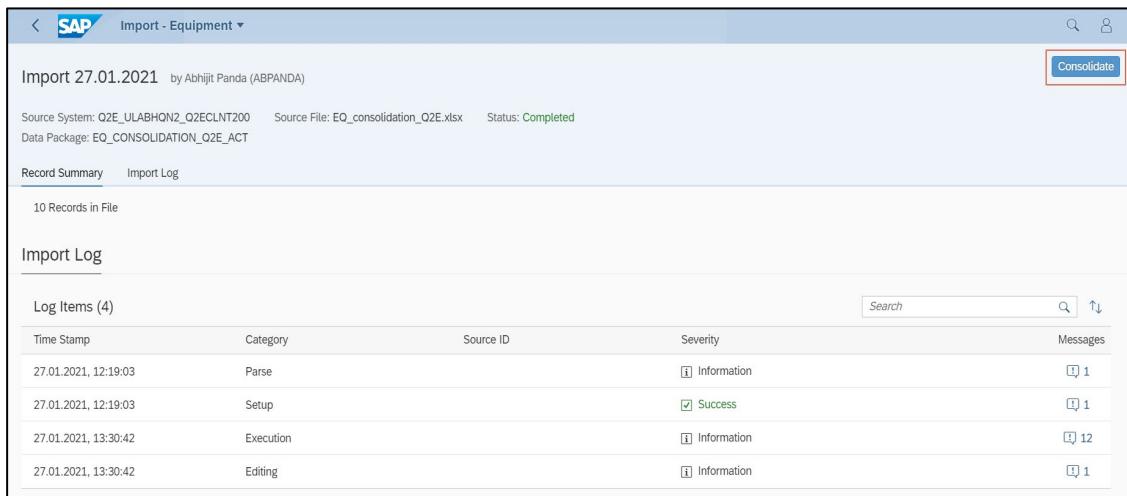


The screenshot shows the "Import Data for Consolidation - Equipment" dialog box. It includes sections for "Create Data Import", "Data Source" (with "Source File" set to "EQ_consolidation_Q2E.xlsx" and "Upload and ready for Import" checked), "Import Settings" (with "If records are not importable" set to "Skip and Continue"), and a bottom row with "Import" and "Cancel" buttons. The "Import" button is highlighted with a red box.

i 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.



The screenshot shows the SAP Import - Equipment interface. At the top, it displays "Import 27.01.2021 by Abhijit Panda (ABPANDA)". Below this, it shows "Source System: Q2E_ULABHQN2_Q2ECLNT200", "Source File: EQ_consolidation_Q2E.xlsx", and "Status: Completed". A "Data Package: EQ_CONSOLIDATION_Q2E_ACT" is also listed. There are two tabs at the bottom: "Record Summary" and "Import Log". The "Import Log" tab is selected, showing "10 Records In File". Below this is a table titled "Import Log" with "Log Items (4)". The table has columns for "Time Stamp", "Category", "Source ID", "Severity", and "Messages". The log items are:

Time Stamp	Category	Source ID	Severity	Messages
27.01.2021, 12:19:03	Parse		Information	1
27.01.2021, 12:19:03	Setup		Success	1
27.01.2021, 13:30:42	Execution		Information	12
27.01.2021, 13:30:42	Editing		Information	1

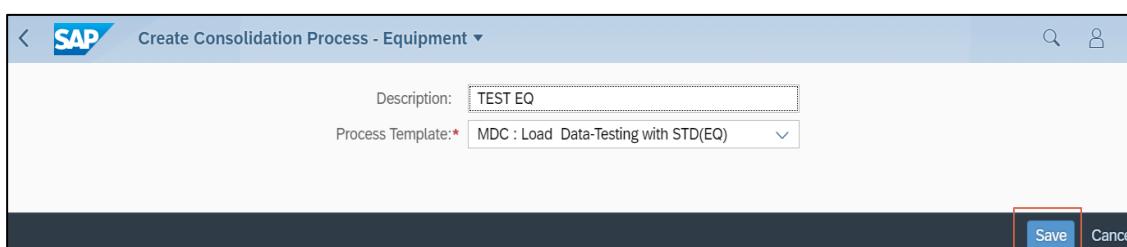
i Note

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



The screenshot shows the "Consolidation for Equipment Data" launch pad. It features three main options: "Manage Consolidation Processes Equipment", "Import Data for Consolidation Equipment", and "Master Data Process Overview Equipment". Below these options are several smaller links: "Manage Imports for Consolidation Equipment", "Manage Source Data Equipment", "Export Master Data Equipment", and "Track Mass Changes Equipment".

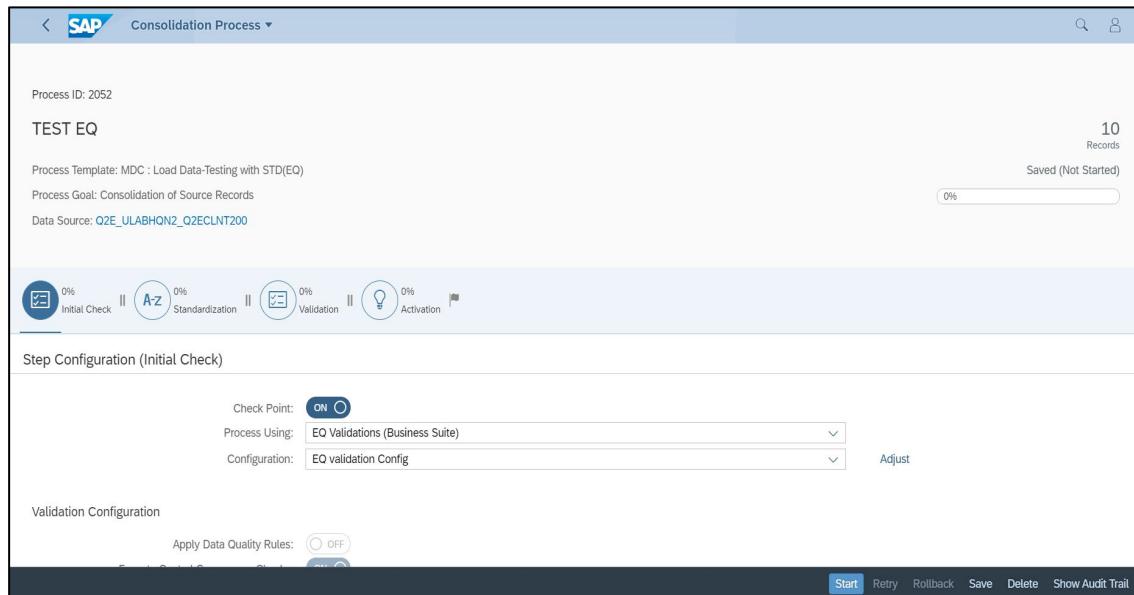
4. On the “Create Consolidation Process – Equipment” screen provide the description text and the choose the process template from the dropdown.
5. Click on “Save” button.



The screenshot shows the "Create Consolidation Process - Equipment" dialog box. It includes fields for "Description" (containing "TEST EQ") and "Process Template:" (set to "MDC : Load Data-Testing with STD(EQ)"). At the bottom, there are "Save" and "Cancel" buttons, with "Save" highlighted with a red box.

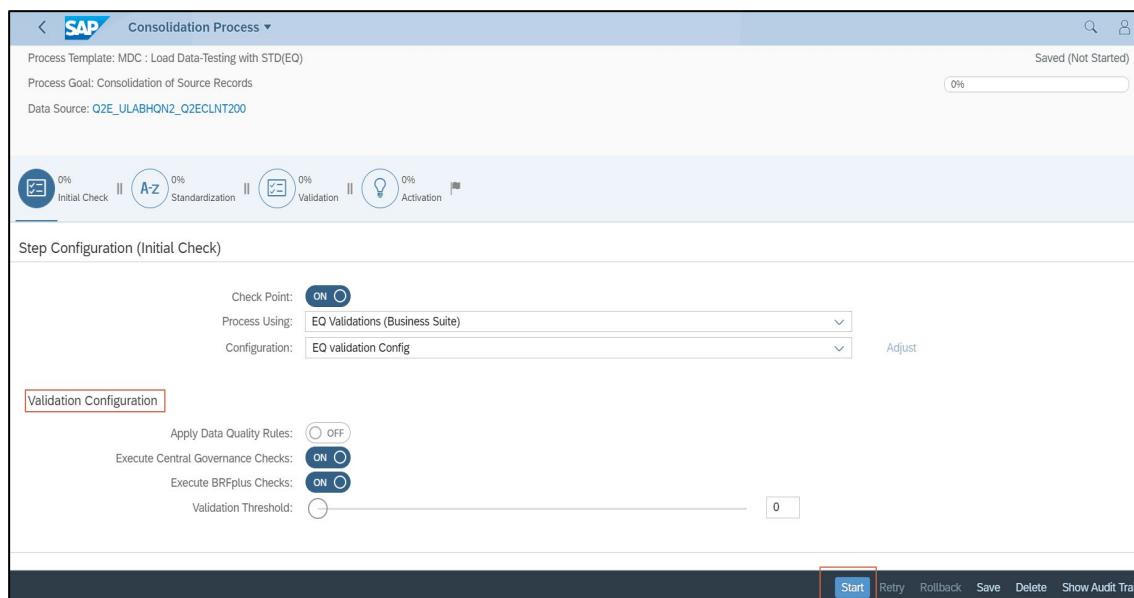
This launches a new process ID in MDC. All the steps configured as part of the template appear in the sequential way. Click on “Start” button to trigger the processing.

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



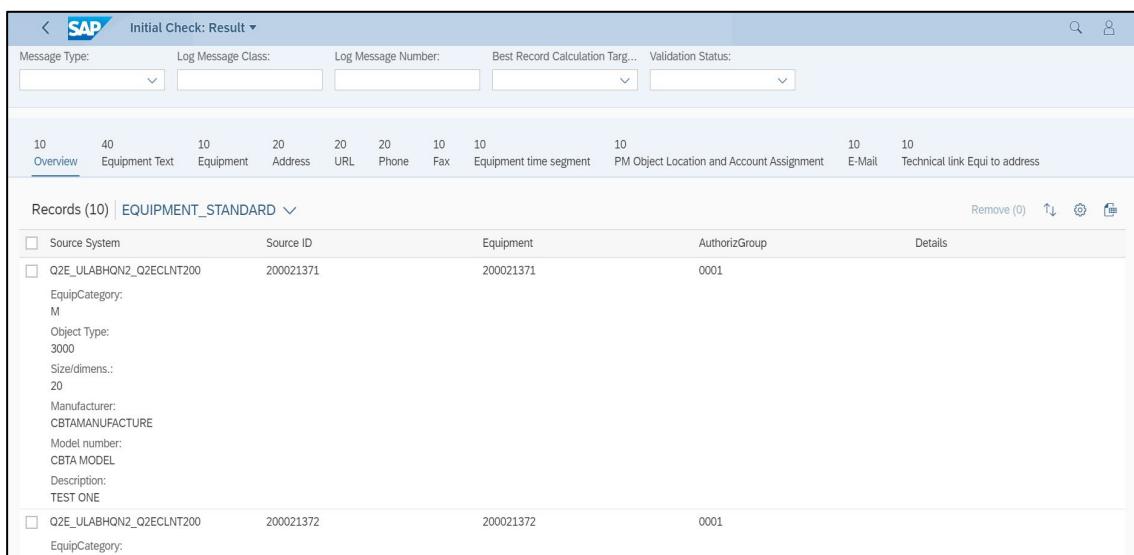
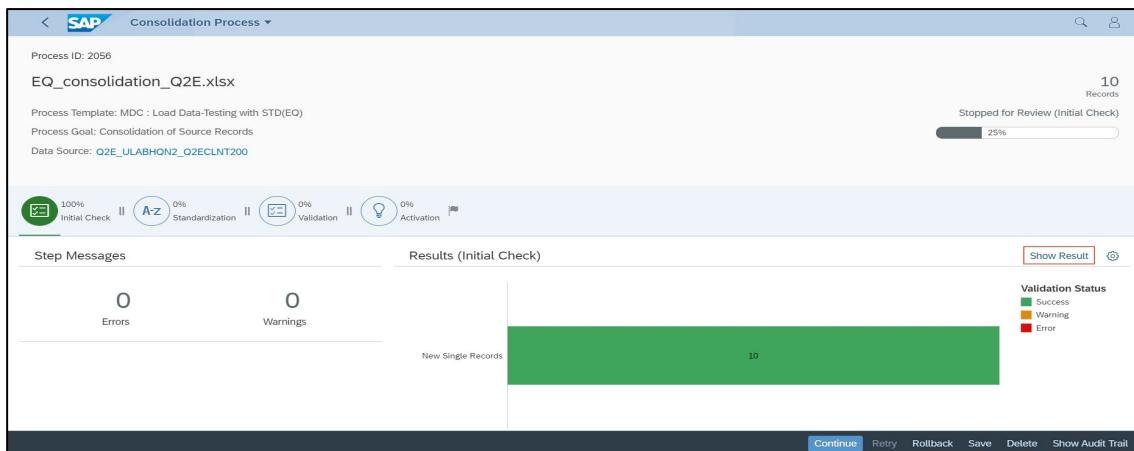
Validation step can also be configured along with MDG checks and BRFplus checks. This in turn calls the USMD_RULE_SERVICE BAdI in case MDG checks are configured. BRFplus validation rules and derivations can be configured for incorporating business logic.

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



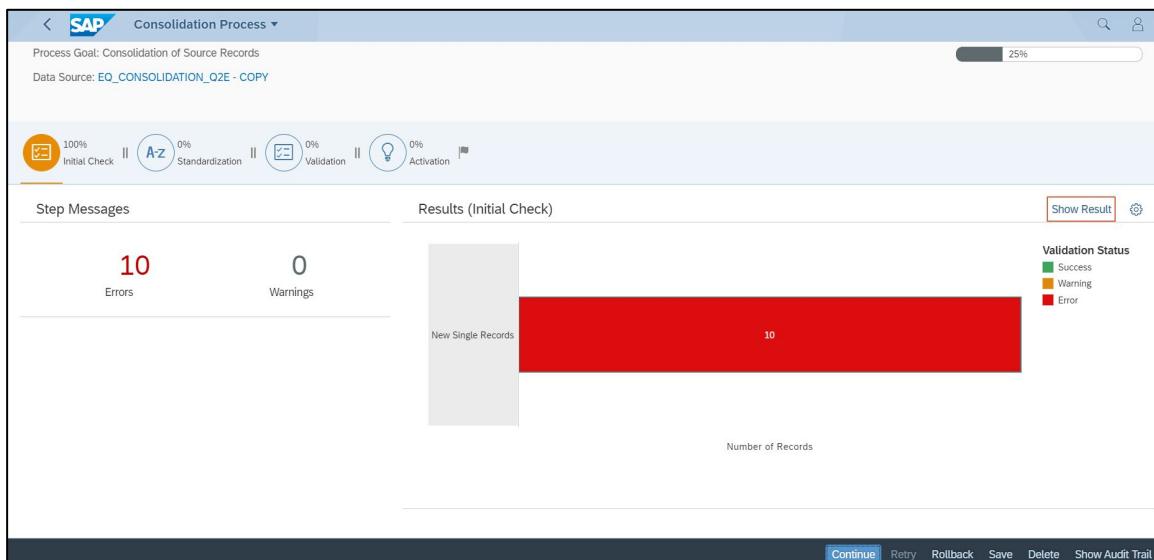
Once the process is started, it runs the first step configured in the process template i.e. Initial Check in this case. The validation status of the records is presented in the graphical format as below. Error records are marked in red color, success records are marked green and warning records are marked in yellow color.

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



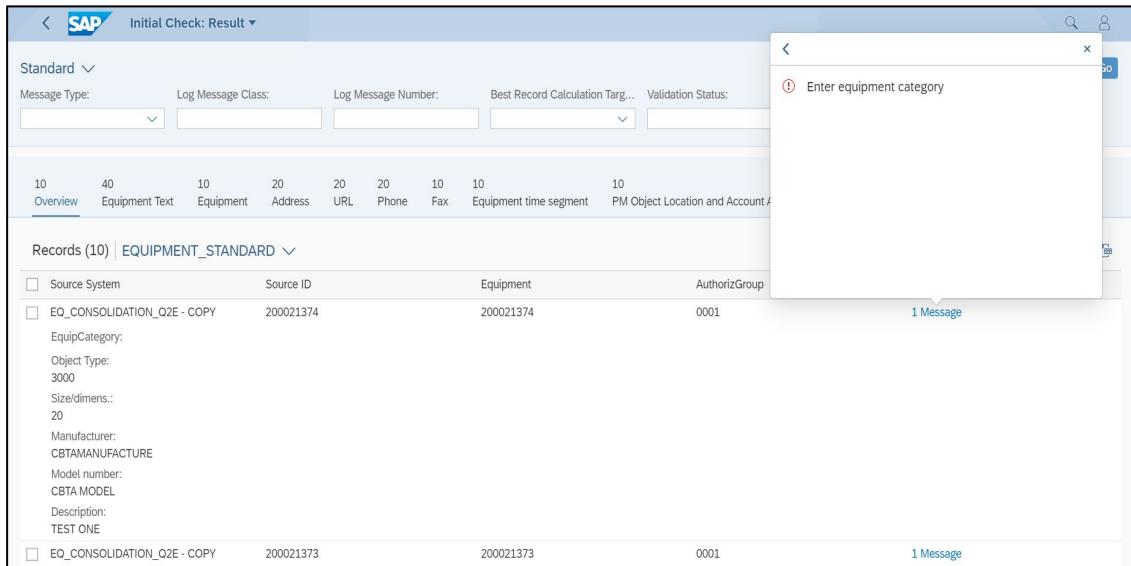
Note

To locate the erroneous records if any, click on the link “Show Result” as highlighted in the following screen.



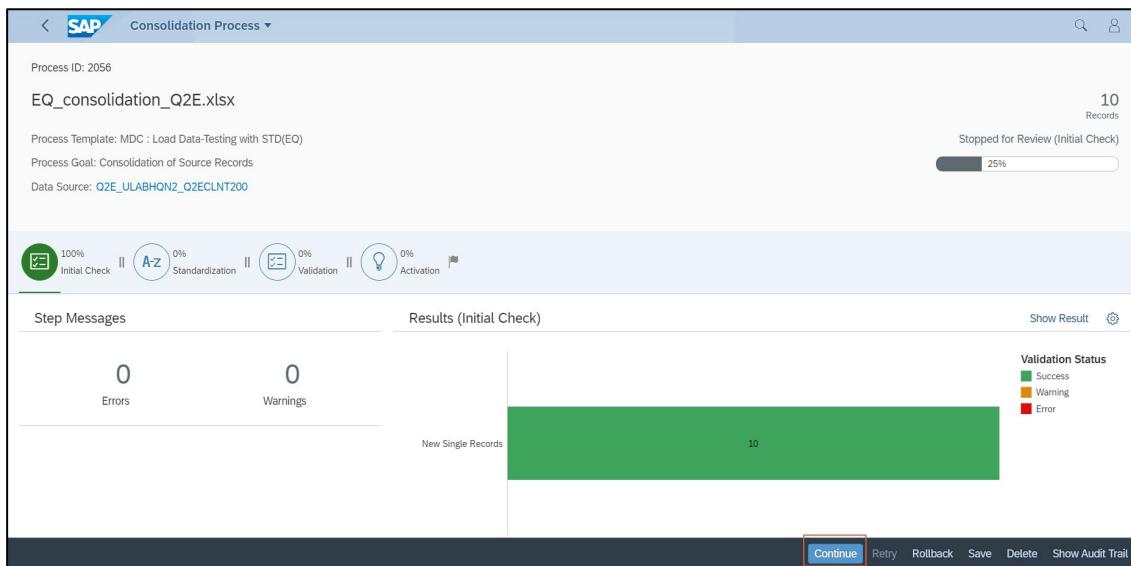
The messages are mapped to the “Details” column of the Overview tab.

6. Expand the list to view the messages.



The screenshot shows the SAP Initial Check: Result interface. On the left, there's a search bar and filter options for 'Message Type' (Standard), 'Log Message Class' (e.g., Equipment Text), 'Log Message Number', 'Best Record Calculation Target', and 'Validation Status'. Below these are columns for 'Overview', 'Equipment Text', 'Equipment', 'Address', 'URL', 'Phone', 'Fax', 'Equipment time segment', and 'PM Object Location and Account'. A message box on the right displays a warning: 'Enter equipment category'. The main area shows two records under 'EQ_CONsolidation_Q2E - COPY'. The first record has a Source System of 'EQ_CONsolidation_Q2E - COPY', Source ID '200021374', Equipment '200021374', and AuthorizGroup '0001'. The second record has a Source System of 'EQ_CONsolidation_Q2E - COPY', Source ID '200021373', Equipment '200021373', and AuthorizGroup '0001'. Both records show '1 Message'.

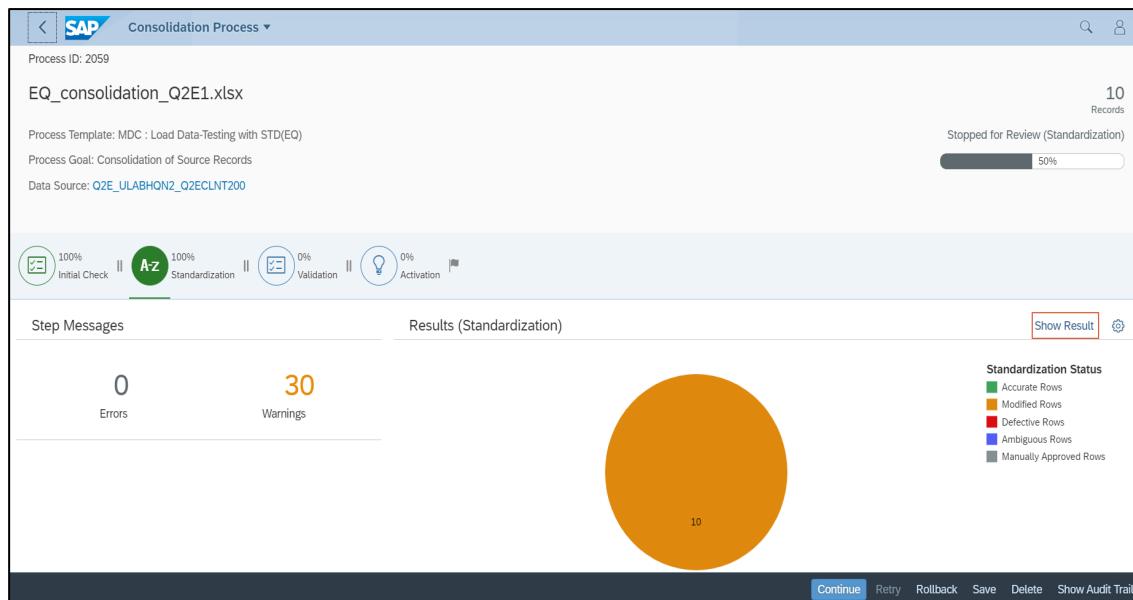
7. Click on the “Continue” button to proceed to the next step.



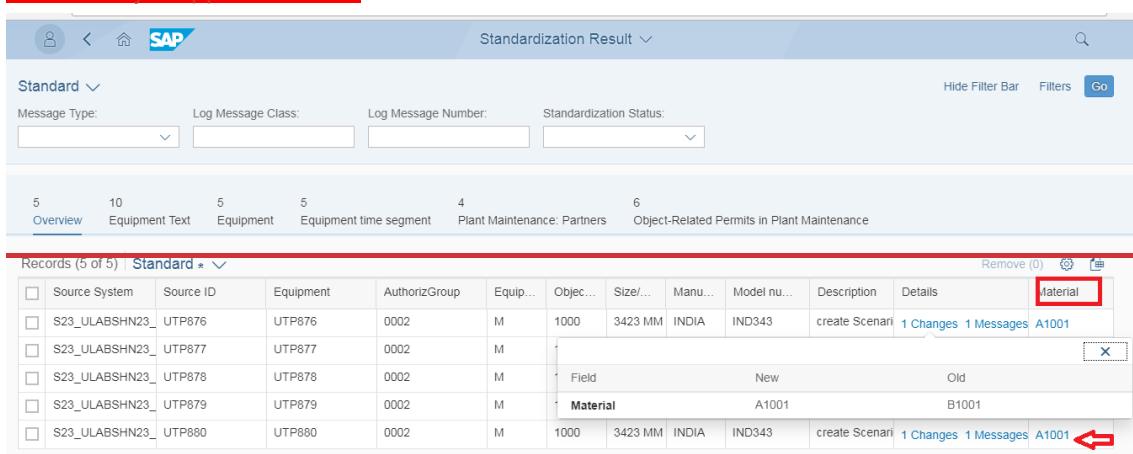
The screenshot shows the SAP Consolidation Process interface for process ID 2056. It displays the file 'EQ_consolidation_Q2E.xlsx' and the template 'MDC : Load Data-Testing with STD(EQ)'. The goal is 'Consolidation of Source Records' and the data source is 'Q2E_ULABHON2_Q2ECLNT200'. The progress bar indicates 25% completion with 10 records. Below, a timeline shows four steps: 'Initial Check' (100%), 'Standardization' (0%), 'Validation' (0%), and 'Activation' (0%). The 'Step Messages' section shows 0 Errors and 0 Warnings. The 'Results (Initial Check)' section shows a green bar for 'New Single Records' with a value of 10. The bottom navigation bar includes 'Continue' (highlighted in red), 'Retry', 'Rollback', 'Save', 'Delete', and 'Show Audit Trail'.

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

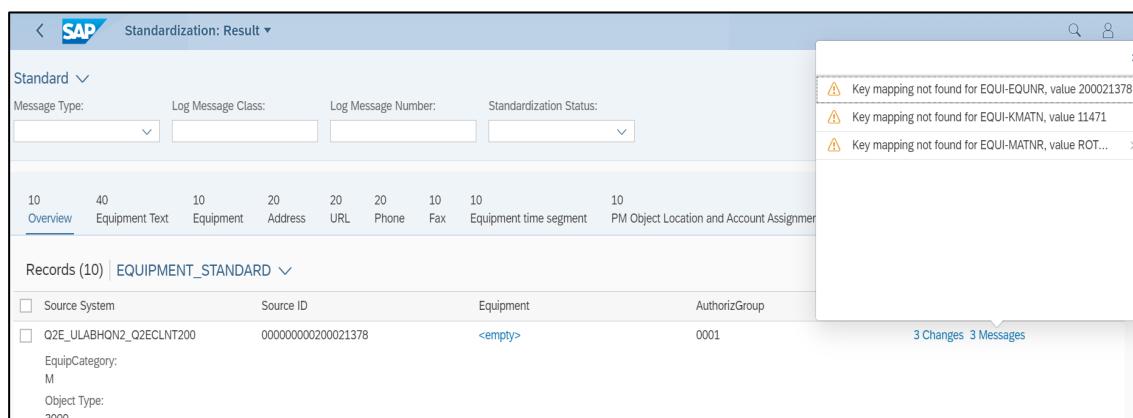
Click on the “Show Result” to view the detailed result messages under the Details column of the Overview tab.



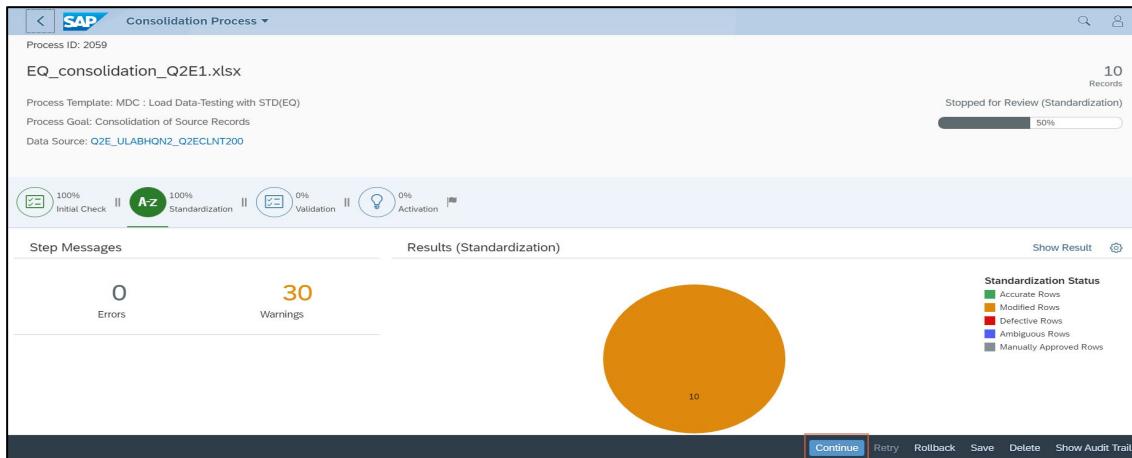
The highlighted arrow mark in the following screen displays that the material key has been replaced with the key mapped material.



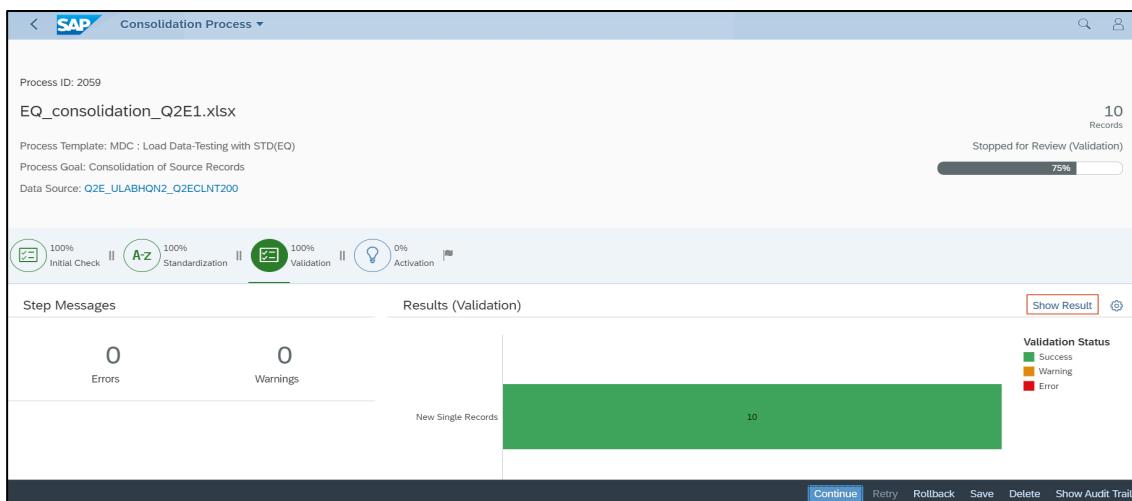
Warning messages for the fields for which the key mapping is not maintained. The status is displayed in the graph.



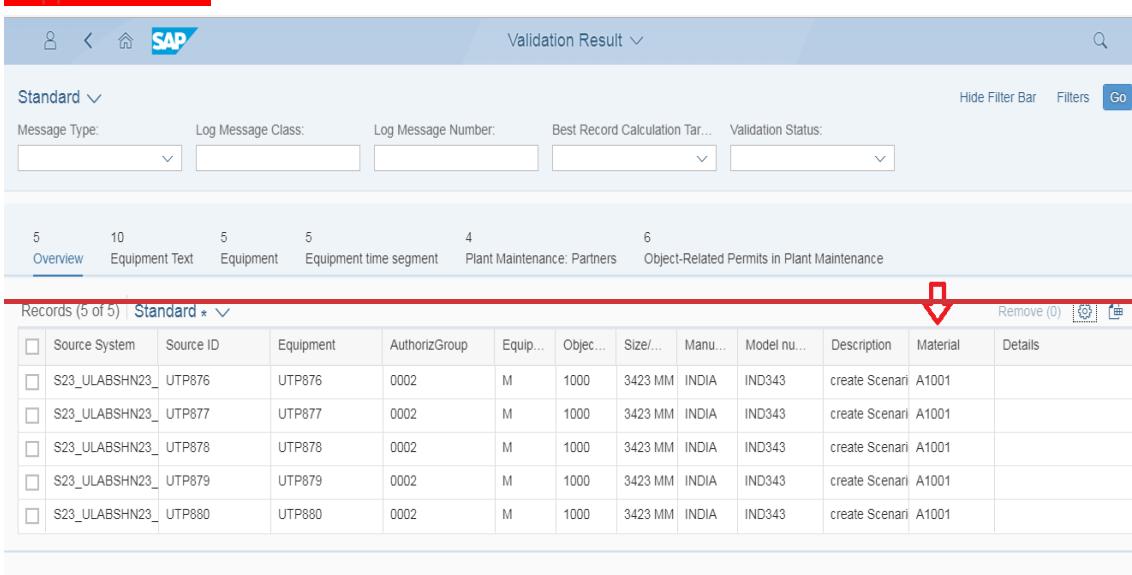
9. Click on the “Continue” button to proceed to the next step.



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



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



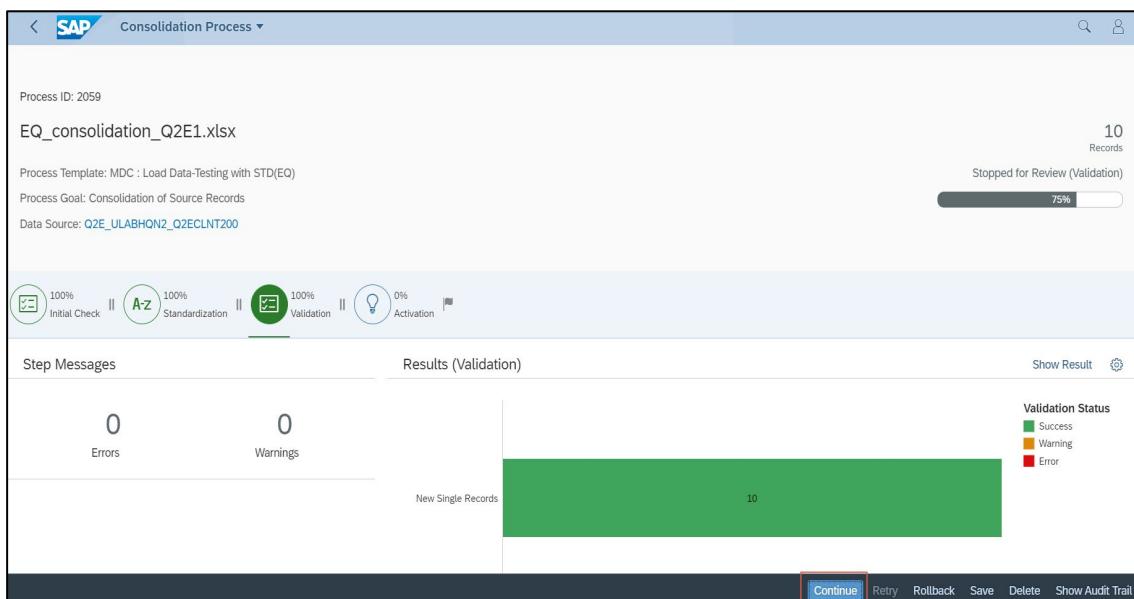
The screenshot shows the SAP Validation Result screen. At the top, it says "Validation Result". Below that, there are dropdown menus for "Standard", "Message Type", "Log Message Class", "Log Message Number", "Best Record Calculation Tar...", and "Validation Status". There are also buttons for "Hide Filter Bar", "Filters", and "Go". The main area shows a table with the following data:

Overview	Equipment Text	Equipment	Equipment time segment	Plant Maintenance: Partners	Object-Related Permits in Plant Maintenance
5	10	5	5	4	6

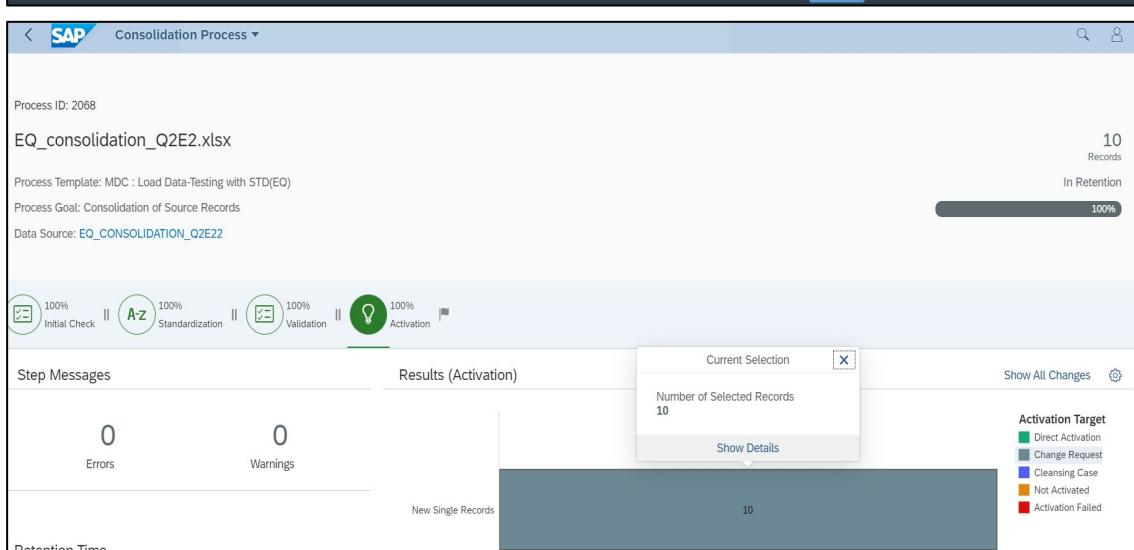
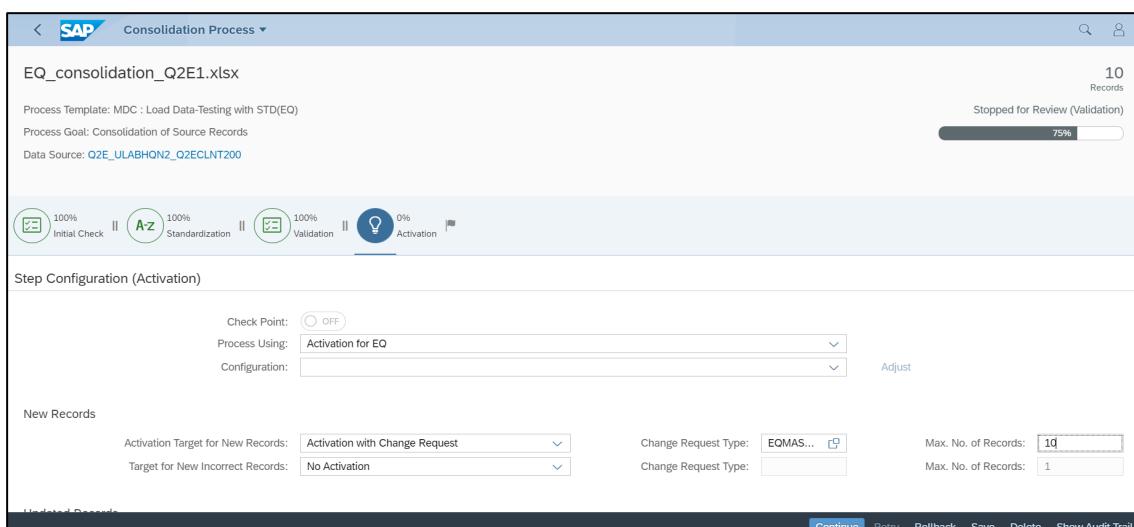
Below this, a table titled "Records (5 of 5) Standard" shows the following data:

Source System	Source ID	Equipment	AuthorizGroup	Equip...	Objec...	Size/...	Manu...	Model nu...	Description	Material	Details
S23_ULABSHN23_	UTP876	UTP876	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	A1001	
S23_ULABSHN23_	UTP877	UTP877	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	A1001	
S23_ULABSHN23_	UTP878	UTP878	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	A1001	
S23_ULABSHN23_	UTP879	UTP879	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	A1001	
S23_ULABSHN23_	UTP880	UTP880	0002	M	1000	3423 MM	INDIA	IND343	create Scenario	A1001	

11. 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.

12. 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 username as SAP_WFRT (background used).

13. To search for the Change Request created, Open NWBC then click on Reporting > My Change Requests.

14. Select show as “ALL”. You can filter Change Request by using “Changed by” as “SAP_WFRT”.

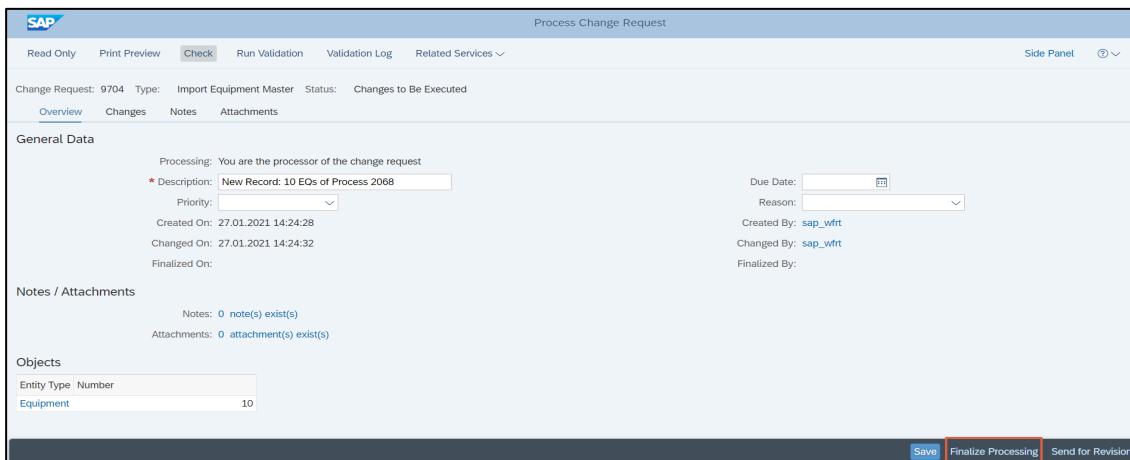
Change Request	Description	Status	Changed On	Changed By	Draft
9704	New Record: 10 EQs of Process 2068	Changes to Be Executed	27.01.2021	sap_wfrt	<input type="checkbox"/>

15. 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.

16. Double-Click on the Change Request “9704” to open the Change Request.

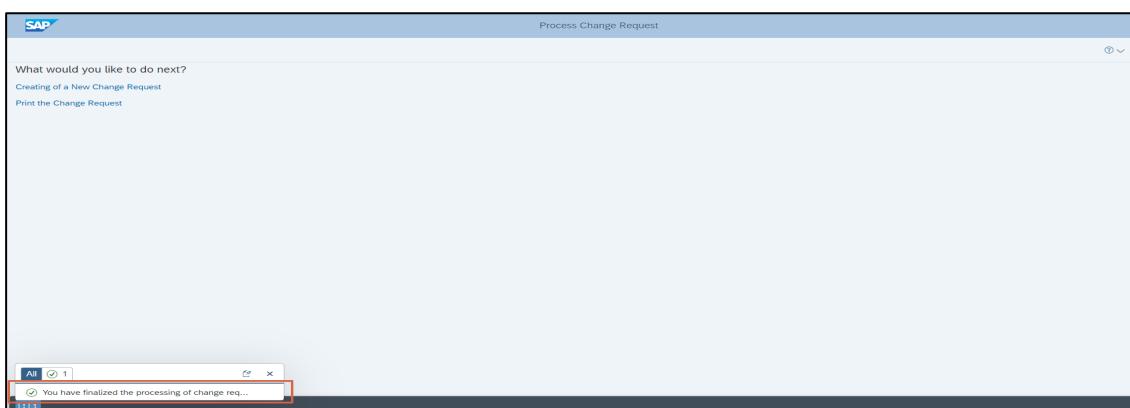
Equipment	Description
\$12630	EQUIPMENT Test New 5
\$12631	EQUIPMENT Test New 6
\$12632	EQUIPMENT Test New 7
\$12633	EQUIPMENT Test New 8
\$12634	EQUIPMENT Test New 9
\$12635	EQUIPMENT Test New 10

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

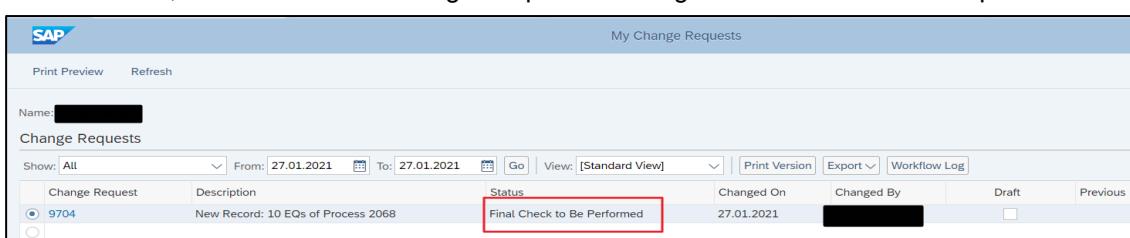


The screenshot shows the SAP Process Change Request interface. The top navigation bar includes 'Read Only', 'Print Preview', 'Check', 'Run Validation', 'Validation Log', 'Related Services', 'Side Panel', and a help icon. The main area displays a change request for Import Equipment Master with ID 9704, status 'Changes to Be Executed'. The 'General Data' section contains fields for Description (New Record: 10 EQs of Process 2068), Priority, Due Date, Reason, Created By (sap_wfrt), Changed By (sap_wfrt), and Finalized By. The 'Notes / Attachments' section shows 0 note(s) and 0 attachment(s). The 'Objects' section lists 10 Equipment items. At the bottom, there are 'Save', 'Finalize Processing' (which is highlighted in red), and 'Send for Revision' buttons.

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

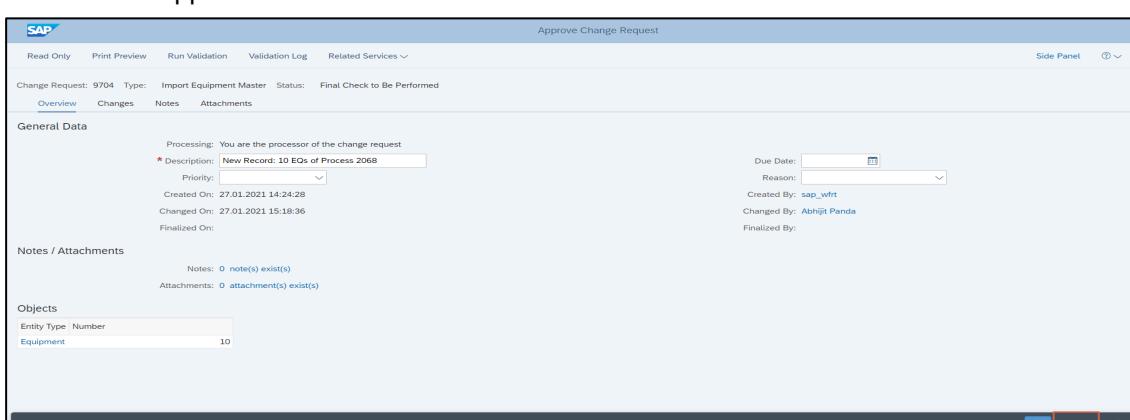


18. Once finalized, the status of the Change Request is changed as “Final check to be performed”.



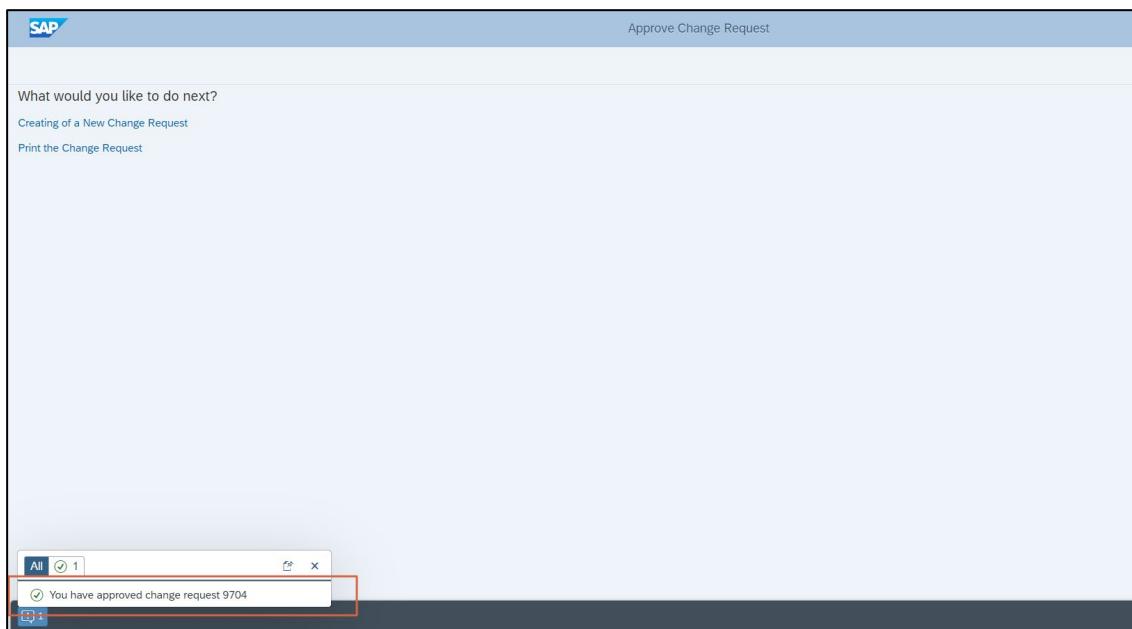
The screenshot shows the SAP My Change Requests interface. The top navigation bar includes 'Print Preview', 'Refresh', and a search bar. The main area displays a list of change requests under 'Change Requests'. A specific row for Change Request 9704 is selected, showing its status as 'Final Check to Be Performed' (highlighted with a red box). Other columns include Change Request ID, Description, Status, Changed On, Changed By, Draft, and Previous.

19. Click on the “Approve” button.

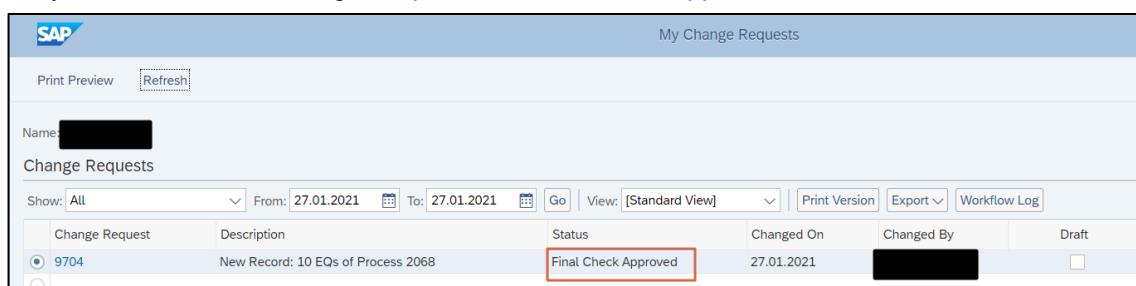


The screenshot shows the SAP Approve Change Request interface. The top navigation bar includes 'Read Only', 'Print Preview', 'Run Validation', 'Validation Log', 'Related Services', 'Side Panel', and a help icon. The main area displays a change request for Import Equipment Master with ID 9704, status 'Final Check to Be Performed'. The 'General Data' section contains fields for Description (New Record: 10 EQs of Process 2068), Priority, Due Date, Reason, Created By (sap_wfrt), Changed By (Abhijit Panda), and Finalized By. The 'Notes / Attachments' section shows 0 note(s) and 0 attachment(s). The 'Objects' section lists 10 Equipment items. At the bottom, there are 'Save', 'Approve' (which is highlighted in red), and 'Reject' buttons.

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

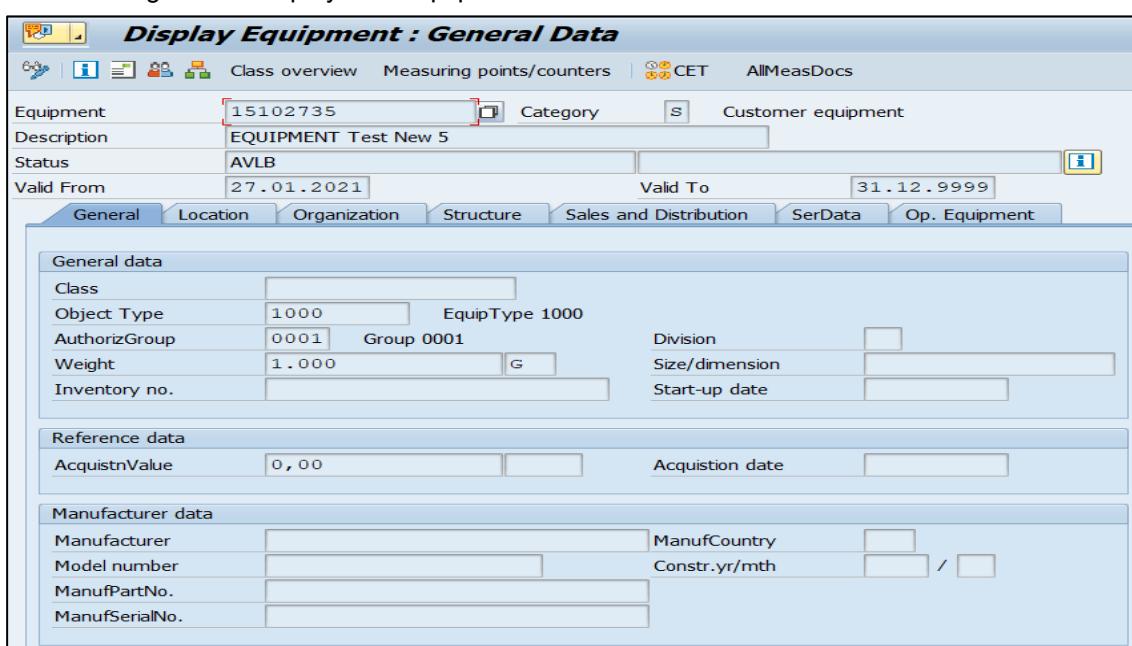


20. Verify the status of the Change Request as “Final Check Approved”.



21. 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.



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

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

IDoc List										
IDocs	Number	Segments	Status	Partner	Basic type	Created On	Created at	Message Type	Direction	Port
Outbound IDocs /UGI3/EQUIPMENT_DATA										
Selected IDocs	00000034									
Outbound IDocs	00000034									
UGI3/EQUIPMENT_0000022	00000008									
UGI3/WRKCNT	00000004									
CLFMAS	00000000									
Inbound IDocs	00000000									
0000000000269040	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269041	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269042	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269043	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269044	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269045	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269046	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269047	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269048	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269049	10 03	○○○ LS/ /Q2ECLNT200	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT200		
0000000000269050	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269051	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269052	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269053	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269054	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269055	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269056	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269057	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269058	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:56	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		
0000000000269059	10 03	○○○ LS/ /Q2ECLNT300	/UGI3/EQUIP	27.01.2021	15:21:57	/UGI3/EQUIPMENT_DATA	Outbox	Q2ECLNT300		

Status Message for Selected IDoc
Status Text: IDoc: 0000000000269040 Status: Data passed to port OK
T100 Text: IDoc sent to SAP system or external program

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



Note

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

IDoc Display: 0000000000269040																																																									
Segments with Errors	Activate Column Adjustment																																																								
<ul style="list-style-type: none"> IDoc 0000000000269040 <ul style="list-style-type: none"> Control Record Data records <ul style="list-style-type: none"> /UGI3/E1EQUIPMENT /UGI3/E1BP_ITOB /UGI3/E1BP_STATUS /UGI3/E1BP_ITOBX E1BP_ITOB_EQ_ONLY E1BP_ITOB_EQ_ONLYX E1BP_ITOB_EQ_INSTALL /UGI3/EQSHTX /UGI3/EQWARRANTY /UGI3/EQ_MOVEMENT_D Status records 	<table border="1"> <thead> <tr> <th colspan="2">Short Technical Information</th> </tr> </thead> <tbody> <tr> <td>Direction</td><td>1 Outbox</td></tr> <tr> <td>Current Status</td><td>03 ○○○</td></tr> <tr> <td>Basic type</td><td>/UGI3/EQUIPMENT_DATA03</td></tr> <tr> <td>Extension</td><td></td></tr> <tr> <td>Message Type</td><td>/UGI3/EQUIPMENT_DATA</td></tr> <tr> <td>Partner No.</td><td>Q2ECLNT200</td></tr> <tr> <td>Partn.Type</td><td>LS</td></tr> <tr> <td>Port</td><td>Q2ECLNT200</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Content of Selected Segment</th> </tr> </thead> <tbody> <tr> <td>Fld Name</td><td>Fld Cont.</td></tr> <tr> <td>AUTHGRP</td><td>0001</td></tr> <tr> <td>OBJECTTYPE</td><td>1000</td></tr> <tr> <td>OBJ_WEIGHT</td><td>1000.000</td></tr> <tr> <td>UNIT_OF_WT</td><td>G</td></tr> <tr> <td>ACQDATE</td><td>00000000</td></tr> <tr> <td>ACQUISVAL</td><td>0.00</td></tr> <tr> <td>START_FROM</td><td>00000000</td></tr> <tr> <td>PLANPLANT</td><td>0001</td></tr> <tr> <td>DESCRIPT</td><td>EQUIPMENT Test New 5</td></tr> <tr> <td>ABCINDIC</td><td>A</td></tr> <tr> <td>MAINTPLANT</td><td>0001</td></tr> <tr> <td>MAINTLOC</td><td>0001</td></tr> <tr> <td>PLSECTN</td><td>010</td></tr> <tr> <td>PP_WKCTR</td><td>FIRSTLEV</td></tr> <tr> <td>WBS_ELEM</td><td>00000000</td></tr> <tr> <td>COMP_CODE</td><td>0001</td></tr> <tr> <td>READ_CRDAT</td><td>00000000</td></tr> </tbody> </table>	Short Technical Information		Direction	1 Outbox	Current Status	03 ○○○	Basic type	/UGI3/EQUIPMENT_DATA03	Extension		Message Type	/UGI3/EQUIPMENT_DATA	Partner No.	Q2ECLNT200	Partn.Type	LS	Port	Q2ECLNT200	Content of Selected Segment		Fld Name	Fld Cont.	AUTHGRP	0001	OBJECTTYPE	1000	OBJ_WEIGHT	1000.000	UNIT_OF_WT	G	ACQDATE	00000000	ACQUISVAL	0.00	START_FROM	00000000	PLANPLANT	0001	DESCRIPT	EQUIPMENT Test New 5	ABCINDIC	A	MAINTPLANT	0001	MAINTLOC	0001	PLSECTN	010	PP_WKCTR	FIRSTLEV	WBS_ELEM	00000000	COMP_CODE	0001	READ_CRDAT	00000000
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Mass Change Process

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. Similarly, ensure adapters should be available to be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

Display View "Master Data Consolidation: Configuration of Adapters": O			
			
Master Data Consolidation: Configuration of Adapters			
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	Evaluation	▼ CL_MDQ_RULE_EVALUATION_ADAPTER	MDQ Rule Evaluation Adapter
183	Filter & Remove	▼ CL_MDC_ADAPTER_FAR	Filter and Remove
183	Matching	▼ /UGI/CL_MDC_ADAPTER_EAM_MTC	New SAP HANA fuzzy search
183	Matching	▼ /UGI/CL_MDC_ADAPTER_EQ_MTC	EQ Inventory number Matching
183	Matching	▼ CL_MDC_ADAPTER_FUZZY_MTC	General Task List SAP HANA fuzzy search
183	Matching	▼ CL_MDC_ADAPTER_MTC	New SAP HANA fuzzy search
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 for General Task List
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 templates is marked as “Default” template.
 - The “Delete Source” checkbox and Strategy are disabled for the mass change process goal.

Similarly, Create Mass change process template & it's steps for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.



You can also activate the BC-Set “/UGI/MDC_EAM_PT_CONFIG_920” for the following default configuration.

Display View "Process Template": Overview of Selected Set								
Dialog Structure		Process Template						
Proc Tmpl	Description	BO Type	Description	Process Workflow ...	Name	Process Goal	Default Templ...	Delete Source
UNASEQ	MDC : Template Config for EQ Mass update	183	Individual Material	WBS4500001	MDC Workflow	Mass Processing	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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.



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.

Display View "Process Template Step": Overview								
Process Template		Process Template	UNASEQ	MDC : Template Config for EQ Mass update				
Bus. Obj. Type		Bus. Obj. Type	183	Individual Material				
Process Template Step								
Step	Step Type	Description	BO Type	Adapter	Config. ID	Check Pt.	Action Control for next step	Authorization Group
1	Edit	▼ Edit	CL_MDC_ADAPTER_EDI	UMDCEQSC	<input checked="" type="checkbox"/>	No action control	▼	
2	Validation	▼ Validation	/UGI/CL_MDC_ADAPTER_EQ_VAL	UEQ_VAL	<input checked="" type="checkbox"/>	No action control	▼	
3	Activation	▼ Activation	/UGI/CL_MDC_ADAPTER_EQ_ACT	U_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+.

Display View "Master Data Consolidation: Configurations for Validation"								
Master Data Consolidation: Configurations for Validation								
Description		EQ validation Config						
No of Processes		10						
Queue Prefix		MDC_EQ_VAL_Q_						
<input type="checkbox"/> Apply Data Quality Rules <input checked="" type="checkbox"/> Execute Change Request Checks <input type="checkbox"/> BRF+ Checks <input type="checkbox"/> Write MDQ Worklist <input checked="" type="checkbox"/> Remove Unchanged Rec								
Threshold (%)		0						

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.

6. 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.

Display View "Configurations for Activation for EQ": Details

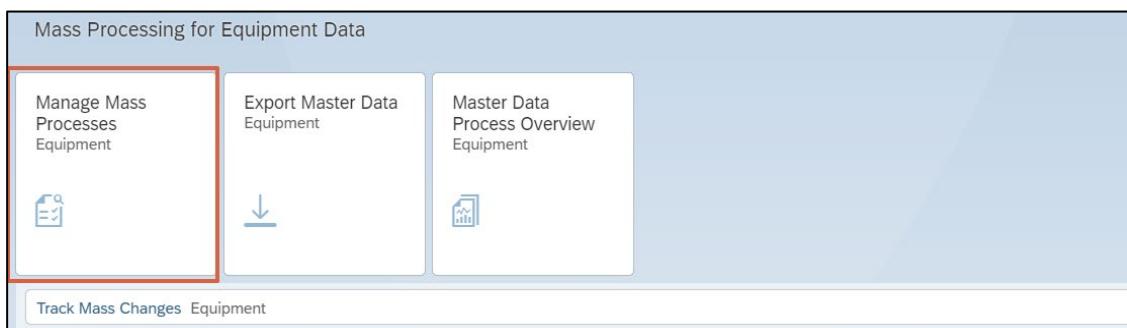
Configuration ID	J_ACT_EQ	SAP : EQ Activation			
Configurations for Activation for EQ					
No of Processes	10	Queue Prefix	MDC_EQ_ACT_Q		
New Records					
Activation Target for New Records	Activation with Change Request	Type of Chg. Request	EQMAST0B	Max. Reco	10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco	0
Update Records					
Activation Target for Updated Records	Activation of Best Record with Change Request	Type of Chg. Request	EQMAST0B	Max. Reco	10
Target for New Incorrect Records		Type of Chg. Request		Max. Reco	0
Match Group					
Activation Target for Match Groups	Activation of Best Record with Change Request	Type of Chg. Request	EQMAST0B	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					
Retention Time					
Retention Days	0	Ret. Time (Hours)	0	Ret. Time (Minutes)	0

Perform Mass Processing

Direct Change

Use the following steps to perform the mass change for equipment using MDC. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point as well.

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

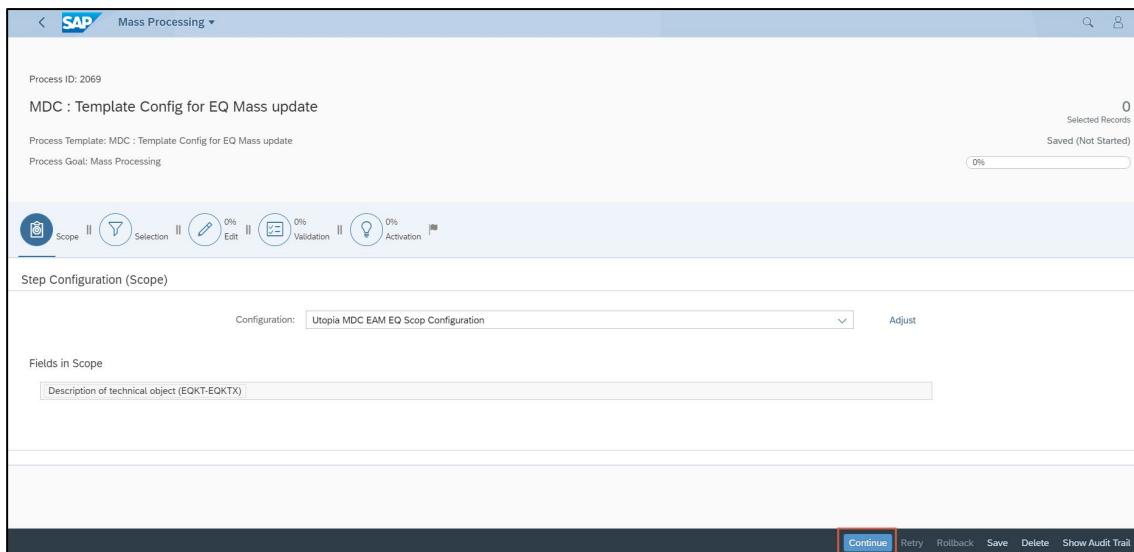


3. Click on the “Browse” button and choose the file to be uploaded for mass change.
4. Click on “Save” button.

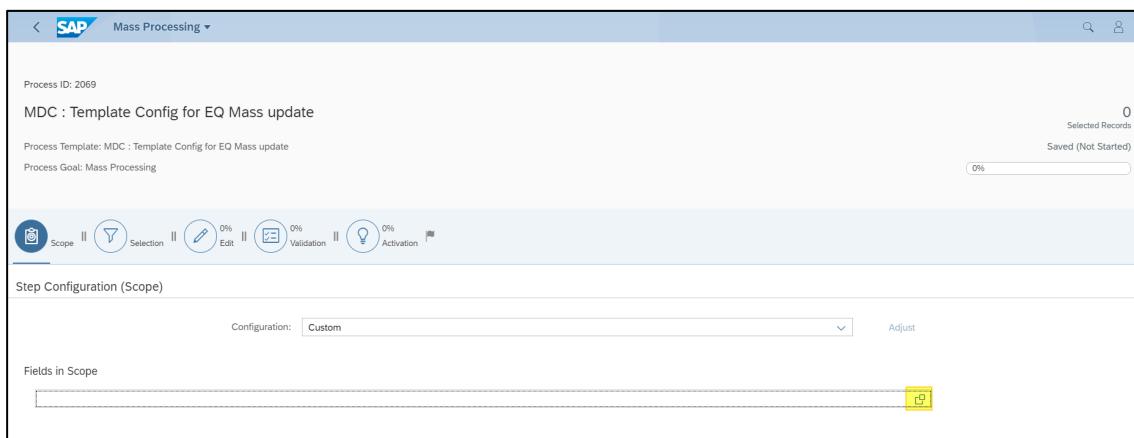
< SAP Start Mass Processing - Equipment ▾

Description:	MDC : Template Config for EQ Mass update
Process Template:*	MDC : Template Config for EQ Mass update
Import File:	<input type="button" value="Browse..."/>
Save Cancel	

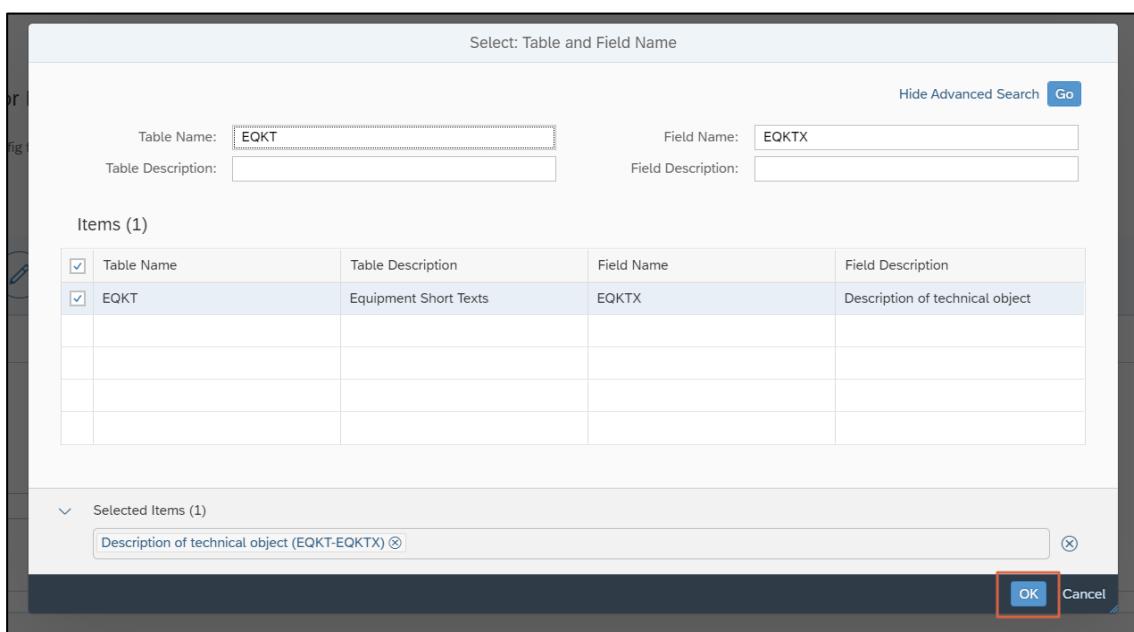
This launches a new process ID. The configured steps appear in the sequential manner.



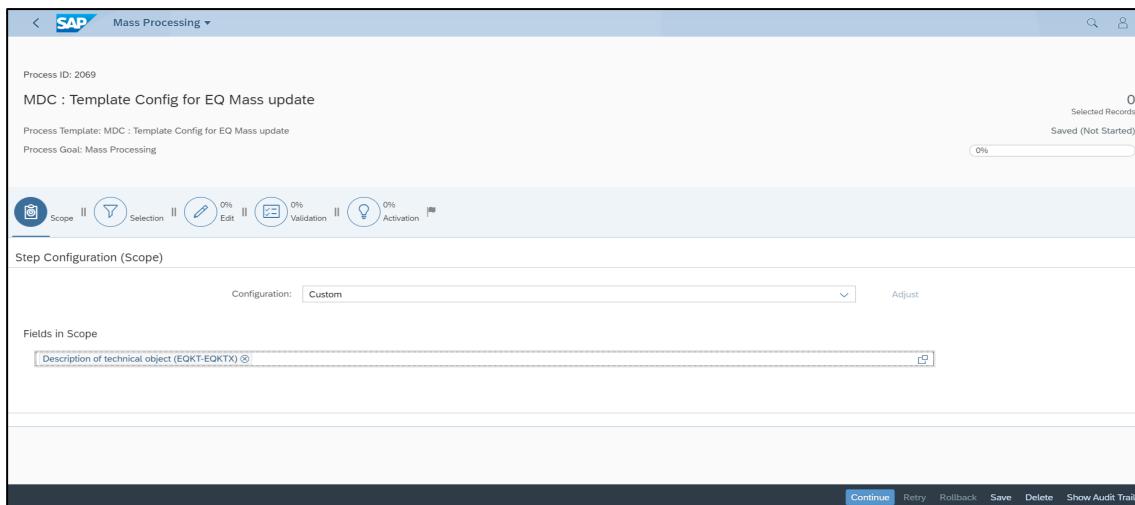
You can also select configuration as Custom and press F4 help.



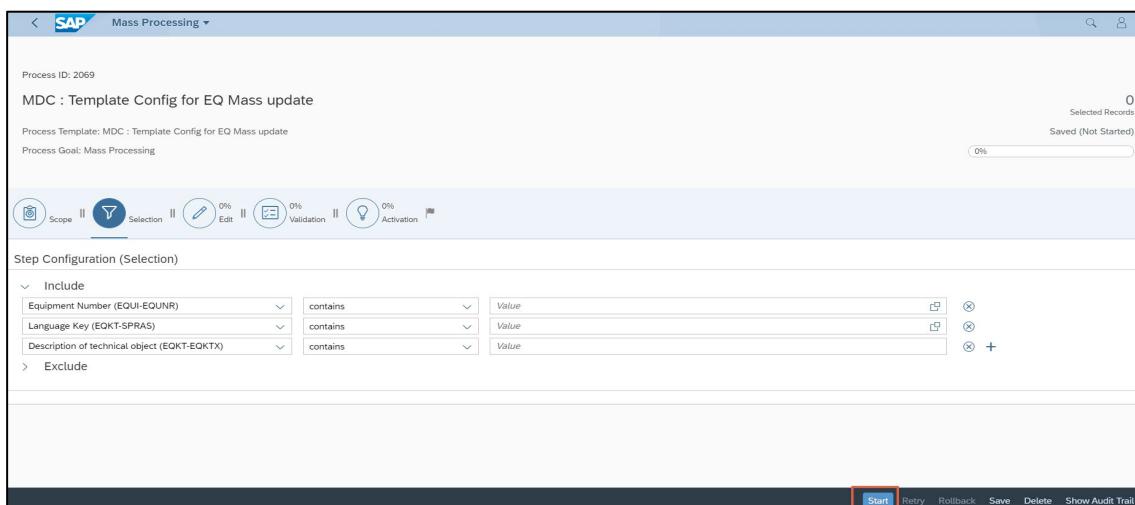
5. Select any field and click on “OK” button.



6. Click on “Continue” button.

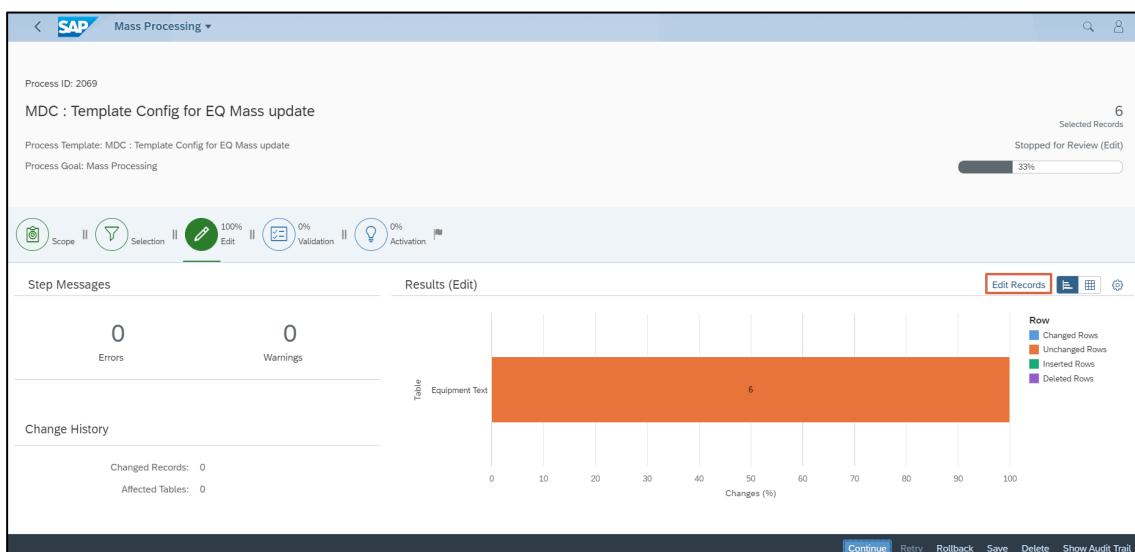


The following screen appears to provide the selection criteria. To perform an inclusive search, provide the selection criteria under the “Include” tab. For Exclusive criteria, provide the criteria under the “Exclude” tab.

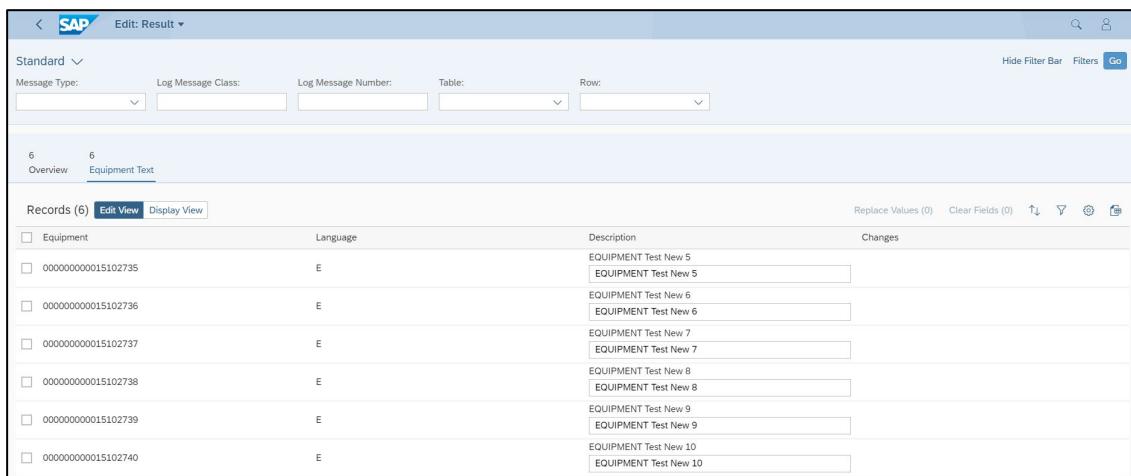


A new process ID is created.

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

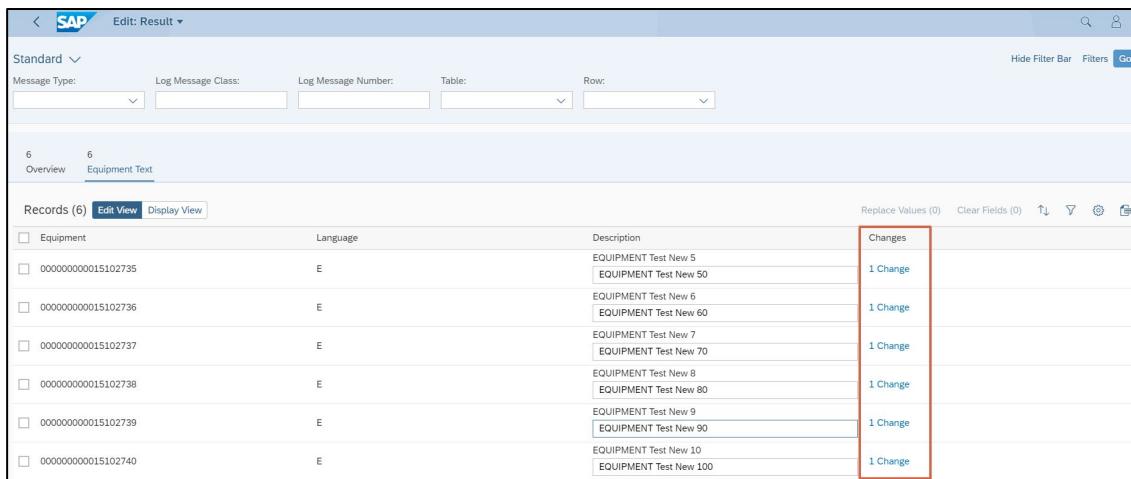


The following screen shows the Equipment Text screens available for changes.



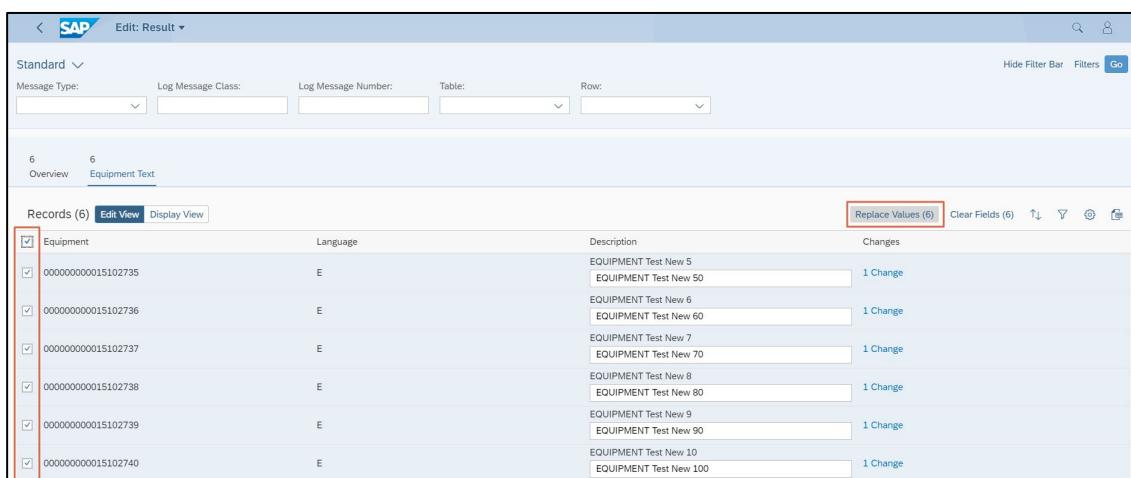
Equipment	Language	Description	Changes
	E	EQUIPMENT Test New 5	
000000000015102735	E	EQUIPMENT Test New 5	
000000000015102736	E	EQUIPMENT Test New 6	
000000000015102737	E	EQUIPMENT Test New 7	
000000000015102738	E	EQUIPMENT Test New 8	
000000000015102739	E	EQUIPMENT Test New 9	
000000000015102740	E	EQUIPMENT Test New 10	

8. To change the value for field individual for each equipment, say material description, update with the required value & the changes will be shown in changes column.



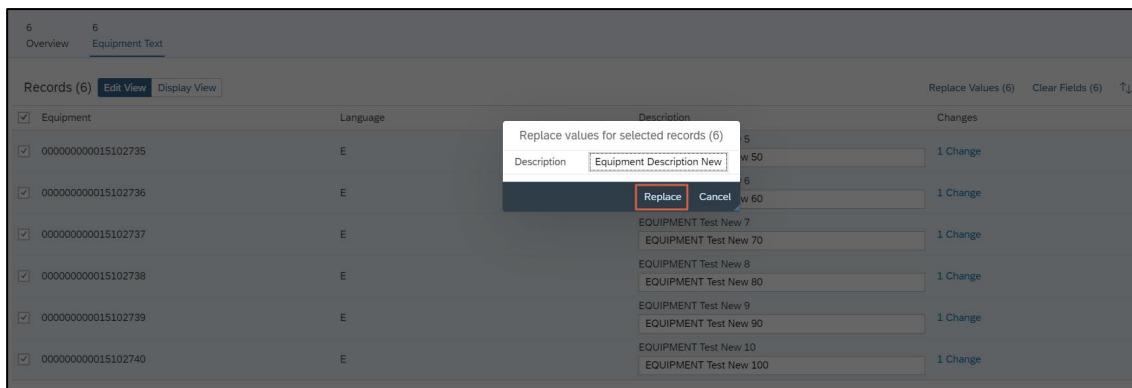
Equipment	Language	Description	Changes
	E	EQUIPMENT Test New 5	1 Change
000000000015102735	E	EQUIPMENT Test New 50	1 Change
000000000015102736	E	EQUIPMENT Test New 6	1 Change
000000000015102737	E	EQUIPMENT Test New 7	1 Change
000000000015102738	E	EQUIPMENT Test New 8	1 Change
000000000015102739	E	EQUIPMENT Test New 9	1 Change
000000000015102740	E	EQUIPMENT Test New 10	1 Change

9. To change the value for field simultaneously for all equipment, say material description, 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.

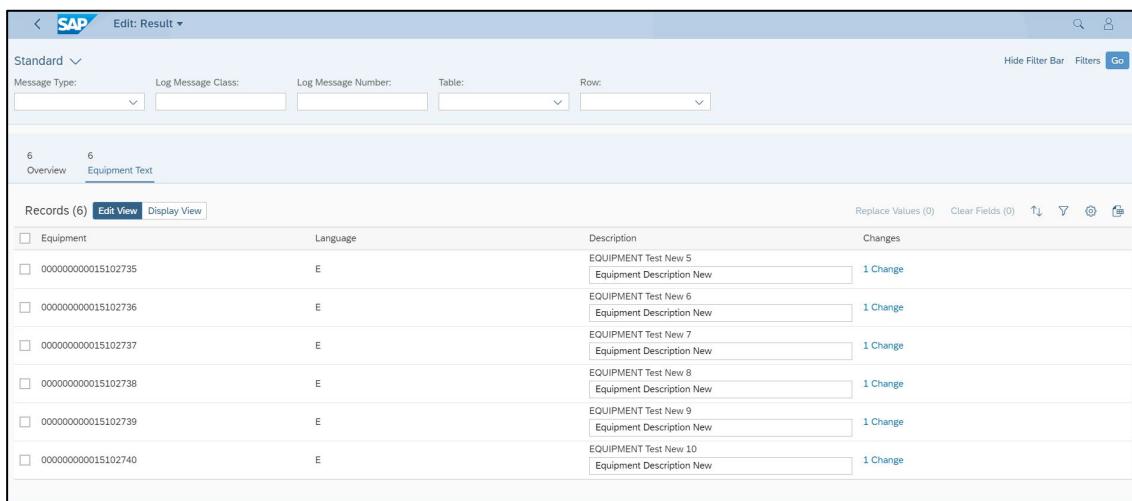


Equipment	Language	Description	Changes
000000000015102735	E	EQUIPMENT Test New 5	1 Change
000000000015102736	E	EQUIPMENT Test New 6	1 Change
000000000015102737	E	EQUIPMENT Test New 7	1 Change
000000000015102738	E	EQUIPMENT Test New 8	1 Change
000000000015102739	E	EQUIPMENT Test New 9	1 Change
000000000015102740	E	EQUIPMENT Test New 10	1 Change

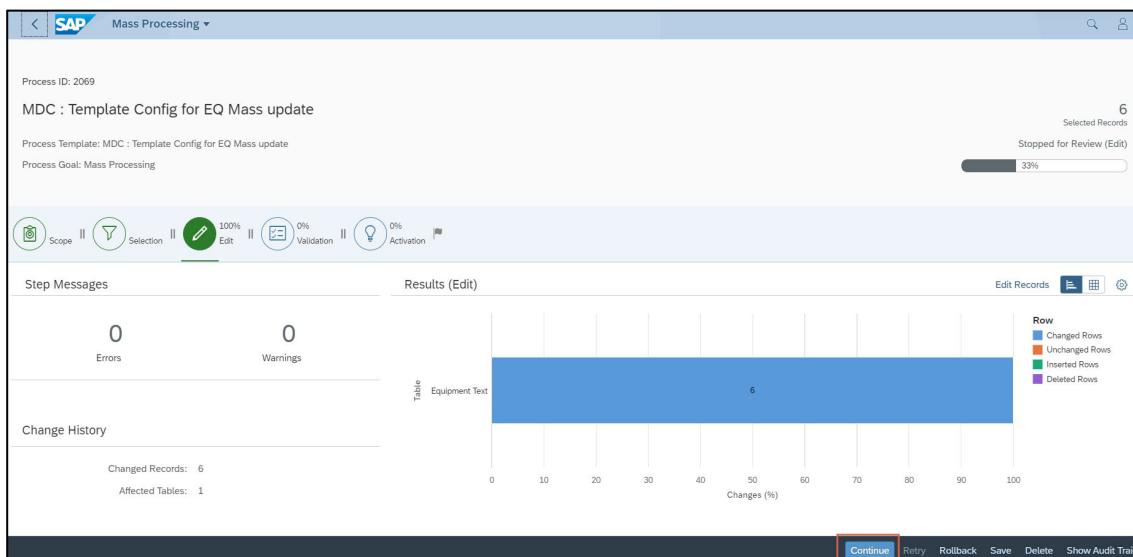
10. Enter the value or choose from the F4 help against the field.
 11. Click on “Replace” button once the value has been entered.



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

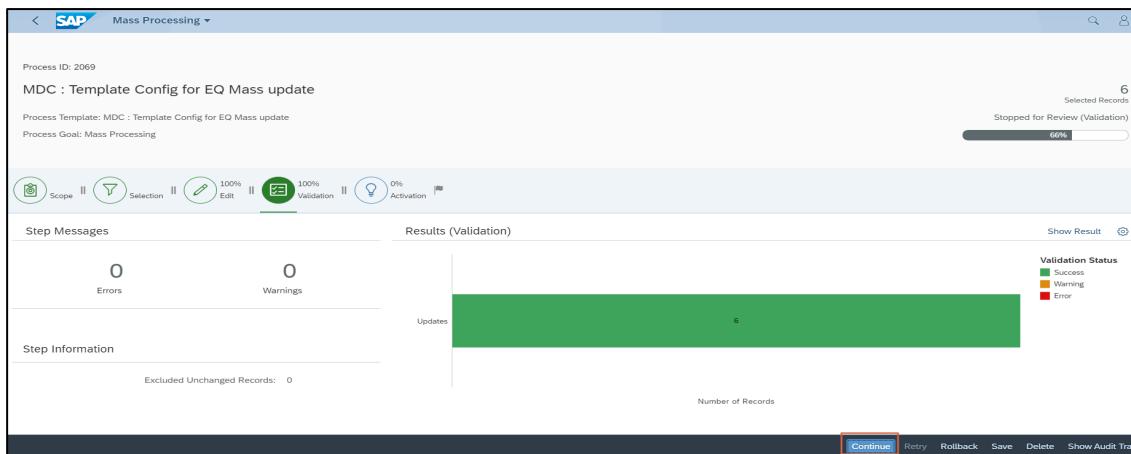


12. Click on back (⟨) button to go back to the main screen of process ID. Click on “Continue” button to proceed to the next step i.e., validation.



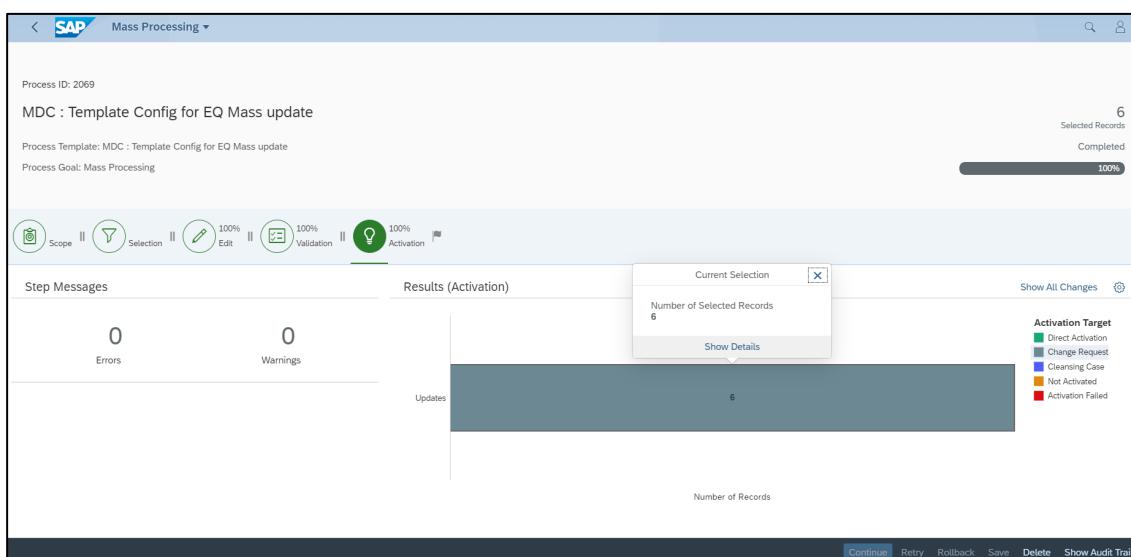
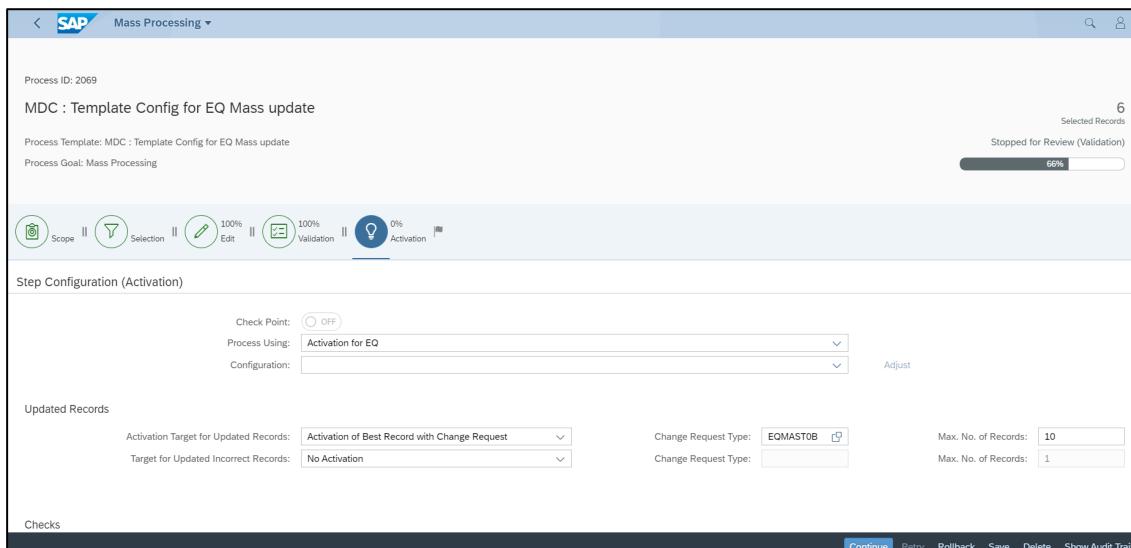
13. You can also configure the MDG BAdI validations and BRFplus checks at this step based on the business requirement.

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.

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

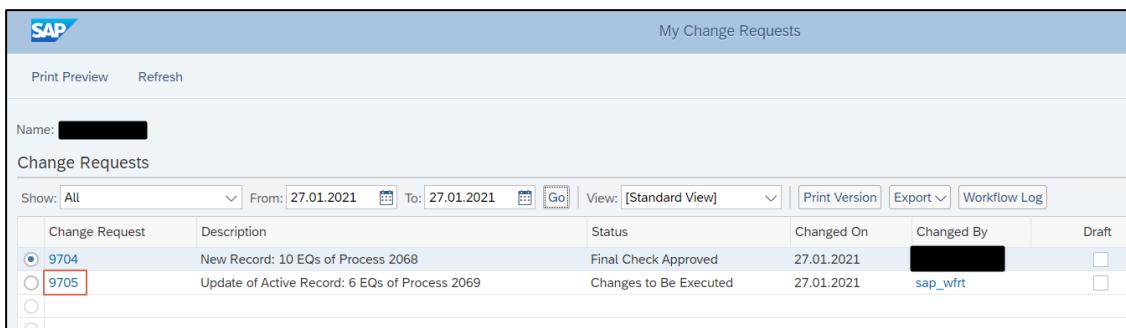


On successful Activation, the Change Request is created in MDG.

Note

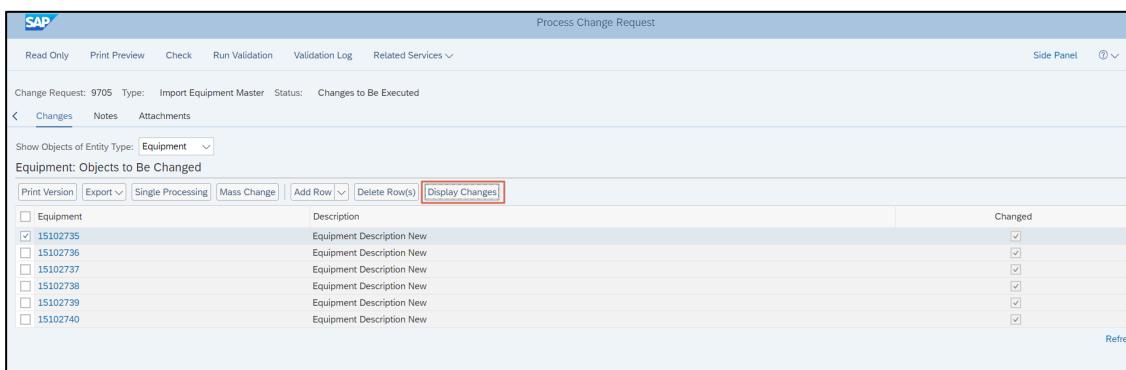
In case the direct activation option is used, the data gets created in backend and does not go through the governance process.

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, open NWBC then click on Reporting > My change requests.
18. Select show as “ALL”. You can filter Change Requests with changed by as “SAP_WFRT”.
19. Click on the Change Request “9705” to open the Change Request.



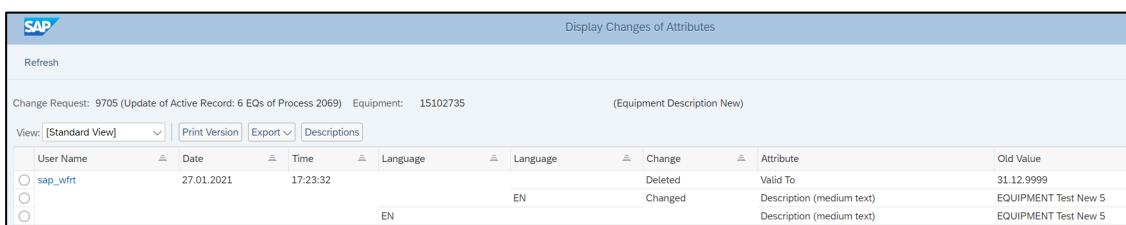
Change Request	Description	Status	Changed On	Changed By	Draft
9704	New Record: 10 EQs of Process 2068	Final Check Approved	27.01.2021	[REDACTED]	<input type="checkbox"/>
9705	Update of Active Record: 6 EQs of Process 2069	Changes to Be Executed	27.01.2021	sap_wfrt	<input type="checkbox"/>

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



Description	Changed
Equipment Description New	<input checked="" type="checkbox"/>
Equipment Description New	<input checked="" type="checkbox"/>
Equipment Description New	<input checked="" type="checkbox"/>
Equipment Description New	<input checked="" type="checkbox"/>
Equipment Description New	<input checked="" type="checkbox"/>
Equipment Description New	<input checked="" type="checkbox"/>
Equipment Description New	<input checked="" type="checkbox"/>

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



User Name	Date	Time	Language	Language	Change	Attribute	Old Value
sap_wfrt	27.01.2021	17:23:32	EN	EN	Deleted	Valid To	31.12.9999
					Changed	Description (medium text)	EQUIPMENT Test New 5
						Description (medium text)	EQUIPMENT Test New 5

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

Process Change Request

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

Change Request: 9705 Type: Import Equipment Master Status: Changes to Be Executed

Overview Changes Notes Attachments

General Data

Processing: You are the processor of the change request

* Description: Update of Active Record: 6 EQs of Process 2069
Priority: ✓

Created On: 27.01.2021 17:23:29
Changed On: 27.01.2021 17:23:32
Finalized On:

Notes / Attachments

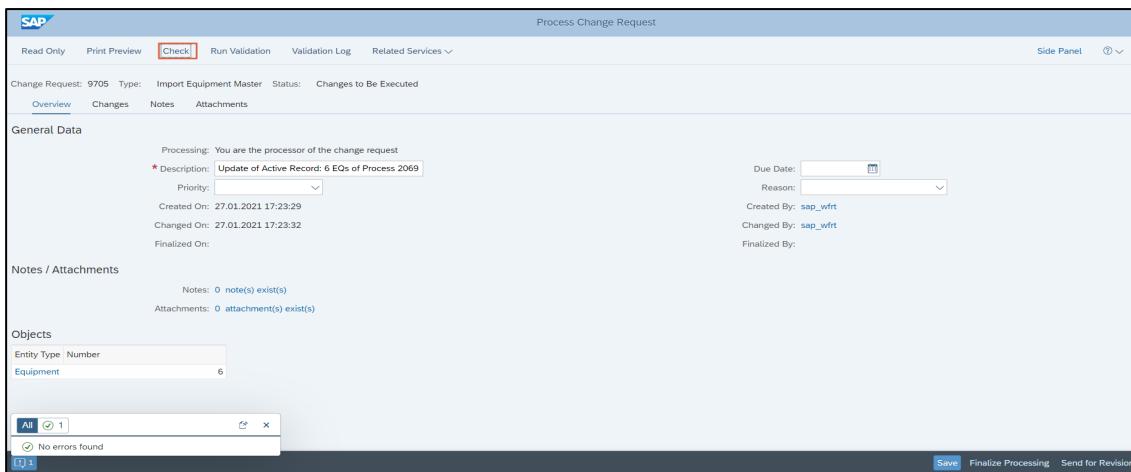
Notes: 0 note(s) exist(s)
Attachments: 0 attachment(s) exist(s)

Objects

Entity Type Number
Equipment 6

All 1 ✓ 1
No errors found

Save Finalize Processing Send for Revision



22. Click on “Finalize Processing” button.

Process Change Request

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

Change Request: 9705 Type: Import Equipment Master Status: Changes to Be Executed

< Changes Notes Attachments

Show Objects of Entity Type: Equipment ✓

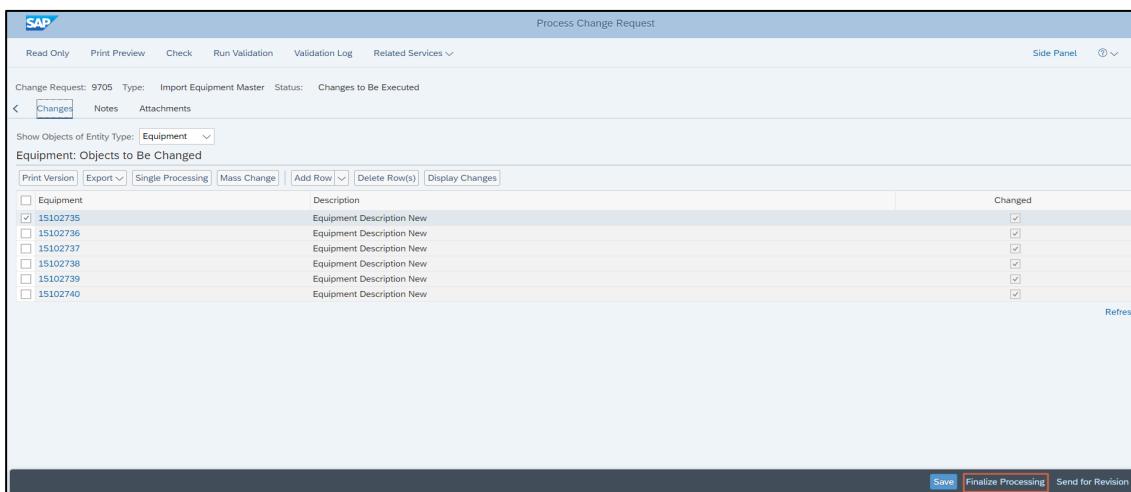
Equipment: Objects to Be Changed

Print Version Export Single Processing Mass Change Add Row Delete Row(s) Display Changes

Equipment	Description	Changed
✓ 15102735	Equipment Description New	✓
✗ 15102736	Equipment Description New	✓
✗ 15102737	Equipment Description New	✓
✗ 15102738	Equipment Description New	✓
✗ 15102739	Equipment Description New	✓
✗ 15102740	Equipment Description New	✓

Refresh

Save Finalize Processing Send for Revision



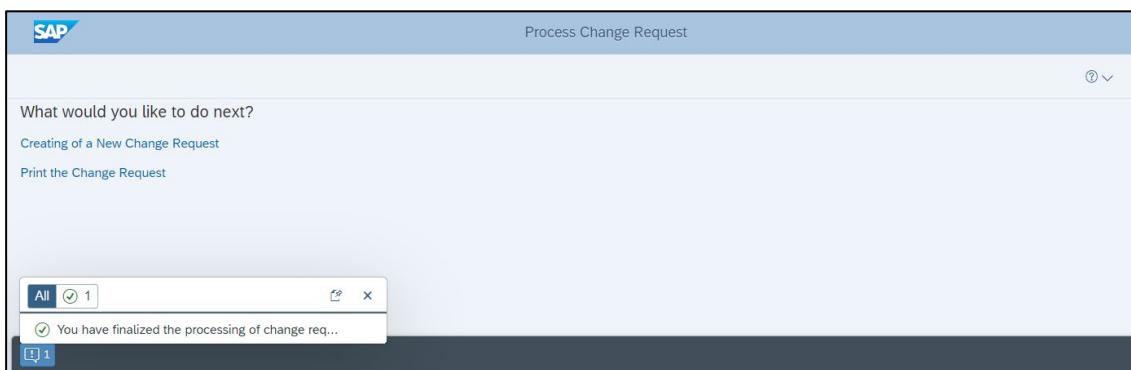
Success message appears as “You have finalized the processing of change request XX”.

Process Change Request

What would you like to do next?
Creating of a New Change Request
Print the Change Request

All 1 ✓ 1
✓ You have finalized the processing of change req...

Save Finalize Processing Send for Revision



23. Click on the “Approve” button.

SAP Approve Change Request

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

Change Request: 9705 Type: Import Equipment Master Status: Final Check to Be Performed

Overview Changes Notes Attachments

General Data

Processing: You are the processor of the change request
 * Description: Update of Active Record: 6 EQs of Process 2069
 Priority:
 Created On: 27.01.2021 17:23:29
 Changed On: 27.01.2021 17:37:34
 Finalized On:

Due Date:
 Reason:
 Created By: sap_wfrt
 Changed By:
 Finalized By:

Notes / Attachments

Notes: 0 note(s) exist(s)
 Attachments: 0 attachment(s) exist(s)

Objects

Entity Type	Number
Equipment	6

Action Buttons

Save Approve Reject

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

SAP Approve Change Request

What would you like to do next?
 Creating of a New Change Request
 Print the Change Request

Message Bar

All 1
 You have approved change request 9705

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

SAP My Change Requests

Print Preview Refresh

Name:

Change Requests

Show: All	Description	Status	Changed On	Changed By	Draft	Previous	Follow-Ups
<input type="radio"/> 9704	New Record: 10 EQs of Process 2068	Final Check Approved	27.01.2021	<input type="text"/>	<input type="checkbox"/>		
<input checked="" type="radio"/> 9705	Update of Active Record: 6 EQs of Process 2069	Final Check Approved	27.01.2021	<input type="text"/>	<input type="checkbox"/>		
<input type="radio"/>							
<input type="radio"/>							
<input type="radio"/>							
<input type="radio"/>							

Description changed as shown in the following screen.

Display Equipment : General Data

Class overview Measuring points/counters CET AllMeasDocs

Equipment 15102735 Category S Customer equipment

Description Equipment Description New

Status AVLB

Valid From 27.01.2021 Valid To 31.12.9999

General **Location** **Organization** **Structure** **Sales and Distribution** **SerData** **Op. Equipment**

General data

Class	<input type="text"/>
Object Type	1.000 EquipType 1000
AuthorizGroup	0001 Group 0001
Weight	1.000 G
Inventory no.	<input type="text"/>

Reference data

AcqInstnValue	0,00	Acquisition date	<input type="text"/>
---------------	------	------------------	----------------------

Manufacturer data

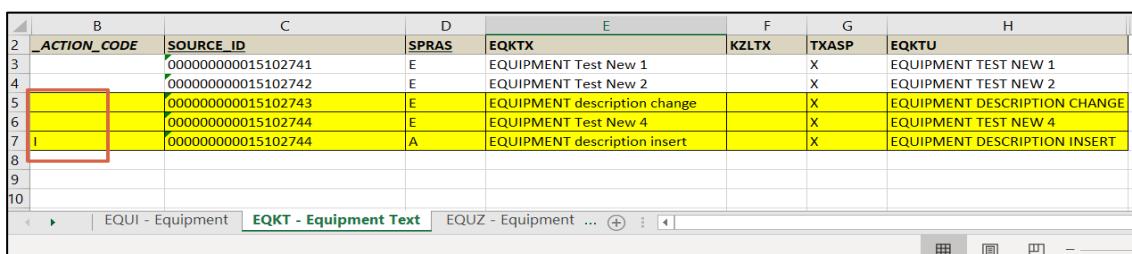
Mass Change Using Excel

You can use the "Manage Mass Processes-183" application to access the process IDs created for Equipment mass processing. Similar steps can be followed for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point as well.

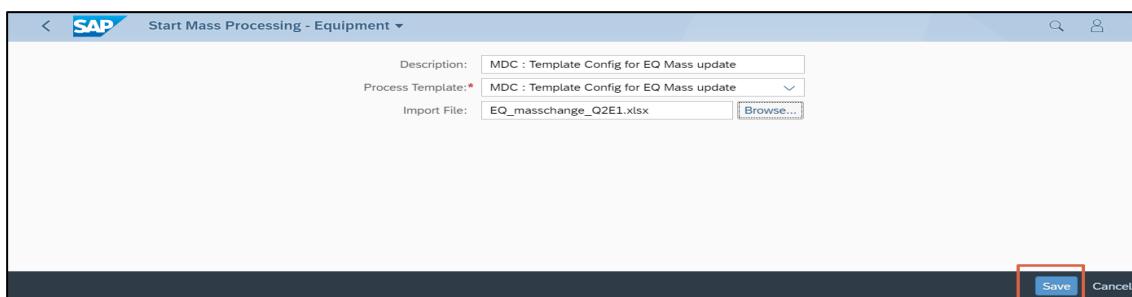
1. Run t-code "/UI2/FLP" and launch the Fiori application "Start Mass Processing".



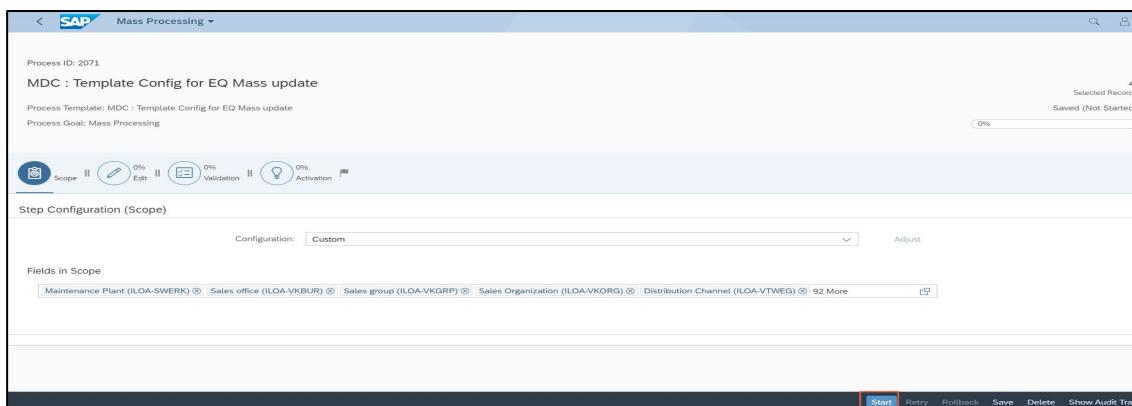
2. Choose the process template from the drop down.
3. Click on the "Browse" button to select the Excel file for mass change. In the excel file, we can provide the goal as insert(I)/delete(D)/change in action code column of respective sheet.



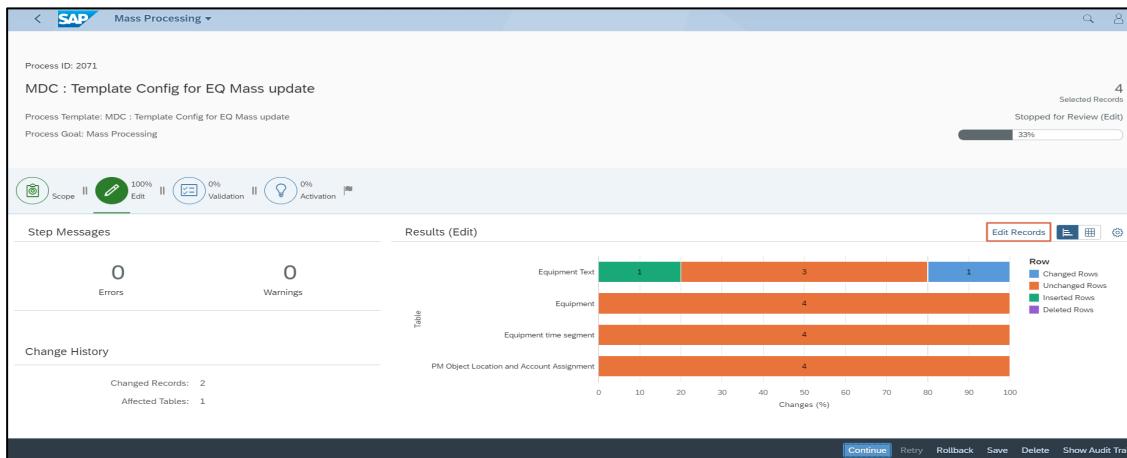
B	C	D	E	F	G	H
ACTION_CODE	SOURCE_ID	SPRAS	EQKTX	KZLTX	TXASP	EQKTU
I	000000000015102741	E	EQUIPMENT Test New 1	X		EQUIPMENT TEST NEW 1
I	000000000015102742	E	EQUIPMENT Test New 2	X		EQUIPMENT TEST NEW 2
C	000000000015102743	E	EQUIPMENT description change	X		EQUIPMENT DESCRIPTION CHANGE
I	000000000015102744	E	EQUIPMENT Test New 4	X		EQUIPMENT TEST NEW 4
I	000000000015102744	A	EQUIPMENT description insert	X		EQUIPMENT DESCRIPTION INSERT



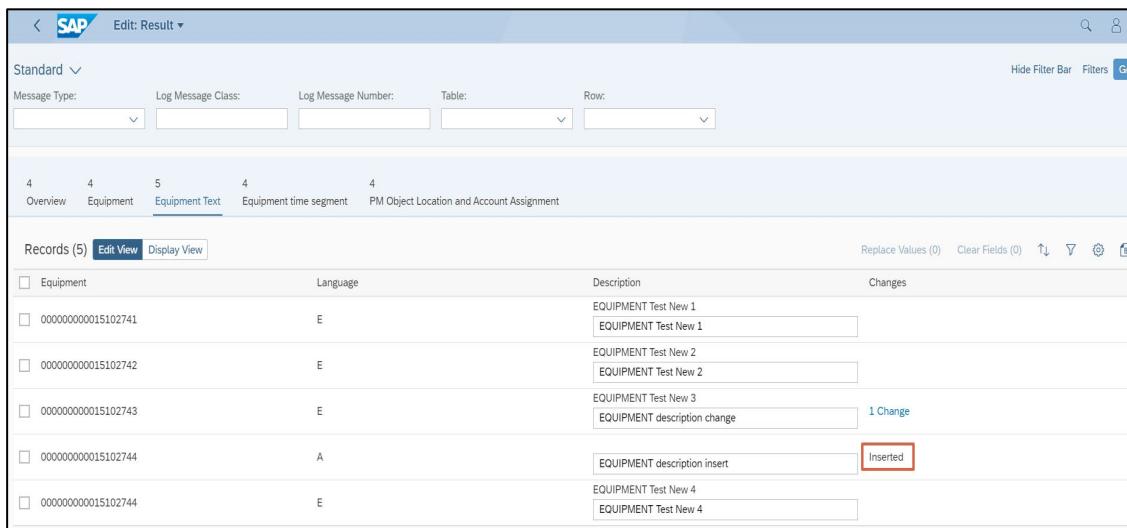
4. Click on "Save" button. A new process ID is created.
5. Click on "Start" button to initiate the process as shown in the following screen.



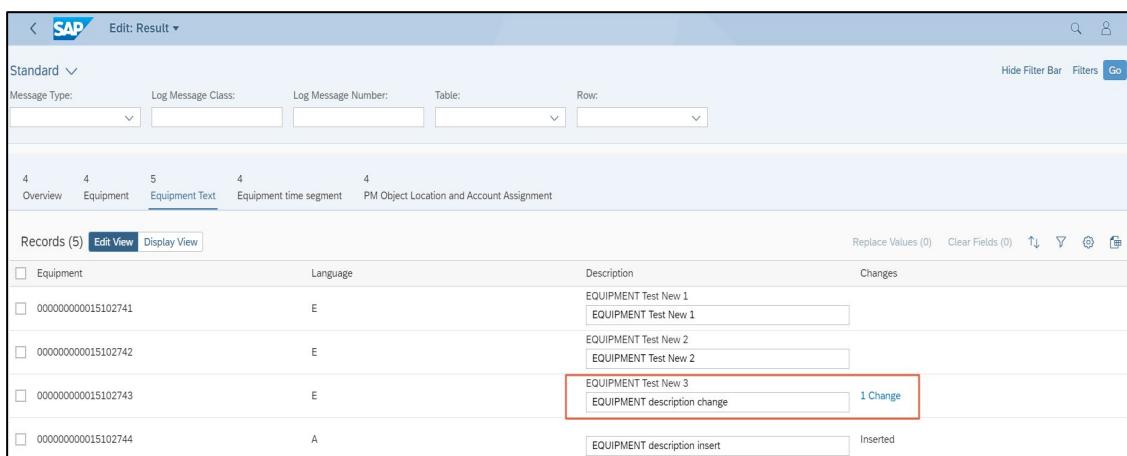
6. You can review and change the erroneous records by clicking on the “Edit Records” link and navigating to the corresponding tab. The graph shows the changed, deleted, inserted, deleted records with different color conventions.



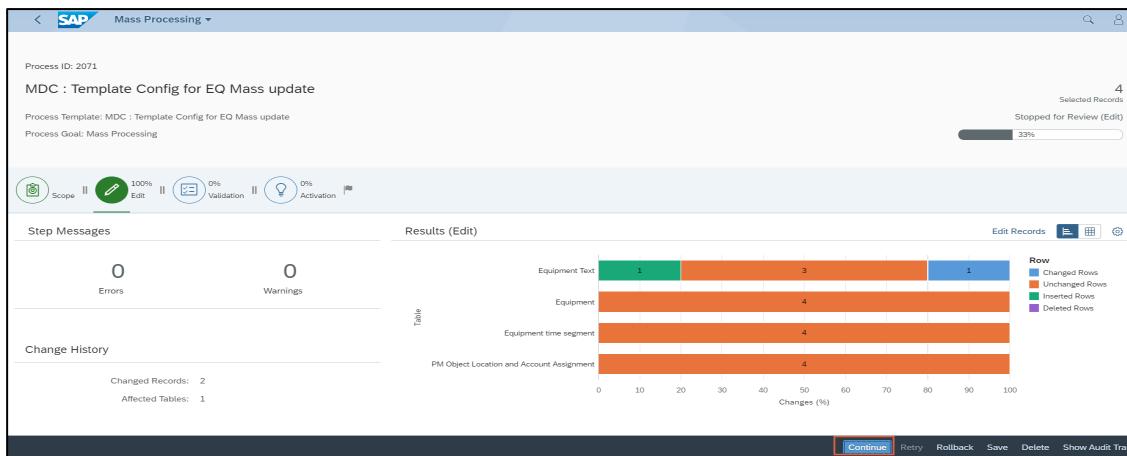
You can view the changes under the “Edit View” column of the “Equipment text” tab. The following screen shows the inserted row with Arabic Language.



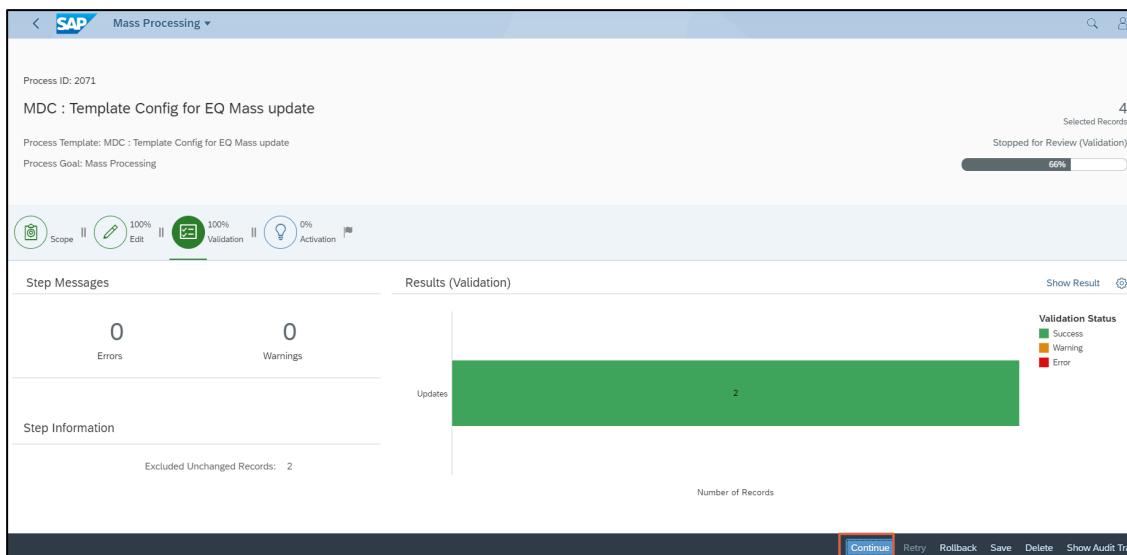
The following screen shows the “Description field” changes. Click on “<” button to go back to the main screen.



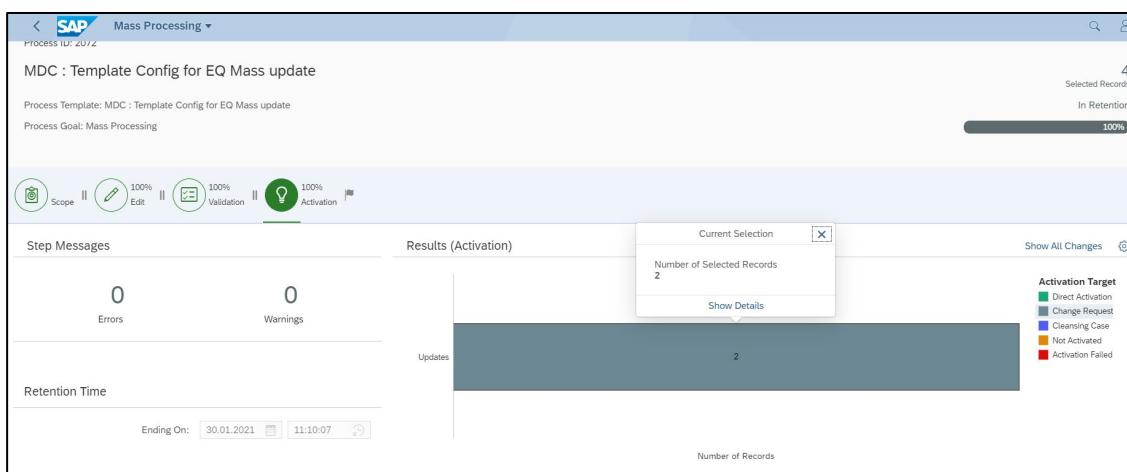
7. Click on “Continue” button to proceed to the next step i.e. Validation.



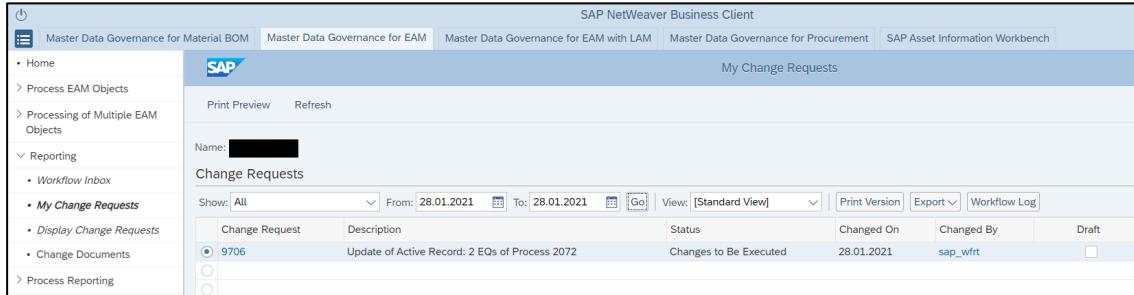
- The validation step can be used to incorporate the additional checks along with the API validations and the MDG access class checks using BRFplus application and MDG validation BAdI. The records are shown in a graph based on errors, warnings, or success with different color conventions as below. You can click on the link “Show results” to the review and change the erroneous records.



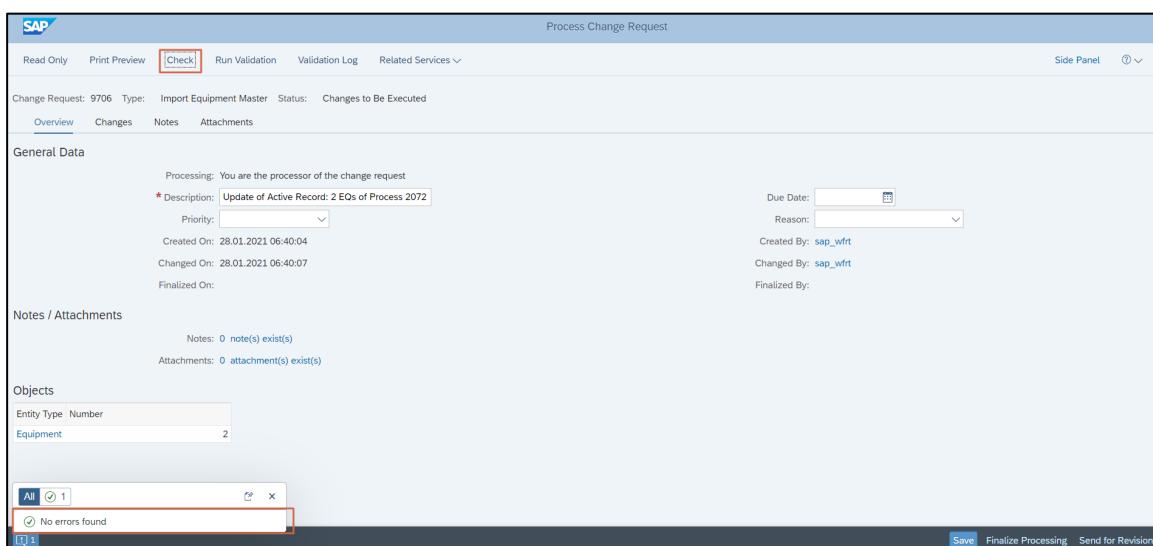
- Click on “Continue” button to proceed with the activation step. Activation with Change request is completed successfully & change request has been generated.



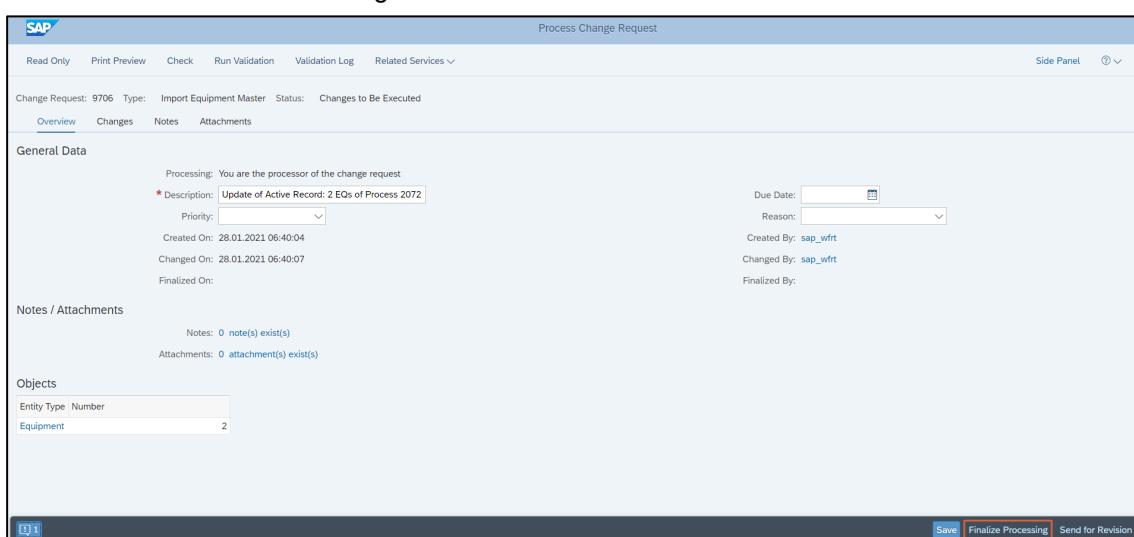
10. Run t-code NWBC. Use the role /UGI/_MDGEAM_MENU to navigate to the Change Requests created. The CR of type EQMAST0B is created with user name as SAP_WFRT (background used).



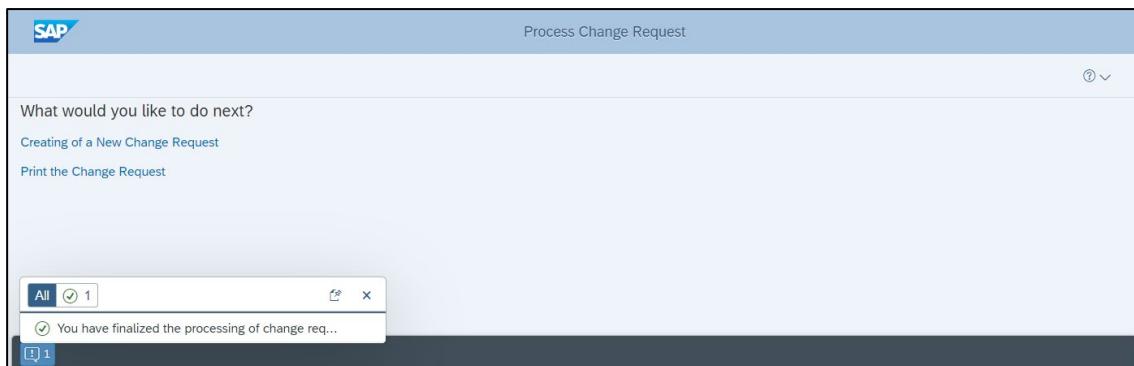
11. Click on the change request number "9706" to open change request. Open the Change Request created, click on "Check" button to perform validation.
 12. In case no errors found, the success message "No errors found" appears on the screen.



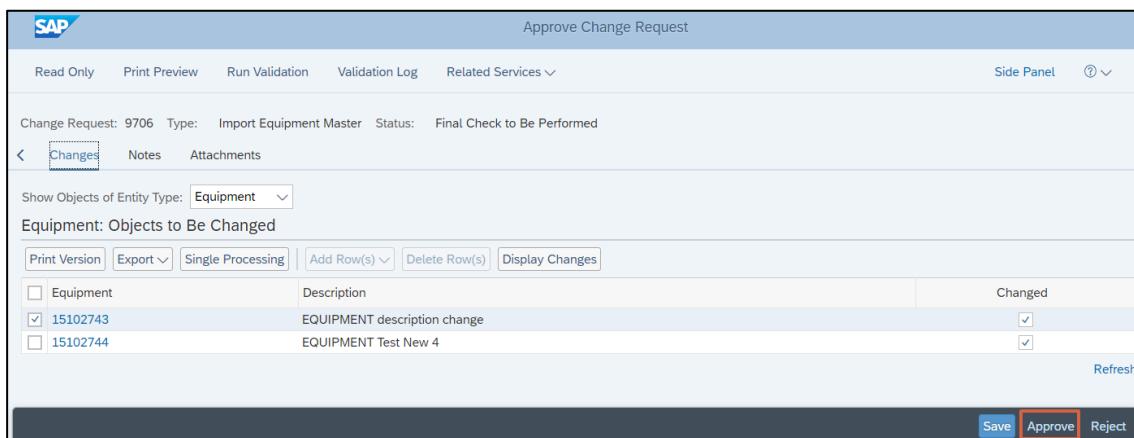
13. Click on the "Finalize Processing" button.



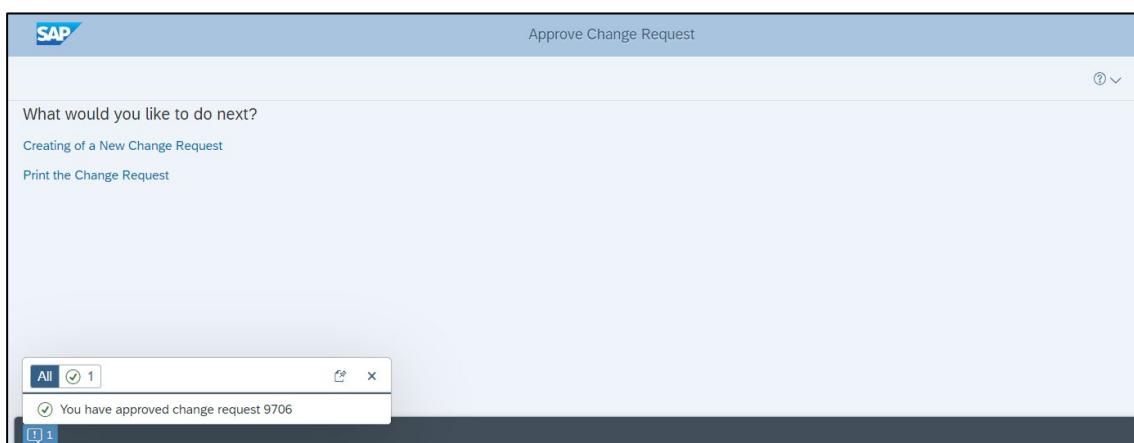
A success message appears as "You have finalized the processing of the change request XX".



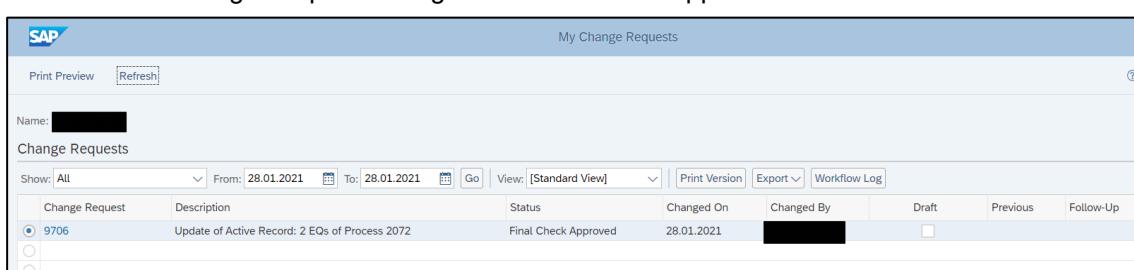
14. Click on “Approve” button to approve the Change Request.



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



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



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

Display Equipment : General Data

Equipment	15102743	Category	S Customer equipment																												
Description	EQUIPMENT description change																														
Status	AVLB	<input type="button" value="I"/>																													
Valid From	27.01.2021	Valid To	31.12.9999																												
<input type="button" value="General"/> <input type="button" value="Location"/> <input type="button" value="Organization"/> <input type="button" value="Structure"/> <input type="button" value="Sales and Distribution"/> <input type="button" value="SerData"/> <input type="button" value="Op. Equipment"/>																															
General data <table border="1"> <tr> <td>Class</td> <td colspan="3"></td> </tr> <tr> <td>Object Type</td> <td>1000</td> <td>EquipType 1000</td> <td></td> </tr> <tr> <td>AuthorizGroup</td> <td>0001</td> <td>Group 0001</td> <td>Division</td> </tr> <tr> <td>Weight</td> <td>1.000</td> <td>G</td> <td>Size/dimension</td> </tr> <tr> <td>Inventory no.</td> <td colspan="3"></td> </tr> <tr> <td colspan="4"> Reference data <table border="1"> <tr> <td>AcquistnValue</td> <td>0,00</td> <td>Acquisition date</td> <td></td> </tr> </table> </td> </tr> </table>				Class				Object Type	1000	EquipType 1000		AuthorizGroup	0001	Group 0001	Division	Weight	1.000	G	Size/dimension	Inventory no.				Reference data <table border="1"> <tr> <td>AcquistnValue</td> <td>0,00</td> <td>Acquisition date</td> <td></td> </tr> </table>				AcquistnValue	0,00	Acquisition date	
Class																															
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Inventory no.																															
Reference data <table border="1"> <tr> <td>AcquistnValue</td> <td>0,00</td> <td>Acquisition date</td> <td></td> </tr> </table>				AcquistnValue	0,00	Acquisition date																									
AcquistnValue	0,00	Acquisition date																													

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

Multilingual Texts: Display

Further texts	Long Text														
Equipment.....:	15102744	Primary lang.	EN												
Short texts <table border="1"> <thead> <tr> <th>S</th> <th>Lang.</th> <th>Sh. text</th> <th>LongText</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>EN</td> <td>EQUIPMENT Test New 4</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td>AR</td> <td>EQUIPMENT description insert</td> <td><input type="checkbox"/></td> </tr> </tbody> </table>				S	Lang.	Sh. text	LongText	<input type="checkbox"/>	EN	EQUIPMENT Test New 4	<input type="checkbox"/>	<input type="checkbox"/>	AR	EQUIPMENT description insert	<input type="checkbox"/>
S	Lang.	Sh. text	LongText												
<input type="checkbox"/>	EN	EQUIPMENT Test New 4	<input type="checkbox"/>												
<input type="checkbox"/>	AR	EQUIPMENT description insert	<input type="checkbox"/>												
Page <input type="text" value="1"/> / <input type="text" value="1"/>															

Perform Consolidation

You can use the Mass create steps to configure and perform the consolidation of master data for Equipment, Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

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, /UGI/MDC_EAM_CONFIG_MATCH_2020 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, /UGI/MDC_EAM_BR_CONFIG_2020 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. Similarly, ensure adapters should be available to be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

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	Evaluation	▼ CL_MDQ_RULE_EVALUATION_ADAPTER	MDQ Rule Evaluation Adapter
183	Filter & Remove	▼ CL_MDC_ADAPTER_FAR	Filter and Remove
183	Matching	▼ /UGI/CL_MDC_ADAPTER_EAM_MTC	New SAP HANA fuzzy search
183	Matching	▼ /UGI/CL_MDC_ADAPTER_EQ_MTC	EQ Inventory number Matching
183	Matching	▼ CL_MDC_ADAPTER_FUZZY_MTC	General Task List SAP HANA fuzzy search
183	Matching	▼ CL_MDC_ADAPTER_MTC	New SAP HANA fuzzy search
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 for General Task List
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.
 - Similarly, ensure to configure Best record calculation process template for Functional Location, Maintenance Plan & Measuring Point, respectively.
5. You can also activate the BC-Set /UGI/MDC_EAM_PT_CONFIG_920 & /UGI/MDC_EAM_PT_CONFIG_2020 for the following default configuration.

Display View "Process Template": Overview of Selected Set										
Dialog Structure		Process Template								
Proc Tmpl	Description	BO Type	Description	Process Workflow ...	Name	Process Goal	Default Templ...	Delete Source	Strategy	
UGI_EQ_EVA	Data Quality Rule Evaluation Equipment	183	Individual Material	WS54500001	MDC Workflow	Data Quality Evalu...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TIMSEQ	MDC : Template Config for EQ Mass update	183	Individual Material	WS54500001	MDC Workflow	Mass Processing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U_EQ_CAB	MDC : Consolidate (Improve Best Record)	183	Individual Material	WS54500001	MDC Workflow	Consolidation of ..	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Improve Best..
U_EQ_CON	MDC : Consolidate Equipment Data	183	Individual Material	WS54500001	MDC Workflow	Consolidation of ..	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U_EQ_LDA	MDC : Load EQ Data	183	Individual Material	WS54500001	MDC Workflow	Consolidation for ..	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U_EQ_STD	MDC : Load Data-Testing with STD(EQ)	183	Individual Material	WS54500001	MDC Workflow	Consolidation of ..	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.



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.

Process Template Step								
Step	Step Type	Description	BO Type	Adapter	Config. ID	Check Pt.	Action Control for next step	Authorization
1	Matching	Matching		CL_MDC_ADAPTER_MTC	SAP_MM1	<input checked="" type="checkbox"/>	No action control	<input type="checkbox"/>
2	Best Record Calculati...	Best Record Calculation		CL_MDC_ADAPTER_MAT_BRC		<input checked="" type="checkbox"/>	No action control	<input type="checkbox"/>
3	Validation	Validation		CL_MDC_ADAPTER_MAT_VAL	SAP_VAL	<input checked="" type="checkbox"/>	No action control	<input type="checkbox"/>
4	Activation	Activation		CL_MDC_ADAPTER_MAT_ACT	SAP_ACT_MM	<input type="checkbox"/>	No action control	<input type="checkbox"/>

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+.

Display View "Master Data Consolidation: Configurations for Validation"									
Configuration ID [UEQ_VAL]									
Master Data Consolidation: Configurations for Validation									
Description	EQ validation Config								
No of Processes	10								
Queue Prefix	MDC_EQ_VAL_Q								
<input type="checkbox"/> Apply Data Quality Rules									
<input checked="" type="checkbox"/> Execute Change Request Checks									
<input type="checkbox"/> BRF+ Checks									
<input type="checkbox"/> Write MDQ Worklist									
<input checked="" type="checkbox"/> Remove Unchanged Rec									
Threshold (%)	0								

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.

Display View "Configurations for Activation for EQ": Details

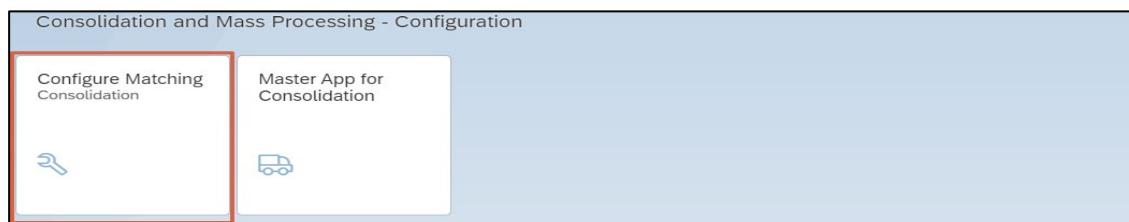
Configuration ID	<input type="text" value="U_ACT_EQ"/>	SAP : EQ Activation			
Configurations for Activation for EQ					
No of Processes	<input type="text" value="10"/>				
Queue Prefix	<input type="text" value="MDC_EQ_ACT_Q_"/>				
New Records					
Activation Target for New Records	<input type="text" value="Activation with Change Request"/>	Type of Chg. Request			
Target for New Incorrect Records	<input type="text" value="EQMAST0B"/>				
Max. Reco					
<input type="text" value="10"/>					
Activation Target for Updated Records	<input type="text" value="Activation of Best Record with Change Request"/>	Type of Chg. Request			
Target for New Incorrect Records	<input type="text" value="EQMAST0B"/>				
Max. Reco					
<input type="text" value="0"/>					
Update Records					
Activation Target for Match Groups	<input type="text" value="Activation of Best Record with Change Request"/>	Type of Chg. Request			
Target for Incorrect Match Groups	<input type="text" value="EQMAST0B"/>				
Max. Reco					
<input type="text" value="10"/>					
Match Group					
Activation Target for Match Groups	<input type="text" value="Activation of Best Record with Change Request"/>	Type of Chg. Request			
Target for Incorrect Match Groups	<input type="text" value="EQMAST0B"/>				
Max. Reco					
<input type="text" value="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					
Retention Time					
Retention Days	<input type="text" value="0"/>	Ret. Time (Hours)	<input type="text" value="0"/>	Ret. Time (Minutes)	<input type="text" value="0"/>

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”.

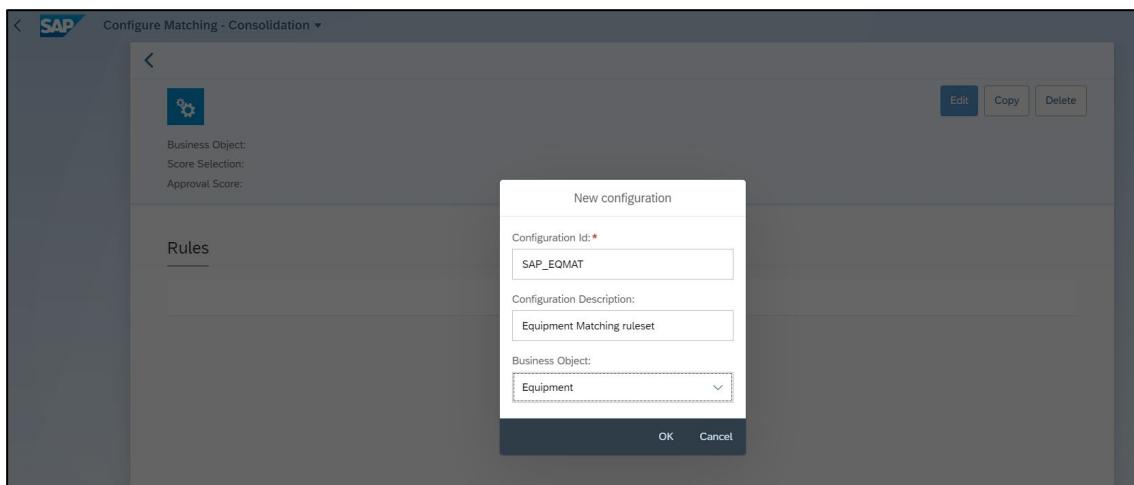


2. Click on “Add configuration” button. Similarly, Configuration can be added for other Objects as well.

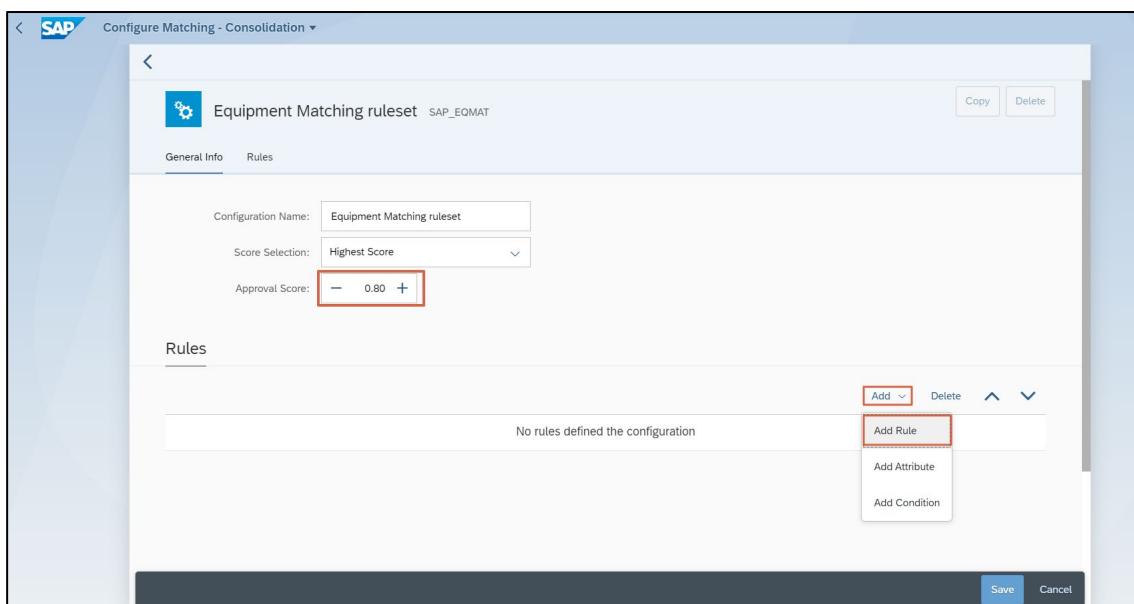
Configure Matching - Consolidation

Manage match configurations			
Match Configurations (12)	Configuration	Business Object	Approval Score
			Number of Rules
<input type="button" value="Add configuration"/>			
	Inventory Number EQ_INV	Equipment	0.90
	Match by EAN/UPC, Mfr Part Number, Description SAP_MM1	Material	0.98
	Matching EBOM data UMDC_EBOM	1345	2
	Matching FLBOM data UMDC_FLBOM	DRF_0013	2

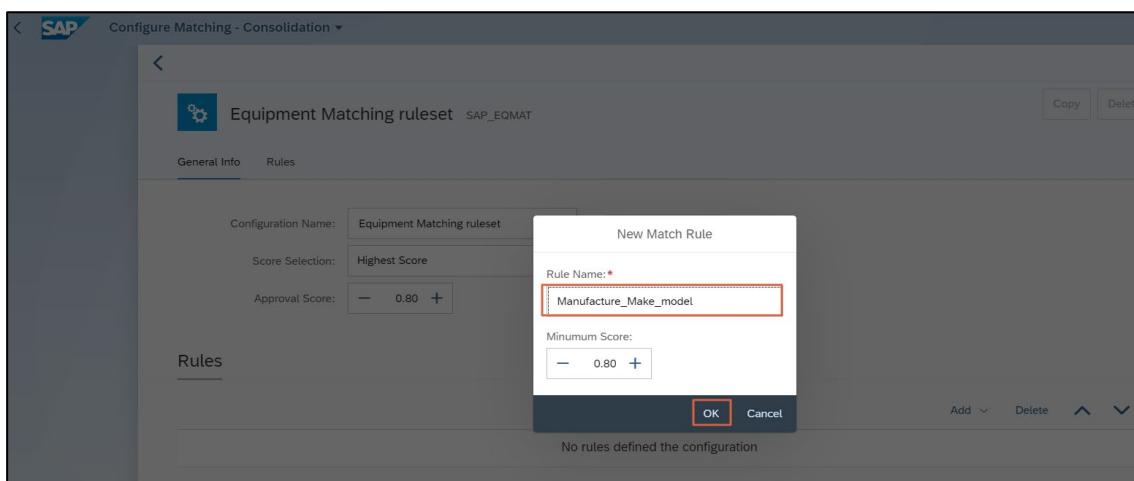
3. Enter the Configuration id and configuration Description and business object. Click on “OK” button.



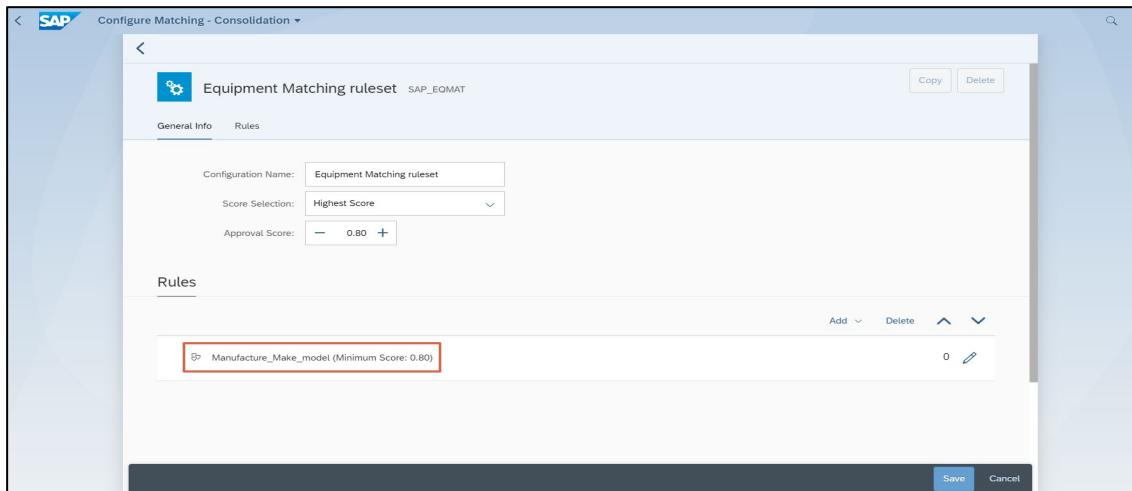
4. Enter Approve score and click on “Add” button and click on “Add Rule”.



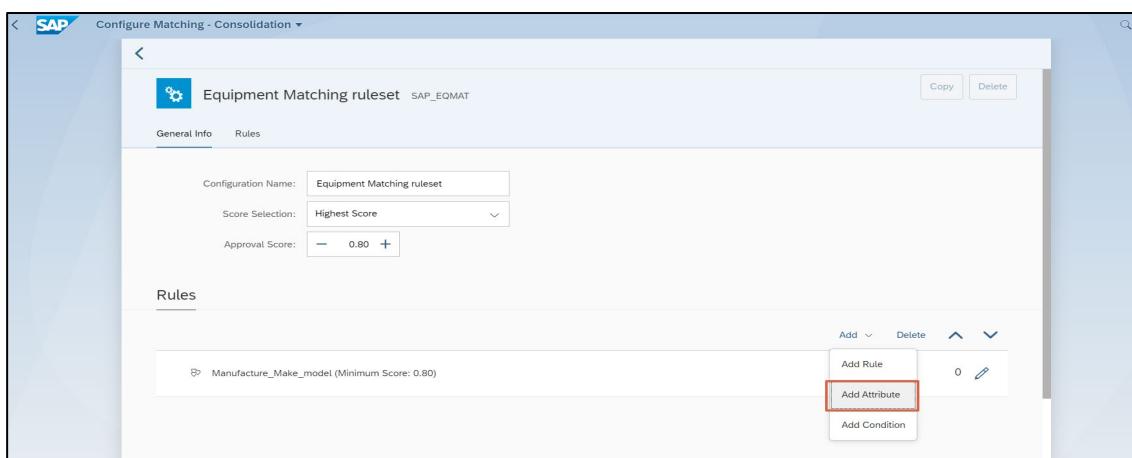
5. Enter "Rule name" and click on “OK” button.



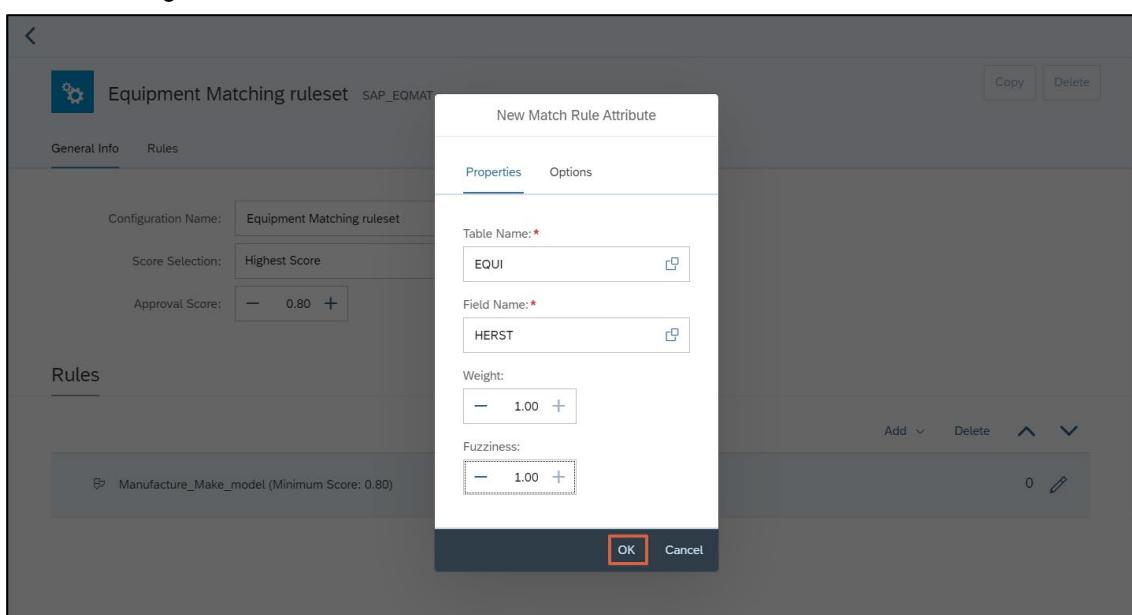
6. Select Rule as highlighted in the following screen.



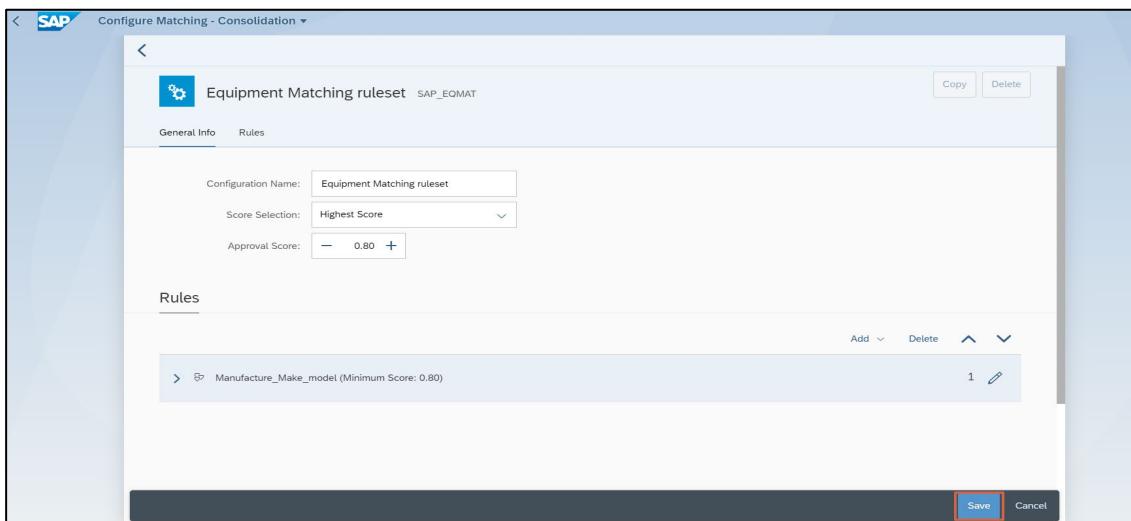
7. Click on “Add” button and Choose “Add Attribute” option.



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



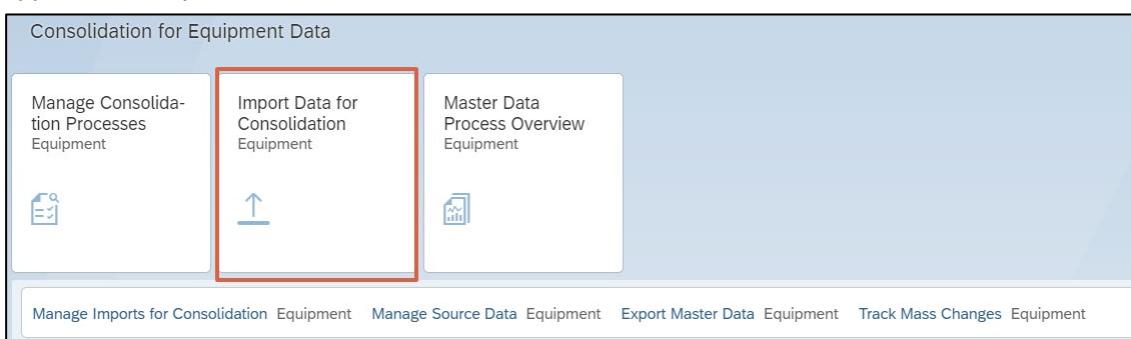
5. Click on “Save” button.



Perform Import

Use the following steps to upload the files used for Consolidation process of Equipment. Similarly, ensure to use mentioned steps for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

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.



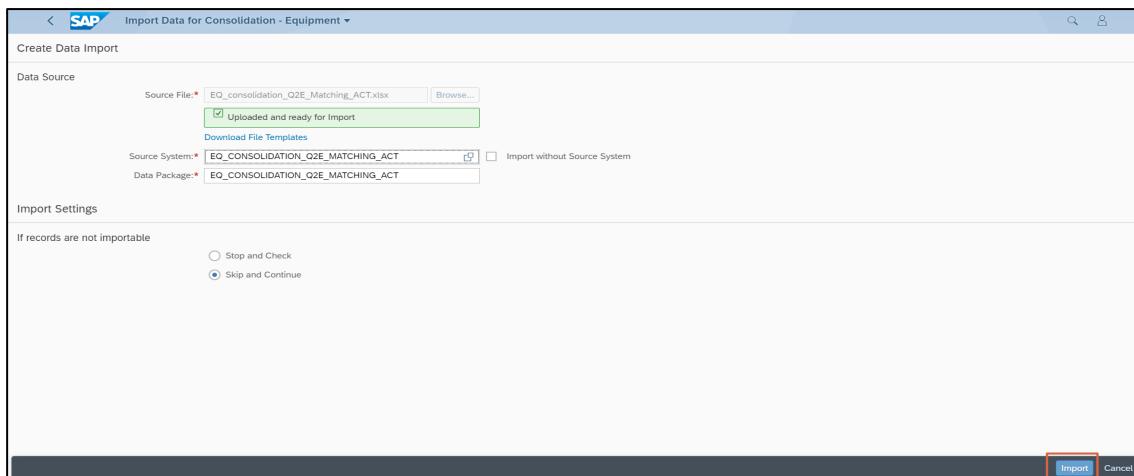
2. Choose the source file from the application server. Provide the “Source System” name and the data package.



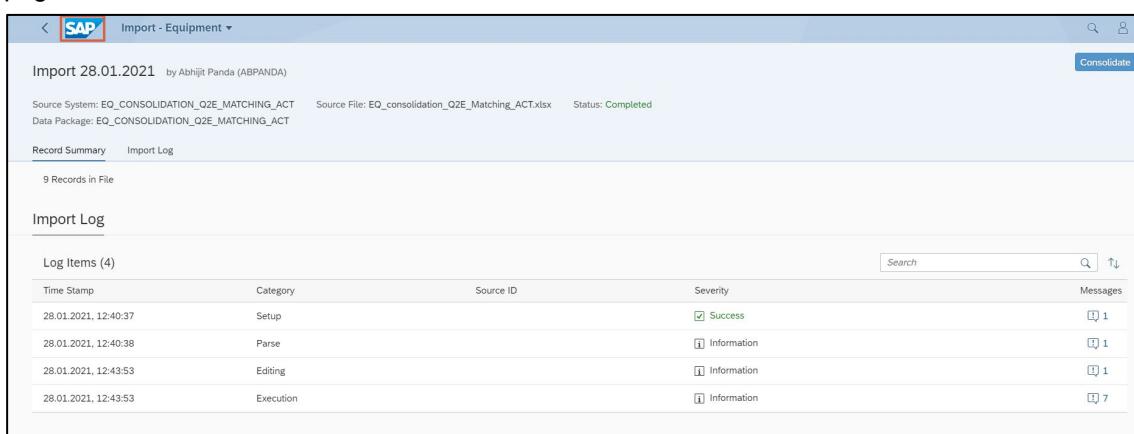
Note

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.



- Click on the "SAP" Logo as highlighted in the following screen to redirect to Fiori Launchpad home page.



Note

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

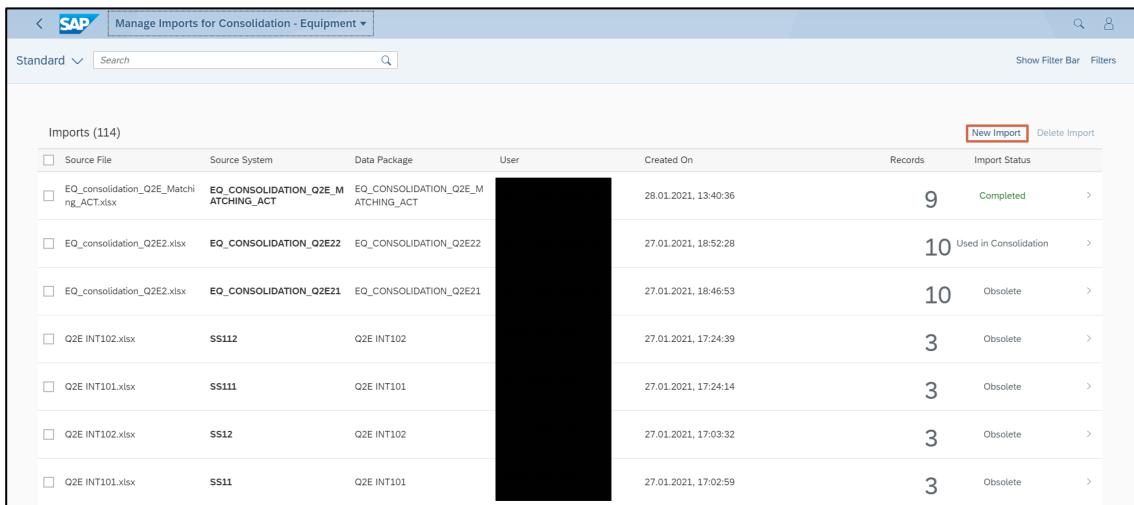
Manage Imports for Consolidation

You can use the Following steps to manage the Imported files for consolidation process for Equipment. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

- Click on "Manage Import for Consolidation - Equipment" link as shown in the following screen.



2. In the manage Import for Consolidation screen, we can see the files already imported in the application & respective file details, such as Source file name, Source system, Data Package, User who imported the file, Imported on, Number of records in the imported file & file status.



Source File	Source System	Data Package	User	Created On	Records	Import Status
EQ_consolidation_Q2E_Matchi ng_ACT.xlsx	EQ_CONsolidation_Q2E_M ATCHING_ACT	EQ_CONsolidation_Q2E_M ATCHING_ACT		28.01.2021, 13:40:36	9	Completed >
EQ_consolidation_Q2E2.xlsx	EQ_CONsolidation_Q2E2	EQ_CONsolidation_Q2E2		27.01.2021, 18:52:28	10	Used in Consolidation >
EQ_consolidation_Q2E2.xlsx	EQ_CONsolidation_Q2E21	EQ_CONsolidation_Q2E21		27.01.2021, 18:46:53	10	Obsolete >
Q2E INT102.xlsx	SS112	Q2E INT102		27.01.2021, 17:24:39	3	Obsolete >
Q2E INT101.xlsx	SS111	Q2E INT101		27.01.2021, 17:24:14	3	Obsolete >
Q2E INT102.xlsx	SS12	Q2E INT102		27.01.2021, 17:03:32	3	Obsolete >
Q2E INT101.xlsx	SS11	Q2E INT101		27.01.2021, 17:02:59	3	Obsolete >

We can click on New Import button which will redirect to Import data for Consolidation application where user can Import file for Consolidating process.

Manage Source Data

You can use the following steps to run the "Manage Source Data - Equipment" application. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

1. Click on "Manage Import for Consolidation - Equipment" link as shown in the following screen.



2. In the manage source data screen, we can see the files already imported in the application & respective file details, such as Source system, Data Package, User who imported the file, imported on, Number of records in the imported file & file status with Records' status KPI.

Data Packages (252)				Import Data	Delete
	Last Import	Import Status	Records	New	Consolidated
<input type="checkbox"/> EQ_CONsolidation_Q2E_MATCHING_ACT	28.01.2021, 13:40:36 by [REDACTED]	Completed	9	9	0
<input type="checkbox"/> EQ_CONsolidation_Q2E_MATCHING_ACT				0	0
<input type="checkbox"/> EQ_CONsolidation_Q2E22	27.01.2021, 18:52:28 by [REDACTED]	Used in Consolidation	10	0	0
<input type="checkbox"/> EQ_CONsolidation_Q2E22				0	0
<input type="checkbox"/> EQ_CONsolidation_Q2E21	27.01.2021, 18:46:53 by [REDACTED]	Obsolete	10	10	0
<input type="checkbox"/> EQ_CONsolidation_Q2E21				0	0

We can click on New Import button which will redirect to Import data for Consolidation application where user can Import file for Consolidating process.

Manage Consolidation Process - With Matching & Best record Calculation Template.

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

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



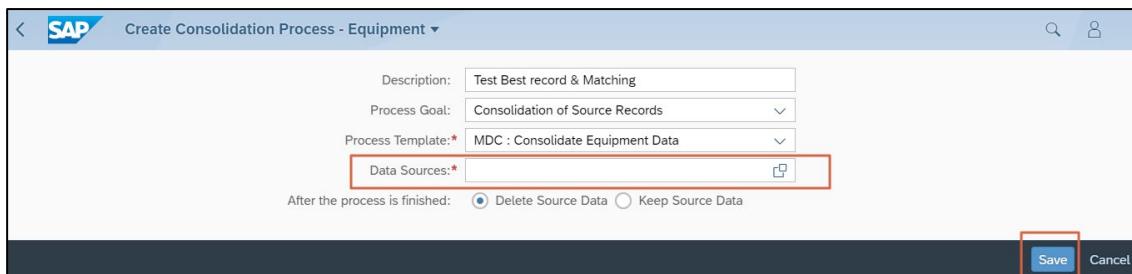
The screenshot shows the SAP Fiori Launchpad with the following interface elements:

- Header:** Consolidation for Equipment Data
- Card 1:** Manage Consolidation Processes Equipment (highlighted with a red box)
- Card 2:** Import Data for Consolidation Equipment
- Card 3:** Master Data Process Overview Equipment
- Footer:** Manage Imports for Consolidation Equipment | Manage Source Data Equipment | Export Master Data Equipment | Track Mass Changes Equipment

- Click on Create Process button to Start a consolidation process.

Processes (205)							Create Process	Track Changes	Delete
	Process	Data Source	User	Creation Date	Status	Process Goal	Records		
<input type="checkbox"/>	EQ_consolidation_Q2E2.xlsx Process ID: 2068	EO_CONsolidation_Q2E22	[REDACTED]	27 Jan	In Retention	Consolidation of Source Records	10		
<input type="checkbox"/>	SSM1 Process ID: 2066	2 Data Sources	[REDACTED]	27 Jan	In Retention	Consolidation of Source Records	6		
<input type="checkbox"/>	GUYTUY Process ID: 2064	2 Data Sources	[REDACTED]	27 Jan	In Retention	Consolidation of Source Records	6		

- 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: Test Best record & Matching

Process Goal: Consolidation of Source Records

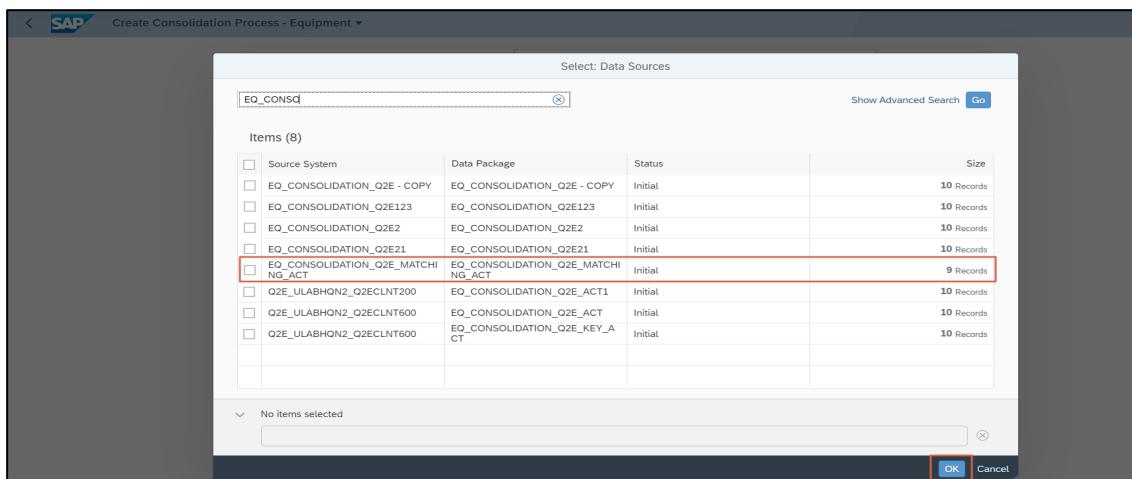
Process Template: MDC : Consolidate Equipment Data

Data Sources:*

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

Save **Cancel**

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



Select: Data Sources

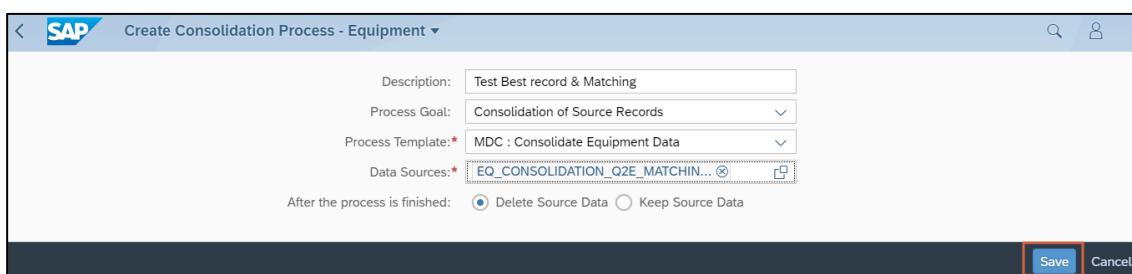
Items (8)

Source System	Data Package	Status	Size
EQ_CONSOL	EQ_CONSOLIDATION_Q2E - COPY	Initial	10 Records
EQ_CONSOLIDATION_Q2E123	EQ_CONSOLIDATION_Q2E123	Initial	10 Records
EQ_CONSOLIDATION_Q2E2	EQ_CONSOLIDATION_Q2E2	Initial	10 Records
EQ_CONSOLIDATION_Q2E21	EQ_CONSOLIDATION_Q2E21	Initial	10 Records
EQ_CONSOLIDATION_Q2E_MATCHING_ACT	EQ_CONSOLIDATION_Q2E_MATCHING_ACT	Initial	9 Records
Q2E_ULABHQN2_Q2ECLNT200	EQ_CONSOLIDATION_Q2E_ACT1	Initial	10 Records
Q2E_ULABHQN2_Q2ECLNT600	EQ_CONSOLIDATION_Q2E_ACT	Initial	10 Records
Q2E_ULABHQN2_Q2ECLNT600	EQ_CONSOLIDATION_Q2E_KEY_ACCT	Initial	10 Records

No Items selected

OK **Cancel**

5. Click on “Save” button. A new Process ID has been created.



SAP Create Consolidation Process - Equipment

Description: Test Best record & Matching

Process Goal: Consolidation of Source Records

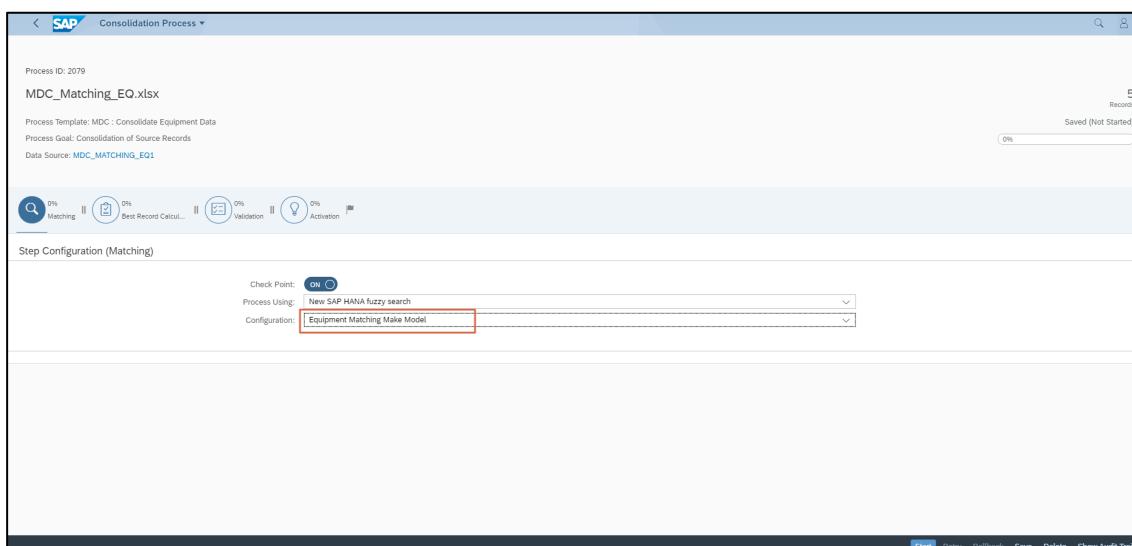
Process Template: MDC : Consolidate Equipment Data

Data Sources: EQ_CONSOLIDATION_Q2E_MATCHIN... *

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

Save **Cancel**

6. In Matching Configuration select the Matching Configuration created earlier. Click on “Start” button to initiate the process.



Consolidation Process

Process ID: 2079

MDC_Matching_EQ.xlsx

Process Template: MDC : Consolidate Equipment Data

Process Goal: Consolidation of Source Records

Data Source: MDC_MATCHING_EQ1

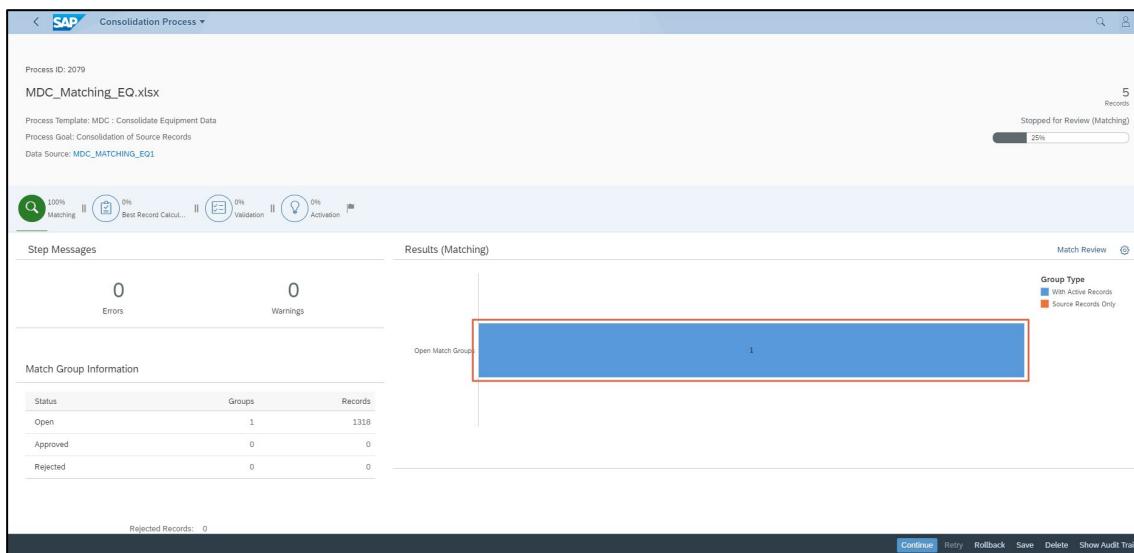
5 Records
Saved (Not Started)
0%

Step Configuration (Matching)

Check Point:
Process Using: New SAP HANA fuzzy search
Configuration: Equipment Matching Make Model

Start **Retry** **Rollback** **Save** **Delete** **Show Audit Trail**

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

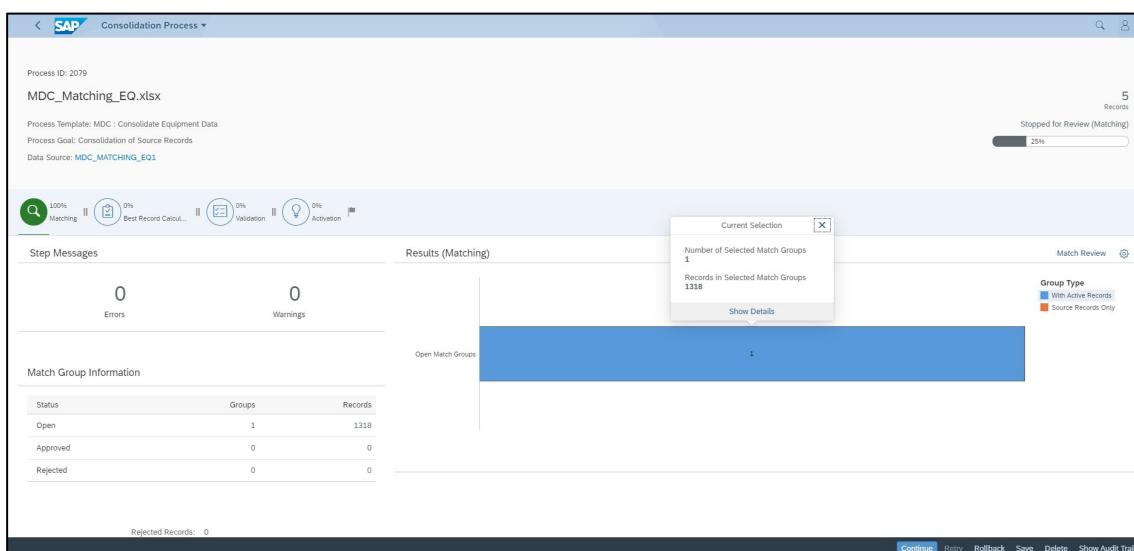


The records are bundled into “Open match groups” or “Approved match” groups based on the results of matching rulesets as configured using the “Configure Matching” application.

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.

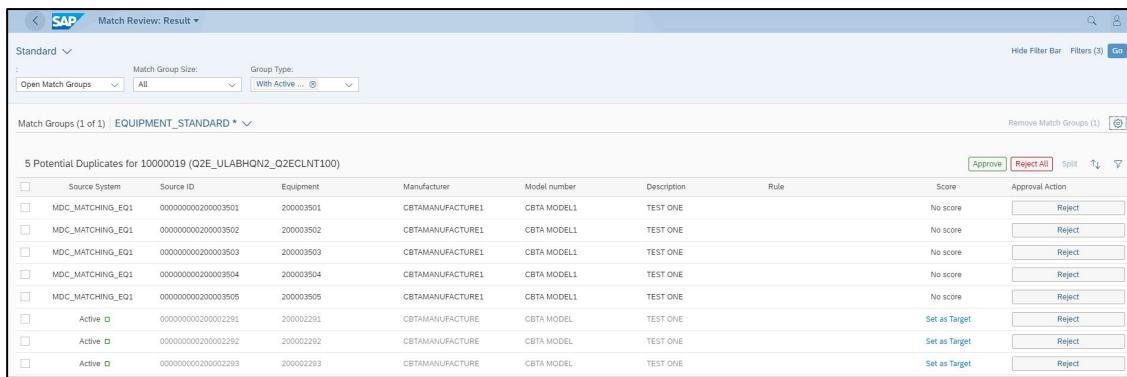
- Click on “Show Details” to navigate to the records for review and approval.



- 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.



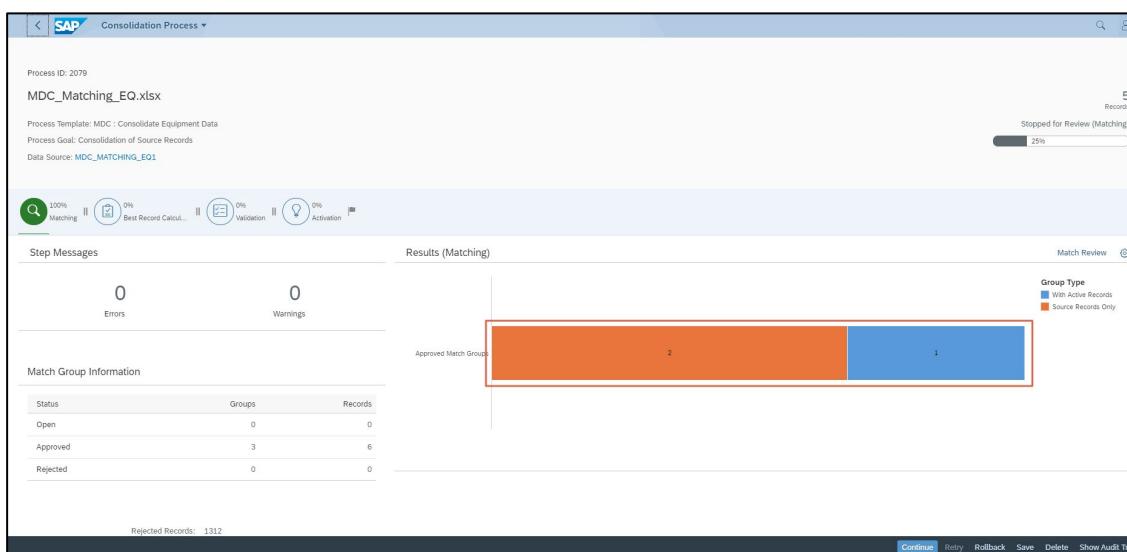
The screenshot shows the SAP Match Review: Result interface. At the top, there are filters for 'Match Group Size' (All) and 'Group Type' (With Active ...). Below this, a table lists '5 Potential Duplicates for 10000019 (QZE_ULABHQN2_Q2ECLNT100)'. The columns include Source System, Source ID, Equipment, Manufacturer, Model number, Description, Rule, Score, and Approval Action. The table shows several entries for CBTAMANUFACTURE1 equipment with model numbers 3501 through 3505.

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



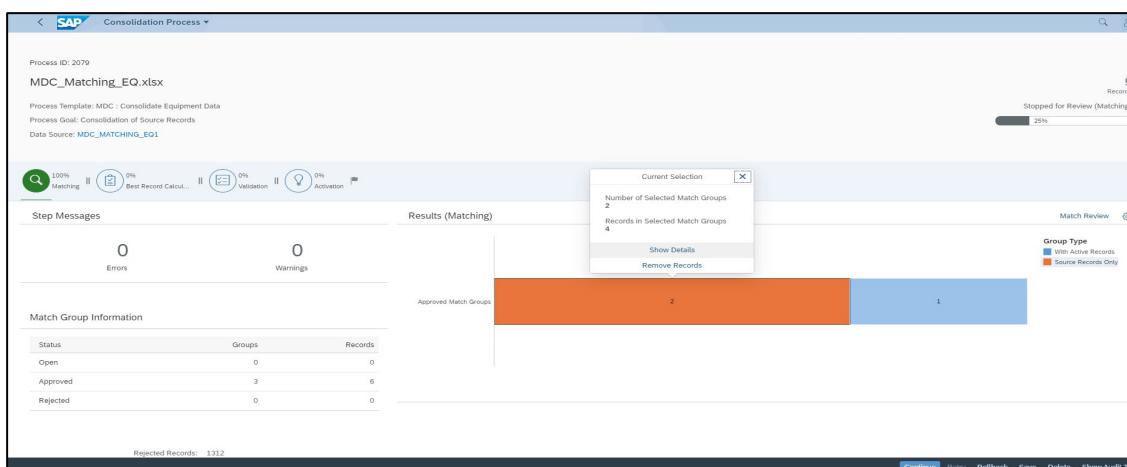
The screenshot shows the SAP Match Review: Result interface. It displays two sets of potential duplicates: '2 Potential Duplicates for 200003501 (MDC_MATCHING_EQ1)' and '2 Potential Duplicates for 200003503 (MDC_MATCHING_EQ1)'. The columns are identical to the previous screenshot, showing Source System, Source ID, Equipment, Manufacturer, Model number, Description, Rule, Score, and Approval Action. The table shows entries for CBTAMANUFACTURE1 equipment with model numbers 3501 and 3503.

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



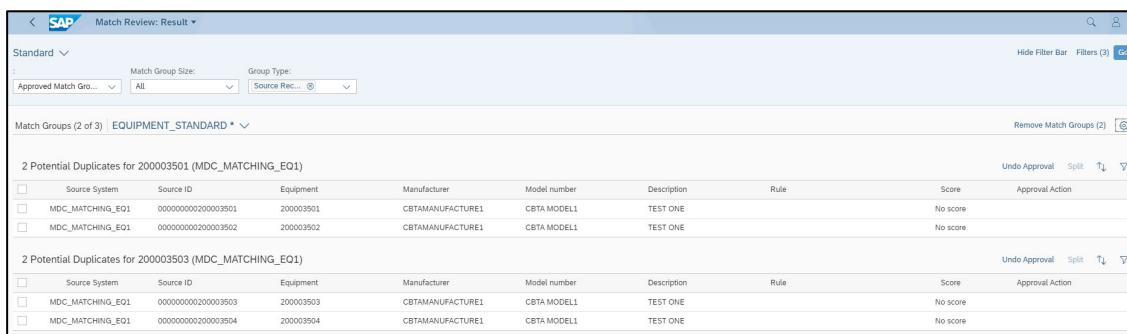
The screenshot shows the SAP Consolidation Process interface for process ID 2079, titled 'MDC_Matching_EQ.xlsx'. The top right shows '5 Records' and 'Stopped for Review (Matching)'. The main area features a progress bar at 25%. Below it, a graph titled 'Approved Match Groups' shows two segments: one orange segment labeled '2' and one blue segment labeled '1'. To the left, the 'Step Messages' section shows 0 Errors and 0 Warnings. The 'Results (Matching)' section also shows 0 Errors and 0 Warnings. A 'Match Group Information' table shows counts for Open, Approved, and Rejected status. At the bottom, buttons for Continue, Retry, Rollback, Save, Delete, and Show Audit Trail are visible.

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



This screenshot is similar to the previous one, showing the SAP Consolidation Process interface for process ID 2079. A context menu is open over the 'Approved Match Groups' graph, with options 'Current Selection', 'Number of Selected Match Groups (2)', 'Records in Selected Match Groups (4)', 'Show Details', and 'Remove Records'. The rest of the interface is identical to the previous screenshot, including the Step Messages, Results (Matching), and Match Group Information sections, as well as the bottom navigation buttons.

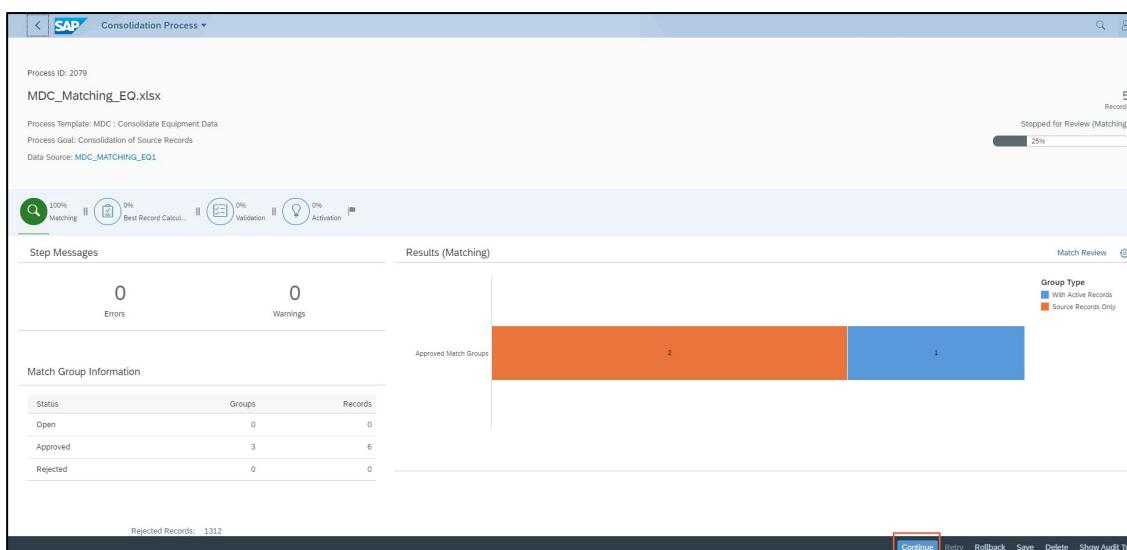
The following screen shows the records having “No score” as there are no matches found in the current system with the active records. These records will go for new record creation process.



Source System	Source ID	Equipment	Manufacturer	Model number	Description	Rule	Score	Approval Action
MDC_MATCHING_EQ1	00000000200003501	200003501	CBTAMANUFACTURE1	CBTA MODEL1	TEST ONE		No score	
MDC_MATCHING_EQ1	00000000200003502	200003502	CBTAMANUFACTURE1	CBTA MODEL1	TEST ONE		No score	

Source System	Source ID	Equipment	Manufacturer	Model number	Description	Rule	Score	Approval Action
MDC_MATCHING_EQ1	00000000200003503	200003503	CBTAMANUFACTURE1	CBTA MODEL1	TEST ONE		No score	
MDC_MATCHING_EQ1	00000000200003504	200003504	CBTAMANUFACTURE1	CBTA MODEL1	TEST ONE		No score	

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



Process ID: 2079
MDC_Matching_EQ.xlsx
Process Template: MDC : Consolidate Equipment Data
Process Goal: Consolidation of Source Records
Data Source: MDC_MATCHING_EQ1

5 Records Stopped for Review (Matching)

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

Step Messages: Errors 0, Warnings 0

Results (Matching): Approved Match Groups 2, Rejected 1

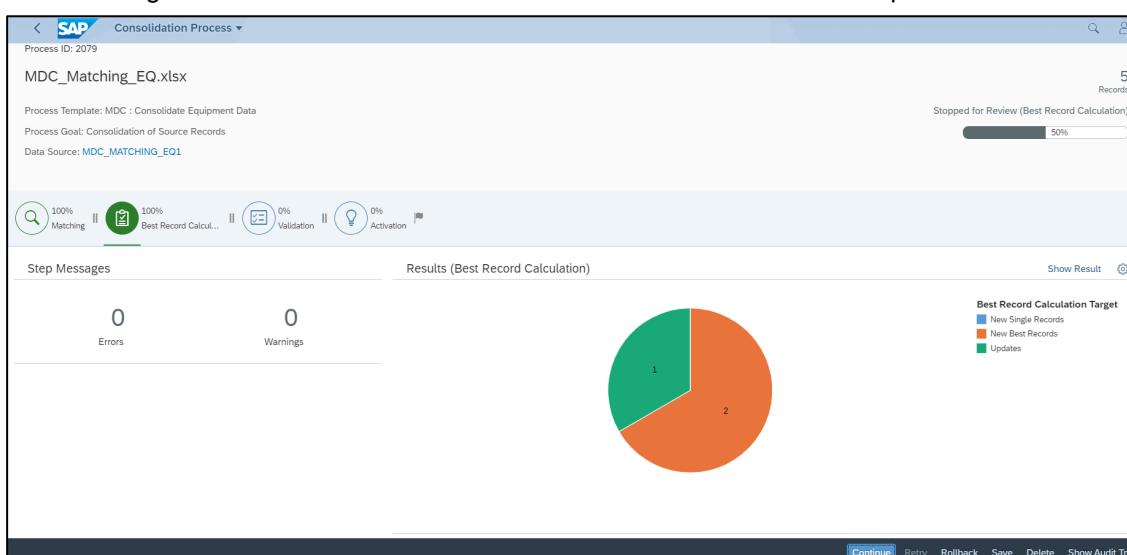
Match Group Information:

Status	Groups	Records
Open	0	0
Approved	3	6
Rejected	0	0

Rejected Records: 1312

Match Review: Continue, Retry, Rollback, Save, Delete, Show Audit Trail

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



Process ID: 2079
MDC_Matching_EQ.xlsx
Process Template: MDC : Consolidate Equipment Data
Process Goal: Consolidation of Source Records
Data Source: MDC_MATCHING_EQ1

5 Records Stopped for Review (Best Record Calculation)

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

Step Messages: Errors 0, Warnings 0

Results (Best Record Calculation):

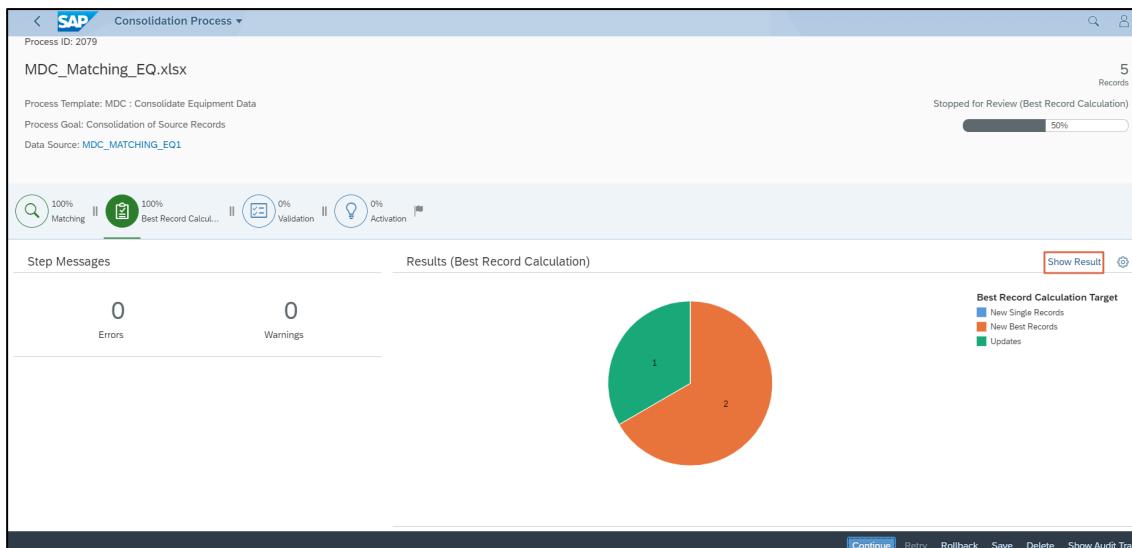
Best Record Calculation Target:

- New Single Records
- New Best Records
- Updates

A pie chart shows the distribution of records: 1 Update and 2 New Best Records.

Show Result, Continue, Retry, Rollback, Save, Delete, Show Audit Trail

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

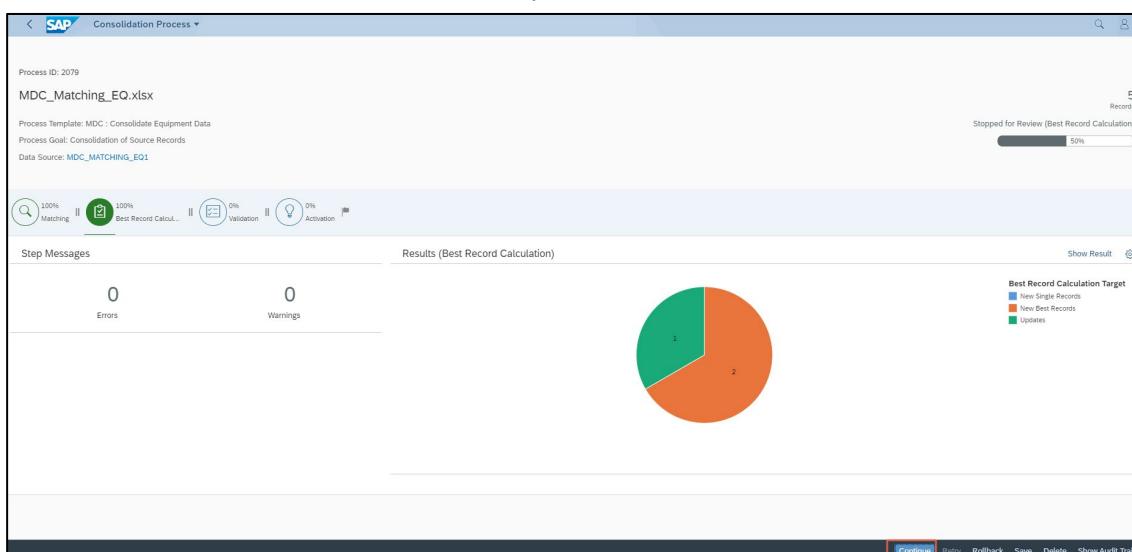


14. You can click on the “Show Results” button to review and change the data if needed.

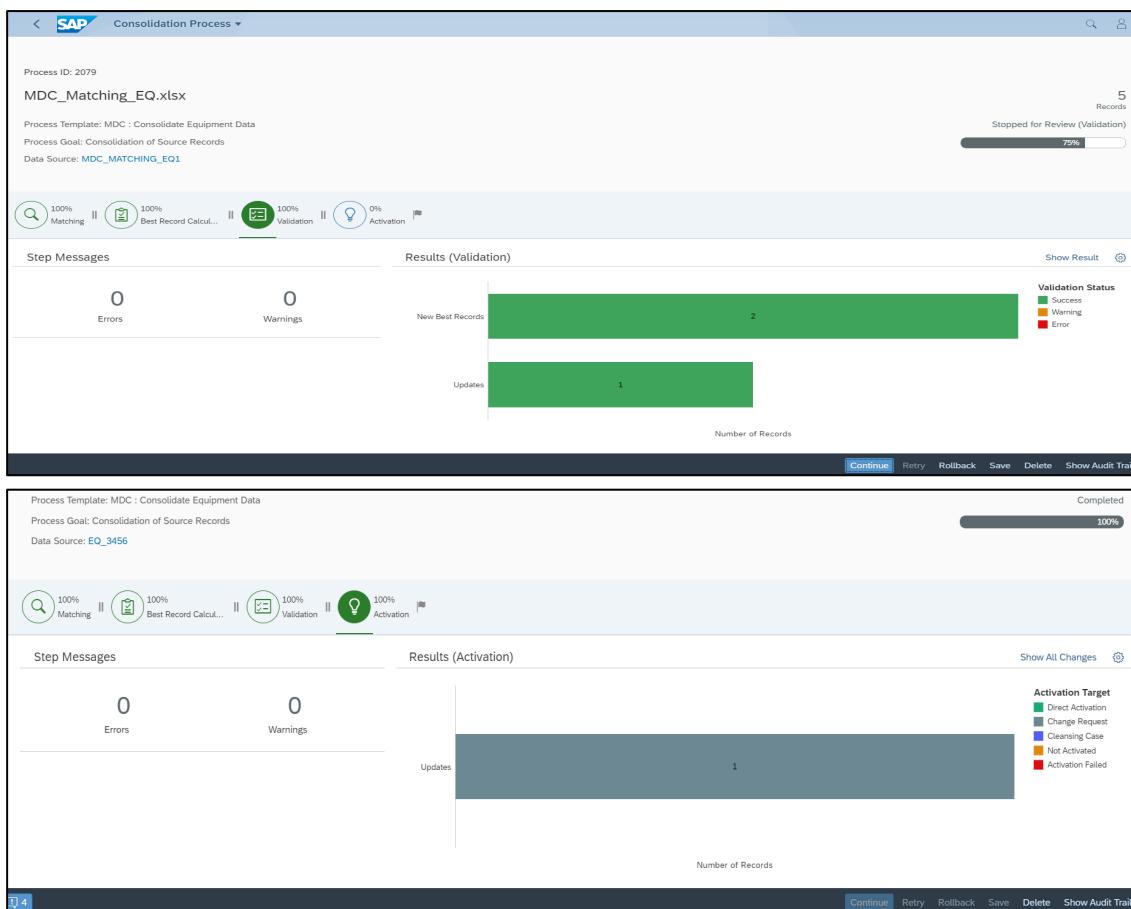
The following screen shows the records to be considered for creation and updation. In case of update scenario, the changes can be viewed by navigating to the “Details” column of the overview tab to view the changes against the records.

Best Record Calculation: Result											More	
3 Overview	12 Equipment Text	3 Equipment	2 Address	2 URL	2 Phone	1 Fax	12 Master Warranty - Object Assignment	5 Characteristics	1 Class information	3 Equipment time segment	1 Document Assignment	More
Records (3) EQUIPMENT_STANDARD												
<input type="checkbox"/> Source System	Source ID	Equipment	AutorizGroup	EquipCategory	Object Type	Size/dimens.	Manufacturer	Model number	Details			
<input type="checkbox"/> MDC_MATCHING_EQ1	000000000200003501	200003501	0001	M	3000	20	CBTAMANUFACTURE1	CBTA MODEL1				
Description: TEST ONE												
<input type="checkbox"/> MDC_MATCHING_EQ1	000000000200003503	200003503	0001	M	3000	20	CBTAMANUFACTURE1	CBTA MODEL1				
Description: TEST ONE												
<input type="checkbox"/> Q2E_ULABHQN2_Q2E	000000000200002291	200002291	0001	M	3000	20	CBTAMANUFACTURE	CBTA MODEL				
Description: CLNT100												
Description: TEST ONE												

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



16. After Getting the validation result, click on continue for activation of records.



Note

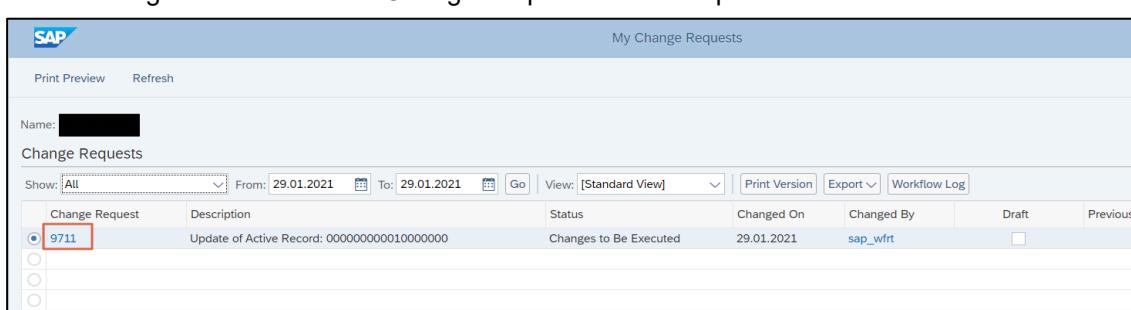
In case the direct activation option is used, the data gets created in backend and does not go through the governance process.

17. Launch t-code NWBC. Use the role /UGI/_MDGEAM_MENU to navigate to the Change Requests created.
The CR of type EQMAST0B is created with username as SAP_WFRT (background used).
18. To search for the Change Request created, Launch t-code "NWBC". Use the role "/UGI/_MDGEAM_MENU" to navigate to the Equipment screens.
19. 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.



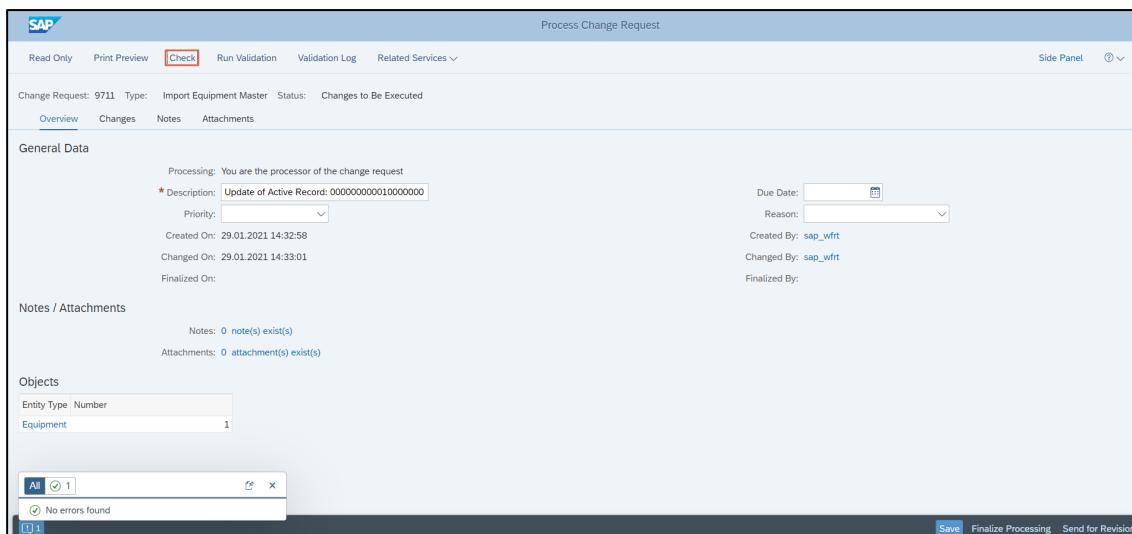
The figure shows a screenshot of the SAP Fiori interface titled 'My Change Requests'. The table displays the following data:

Change Request	Description	Status	Changed On	Changed By	Draft	Previous
9711	Update of Active Record: 00000000001000000	Changes to Be Executed	29.01.2021	sap_wfrt	<input type="checkbox"/>	
...						
...						
...						
...						

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

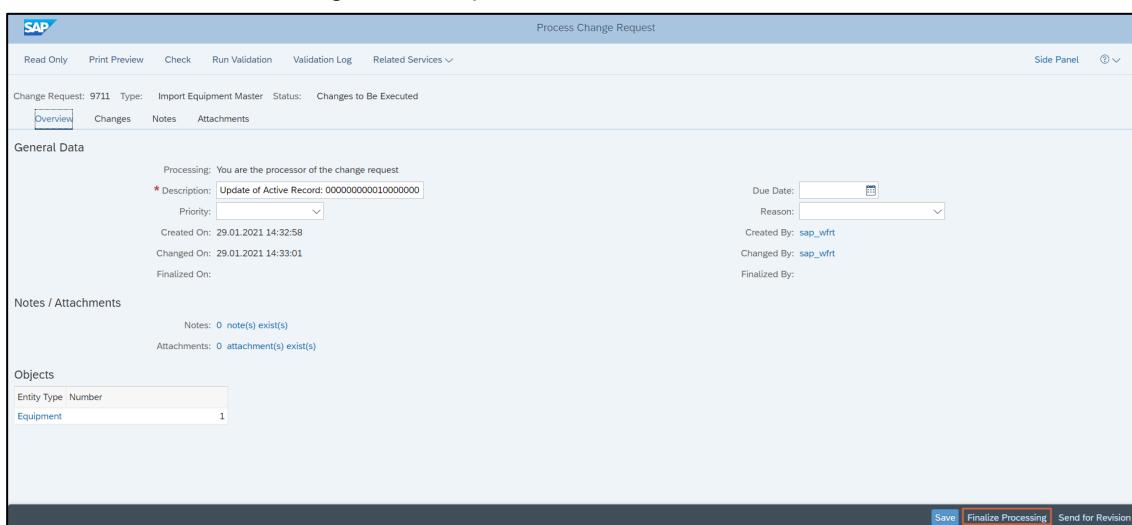
21. Open the Change Request created, click on “Check” button to perform validation.

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



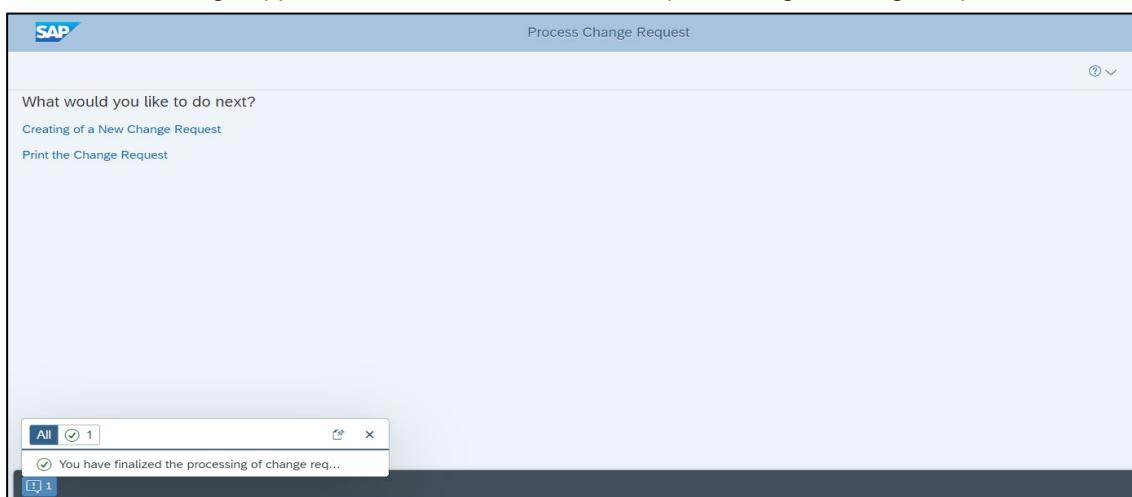
The screenshot shows the SAP Process Change Request interface. The top navigation bar includes 'Read Only', 'Print Preview', 'Check' (which is highlighted with a red box), 'Run Validation', 'Validation Log', and 'Related Services'. Below the navigation is a status bar showing 'Change Request: 9711 Type: Import Equipment Master Status: Changes to Be Executed'. The main content area has tabs for 'Overview' (selected), 'Changes', 'Notes', and 'Attachments'. Under 'General Data', there is a note: 'Processing: You are the processor of the change request' and a field 'Description: Update of Active Record: 0000000001000000'. Other fields include 'Priority' (dropdown), 'Created On' (29.01.2021 14:32:58), 'Changed On' (29.01.2021 14:33:01), 'Finalized On' (empty), 'Due Date' (calendar icon), 'Reason' (dropdown), 'Created By' (sap_wfrt), 'Changed By' (sap_wfrt), and 'Finalized By' (empty). Under 'Notes / Attachments', it says 'Notes: 0 note(s) exist(s)' and 'Attachments: 0 attachment(s) exist(s)'. Under 'Objects', there is a table with one row: Entity Type: Number, Equipment: 1. A message box at the bottom left says 'All (✓ 1)' and 'No errors found'. At the bottom right are buttons for 'Save', 'Finalize Processing' (highlighted with a red box), and 'Send for Revision'.

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



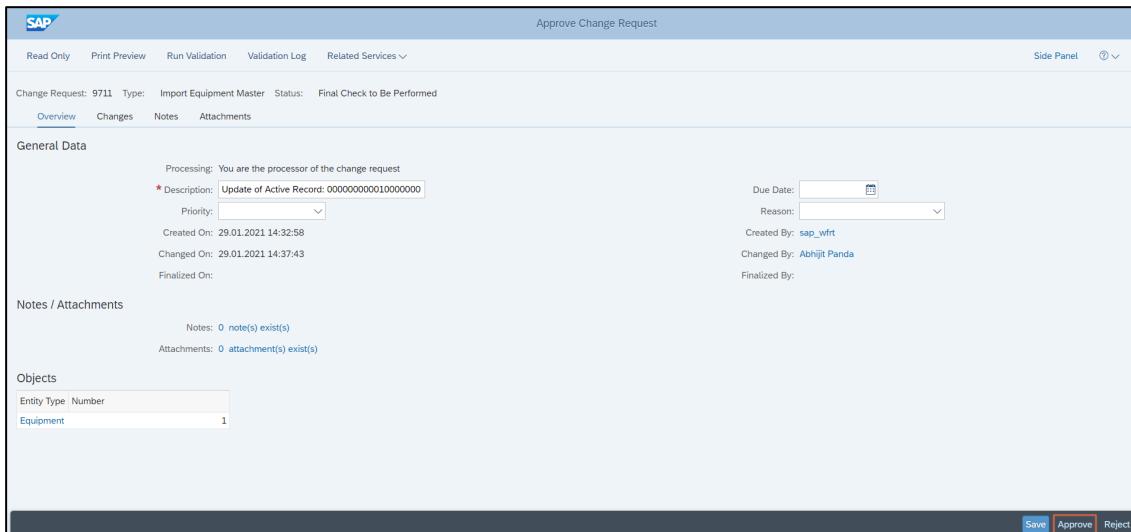
This screenshot is identical to the previous one, showing the SAP Process Change Request interface with the 'Check' button highlighted. The 'Finalize Processing' button is also highlighted with a red box at the bottom right.

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



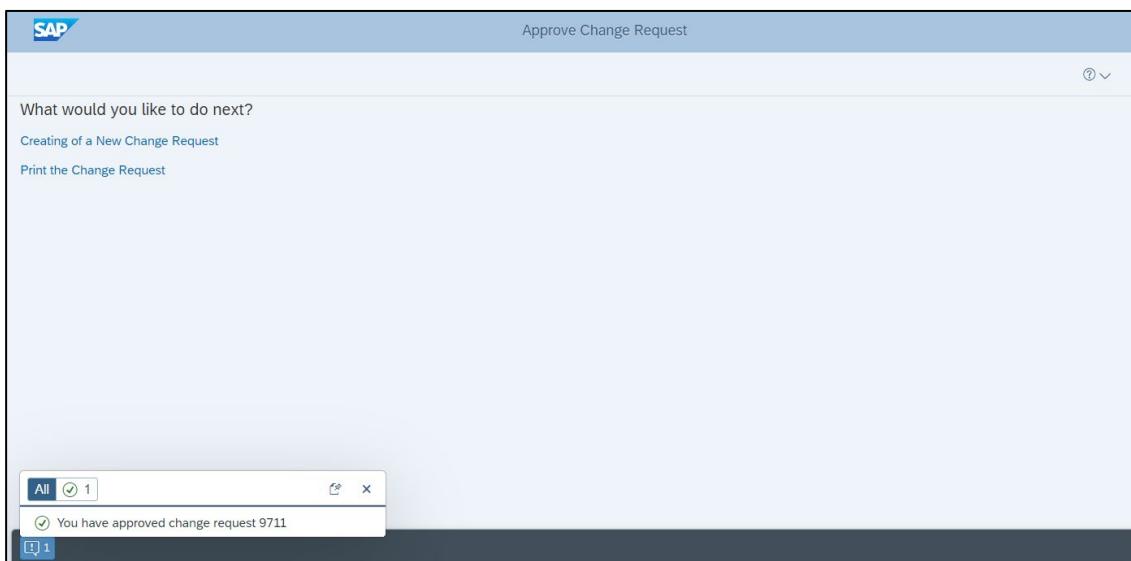
The screenshot shows the SAP Process Change Request interface after finalization. The 'Finalize Processing' button is highlighted with a red box. A message box at the bottom left says 'All (✓ 1)' and 'You have finalized the processing of change req...'. At the bottom right are buttons for 'Save', 'Finalize Processing' (highlighted with a red box), and 'Send for Revision'.

23. Click on the “Approve” button.



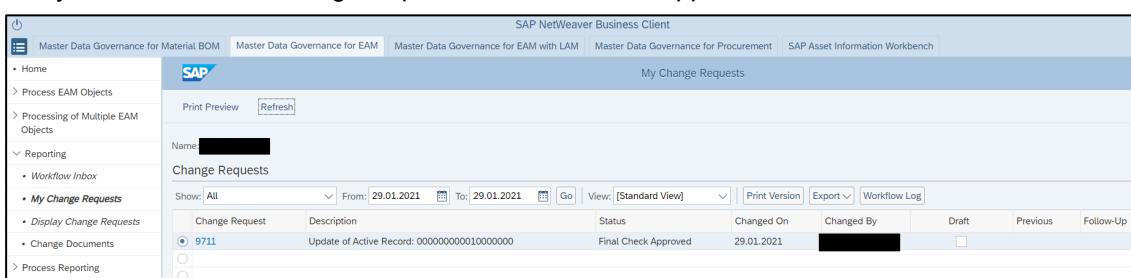
The screenshot shows the SAP Approve Change Request interface. At the top, it displays 'Change Request: 9711 Type: Import Equipment Master Status: Final Check To Be Performed'. Below this, there are tabs for 'Overview', 'Changes', 'Notes', and 'Attachments', with 'Overview' selected. The 'General Data' section contains fields for 'Description' (Update of Active Record: 0000000001000000), 'Priority' (dropdown), 'Created On' (29.01.2021 14:32:58), 'Changed On' (29.01.2021 14:37:43), 'Finalized On' (empty), 'Due Date' (dropdown), 'Reason' (dropdown), 'Created By' (sap_wfrt), 'Changed By' (Abhijit Panda), and 'Finalized By' (empty). The 'Notes / Attachments' section shows 'Notes: 0 note(s) exist(s)' and 'Attachments: 0 attachment(s) exist(s)'. The 'Objects' section lists 'Entity Type: Number' and 'Equipment' with a count of 1. At the bottom right, there are buttons for 'Save', 'Approve' (highlighted in orange), and 'Reject'.

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



The screenshot shows the SAP Approve Change Request interface after approval. It displays a success message: 'You have approved change request 9711'. The rest of the screen is mostly empty, showing the SAP header and some navigation links.

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



The screenshot shows the SAP My Change Requests interface. The left sidebar has a tree view with nodes like 'Home', 'Process EAM Objects', 'Processing of Multiple EAM Objects', 'Reporting', 'Workflow Inbox', 'My Change Requests' (selected), 'Display Change Requests', 'Change Documents', and 'Process Reporting'. The main area is titled 'My Change Requests' and shows a table for 'Change Requests'. The table has columns: Change Request, Description, Status, Changed On, Changed By, Draft, Previous, and Follow-Up. One row is selected: '9711 Update of Active Record: 0000000001000000' with 'Status: Final Check Approved', 'Changed On: 29.01.2021', and 'Changed By: [redacted]'. There are also buttons for 'Print Preview' and 'Refresh' at the top of the table.

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

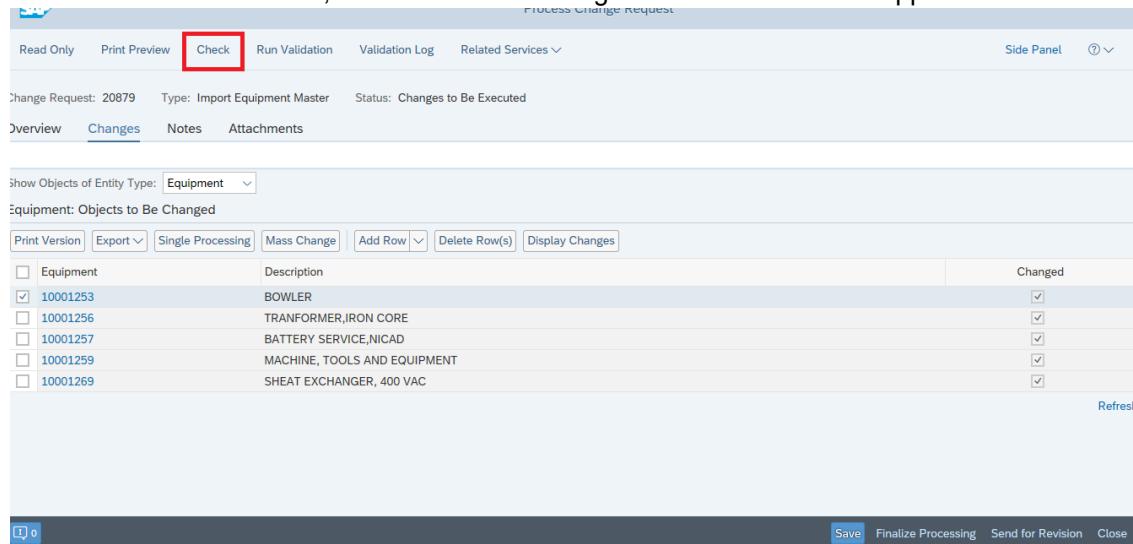
Display Equipment : General Data

Class overview			Measuring points/counters			CET																																										
Equipment	10000000		Category		Machines																																											
Description	Fourth Language																																															
Status	AVLB																																															
Valid From	15.10.2020	Valid To			31.12.9999																																											
<input checked="" type="radio"/> General <input type="radio"/> Location <input type="radio"/> Organization <input type="radio"/> Structure <input checked="" type="radio"/> DMS <input type="radio"/> Sales and Distribution <input type="radio"/> SerData																																																
General data <table border="1"> <tr> <td>Class</td> <td>EAM92_CBTAA_EQ1</td> <td>EAM92_CBTAA_EQ</td> </tr> <tr> <td>Object Type</td> <td colspan="2"></td> </tr> <tr> <td>AuthorizGroup</td> <td>0001</td> <td>Group 0001</td> <td>Division</td> <td colspan="3"><input type="checkbox"/></td> </tr> <tr> <td>Weight</td> <td>0,000</td> <td><input type="checkbox"/></td> <td>Size/dimension</td> <td colspan="3"><input type="checkbox"/></td> </tr> <tr> <td>Inventory no.</td> <td colspan="2"></td> <td>Start-up date</td> <td colspan="3"><input type="checkbox"/></td> </tr> </table>							Class	EAM92_CBTAA_EQ1	EAM92_CBTAA_EQ	Object Type			AuthorizGroup	0001	Group 0001	Division	<input type="checkbox"/>			Weight	0,000	<input type="checkbox"/>	Size/dimension	<input type="checkbox"/>			Inventory no.			Start-up date	<input type="checkbox"/>																	
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AuthorizGroup	0001	Group 0001	Division	<input type="checkbox"/>																																												
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Classification <table border="1"> <tr> <td>CURRENCY</td> <td colspan="6">999,00 USD</td> </tr> <tr> <td>Fuel Consumption</td> <td colspan="6"></td> </tr> <tr> <td>Color of the COmpressor</td> <td colspan="6">DESCRIPTION BLACK</td> </tr> <tr> <td>Compressor Powerrating</td> <td colspan="6">200 KW</td> </tr> <tr> <td>Compressor Inputrating</td> <td colspan="6"></td> </tr> <tr> <td>Speed of the Compressor in KWH</td> <td colspan="6">55 kW.h</td> </tr> </table>							CURRENCY	999,00 USD						Fuel Consumption							Color of the COmpressor	DESCRIPTION BLACK						Compressor Powerrating	200 KW						Compressor Inputrating							Speed of the Compressor in KWH	55 kW.h					
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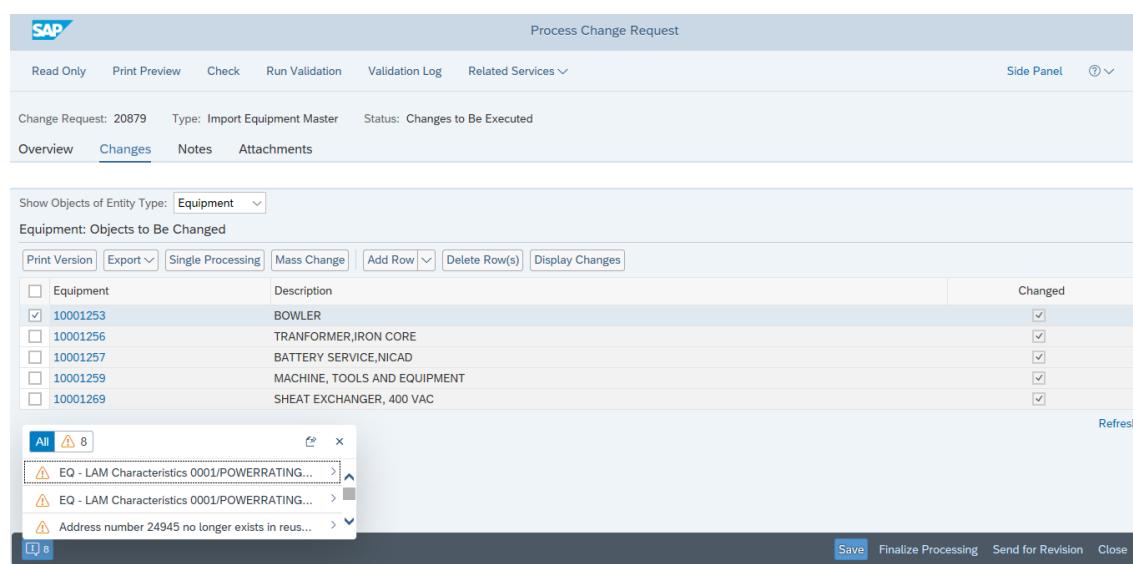
26. Click on the Change Request with description starting with text “Update of Active Record...” to view the updated records.

27. 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.

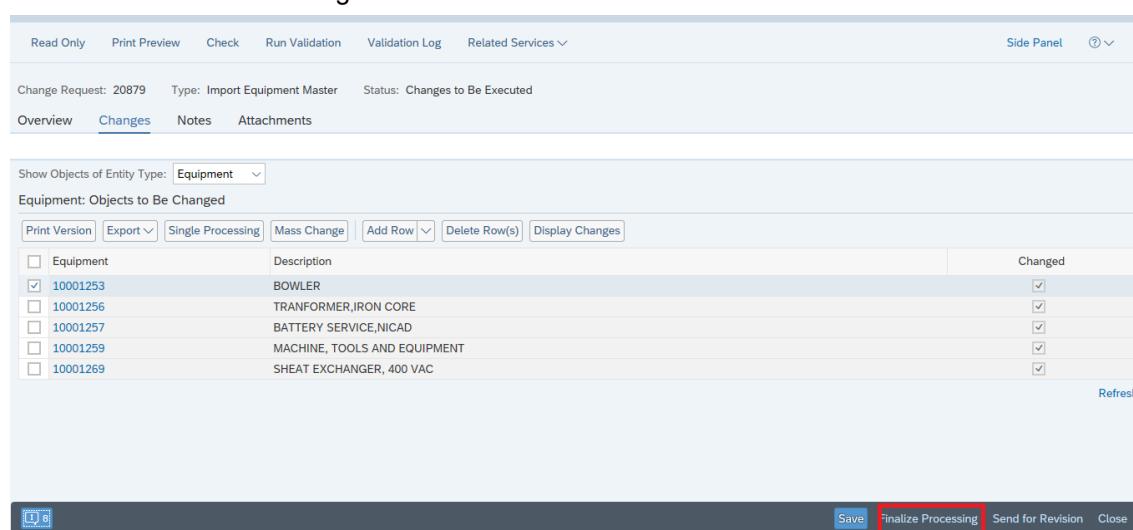


The screenshot shows the SAP Process Change Request interface. The 'Check' button in the top navigation bar is highlighted with a red box. The status bar at the bottom indicates 'Changes to Be Executed'. The main area displays a table of equipment objects being changed, with all rows showing a checked 'Changed' column. A modal dialog box is open, showing a list of 8 errors related to LAM Characteristics and address numbers. The 'Finalize Processing' button is visible in the bottom right corner of the dialog.



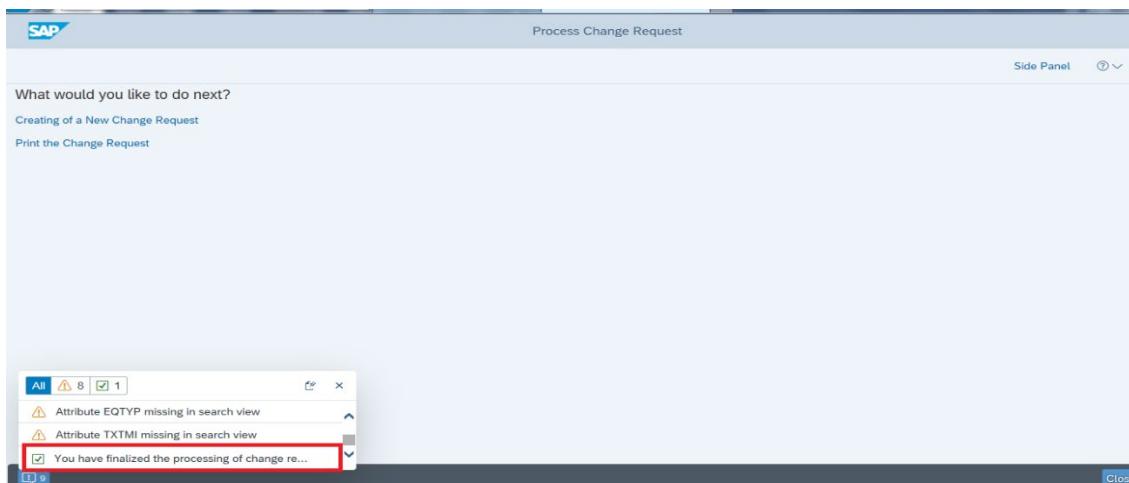
This screenshot is identical to the one above, showing the SAP Process Change Request interface after a successful mass change. The 'Check' button is highlighted with a red box. The status bar shows 'Changes to Be Executed'. The table of equipment objects has all rows checked in the 'Changed' column. A modal dialog box is open, displaying 8 error messages about LAM Characteristics and address numbers. The 'Finalize Processing' button is visible in the bottom right corner of the dialog.

28. Click on “Finalize Processing” button.

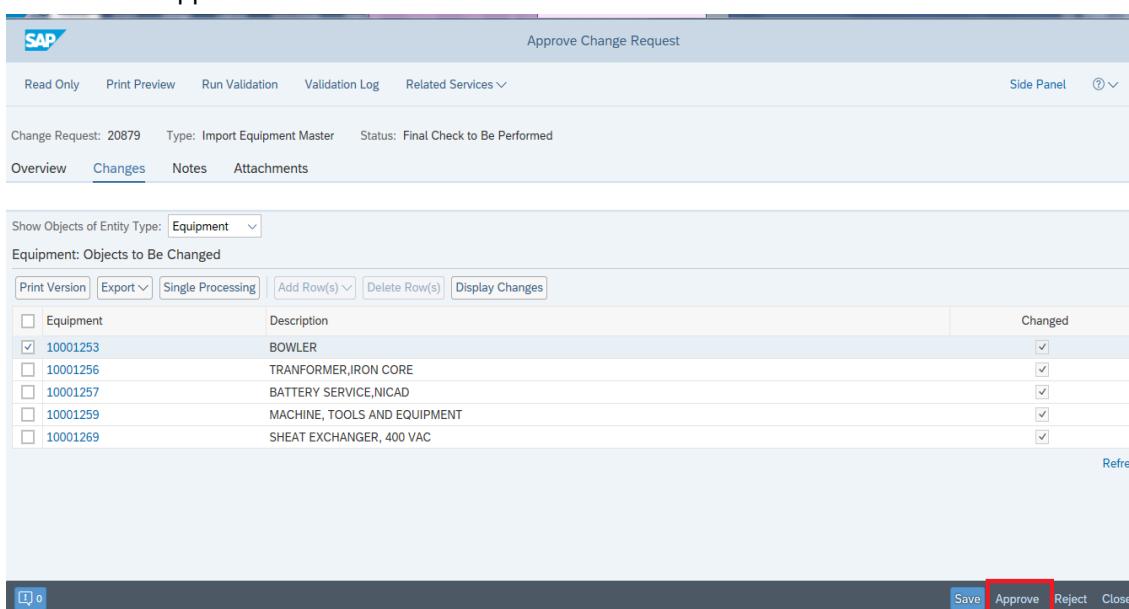


The screenshot shows the SAP Process Change Request interface. The 'Check' button in the top navigation bar is highlighted with a red box. The status bar at the bottom indicates 'Changes to Be Executed'. The main area displays a table of equipment objects being changed, with all rows showing a checked 'Changed' column. The 'Finalize Processing' button is highlighted with a red box in the bottom right corner of the interface.

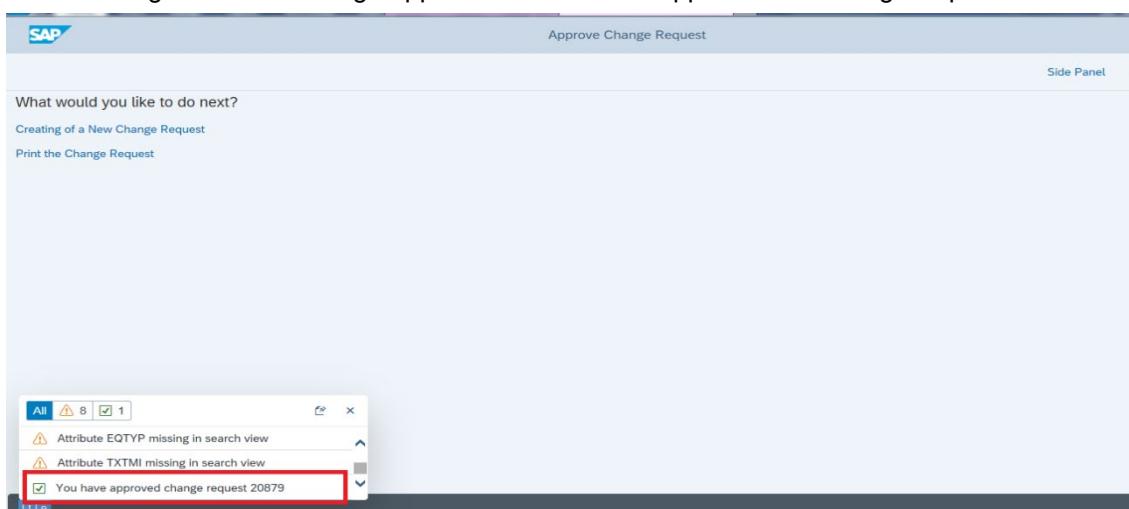
Success message appears as “You have finalized the processing of change request XX”.



29. Click on the “Approve” button.



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



30. Verify the status of the Change Request as "Final Check Approved".

Change Requests					
Change Request	Description	Status	Changed On	Changed By	Type
20879	Update of Active Record: 5 EQs of Process 4178	Final Check Approved	18.08.2018	[REDACTED]	Import Equipment Master

31. Run t-code "IE03" and verify that created /updated equipment master data.

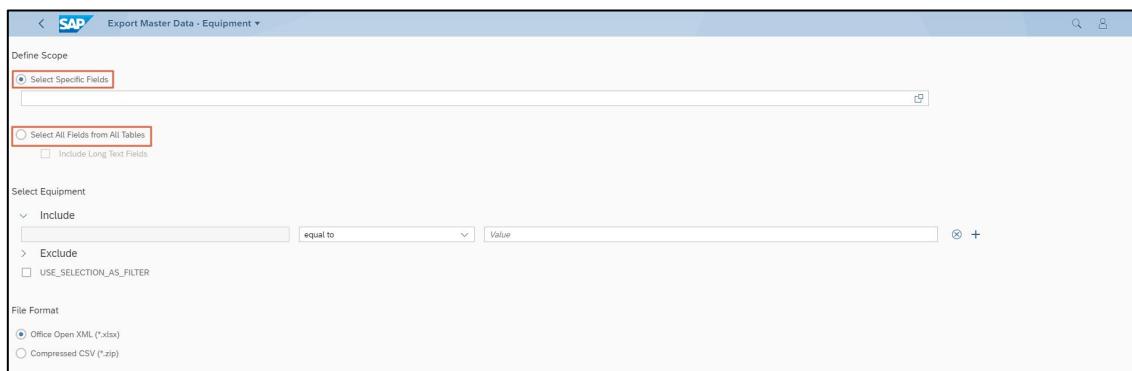
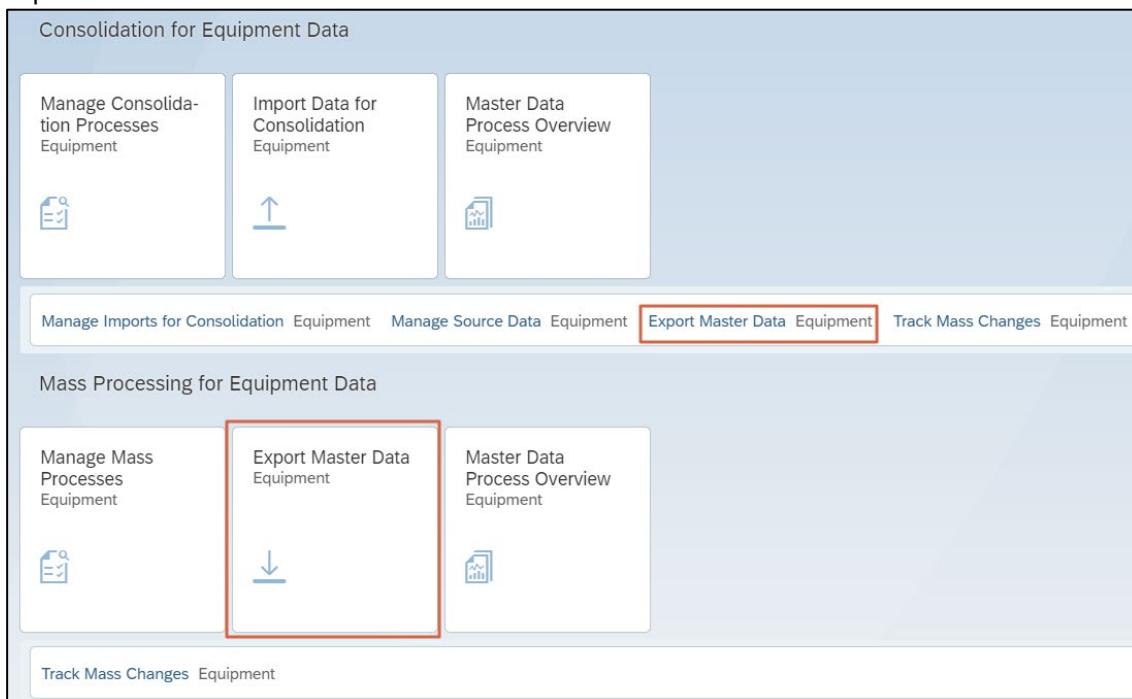
Display Equipment : General Data																	
<input type="button" value="Print Preview"/> <input type="button" value="Refresh"/> <input type="button" value="New Selection"/> ? ↻																	
<input type="button" value="View: [Standard View]"/> <input type="button" value="Print Version"/> <input type="button" value="Export"/> <input type="button" value="Workflow Log"/>																	
Equipment	10001256																
Description	TRANSFORMER, IRON CORE																
Status	AVLB																
Valid From	12.06.2018																
	Valid To 31.12.9999																
<input type="button" value="General"/> <input type="button" value="Location"/> <input type="button" value="Organization"/> <input type="button" value="Structure"/> <input type="button" value="DMS"/> <input type="button" value="Sales and Dis..."/>																	
General data <table border="1"> <tr> <td>Class</td> <td>LAM_CLASS</td> <td>LAM CLASS</td> </tr> <tr> <td>Object Type</td> <td>2000</td> <td>EquipType 2000</td> </tr> <tr> <td>AuthorizGroup</td> <td>0001</td> <td>Group 0001</td> </tr> <tr> <td>Weight</td> <td>567.556</td> <td>LB</td> </tr> <tr> <td>Inventory no.</td> <td colspan="2">UTP2349</td> </tr> </table>		Class	LAM_CLASS	LAM CLASS	Object Type	2000	EquipType 2000	AuthorizGroup	0001	Group 0001	Weight	567.556	LB	Inventory no.	UTP2349		
Class	LAM_CLASS	LAM CLASS															
Object Type	2000	EquipType 2000															
AuthorizGroup	0001	Group 0001															
Weight	567.556	LB															
Inventory no.	UTP2349																
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AcqistnValue	123.445,00	USD	Acquisition date														
Manufacturer data <table border="1"> <tr> <td>Manufacturer</td> <td>EMERSON</td> <td>ManufCountry</td> <td>US</td> </tr> <tr> <td>Model number</td> <td>EME265</td> <td>Constr.yr/mth</td> <td>/</td> </tr> <tr> <td>ManufPartNo.</td> <td>3996 ST 1.5X2-6</td> <td></td> <td></td> </tr> <tr> <td>ManufSerialNo.</td> <td></td> <td></td> <td></td> </tr> </table>		Manufacturer	EMERSON	ManufCountry	US	Model number	EME265	Constr.yr/mth	/	ManufPartNo.	3996 ST 1.5X2-6			ManufSerialNo.			
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ManufPartNo.	3996 ST 1.5X2-6																
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COMPRESSOR POWER RATING	200 KW																
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Print"/> <input type="button" value="Print Preview"/> <input type="button" value="Print Version"/> <input type="button" value="Export"/> <input type="button" value="Workflow Log"/> <input type="button" value="Help"/> <input type="button" value="Close"/>																	

Display Equipment : General Data																	
<input type="button" value="Print Preview"/> <input type="button" value="Refresh"/> <input type="button" value="New Selection"/> ? ↻																	
<input type="button" value="View: [Standard View]"/> <input type="button" value="Print Version"/> <input type="button" value="Export"/> <input type="button" value="Workflow Log"/>																	
Equipment	10000156																
Description	Equipment1 - bom test																
Status	AVLB																
Valid From	08.02.2018																
	Valid To 31.12.9999																
<input type="button" value="General"/> <input type="button" value="Location"/> <input type="button" value="Organization"/> <input type="button" value="Structure"/> <input type="button" value="DMS"/> <input type="button" value="Warranty"/> <input type="button" value="C..."/>																	
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Class																	
Object Type																	
AuthorizGroup																	
Weight	0,000	Size/dimension	555 MM														
Inventory no.	UTP2345		Start-up date														
Reference data <table border="1"> <tr> <td>AcqistnValue</td> <td>0,00</td> <td>Acquisition date</td> </tr> </table>		AcqistnValue	0,00	Acquisition date													
AcqistnValue	0,00	Acquisition date															
Manufacturer data <table border="1"> <tr> <td>Manufacturer</td> <td>ABC</td> <td>ManufCountry</td> <td>IN</td> </tr> <tr> <td>Model number</td> <td>MOD878</td> <td>Constr.yr/mth</td> <td>2017 / 12</td> </tr> <tr> <td>ManufPartNo.</td> <td>MPN686</td> <td></td> <td></td> </tr> <tr> <td>ManufSerialNo.</td> <td>MSN578</td> <td></td> <td></td> </tr> </table>		Manufacturer	ABC	ManufCountry	IN	Model number	MOD878	Constr.yr/mth	2017 / 12	ManufPartNo.	MPN686			ManufSerialNo.	MSN578		
Manufacturer	ABC	ManufCountry	IN														
Model number	MOD878	Constr.yr/mth	2017 / 12														
ManufPartNo.	MPN686																
ManufSerialNo.	MSN578																

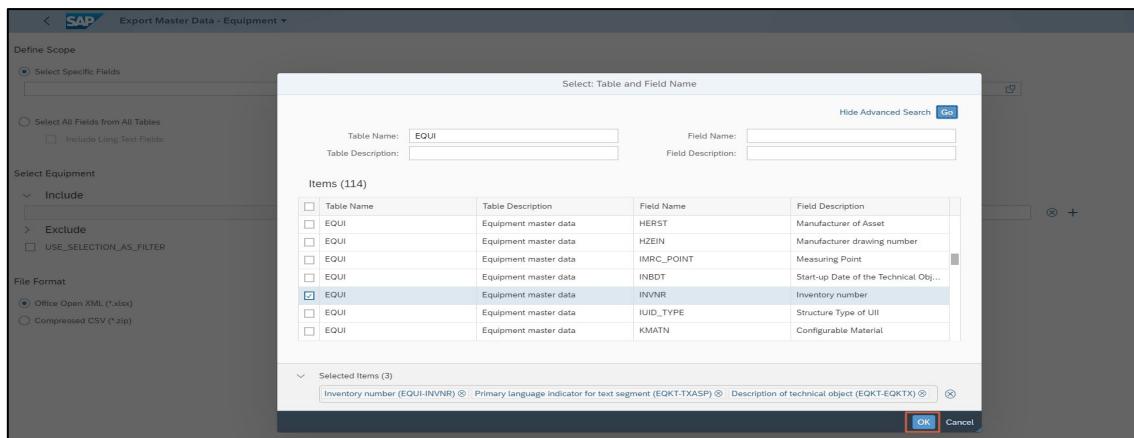
Export Master Data

You can use the following steps to run the "Export Master Data - Equipment" application. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.

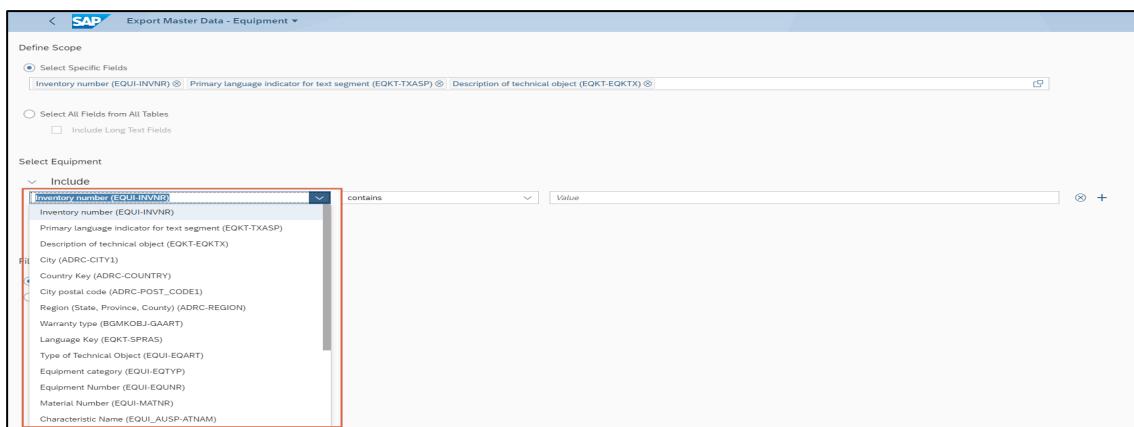
1. User can export the active data in Spreadsheet or ZIP format in form of Master data consolidation Template for respective Objects. There are two selection option to choose the data which will be exported.



2. Using Select specific Fields radio button we can choose a set of fields from different set of table by press F4 help. Choose the required fields from search results and click on "OK" button.

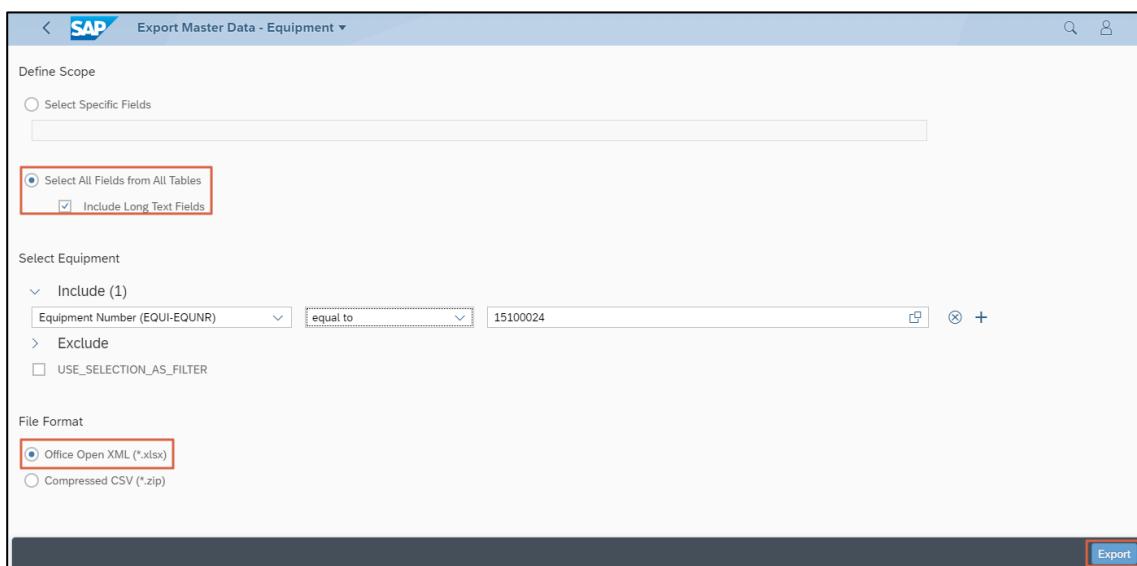


You can choose the specific field based on which we can pass the field value in include or exclude section & those equipment records will be considered in the export file. The exported file will be consist of the selected field details only for choosed records.

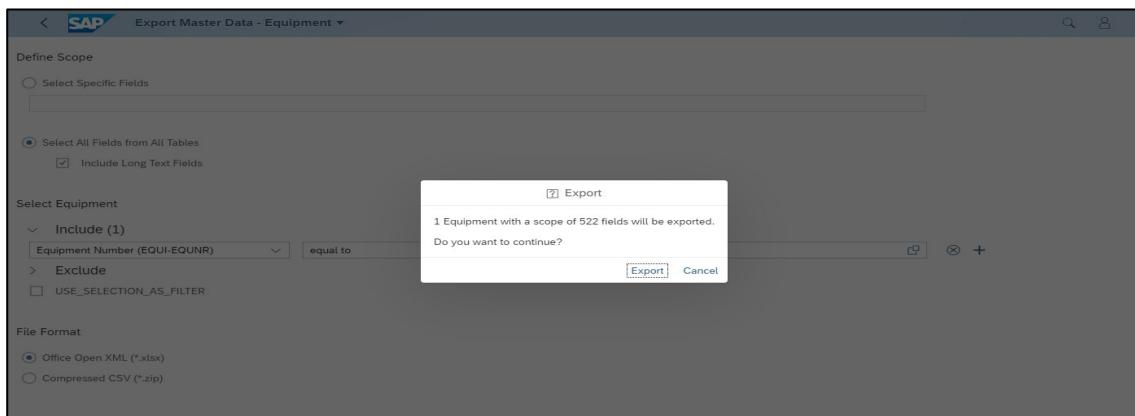


- Using Select all fields from all tables radio button, the exported file will have all fields from all tables for the records which are considered based on Include & exclude records.

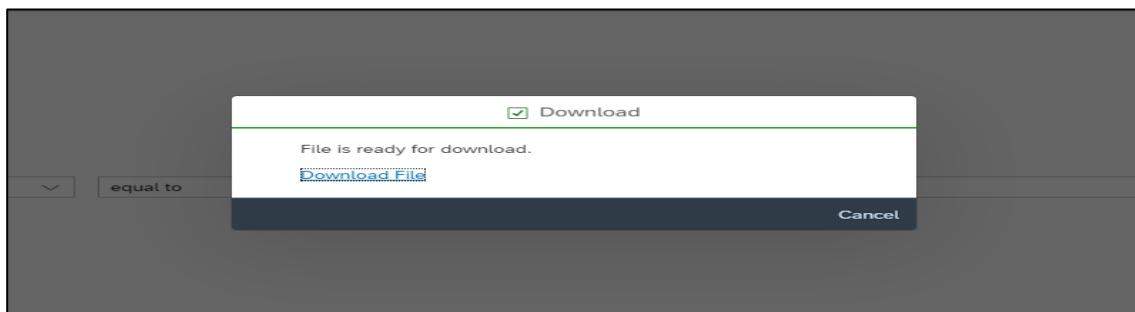
By enabling the checkbox for Include Long text fields, the export file will consist of DRAD, STXH, STXL details as well for respective objects.



4. Click on the "EXPORT" button to start exporting the active records in the system for selected object. Pop-up screen will come with the count of records & fields to confirm the exporting process. Click on "Export" button to continue.



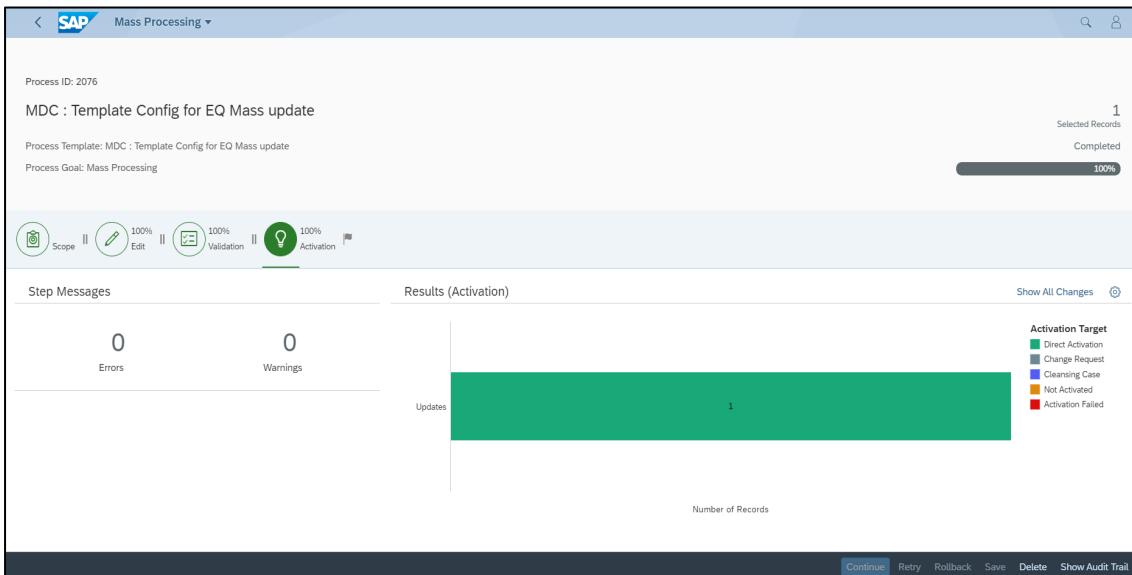
5. Export file will be generated successfully & ready for download. Click on the "Download File" link to save the file in Local system. Later we can open the respective download file & see the details of the selected records.



Track Mass Changes

You can track the Changes done in the Change process App based on the process id. Follow the steps as shown below to track the changes done in the earlier process which is activated with Direct activation option. Similar steps can be followed for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point, respectively.

1. In Mass change process for equipment, Process id 2076 is completed with direct activation.



Process ID: 2076
MDC : Template Config for EQ Mass update
Process Template: MDC : Template Config for EQ Mass update
Process Goal: Mass Processing

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

Step Messages

Errors	Warnings
0	0

Results (Activation)

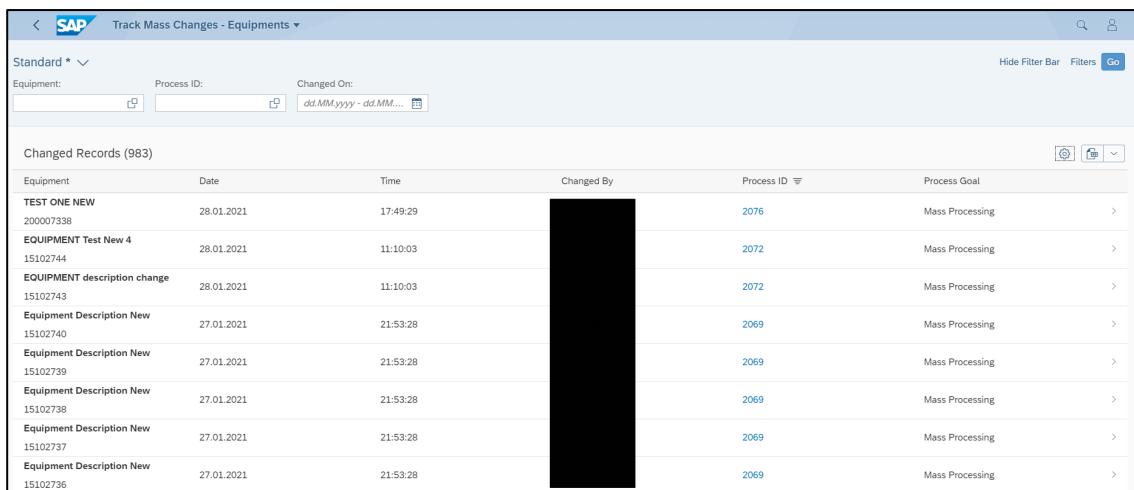
Updates	Number of Records
1	1

Activation Target

- Direct Activation
- Change Request
- Cleaning Case
- Not Activated
- Activation Failed

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

2. Open the "Track Changes - Equipment" Application & you can see the processes completed earlier along with Date/Time, Process goal, Process ID & Changed by details as well.



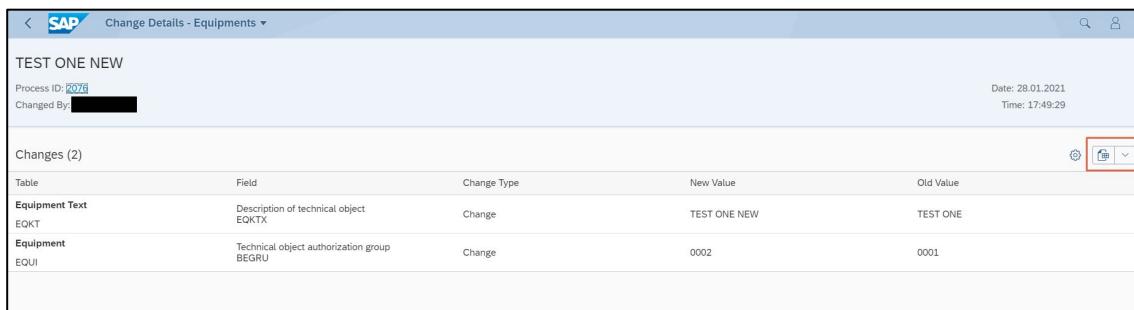
Standard * ▾

Equipment: Process ID: Changed On: dd.MM.yyyy - dd.MM....

Changed Records (983)

Equipment	Date	Time	Changed By	Process ID	Process Goal
TEST ONE NEW 200007338	28.01.2021	17:49:29	[REDACTED]	2076	Mass Processing
EQUIPMENT Test New 4 15102744	28.01.2021	11:10:03	[REDACTED]	2072	Mass Processing
EQUIPMENT description change 15102743	28.01.2021	11:10:03	[REDACTED]	2072	Mass Processing
Equipment Description New 15102740	27.01.2021	21:53:28	[REDACTED]	2069	Mass Processing
Equipment Description New 15102739	27.01.2021	21:53:28	[REDACTED]	2069	Mass Processing
Equipment Description New 15102738	27.01.2021	21:53:28	[REDACTED]	2069	Mass Processing
Equipment Description New 15102737	27.01.2021	21:53:28	[REDACTED]	2069	Mass Processing
Equipment Description New 15102736	27.01.2021	21:53:28	[REDACTED]	2069	Mass Processing

3. As we can see the Process id 2076, which we completed successfully with Direct activation. Click on the respective row. The change details page will open & you can see the changed details with Old Value & New value for mentioned fields.



TEST ONE NEW

Process ID: 2076
Changed By: [REDACTED]

Date: 28.01.2021
Time: 17:49:29

Changes (2)

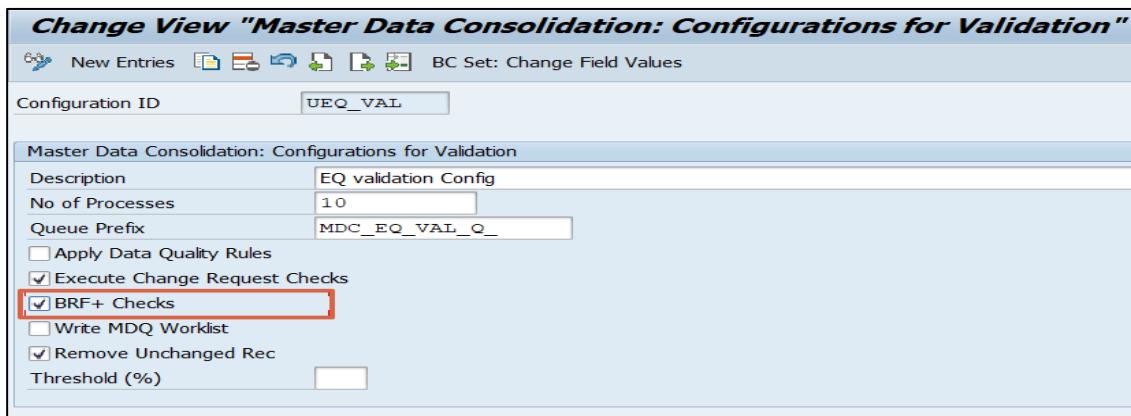
Table	Field	Change Type	New Value	Old Value
Equipment Text EQKT	Description of technical object EQKTX	Change	TEST ONE NEW	TEST ONE
Equipment EQUI	Technical object authorization group BEGRU	Change	0002	0001

You can export the Change details in a spreadsheet by Click on the Export button as shown.

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". Similarly, we can follow steps for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, General Task List, Equipment Task List, Functional Location Task List, Maintenance Plan & Measuring Point respectively.
5. Click on the "Resultant Artifacts" column.

Change View "Business Object Type": Overview				
Dialog Structure	Business Object Type			
Business Object Type	BO Type	BO Type Description	Namespace	Resultant Artifacts
Tables	/UGI/TL	General Task List	/UGI/	
Tables	/UGI/TLEQ	Equipment Task List	/UGI/	
Tables	/UGI/TLFL	Functional Location Task List	/UGI/	
Suites	1223	Maintenance Plan	/UGI/	
Suites	1230	Measuring Device	/UGI/	
Extra Fabric	1345	Individual Material Bill of Material	/UGI/	
Extra Fabric	1405	Business Partner Relationship		
Extra Fabric	147	Business Partner		
Extra Fabric	183	Individual Material	/UGI/	
Extra Fabric	185	Installation Point	/UGI/	
Extra Fabric	194	Product		
Extra Fabric	237	Bill of Material	/UGI/	
Extra Fabric	DRF_0013	Installation Point Bill of Material	/UGI/	
Extra Fabric	MDC_147	Business Partner for Consolidation		

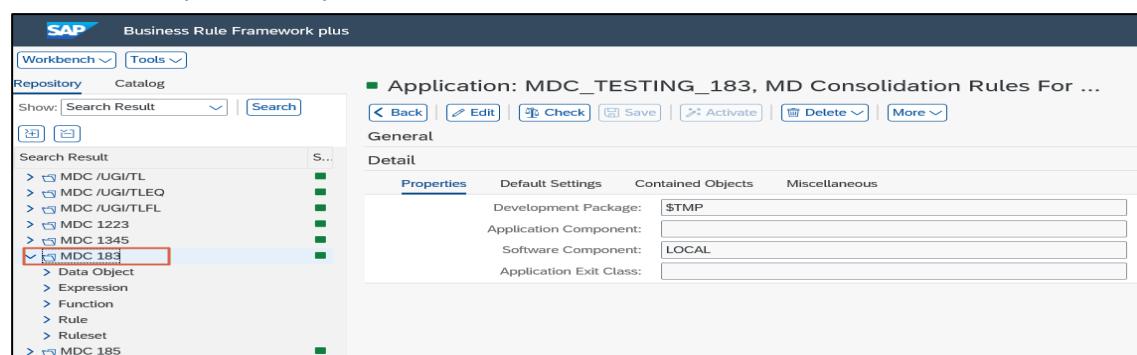
6. Provide the package in customer namespace i.e Z001.
7. Click on "Apply BRF+ Artifacts". This will generate the BRFplus application with all the required objects used to further define the business rules for data enrichment.

Model Maintenance						
<input type="checkbox"/> Show/Hide Table Keeps		<input type="checkbox"/> Show/Hide Appends	<input type="checkbox"/> Apply Missing	<input type="checkbox"/> Apply Selected	<input checked="" type="checkbox"/> Apply BRF+ Artifacts	<input type="checkbox"/> Apply Others ...
Package		Type	Template	Name	Available	Custom
EQUI	STRUCTURE	MDC_TMPL_KEY	/UGI/MDC_EQUI_KEY		<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUI	STRUCTURE	MDC_TMPL_ATTRIBUTES	/UGI/MDC_EQUI_ATTRIBUTES		<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUI	TABLE	MDC_TMPL_SRCCROOT	/UGI/EQUI_SRC		<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUI	TABLE	MDC_TMPL_SRCSTAT	/UGI/EQUI_SRC_ST		<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUI	TABLETYPE	MDC_TMPL_SRC_TT	/UGI/MDC_EQUI_SRC		<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUI	TABLE	MDC_TMPL_PRCROOT	/UGI/EQUI_PRC		<input checked="" type="checkbox"/>	<input type="checkbox"/>
EQUI	TABLETYPE	MDC_TMPL_PRC_TT	/UGI/MDC_EQUI_PRC		<input checked="" type="checkbox"/>	<input type="checkbox"/>
BGMKOBJ	STRUCTURE	MDC_TMPL_KEY	/UGI/MDC_BGMKOBJ_KEY		<input checked="" type="checkbox"/>	<input type="checkbox"/>
BGMKOBJ	STRUCTURE	MDC_TMPL_ATTRIBUTES	/UGI/MDC_BGMKOBJ_ATTRIBUTES		<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

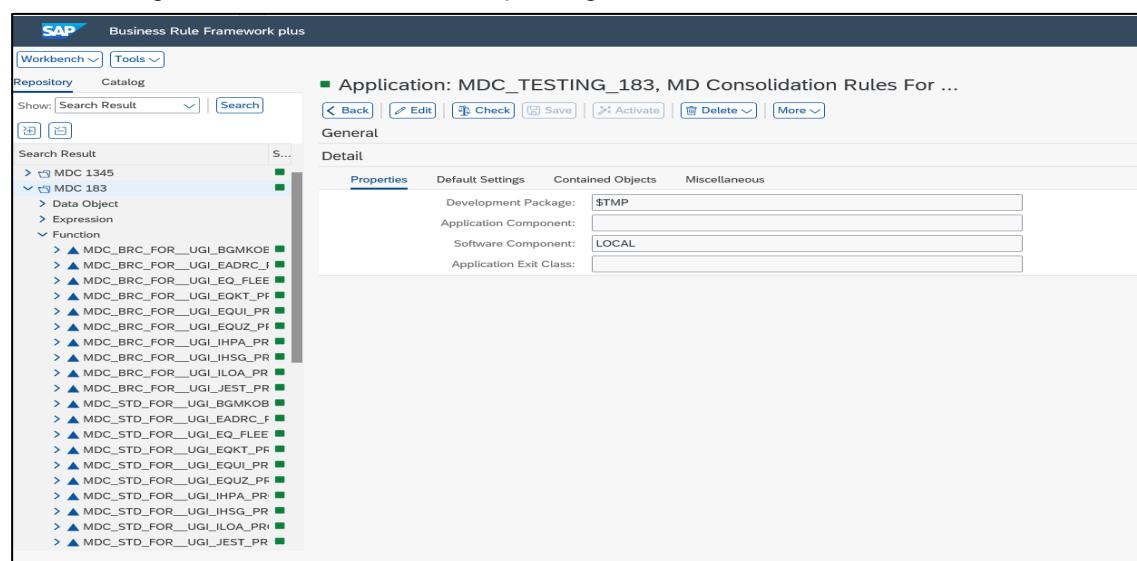
Error Log		
Type	Name of the column	Message Text
		Created BRF+ application ZMDC_TESTING_183
		Object ZMDC_TESTING_183 successfully activated
		Object ZMDC_TESTING_183 successfully activated
		Object MDC_INITIALIZE_NUMBER successfully activated
		Object MDC_LOG_EXT_ID successfully activated
		Object 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.

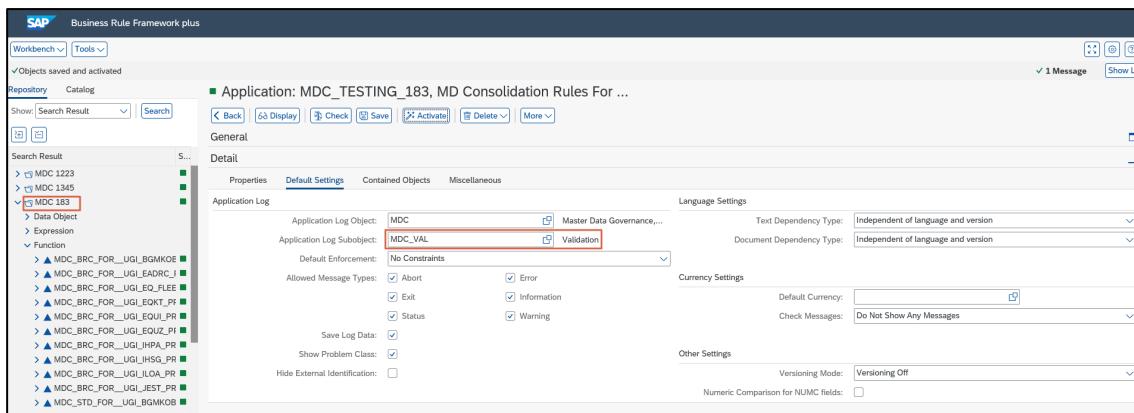


The screenshot shows the SAP Business Rule Framework plus interface. The title bar says "Business Rule Framework plus". The left sidebar has "Workbench" and "Tools" dropdowns, and "Repository Catalog" buttons. Below that is a "Search Result" section with a tree view. The node "MDC 183" is selected and highlighted with a red box. Under "MDC 183", there are several sub-nodes: Data Object, Expression, Function, Rule, Ruleset, and MDC 183. The main content area is titled "Application: MDC_TESTING_183, MD Consolidation Rules For ...". It has tabs for "Properties", "Default Settings", "Contained Objects", and "Miscellaneous". Under "Properties", the "Development Package" is set to "\$TMP", "Application Component" is empty, "Software Component" is set to "LOCAL", and "Application Exit Class" is empty.

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

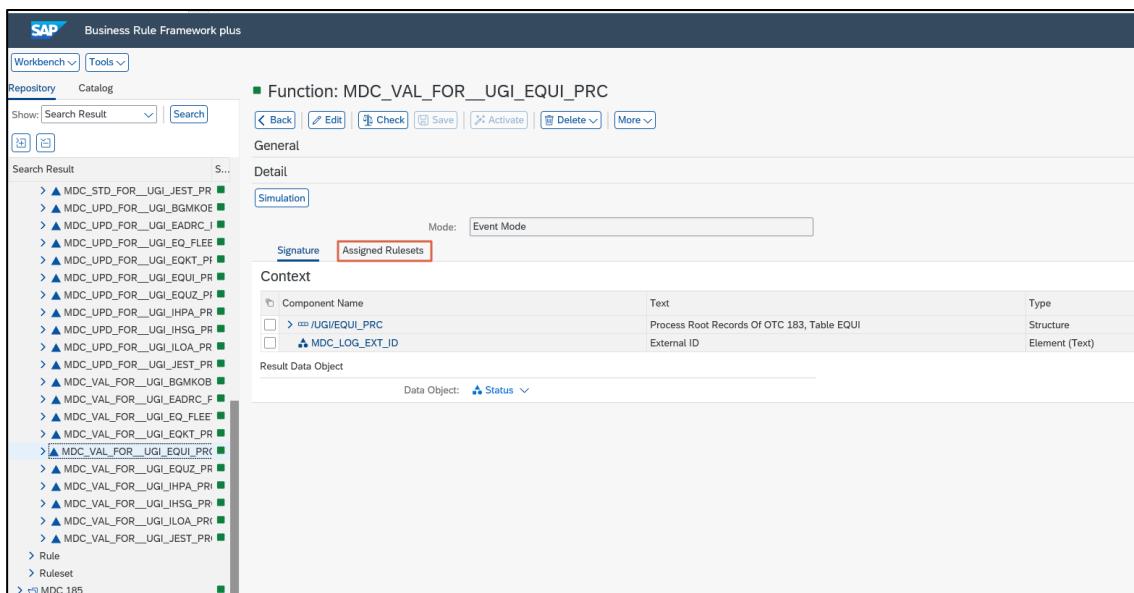


This screenshot shows the same SAP Business Rule Framework plus interface as the previous one, but with a different search result. The "Search Result" tree now shows "MDC 1345" and "MDC 183" nodes. The "MDC 183" node is expanded, showing a large list of generated functions. These functions are categorized by table name, such as "MDC_BRC_FOR_UGI_BGMKOE", "MDC_BRC_FOR_UGI_EADRC_I", etc. The main content area is identical to the previous screenshot, showing the application details for "MDC_TESTING_183".



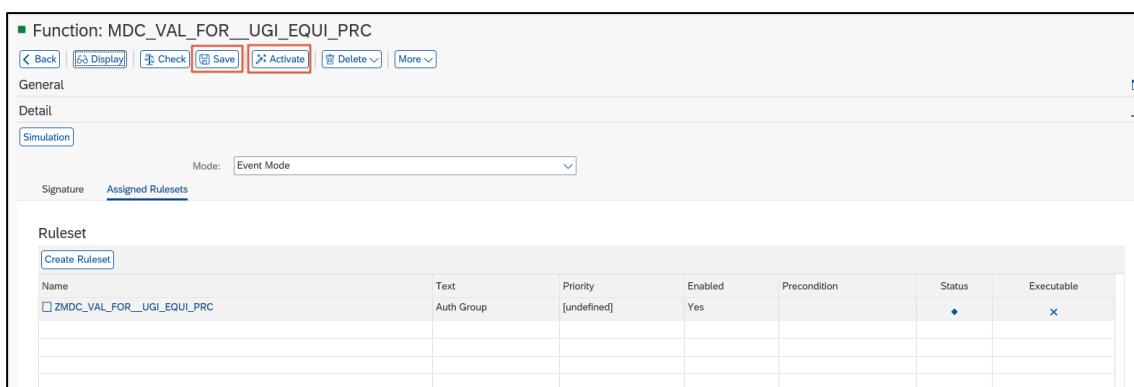
10. Choose any function say "MDC_VAL_FOR_UGI_EQUI_PRC". Navigate to "Assigned Rulesets" tab. Click on "Create Ruleset" button.

11. Provide the name of the ruleset and description. Save in the transport request.



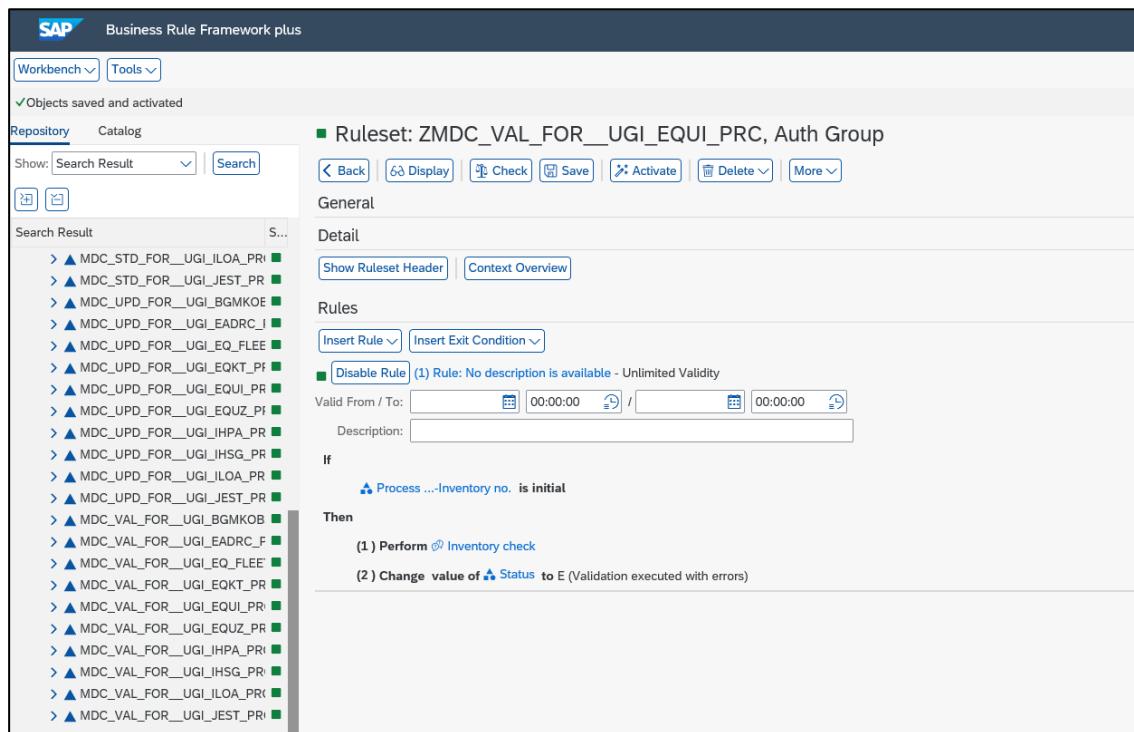
12. The ruleset "ZMDC_VAL_FOR_UGI_EQUI_PRC" is created as below : Click on "Save" button to save the ruleset.

13. Click on "Activate" button to activate the ruleset.

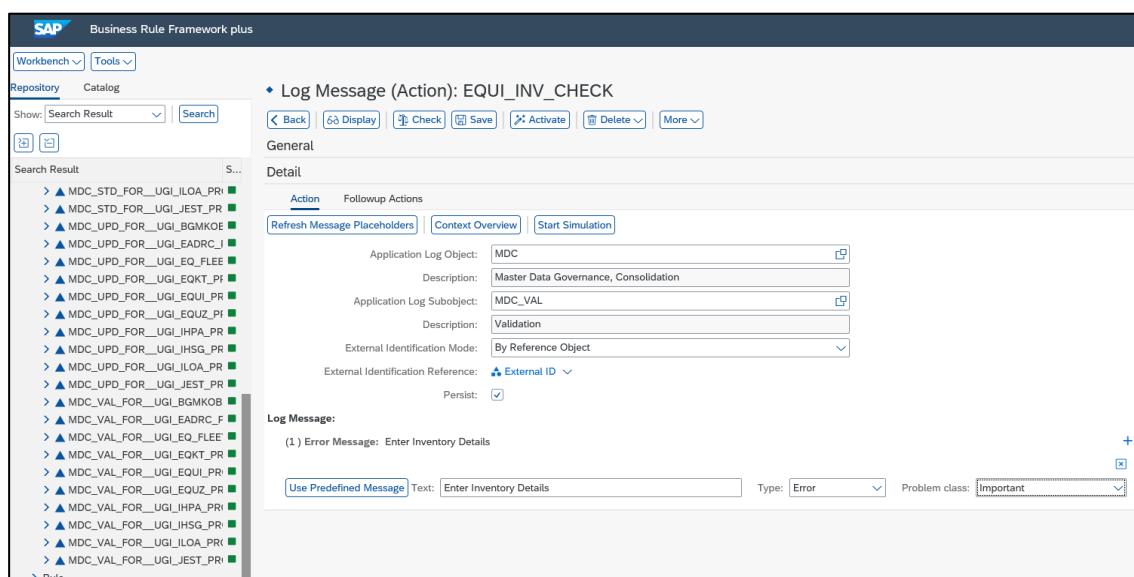


14. Click on "Insert Rule" and define the rule.

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.

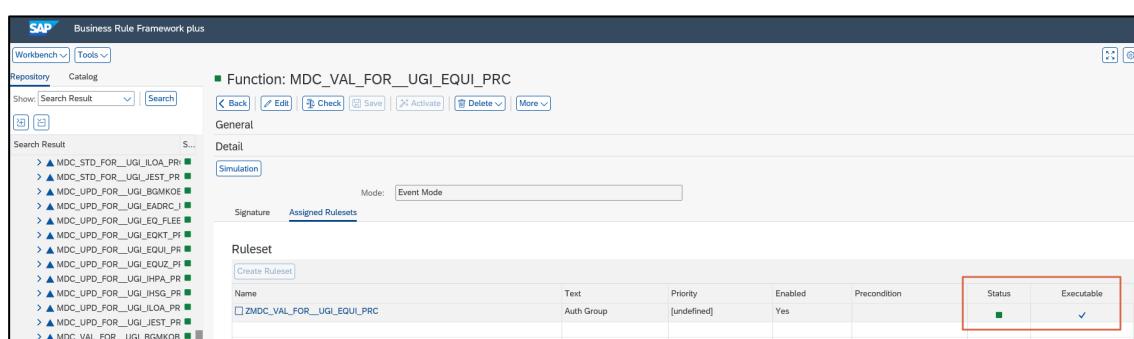


This screenshot shows the SAP Business Rule Framework plus interface. The top navigation bar includes 'Workbench' and 'Tools' dropdowns, and a status message 'Objects saved and activated'. The main area is titled 'Ruleset: ZMDC_VAL_FOR__UGI_EQUI_PRC, Auth Group'. The 'General' tab is selected, showing a list of rules on the left and a detailed configuration on the right. The configuration includes a 'Disable Rule' section with a note '(1) Rule: No description is available - Unlimited Validity', a 'Valid From / To' field, and a 'Description' field. Below this is an 'If' condition: 'Process ...-Inventory no. is initial'. The 'Then' section contains two actions: '(1) Perform Inventory check' and '(2) Change value of Status to E (Validation executed with errors)'. The left sidebar shows a search result list containing numerous MDC rules.



This screenshot shows the SAP Business Rule Framework plus interface. The top navigation bar includes 'Workbench' and 'Tools' dropdowns. The main area is titled 'Log Message (Action): EQUI_INV_CHECK'. The 'General' tab is selected, showing a list of rules on the left and a detailed configuration on the right. The configuration includes fields for 'Application Log Object' (set to 'MDC'), 'Description' (set to 'Master Data Governance, Consolidation'), 'Application Log Subobject' (set to 'MDC_VAL'), 'Description' (set to 'Validation'), and 'External Identification Mode' (set to 'By Reference Object'). The 'Log Message' section contains a note '(1) Error Message: Enter Inventory Details' and a 'Use Predefined Message' button with a text input field set to 'Enter Inventory Details'. The left sidebar shows a search result list containing numerous MDC rules.

15. Click on "ACTIVATE" button to activate the ruleset & executable.



This screenshot shows the SAP Business Rule Framework plus interface. The top navigation bar includes 'Workbench' and 'Tools' dropdowns. The main area is titled 'Function: MDC_VAL_FOR__UGI_EQUI_PRC'. The 'General' tab is selected, showing a list of rules on the left and a detailed configuration on the right. The configuration includes a 'Mode' dropdown set to 'Event Mode', a 'Signature' dropdown set to 'Assigned Rulesets', and a 'Ruleset' table. The 'Ruleset' table has one row with the following columns: Name (ZMDC_VAL_FOR__UGI_EQUI_PRC), Text (Auth Group), Priority ([undefined]), Enabled (Yes), Precondition (empty), Status (unchecked), and Executable (checked). The left sidebar shows a search result list containing numerous MDC rules.

Introduction - Master Data Quality

SAP Master Data Quality enable you to create business rules for improve the data quality of records. Based on the requirement, the rules can be created, and they can be used in Data evaluation, Master Data consolidation, mass processing & change request as well to make sure of the increased effectiveness & efficiency of the data.

This document provides the information you require to set up SAP Master Data Quality and use it for efficient master data quality management of master data.

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

Prerequisites

Configure the 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_EDIT	Interactive Mass Processing	
183	Evaluation	CL_MDQ_RULE_EVALUATION_ADAPTER	MDQ Rule Evaluation Adapter	
183	Filter & Remove	CL_MDC_ADAPTER_FAR	Filter and Remove	

3. Navigate to the customizing 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 of Selected Set								
Dialog Structure	Proc Tmpl	Description	BO Type	Description	Process Workflow ...	Name	Process Goal	Default Templ...
Process Template	UGI_EQ_EVA	Data Quality Rule Evaluation Equipment	183	Individual Material WS54500001	MDC Workflow	Data Quality Evaluation	✓	✗
• Process Template Step	UNASEQ	MDC : Template Config for EQ Mass update	183	Individual Material WS54500001	MDC Workflow	Mass Processing	✓	✗
• Process Template Step	U_EQ_CAB	MDC : Consolidate (Improve Best Record)	183	Individual Material WS54500001	MDC Workflow	Consolidation of Active Reco..	✗	✓
• Process Template Step	U_EQ_CON	MDC : Consolidate Equipment Data	183	Individual Material WS54500001	MDC Workflow	Consolidation of Source Reco..	✗	✓
• Process Template Step	U_EQ_LOA	MDC : Load Eq. Data	183	Individual Material WS54500001	MDC Workflow	Consolidation for Central Ma..	✗	✓
• Process Template Step	U_EQ_STD	MDC : Load Data-Testing with STD(EQ)	183	Individual Material WS54500001	MDC Workflow	Consolidation of Source Reco..	✗	✗

The template should be assigned with steps to be considered while running the Quality Evaluation process. The template contains Data Quality Evaluation step.

Display View "Process Template Step": Details				
Dialog Structure	Process Template	Bus. Obj. Type	Step Number	
Process Template	UGI_EQ_EVA	183	1	
• Process Template Step		Data Quality Rule Evaluation Equipment		
Process Template Step		183		
Step Sequence	1			Evaluation
Process Step Type	Evaluation			
Bus. Obj. Type				
Adapter	CL_MDQ_RULE_EVALUATION_ADAPTER			MDQ Rule Evaluation Adapter
Configuration ID	UGI_EVA			Evaluate with Scores
Process Action Ctrl	<input type="checkbox"/> Check Point active			
Authorization Group	No action control			

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

5. Add the following entry as part of customizing activity for Evaluation Configuration.

Display View "Maintenance View MDC_CONFIG_EVA": Overview								
Config. ID	Adapter Config Description	Provide Scores	Delete Results	Retained Results	Delete Scores	Retained Scores	Prefix for Queue Name	
SAP_EVA	Evaluate with Scores	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20	
UGI_EVA	Evaluate with Scores	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20	

Note

Sample configuration for Data Quality Rule evaluation will be available once the BC-Set /UGI/ADQ-EVA-V_MDC_CFG_EVA-1909, /UGI/ADQ-EVA-VC_MOD-ADAPT-1909, /UGI/ADQ-EVA-VC_MOD-ADAPT-2020, /UGI/ADQ-EVA-VC_MDC_PRCTYP-2020 is activated.

Manage Rule Mining

The rule mining solution helps you to significantly reduce the cost to set up rules, because the proposed rules are based on the “as-it-is state” and existing facts within your master data. Manage Rule Mining Application is used to create a rule mining process using Table & selected fields details as Configuration. From the rule mining process, the rules can be suggested for Data Quality rule.

In "Manage Rule Mining" application, we can manage the mining rules & execute them for process mining. Following steps Can be followed to manage rule mining for Equipment. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point, respectively.

You can use the following steps to Manage Rule Mining.

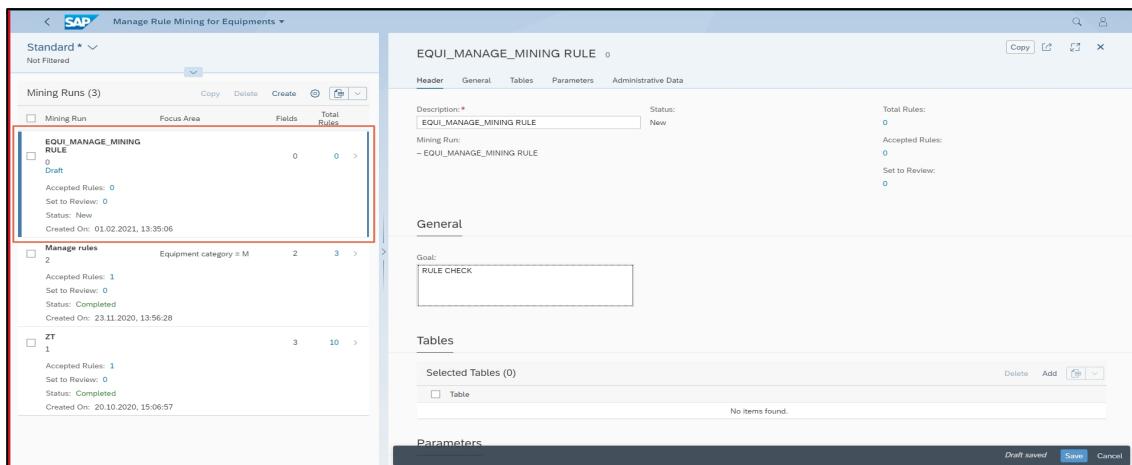
1. Run t-code /UI2/FLP. Launch Fiori application “Manage Rule Mining - Equipment”.



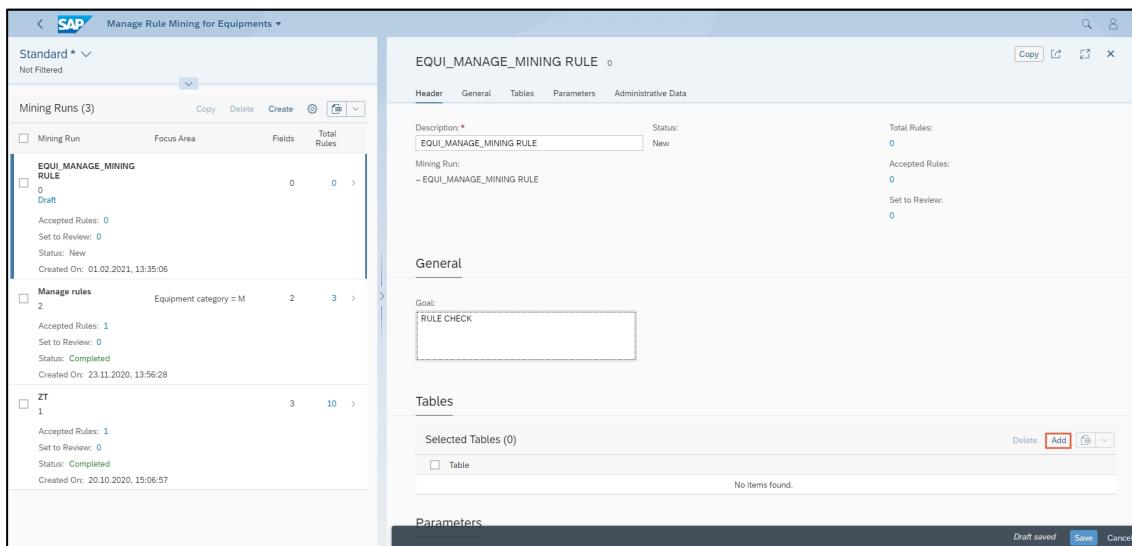
2. Click on the Create button to create a Rule mining process to run.

Manage Rule Mining for Equipments											
Standard * ~		Equipment									
Not Filtered											
Mining Runs (2)											
Mining Run	Focus Area	Fields	Total Rules	Accepted Rules	Set to Review	Status					
<input type="checkbox"/> Manage rules	Equipment category = M	2	3	1	0	Completed					
<input type="checkbox"/> ZT		3	10	1	0	Completed					

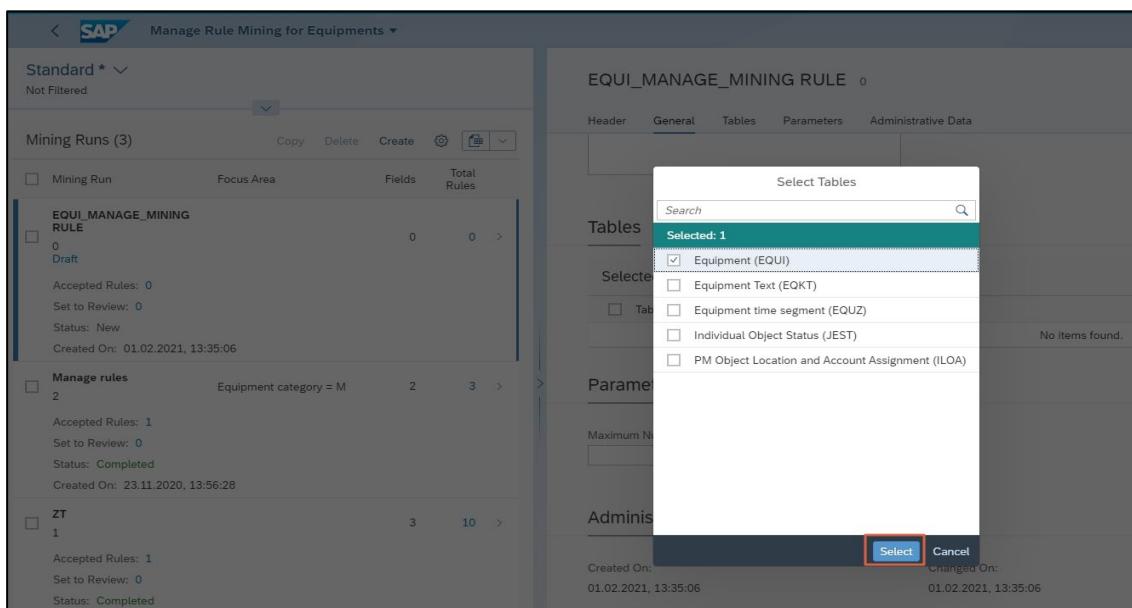
3. Provide the Rule Mining process Description & Goal details.



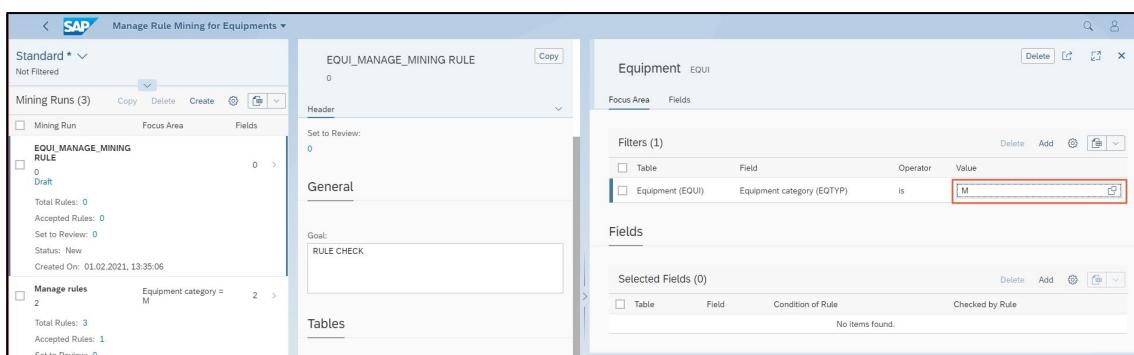
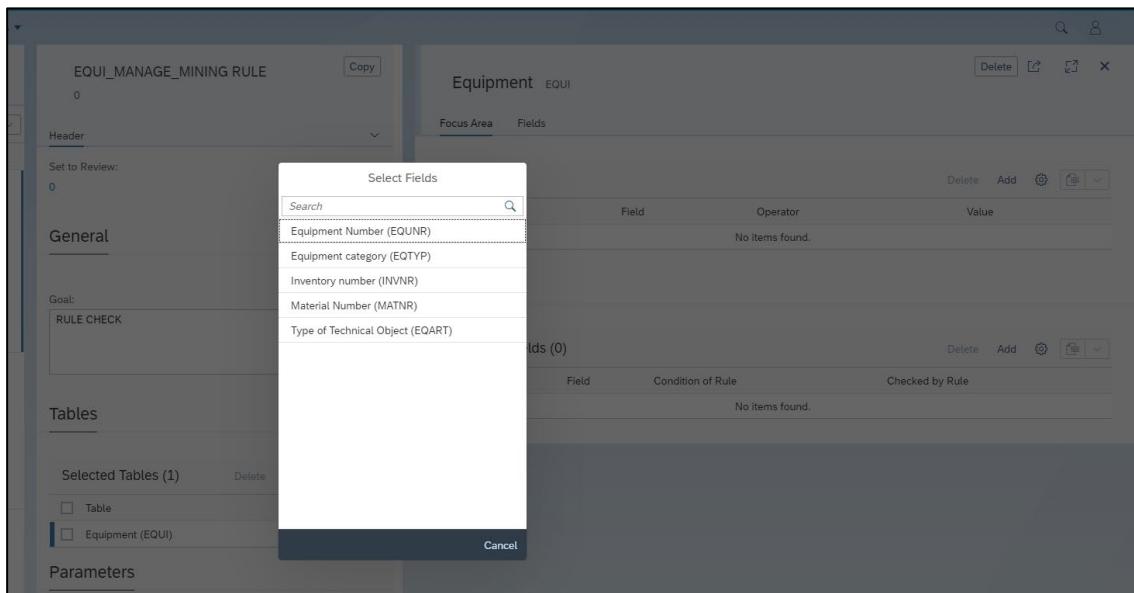
- Click on the Add button in Table section to choose the table name for which rule mining process will be created.



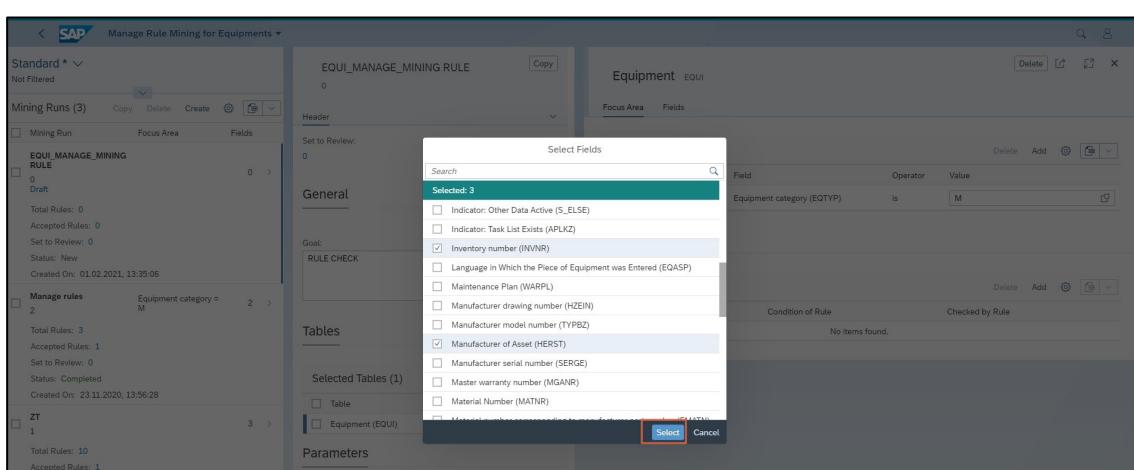
- Select the Table name from the pop-up list as shown & click on select button.



6. Click on the "Add" button in Focus area, to select the field from the earlier selected table. Based on this the records will be considered for which mining rules will be suggested. Lets select Equipment category field & pass the value as "M".

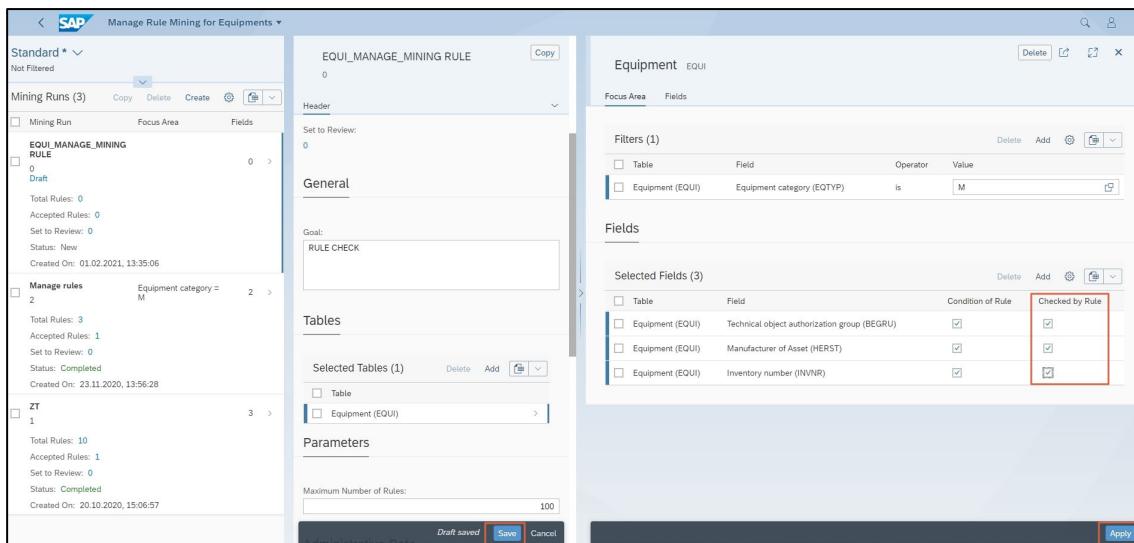


7. Click on "Add" button on the Selected field section to select the fields base on which the rules will be suggested for mining.

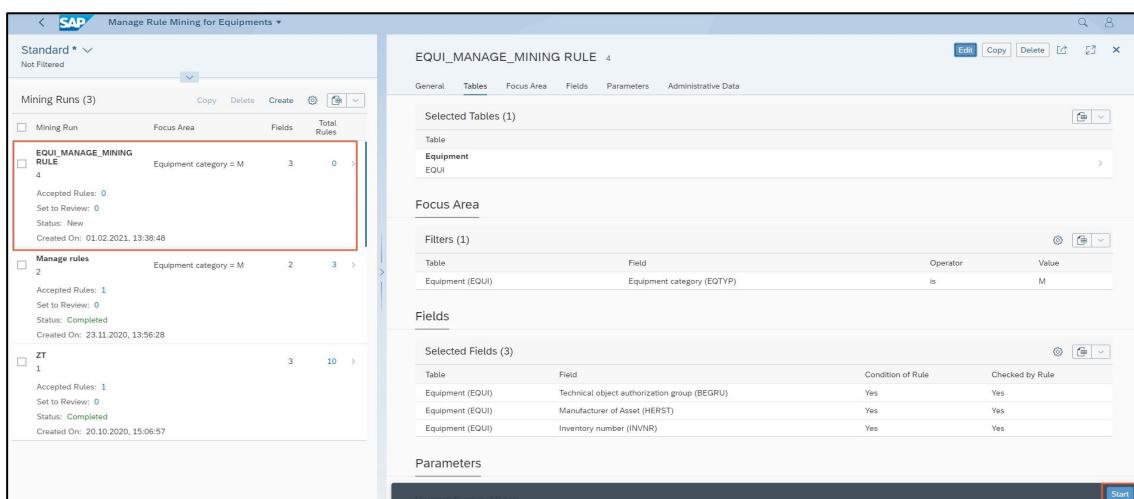


You can select multiple fields, Click on Select button.

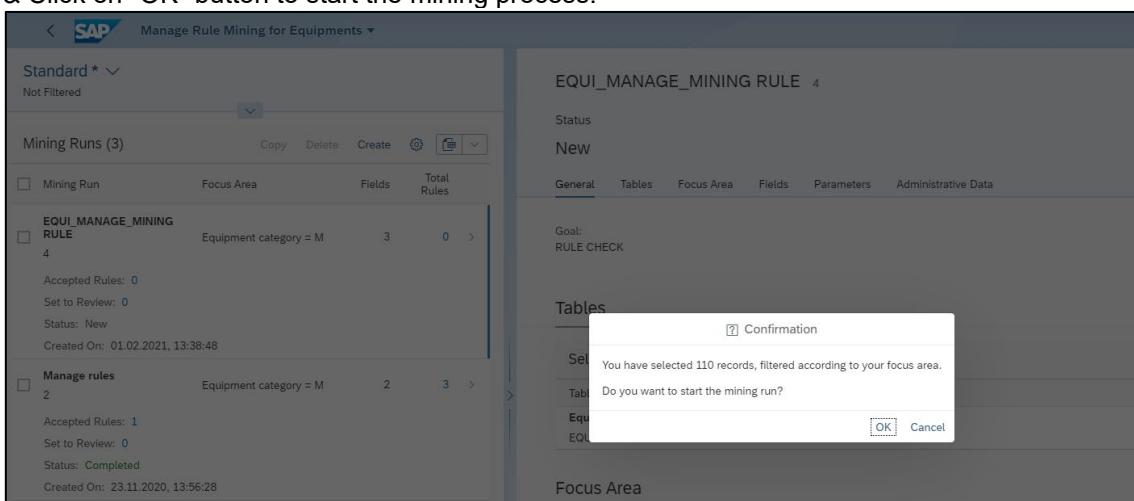
8. Enable the Check by rule Check box for all selected fields. Click on apply & save button to save the rule mining process.



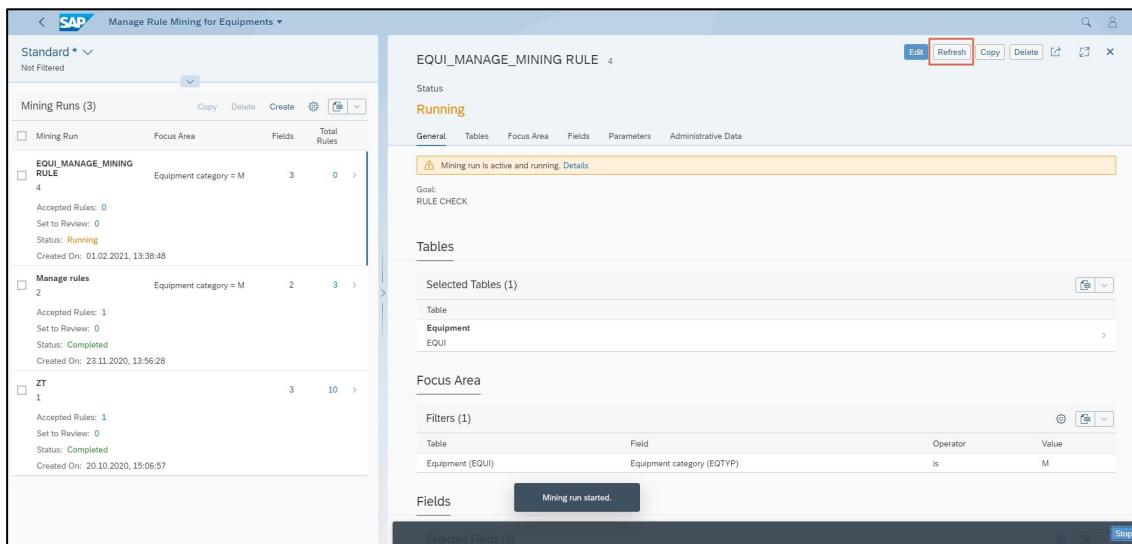
9. The Table name focus area & selected fields are saved now under the Mining rule process we created. In Parameter section pass as 100 which means at a time max 100 rules can be considered. Click on Start button to create the rule mining process.



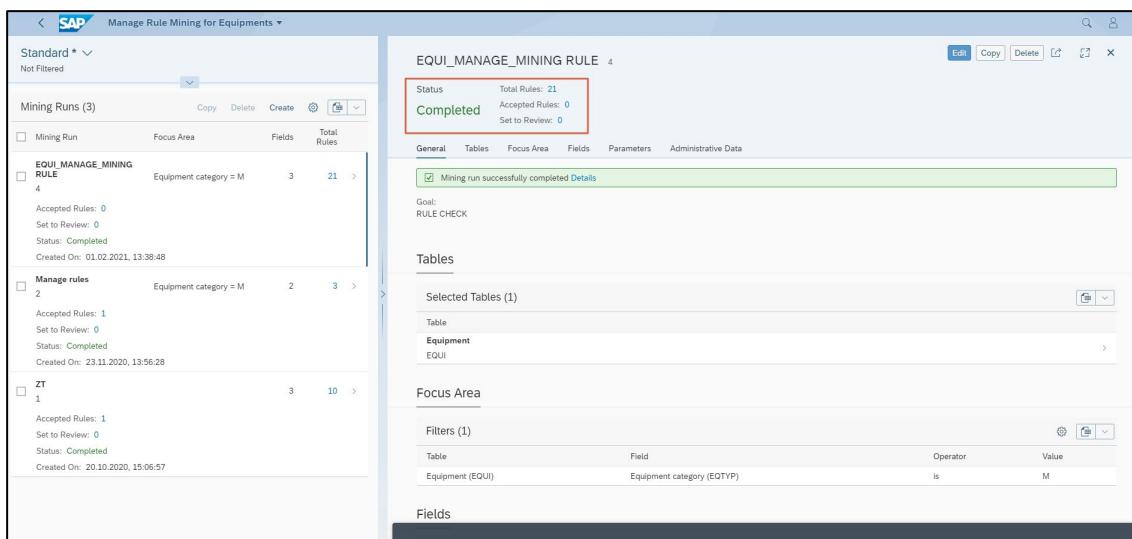
Pop-up screen will show the number of records selected as per the focus area we have selected & Click on "OK" button to start the mining process.



10. Rule mining process has been started & status is shown as Running. Click on "Refresh" button to update the status once the process is completed.



Once the process will be completed, Status will be shown as Completed with the total number of rules suggested by considering the selected fields we provided earlier.



11. You can click on the Total rule count shown after completed status to navigate to "Process rules from rule Mining" for further process.

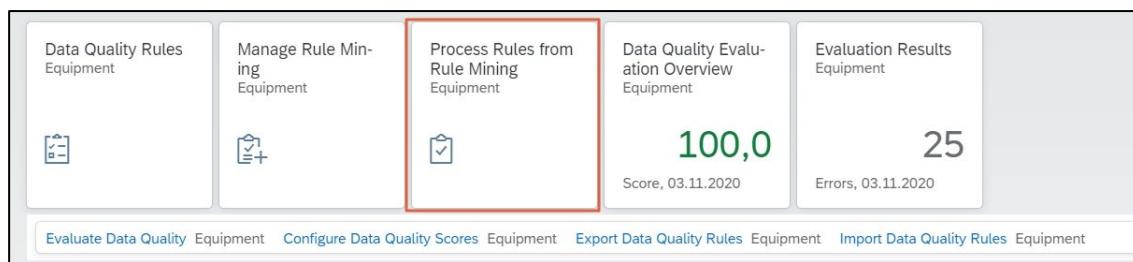
Process Rules from Rule Mining

The integration with the rule repository and the assistance during the transfer to an active rule diminishes the risk of setting up incorrect rules, reduces the time to implementation, and requires less technical expertise. Also, the data correction effort required by implementing these rules is measurable, because the data evaluation of the proposed rules is visible before you accept them as master data quality rules.

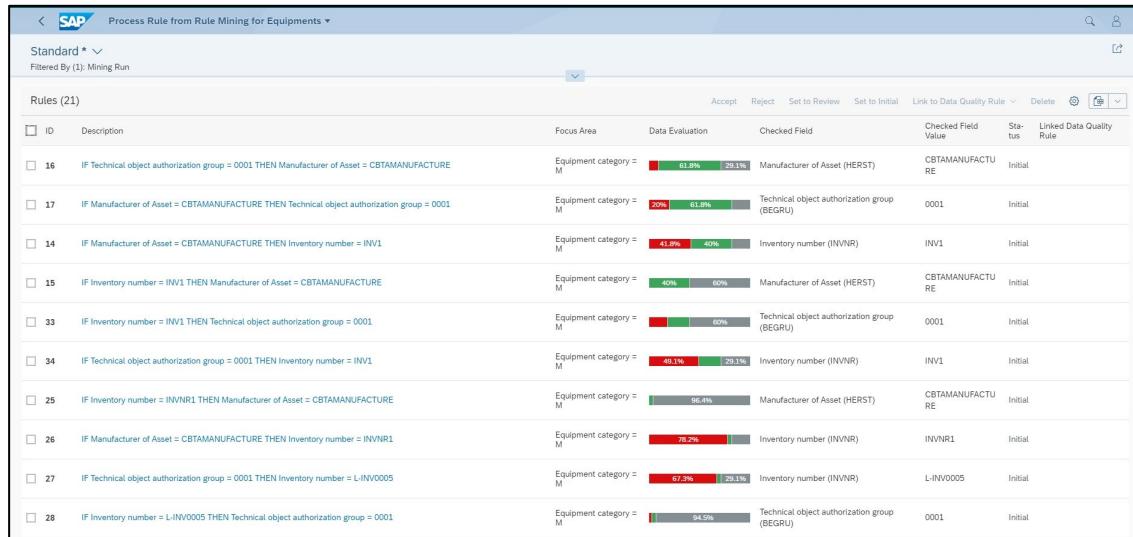
Process Rules from Rule Mining application, suggested rules based on the rule mining we created recently with measurement of data correction effort required. We can accept or reject the rules from the list & implement the rules individually in data quality rules for different usages.

You can use the following steps to process the rules from rule Mining process for equipment. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point, respectively.

1. Run t code - /ui2/flp. Launch the Fiori application “Process rules from Rule Mining”.

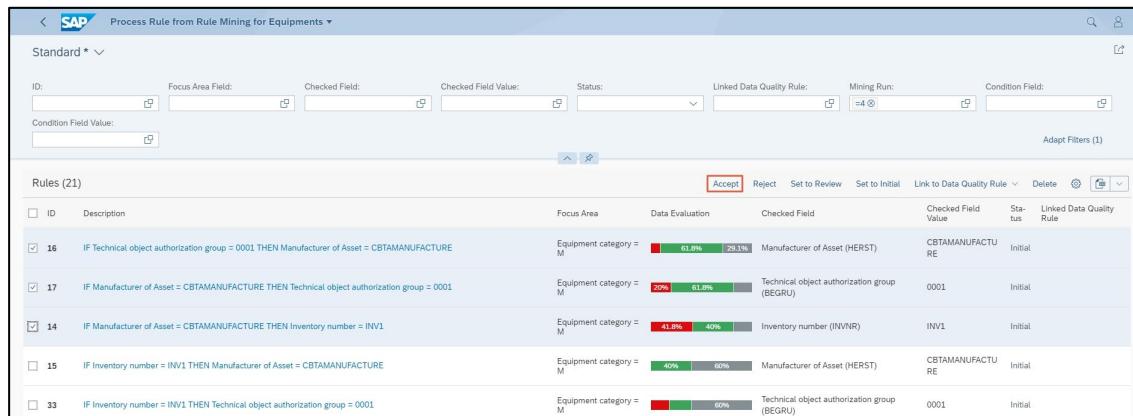


2. You can see the suggested rules from the rule mining process as shown with data evaluation measurement.



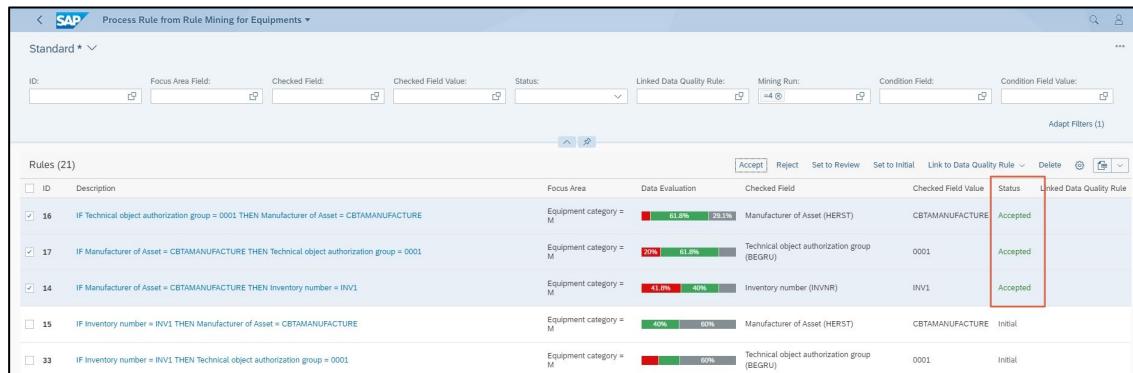
ID	Description	Focus Area	Data Evaluation	Checked Field	Checked Field Value	Status	Linked Data Quality Rule
16	IF Technical object authorization group = 0001 THEN Manufacturer of Asset = CBTAMANUFACTURE	M	<div style="width: 61.8%;">61.8%</div>	<div style="width: 29.1%;">29.1%</div>	Manufacturer of Asset (HERST)	CBTAMANUFACTURE	Initial
17	IF Manufacturer of Asset = CBTAMANUFACTURE THEN Technical object authorization group = 0001	M	<div style="width: 20%;">20%</div>	<div style="width: 61.8%;">61.8%</div>	Technical object authorization group (BEGRU)	0001	Initial
14	IF Manufacturer of Asset = CBTAMANUFACTURE THEN Inventory number = INV1	M	<div style="width: 41.8%;">41.8%</div>	<div style="width: 40%;">40%</div>	Inventory number (INVNR)	INV1	Initial
15	IF Inventory number = INV1 THEN Manufacturer of Asset = CBTAMANUFACTURE	M	<div style="width: 40%;">40%</div>	<div style="width: 60%;">60%</div>	Manufacturer of Asset (HERST)	CBTAMANUFACTURE	Initial
33	IF Inventory number = INV1 THEN Technical object authorization group = 0001	M	<div style="width: 20%;">20%</div>	<div style="width: 60%;">60%</div>	Technical object authorization group (BEGRU)	0001	Initial
34	IF Technical object authorization group = 0001 THEN Inventory number = INV1	M	<div style="width: 49.1%;">49.1%</div>	<div style="width: 29.1%;">29.1%</div>	Inventory number (INVNR)	INV1	Initial
25	IF Inventory number = INVNR1 THEN Manufacturer of Asset = CBTAMANUFACTURE	M	<div style="width: 56.4%;">56.4%</div>	<div style="width: 43.5%;">43.5%</div>	Manufacturer of Asset (HERST)	CBTAMANUFACTURE	Initial
26	IF Manufacturer of Asset = CBTAMANUFACTURE THEN Inventory number = INVNR1	M	<div style="width: 29.2%;">29.2%</div>	<div style="width: 70.8%;">70.8%</div>	Inventory number (INVNR)	INVNR1	Initial
27	IF Technical object authorization group = 0001 THEN Inventory number = L-INV0005	M	<div style="width: 67.3%;">67.3%</div>	<div style="width: 29.1%;">29.1%</div>	Inventory number (INVNR)	L-INV0005	Initial
28	IF Inventory number = L-INV0005 THEN Technical object authorization group = 0001	M	<div style="width: 94.5%;">94.5%</div>	<div style="width: 5.5%;">5.5%</div>	Technical object authorization group (BEGRU)	0001	Initial

3. From the suggested rules, you can select the rules which are useful for the business requirement and accept them. Similarly, we can reject the rules which are not required for our quality check. Select the rules & Click on "Accept" button.



ID	Description	Focus Area	Data Evaluation	Checked Field	Checked Field Value	Status	Linked Data Quality Rule
16	IF Technical object authorization group = 0001 THEN Manufacturer of Asset = CBTAMANUFACTURE	M	<div style="width: 61.8%;">61.8%</div>	<div style="width: 29.1%;">29.1%</div>	Manufacturer of Asset (HERST)	CBTAMANUFACTURE	Initial
17	IF Manufacturer of Asset = CBTAMANUFACTURE THEN Technical object authorization group = 0001	M	<div style="width: 20%;">20%</div>	<div style="width: 61.8%;">61.8%</div>	Technical object authorization group (BEGRU)	0001	Initial
14	IF Manufacturer of Asset = CBTAMANUFACTURE THEN Inventory number = INV1	M	<div style="width: 41.8%;">41.8%</div>	<div style="width: 40%;">40%</div>	Inventory number (INVNR)	INV1	Initial
15	IF Inventory number = INV1 THEN Manufacturer of Asset = CBTAMANUFACTURE	M	<div style="width: 40%;">40%</div>	<div style="width: 60%;">60%</div>	Manufacturer of Asset (HERST)	CBTAMANUFACTURE	Initial
33	IF Inventory number = INV1 THEN Technical object authorization group = 0001	M	<div style="width: 20%;">20%</div>	<div style="width: 60%;">60%</div>	Technical object authorization group (BEGRU)	0001	Initial

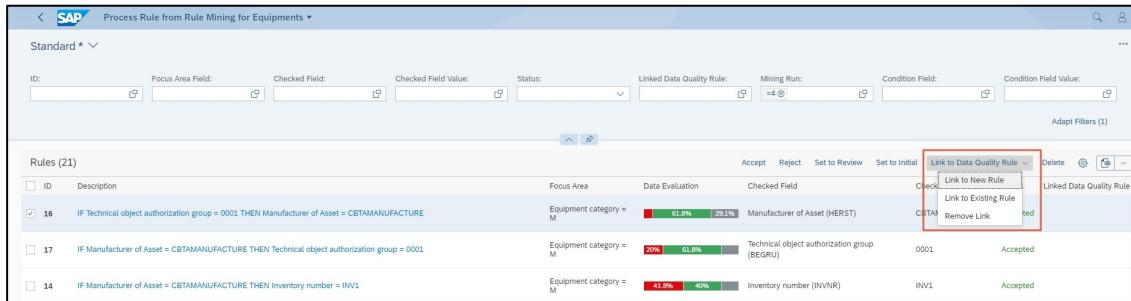
4. Once accepted, the rule status will be shown as accepted.



ID	Description	Focus Area	Data Evaluation	Checked Field	Checked Field Value	Status	Linked Data Quality Rule
16	IF Technical object authorization group = 0001 THEN Manufacturer of Asset = CBTAMANUFACTURE	M	<div style="width: 61.8%;">61.8%</div>	<div style="width: 29.1%;">29.1%</div>	Manufacturer of Asset (HERST)	CBTAMANUFACTURE	Accepted
17	IF Manufacturer of Asset = CBTAMANUFACTURE THEN Technical object authorization group = 0001	M	<div style="width: 20%;">20%</div>	<div style="width: 61.8%;">61.8%</div>	Technical object authorization group (BEGRU)	0001	Accepted
14	IF Manufacturer of Asset = CBTAMANUFACTURE THEN Inventory number = INV1	M	<div style="width: 41.8%;">41.8%</div>	<div style="width: 40%;">40%</div>	Inventory number (INVNR)	INV1	Accepted
15	IF Inventory number = INV1 THEN Manufacturer of Asset = CBTAMANUFACTURE	M	<div style="width: 40%;">40%</div>	<div style="width: 60%;">60%</div>	Manufacturer of Asset (HERST)	CBTAMANUFACTURE	Initial
33	IF Inventory number = INV1 THEN Technical object authorization group = 0001	M	<div style="width: 20%;">20%</div>	<div style="width: 60%;">60%</div>	Technical object authorization group (BEGRU)	0001	Initial

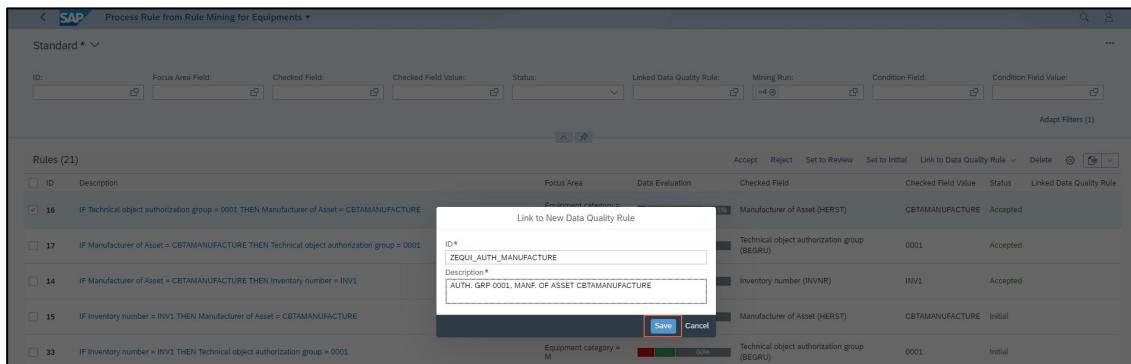
you can reset the status of a rule by click on "Set to Initial" button.

- Accepted rules can be implemented as existing or new data quality rules. Click on "Link to Data Quality Rule" & select required option to implement the rule.



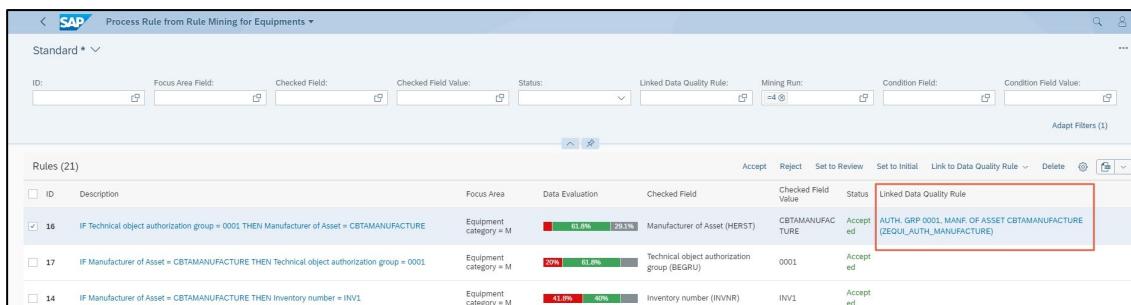
The screenshot shows the SAP Process Rule from Rule Mining for Equipments screen. In the 'Rules (21)' table, rule 16 is selected. A context menu is open over rule 16, with the 'Link to Data Quality Rule' option highlighted with a red border. Other options in the menu include 'Accept', 'Reject', 'Set to Review', 'Set to Initial', 'Link to New Rule', 'Link to Existing Rule', 'Copy', 'Remove Link', and 'Delete'.

- Provide the rule details & Click on the "save" button.

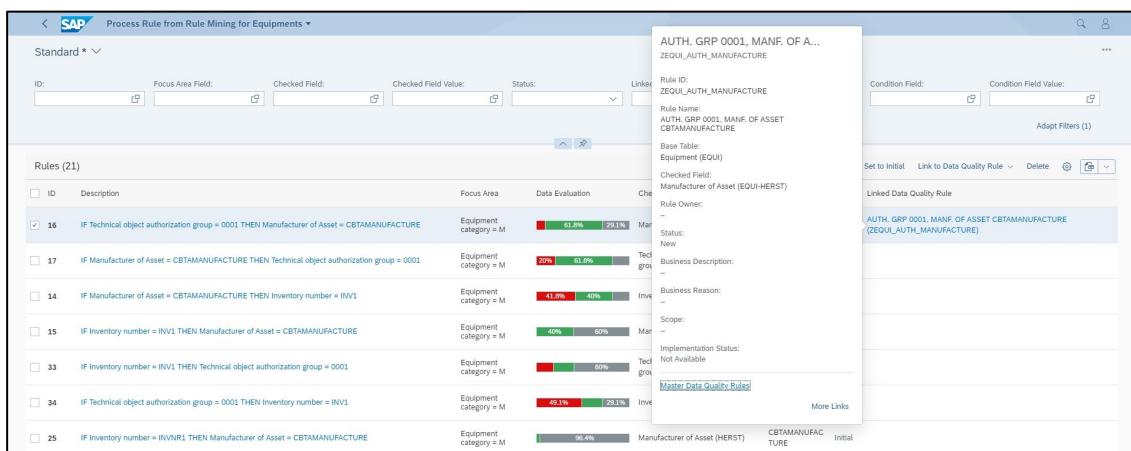


The screenshot shows the SAP Process Rule from Rule Mining for Equipments screen. Rule 16 is selected and linked to a new data quality rule. A modal dialog titled 'Link to New Data Quality Rule' is open, showing the 'ID' field as 'ZEQUI_AUTH_MANUFACTURE' and the 'Description' field as 'AUTH.GRP 0001, MANF. OF ASSET CBTAMANUFACTURE'. The 'Save' button is highlighted with a red border.

- The data quality rule is linked to the rules suggested from Rule Mining process.

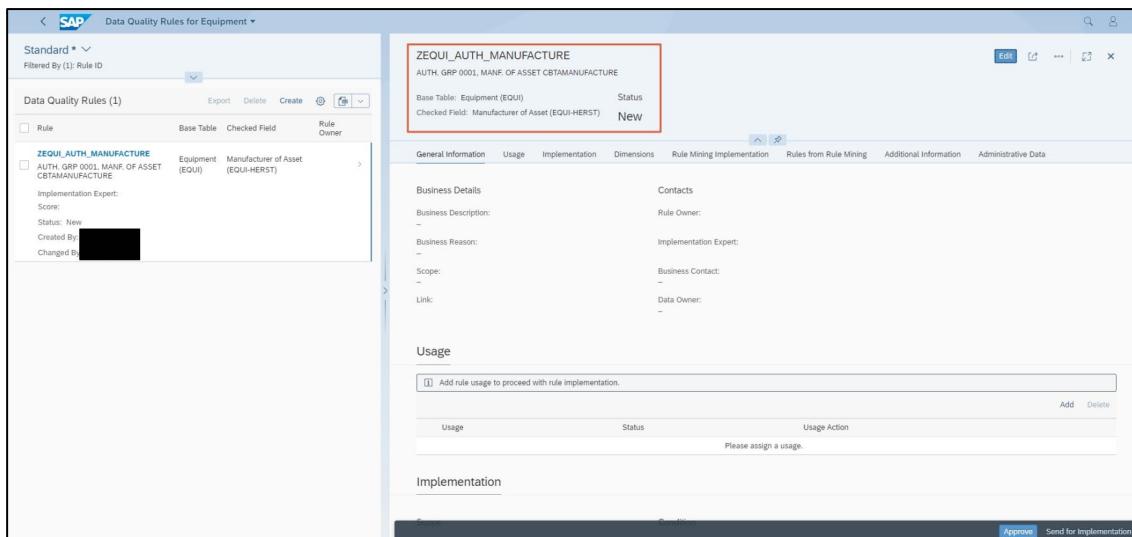


The screenshot shows the SAP Process Rule from Rule Mining for Equipments screen. Rule 16 is linked to a data quality rule with ID 'ZEQUI_AUTH_MANUFACTURE'. The linked rule's details are shown in a modal dialog: Rule ID 'ZEQUI_AUTH_MANUFACTURE', Rule Name 'AUTH.GRP 0001, MANF. OF ASSET CBTAMANUFACTURE', and Base Table 'Equipment (EQUI)'. The 'Save' button is highlighted with a red border.



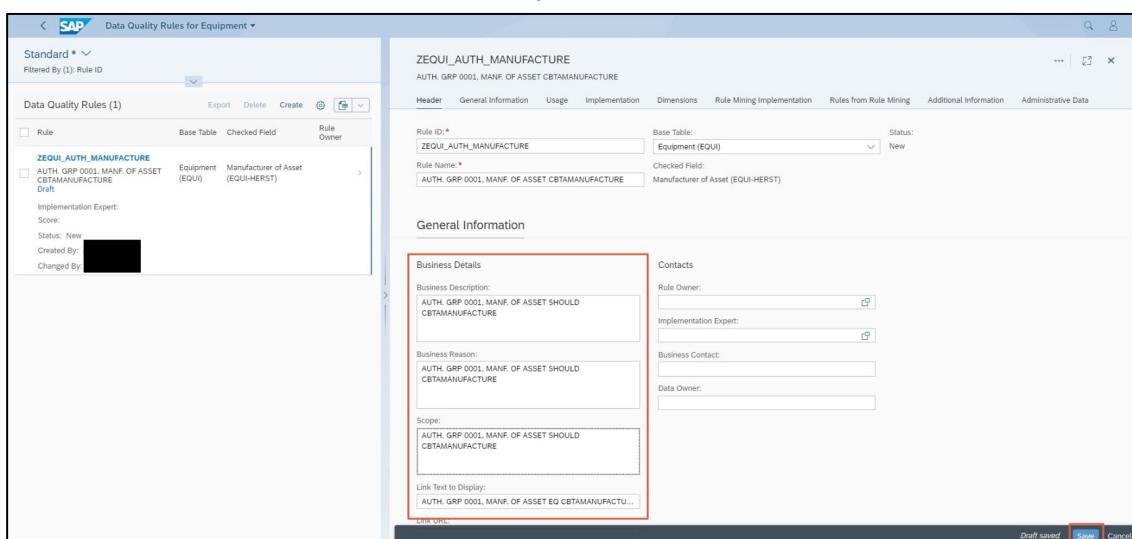
The screenshot shows the SAP Process Rule from Rule Mining for Equipments screen. Rule 16 is linked to a data quality rule with ID 'ZEQUI_AUTH_MANUFACTURE'. The detailed view of the linked rule shows its basic details: Rule ID 'ZEQUI_AUTH_MANUFACTURE', Rule Name 'AUTH.GRP 0001, MANF. OF ASSET CBTAMANUFACTURE', and Base Table 'Equipment (EQUI)'. The 'Save' button is highlighted with a red border.

- Click on the Linked data quality rule to navigate to Data Quality Rule Application. The basic rule details already filled as shown. i.e Rule ID, Rule Description, Base Table & Checked field.



The screenshot shows the SAP Data Quality Rules for Equipment interface. On the left, a sidebar lists 'Data Quality Rules (1)' with one item: 'ZQUI_AUTH_MANUFACTURE'. The main panel displays a detailed view of this rule. At the top right, there are buttons for 'Edit', 'Delete', 'Create', and other actions. Below this, the rule's header is shown: 'ZQUI_AUTH_MANUFACTURE' with 'AUTH.GRP 0001, MANF. OF ASSET CBTAMANUFACTURE' as the checked field. The status is 'New'. The main content area is divided into sections: 'General Information', 'Usage', 'Implementation', 'Dimensions', 'Rule Mining Implementation', 'Rules from Rule Mining', 'Additional Information', and 'Administrative Data'. Under 'General Information', there are fields for 'Business Details' (Business Description: 'AUTH.GRP 0001, MANF. OF ASSET SHOULD CBTAMANUFACTURE') and 'Contacts' (Rule Owner, Implementation Expert, Business Contact, Data Owner). Under 'Usage', there is a note: 'Add rule usage to proceed with rule implementation.' Under 'Implementation', there is a note: 'Please assign a usage.' At the bottom right, there are buttons for 'Approve' and 'Send for Implementation'.

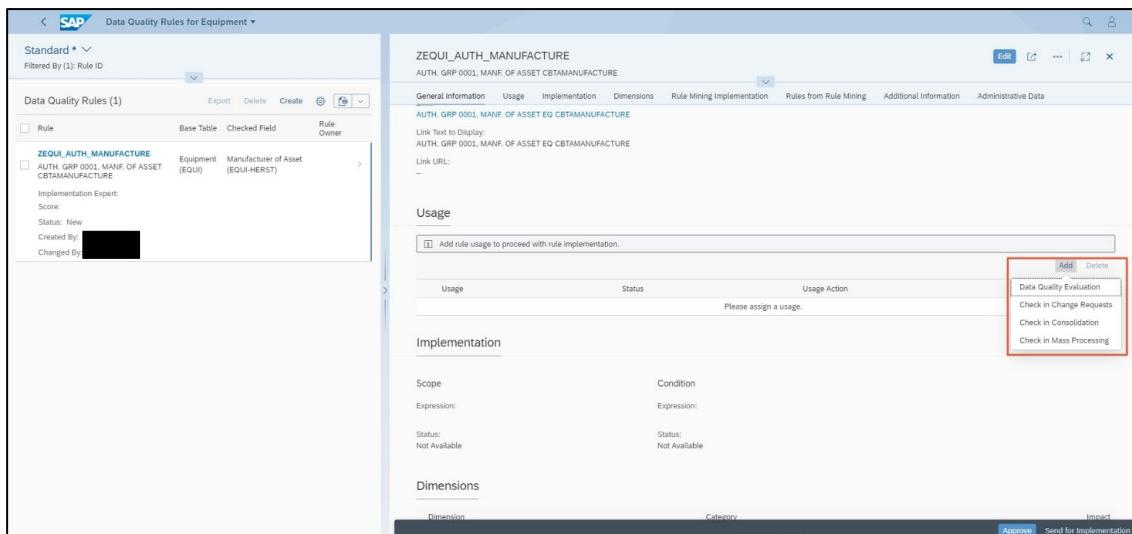
9. Fill the General Information details for the respective rule. Click on "Save" button.



The screenshot shows the SAP Data Quality Rules for Equipment interface with a draft rule. The sidebar shows 'Data Quality Rules (1)' with one item: 'ZQUI_AUTH_MANUFACTURE'. The main panel shows the rule's header: 'ZQUI_AUTH_MANUFACTURE' with 'AUTH.GRP 0001, MANF. OF ASSET CBTAMANUFACTURE' as the checked field. The status is 'New'. The 'General Information' section is filled with business details: 'Business Description: AUTH.GRP 0001, MANF. OF ASSET SHOULD CBTAMANUFACTURE', 'Business Reason: AUTH.GRP 0001, MANF. OF ASSET SHOULD CBTAMANUFACTURE', and 'Scope: AUTH.GRP 0001, MANF. OF ASSET SHOULD CBTAMANUFACTURE'. The 'Contacts' section is also filled. At the bottom right, there is a message 'Draft saved' and buttons for 'Save' and 'Cancel'.

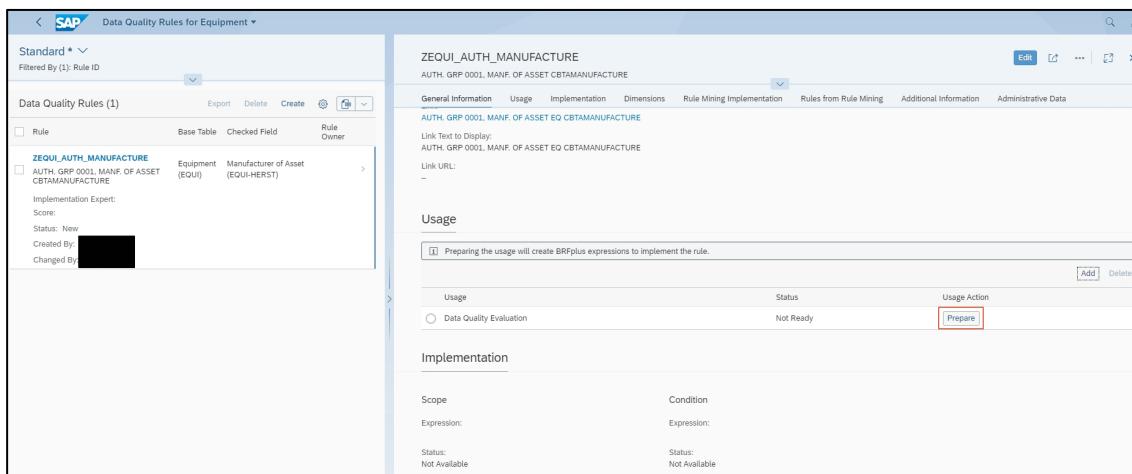
10. Click on the "Add" button in Usage section, select usage as per the requirement where we need to apply this rule. Below mentioned usage are explained later in this document.

- I. Data Quality Evaluation: - The rule will be applied to data Quality Evaluation process to do quality check against the active records.
- II. Check in Change Request: - The rule will be validated in Change request page for respective object during Create or Change type.
- III. Check in Consolidation: - The rule will be used to validate during the validation step of Consolidation process (Mass create).
- IV. Check in Mass Processing: - The rule will be used to validate during the validation step of Mass processing (Mass change).



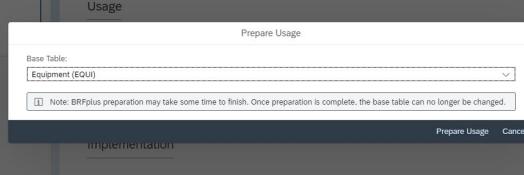
The screenshot shows the SAP Data Quality Rules for Equipment interface. On the left, a list of rules is shown, with one rule selected: 'ZEOUI_AUTH_MANUFACTURE'. The main panel displays the rule details. Under the 'Usage' tab, there is a table with columns 'Usage', 'Status', and 'Usage Action'. A red box highlights the 'Add' button and the 'Data Quality Evaluation' option under 'Usage Action'. Other tabs like 'Implementation', 'Dimensions', and 'Appendix' are also visible.

11. Usage is being added. Click on "Prepare" button to prepare the implementation expressions for the rule.



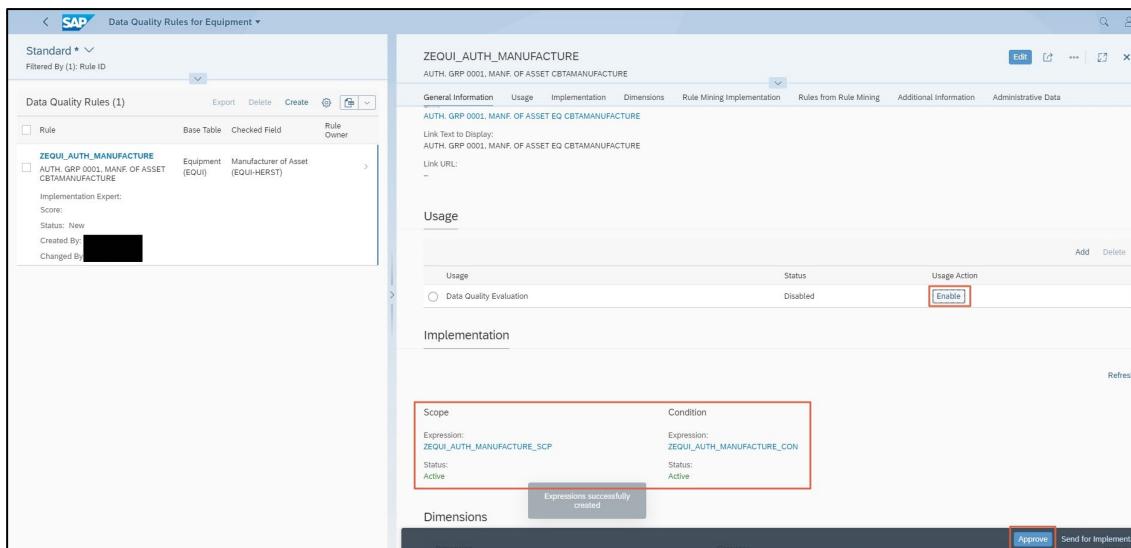
The screenshot shows the SAP Data Quality Rules for Equipment interface. The 'Usage' tab is active, showing a table with a single row for 'Data Quality Evaluation'. The 'Usage Action' column contains a 'Prepare' button, which is highlighted with a red box.

Pop-up screen will come with the base table (EQUI) for which usage will be prepared. Click on "Prepare usage" button.

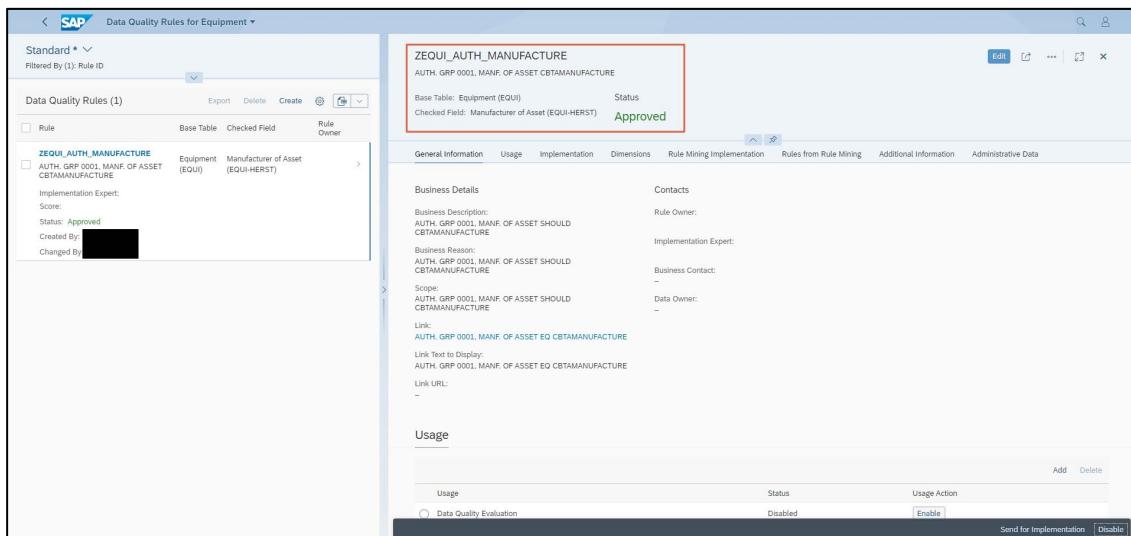


The screenshot shows a pop-up window titled 'Prepare Usage'. It contains a dropdown menu for 'Base Table' set to 'Equipment (EQUI)'. Below it is a note: 'Note: BRFplus preparation may take some time to finish. Once preparation is complete, the base table can no longer be changed.' At the bottom are 'Prepare Usage' and 'Cancel' buttons.

The Implementation expressions are created & activated as well. Click on the Enable button to enable the rule usage. Next Click on "Approve" button.



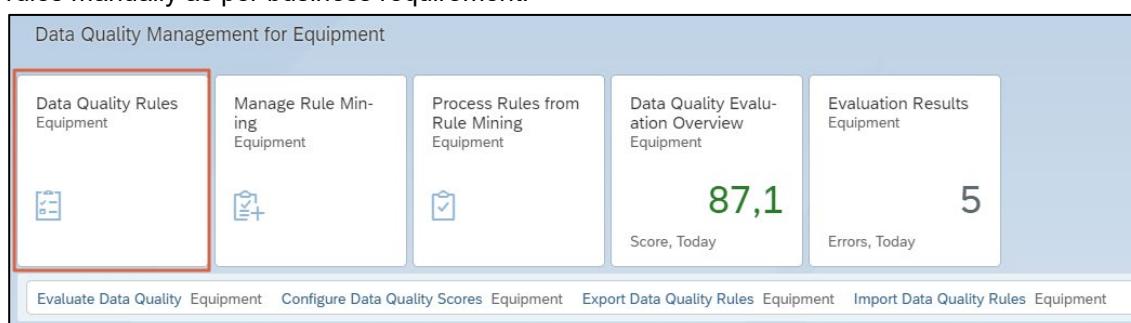
12. Now the rule is approved & ready for the usage.



Data Quality Rule

Data Quality Rule allows you to manage your rules for master data quality in one single place. It provides you with a repository to catalog and define data-quality rules, including comprehensive descriptions of rules, business aspects, and contact information.

- Run t-code /UI2/FLP. Launch the Fiori application “Data Quality Rule - Equipment” to create the MDQ rules manually as per business requirement.



You can use the following steps to perform data quality rule creation for Equipment. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point respectively.

- Click on "Create" button to create a new data quality rule. You can also manage the existing rules in the system by click on the rule row.

Data Quality Rules (9)								
Rule	Base Table	Checked Field	Rule Owner	Implementation Expert	Score	Status	Created By	Changed By
ZT	Equipment (EQUI)	Technical object authorization group (EQUI-BEGRU)			52.8	Approved		
ZTfg								
TEST_LEELA_R1	Equipment (EQUI)	Technical object authorization group (EQUI-BEGRU)			100.0	Disabled		
MDO:When AuthGrp>=0002 ObjType<1000 ↳ Unsaved Changes by ADMIN_CBTIA								
TEST_EQUI_CHAR	Characteristics (EQUI_AUSP)	EQUI_AUSP-ATWRT				Approved		
TEST_EQUI_CHAR								
ZEQUI_AUTH_MANUFACTURE	Equipment (EQUI)	Manufacturer of Asset (EQUI-HERST)				Approved		
TEST_EQUZ_R2	Equipment time segment (EQUZ)	Maintenance Planning Plant (EQUZ-IWERK)				Approved		
TEST_ILOA_R3	PM Object Location and Account Assignment (ILOA)	Maintenance Plant (ILOA-SWERK)				Approved		
TEST_ILOA_R3								
TEST_ADR12_R5	URL (ADR12)	URI type flag (ADR12-URI_TYPE)				Approved		
TEST_ADR12_R5								
TEST_FLEET_R6	Equipment Fleet attributes (EO_FLEET)	EO_FLEET-FLEET_USE				Approved		
TEST_FLEET_R6								
TEST_FLEET_R6								

- Fill the Rule ID, Rule Name, Choose the base table & Checked field to create the data quality rule. Fill the business details & contact details as well. Click on "Save" to create the rule.

Data Quality Rules (10)			
Rule	Base Table	Checked Field	Rule Owner
ZT	Equipment (EQUI)	Technical object authorization group (EQUI-BEGRU)	
ZTfg			
TEST_EQUI_CHAR	Characteristics (EQUI_AUSP)	EQUI_AUSP-ATWRT	

<Unnamed Object>

Header General Information Usage Implementation Dimensions Additional Information Administrative Data

Rule ID:*	Base Table:	Status:
Rule Name:*	Checked Field:	New

General Information

Business Details Contacts

Business Description: Rule Owner:

Business Reason: Implementation Expert:

Scope: Business Contact:

Business Contact: Data Owner:

Save Cancel

Data Quality Rules (10)			
Rule	Base Table	Checked Field	Rule Owner
ZT	Equipment (EQUI)	Technical object authorization group (EQUI-BEGRU)	
ZTfg			
TEST_EQUI_CHAR	Characteristics (EQUI_AUSP)	EQUI_AUSP-ATWRT	

ZEQUI_RULE_1

Auth. Group should not be initial

Header General Information Usage Implementation Dimensions Additional Information Administrative Data

Rule ID:*	Base Table:	Status:
ZEQUI_RULE_1	Equipment (EQUI)	New
Rule Name:*	Checked Field:	
Auth. Group should not be initial	EQUI-BEGRU	

General Information

Business Details Contacts

Business Description: Rule Owner:

Business Reason: Implementation Expert:

Scope: Business Contact:

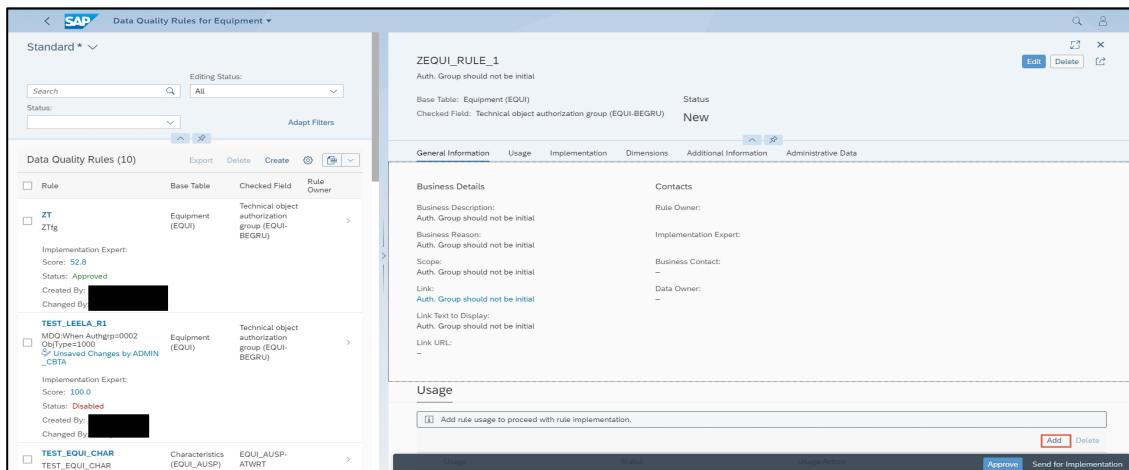
Business Contact: Data Owner:

Draft saved Save Cancel

Note

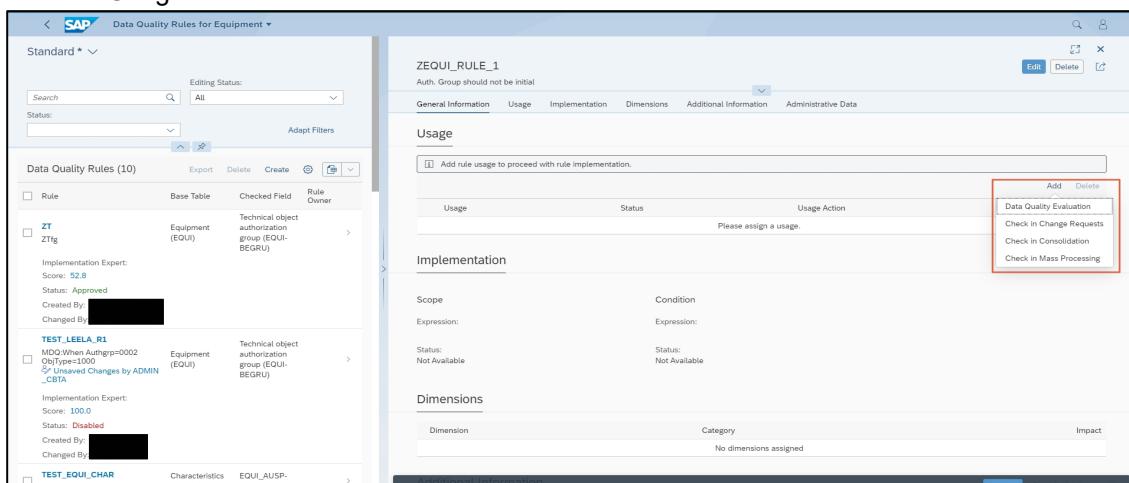
There should not be any spaces in the rule ID. Once the rule created rule ID can't be changed.

4. Data Quality rule is saved. Click on "Add" button of usage section.



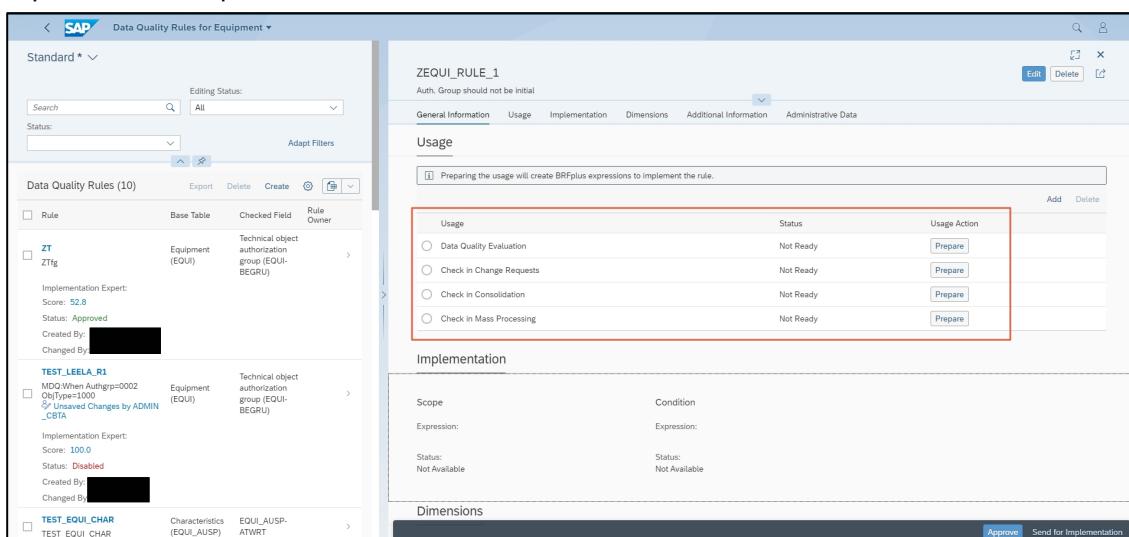
The screenshot shows the SAP Data Quality Rules for Equipment interface. On the left, a list of rules is displayed, including 'ZT' and 'TEST_EQUI_CHAR'. On the right, the details for 'ZEQUI_RULE_1' are shown. The 'Usage' tab is selected, and an 'Add' button is visible within the usage configuration area.

5. select usage as per the requirement where we need to apply this rule. Please refer Appendix A for different Usage in detail.



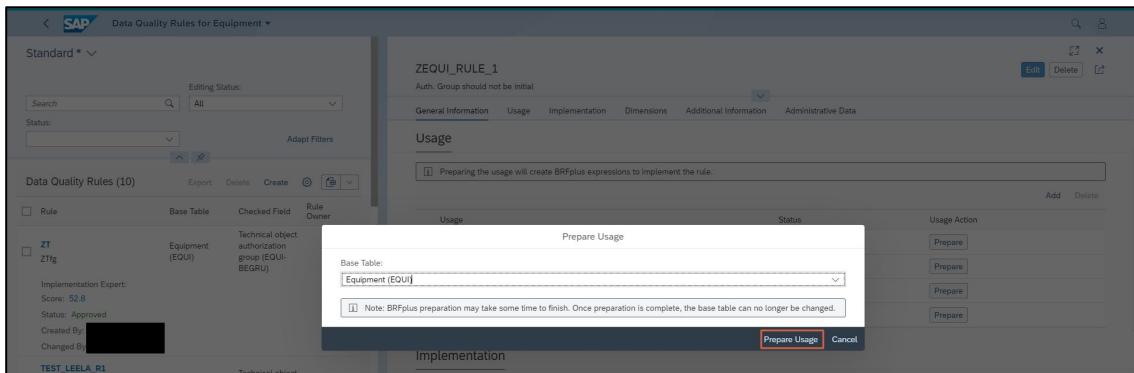
The screenshot shows the SAP Data Quality Rules for Equipment interface. The 'Usage' tab is active, displaying a list of usage actions: 'Data Quality Evaluation', 'Check in Change Requests', 'Check in Consolidation', and 'Check in Mass Processing'. The 'Add' button is visible at the top of the usage list.

6. Usages is being added as per the business requirement. Click on "Prepare" button to prepare the implementation expressions for the rule.

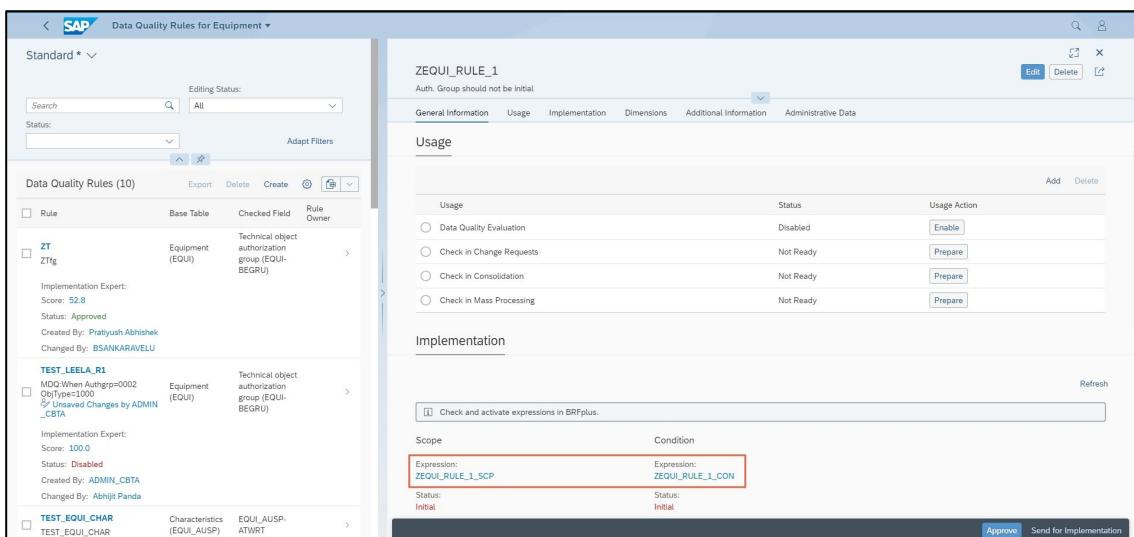


The screenshot shows the SAP Data Quality Rules for Equipment interface. The 'Usage' tab is active, and the 'Prepare' button is highlighted for each usage action: 'Data Quality Evaluation', 'Check in Change Requests', 'Check in Consolidation', and 'Check in Mass Processing'.

7. Click on the prepare button of anyone usage to create the Implementation expressions for scope & condition.



8. The expressions are generated for Scope & condition. Scope expression will determine the records which will be eligible to considered for this quality rule check. Condition expression will determine the BRF rule for the record validation in different usages.



9. Click on the scope expression link to navigate to BRF+ workbench page, where the condition expression will be created. Create the expression to consider the records for rule check. The expression will filter out the records which are not true for the expression. Save & Activate the expression for scope.



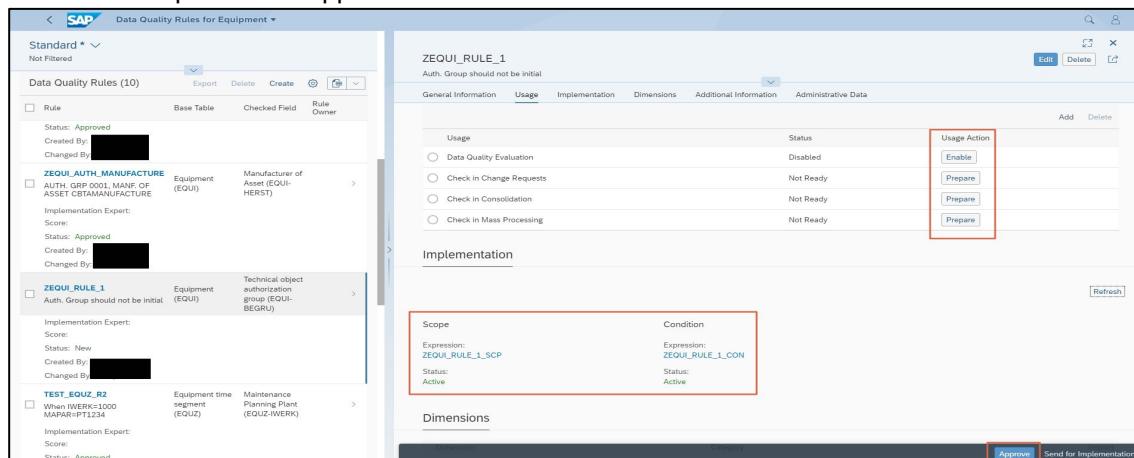
10. Click on the condition expression link to navigate to BRF+ workbench page, where the condition expression will be created. Create the expression to do the validation on the scope eligible records. Save & Activate the expression for condition.



```

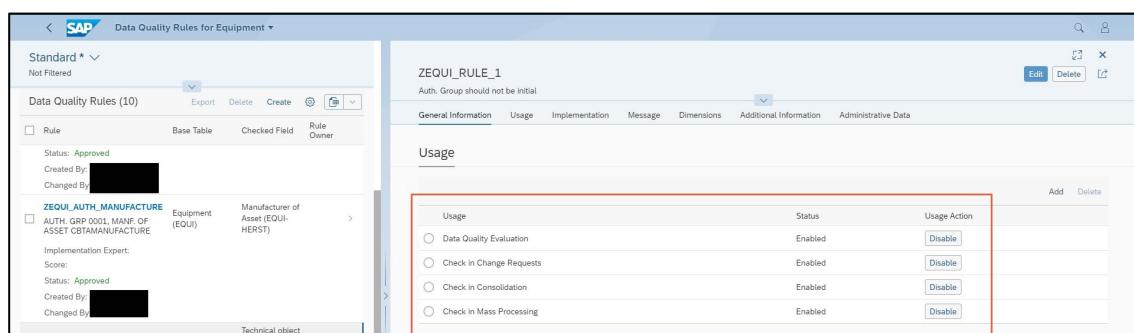
Boolean: ZEQUI_RULE_1_CON
If
  Key and ...-AuthGroup is not initial
Then Boolean is true, else it is false
  
```

11. The Implementation expressions are now active status. Click on the enable button for which we just created the expressions. Approve the rule now.



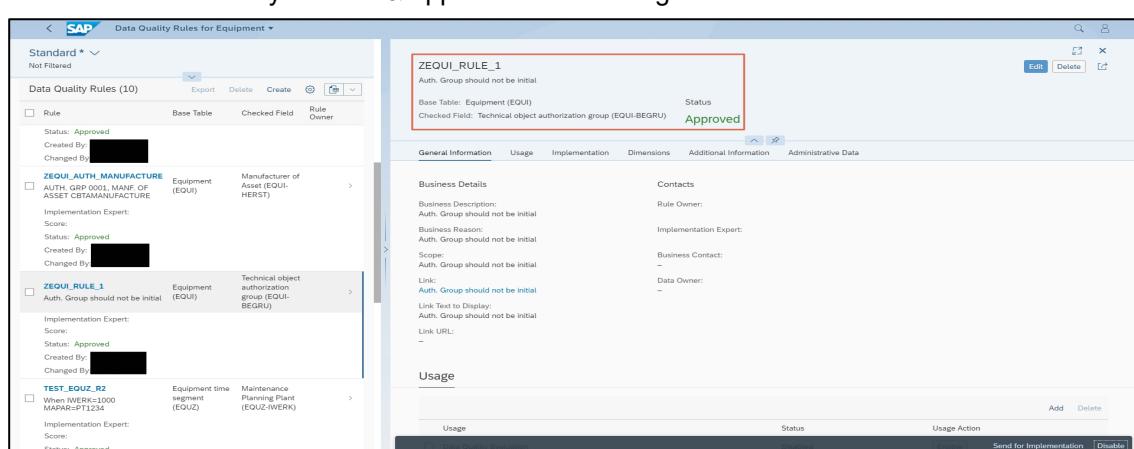
Usage Action	Status
Enable	Disabled
Prepare	Not Ready
Prepare	Not Ready
Prepare	Not Ready

12. Prepare & Enable other usage for the quality rule.



Usage	Status	Usage Action
Data Quality Evaluation	Enabled	Disable
Check in Change Requests	Enabled	Disable
Check in Consolidation	Enabled	Disable
Check in Mass Processing	Enabled	Disable

13. The rule is successfully created & approved for the usage.



Usage	Status	Usage Action
Data Quality Evaluation	Disabled	Enable
Check in Change Requests	Disabled	Enable
Check in Consolidation	Disabled	Enable
Check in Mass Processing	Disabled	Enable

Evaluate Data Quality

Data quality evaluation applies all rules to the active data in the system. The results of the evaluation are stored for later analysis. You can initiate evaluations ad-hoc, but of course also schedule evaluations, for example at weekly intervals.

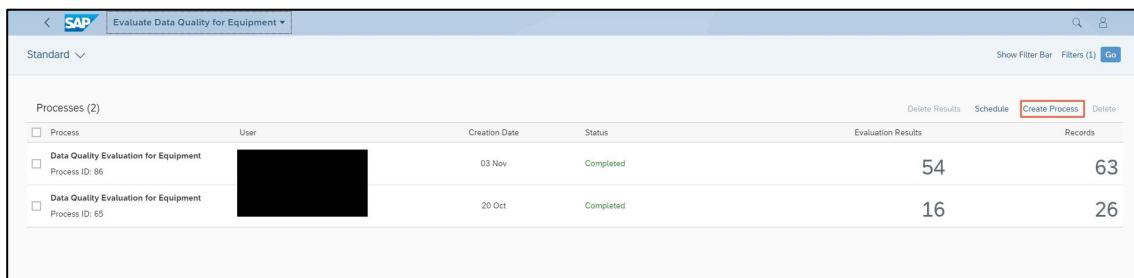
Below the steps are explained to do a data quality evaluation on the active data of equipment. Similar steps can be used for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point respectively.

Ad-Hoc Evaluation

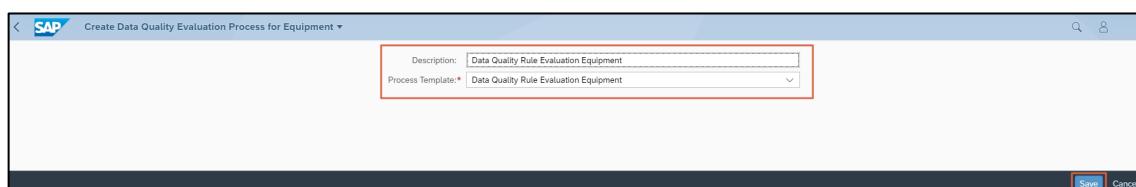
1. Run t-code /UI2/FLP. Launch the Fiori application “Evaluate Data Quality - Equipment” to measure and analyze the quality of existing master data.



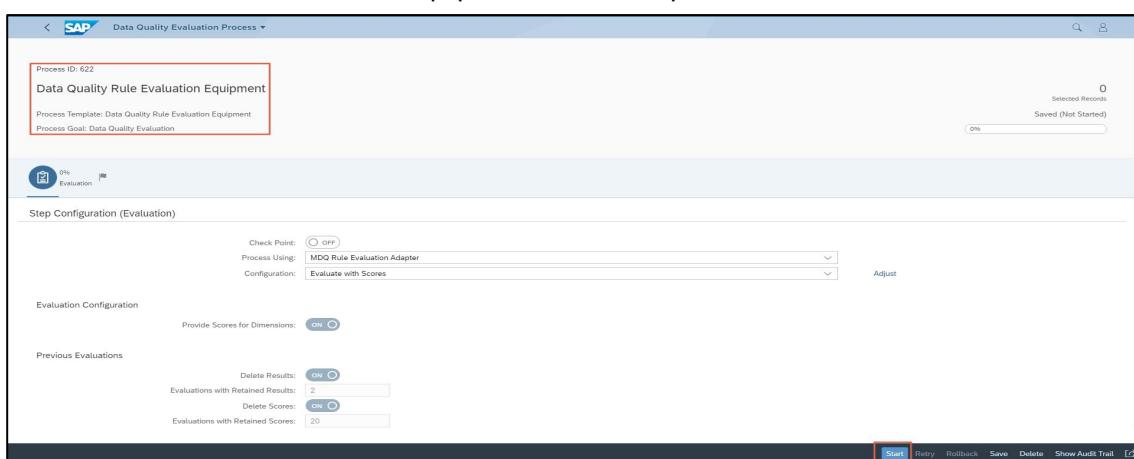
2. Click on "Create" button to start ad-hoc evaluation process on respective object.



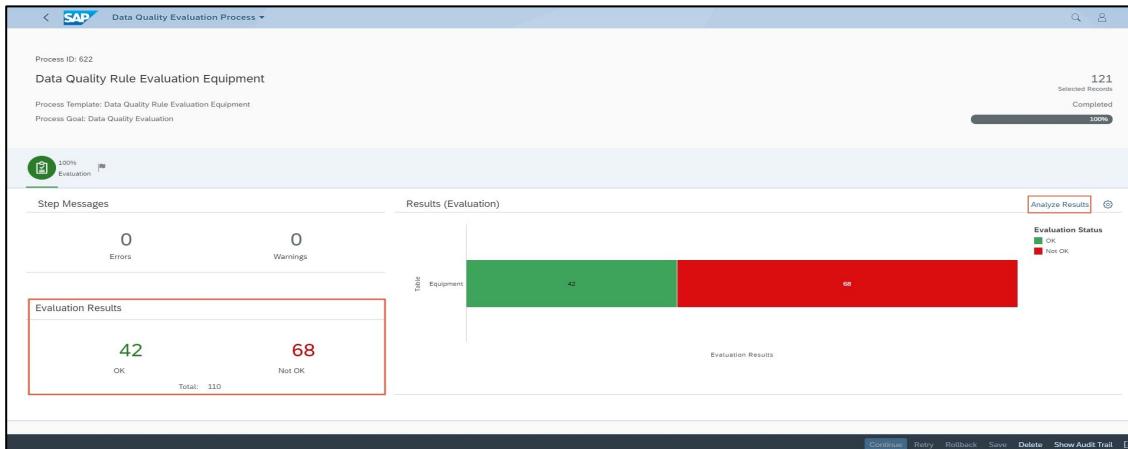
3. By default, the respective Process template will be selected for equipment. Click on "Save" button to create an evaluation process.



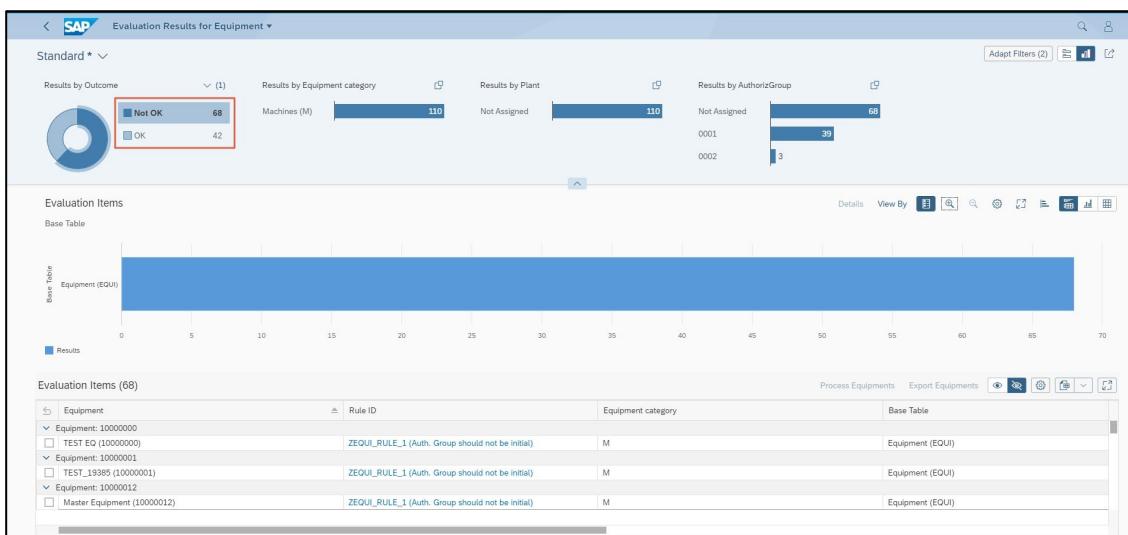
4. Click on "Start" button to start the Equipment Evaluation process.



5. All approved data quality rules will be included in the evaluation process. The Graph will be displayed as per the base table on which the data quality rules created. The count of OK & Not OK records will be the sum of records after it ran by each data quality rule on active data.



Click on "Analyze Result" button to navigate to the "Evaluation Result - Equipment" application which explained in this document. The below snap is the Analytical view of the evaluation result.

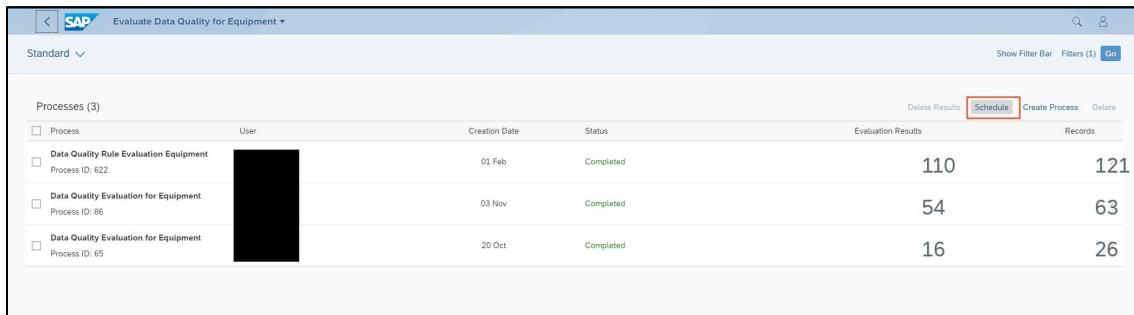


Scheduled Evaluation

1. Run t-code /UI2/FLP. Launch the Fiori application “Evaluate Data Quality - Equipment” to measure and analyze the quality of existing master data.

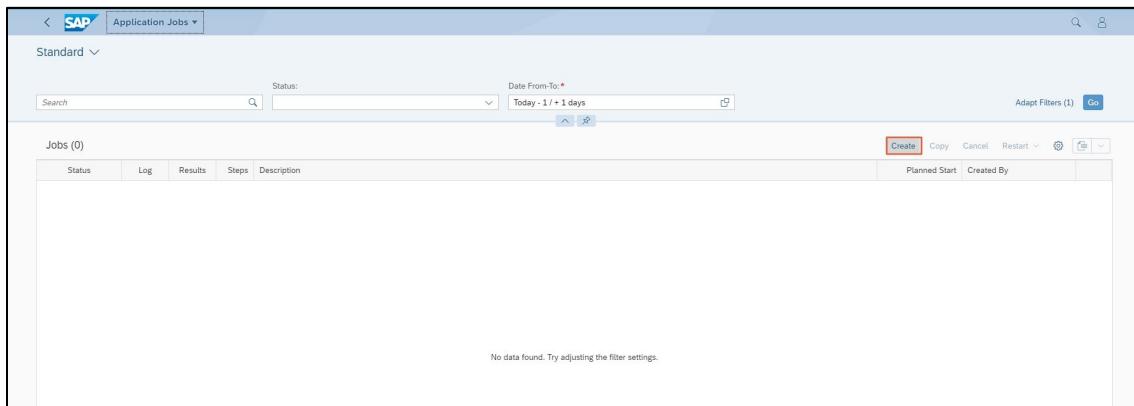


2. Click on "Schedule" button to schedule a Evaluation Data Quality process in a specific interval as per requirement.



Process	User	Creation Date	Status	Evaluation Results	Records
Process	User [REDACTED]	01 Feb	Completed	110	121
Data Quality Rule Evaluation Equipment Process ID: E22	[REDACTED]	03 Nov	Completed	54	63
Data Quality Evaluation for Equipment Process ID: 86	[REDACTED]	20 Oct	Completed	16	26
Data Quality Evaluation for Equipment Process ID: 65	[REDACTED]				

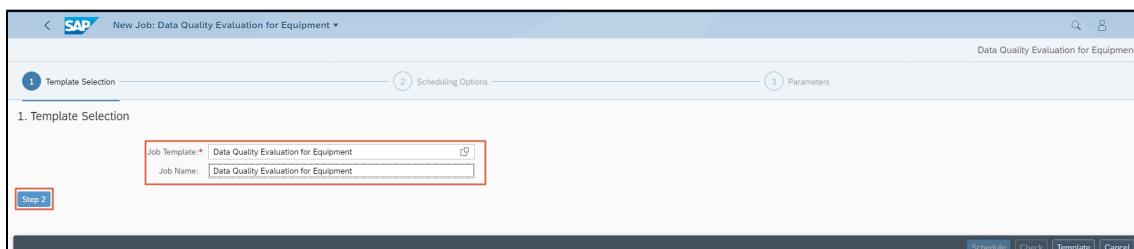
3. Click on "Create" button to create a new schedule evaluation run. The below page shows the scheduled jobs for the evaluation run.



Status:	Date From-To:	Adapt Filters (1)	Go
Jobs (0)			
Status Log Results Steps Description Planned Start Created By			

No data found. Try adjusting the filter settings.

4. First step is Template selection. Select the required Job template. By default, the respective object's Job template is selected. Click on "Step 2" button to continue.



1. Template Selection

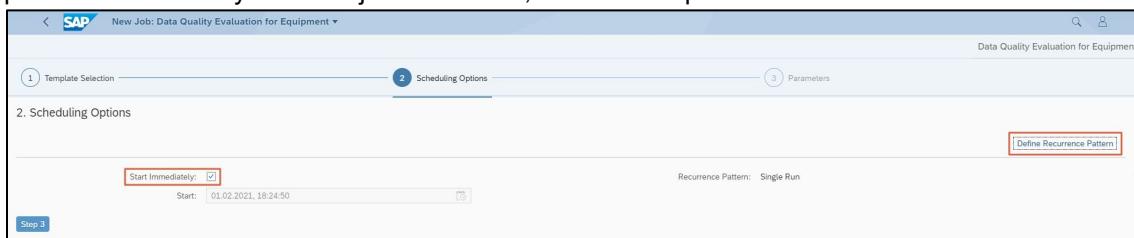
Job Template: Data Quality Evaluation for Equipment

Job Name: Data Quality Evaluation for Equipment

Step 2

Schedule Check Template Cancel

5. Second step is "Scheduling Options". Enable the Start immediately checkbox if you want to start the process immediately after the job scheduled, click on "Step 3" button to continue.



2. Scheduling Options

Start Immediately:

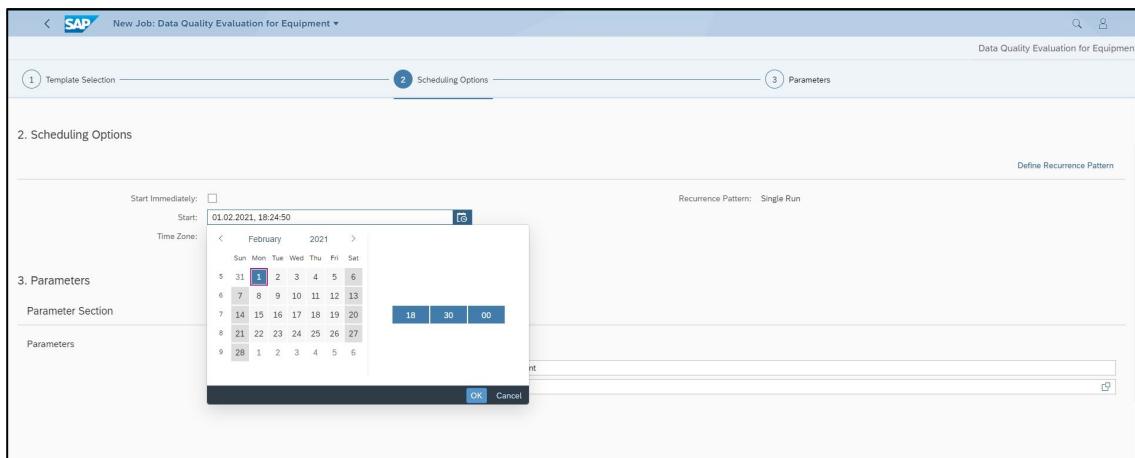
Start: 01.02.2021, 18:24:50

Recurrence Pattern: Single Run

Step 3

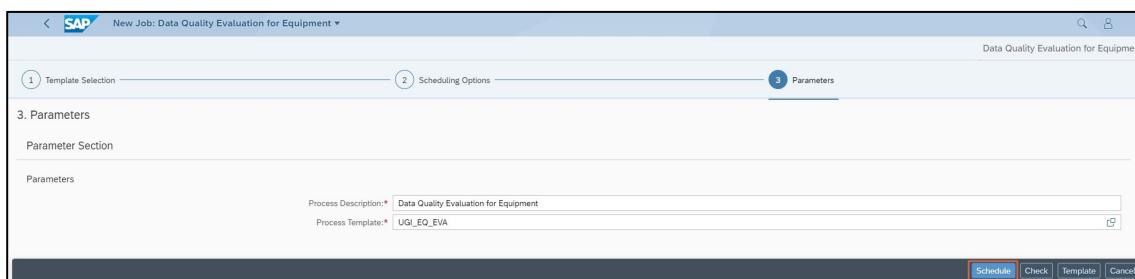
Define Recurrence Pattern

If you do not want to run the process immediately after the job is scheduled, Uncheck the Start immediately field. You can set the date & time as shown below to schedule the Evaluation process. By Click on the "Define Recurrence Pattern" button, you can set the scheduled interval to repeat the process run after a specific interval.

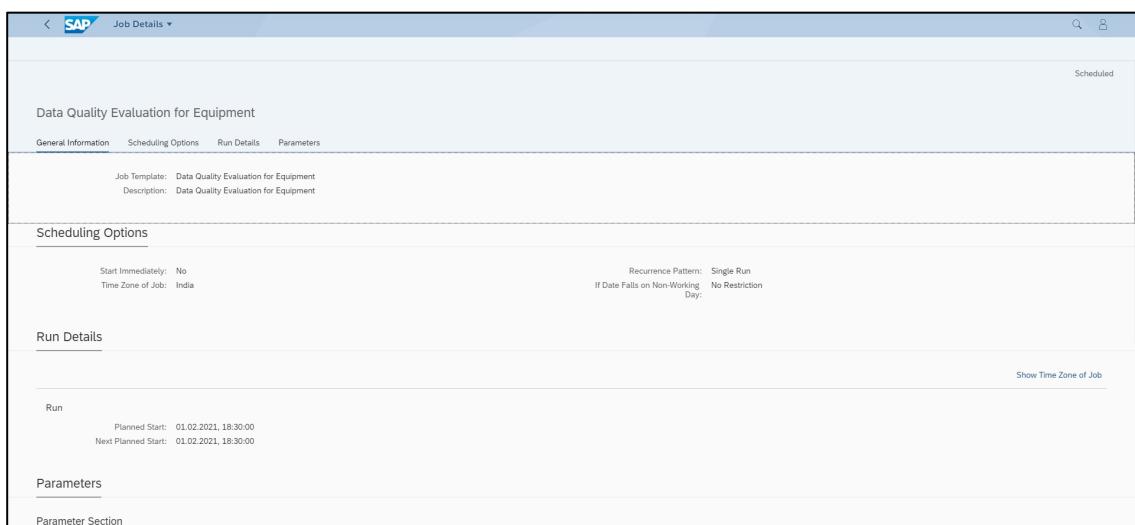


After the set the schedule details, click on "Step 3" button to continue.

- Fill the Process Template details for Evaluation process & Click on Schedule button.

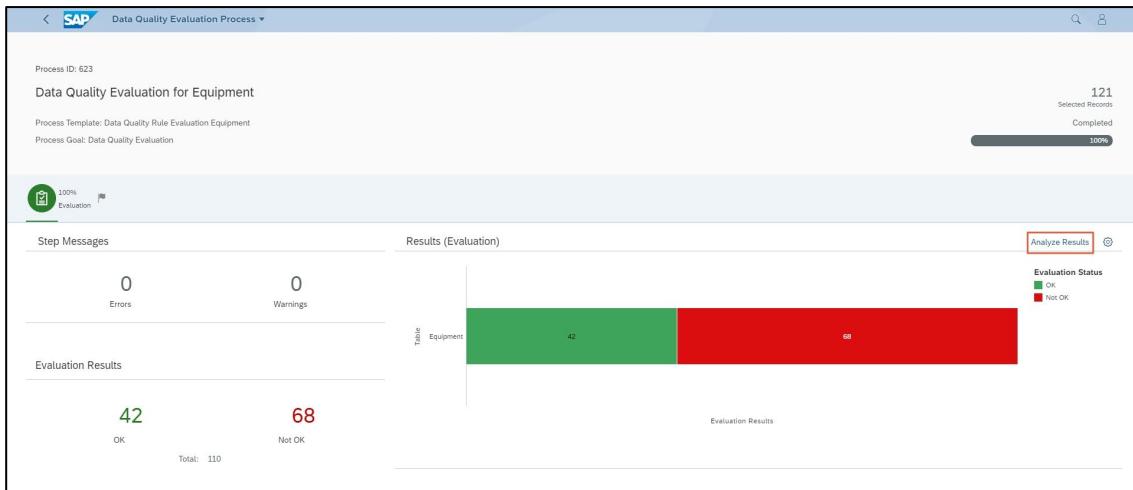


- The job for Evaluation process is scheduled now. In Planned start column, you can see the schedule timing. Click on the highlighted arrow to see the Scheduled job details.

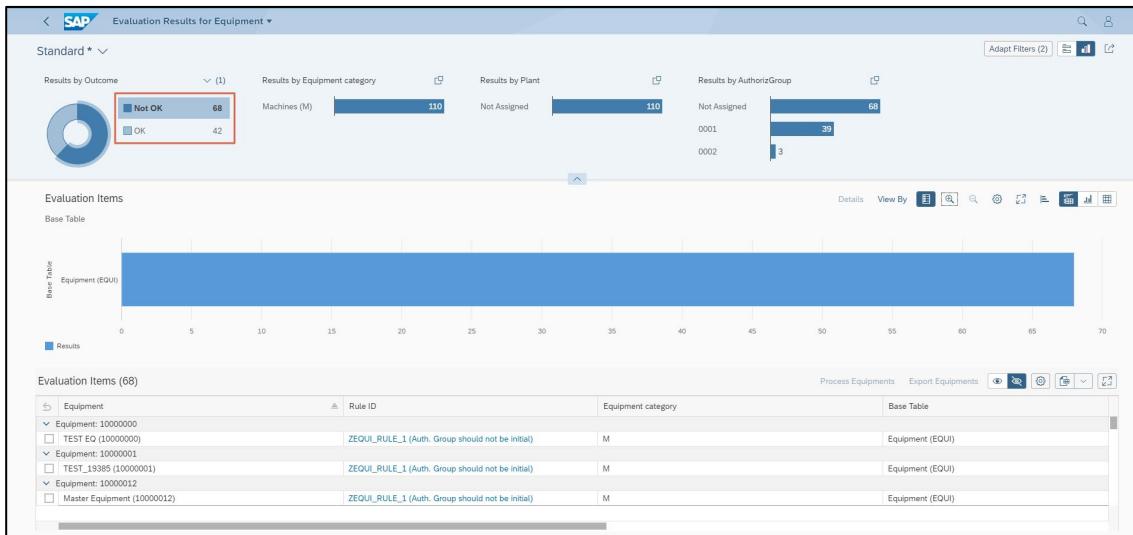


- The Evaluation process Successfully completed on the scheduled timing as per the configuration. Click on the Process id row to see the Evaluation process details.

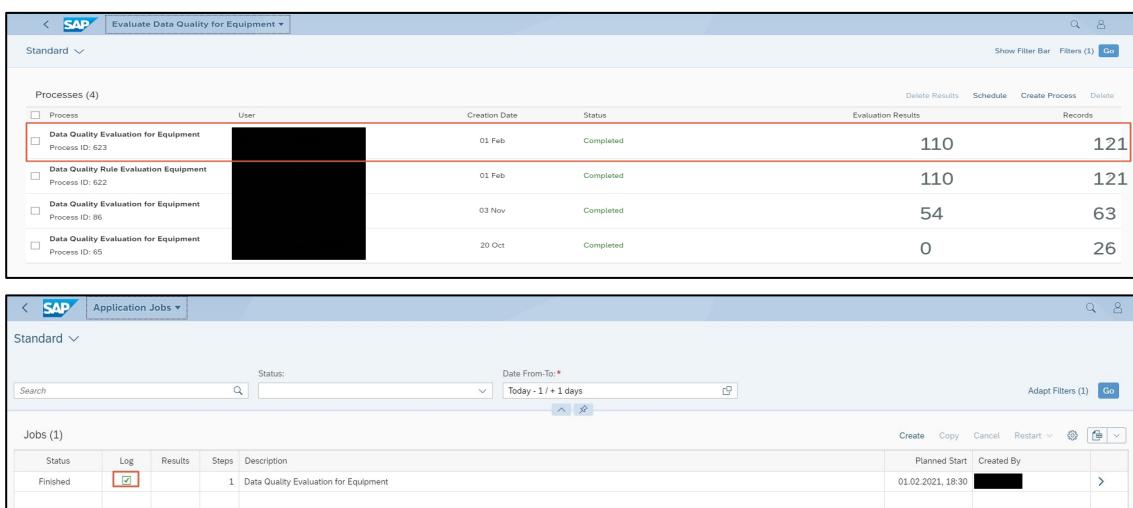
Evaluate Data Quality for Equipment					
Processes (4)		User	Creation Date	Status	Evaluation Results
<input type="checkbox"/>	Process		01 Feb	Completed	110 121
<input type="checkbox"/>	Data Quality Evaluation for Equipment Process ID: 623		01 Feb	Completed	110 121
<input type="checkbox"/>	Data Quality Rule Evaluation Equipment Process ID: 622		03 Nov	Completed	54 63
<input type="checkbox"/>	Data Quality Evaluation for Equipment Process ID: 86		20 Oct	Completed	0 26
<input type="checkbox"/>	Data Quality Evaluation for Equipment Process ID: 65				



Click on "Analyze Result" button to navigate to the "Evaluation Result - Equipment" application which explained in this document. The below snap is the Analytical view of the evaluation result.



9. Click on "Schedule" button to see the scheduled job details. The job status is finished & In Log column, you can see the job logs. Click on  to see the job logs.





Message Type	Description	Time Stamp
<input checked="" type="checkbox"/> Success	Process 623 started	01.02.2021, 18:30

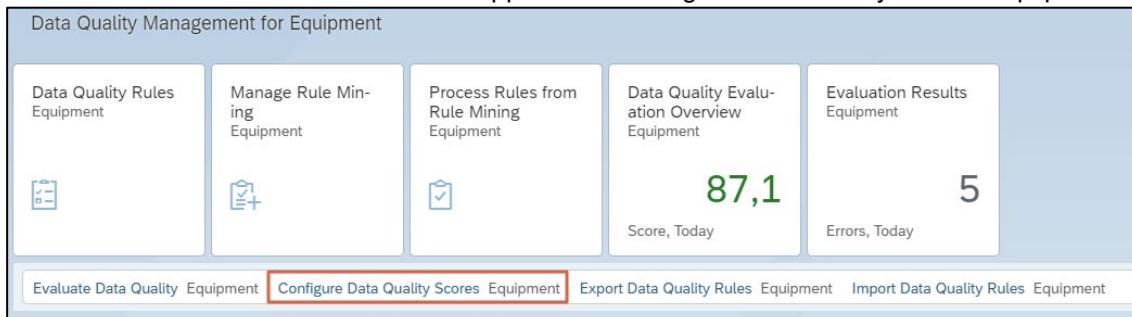
Configure Data Quality Scores

Data quality score configuration helps to measure the efficiency of record & quality records based on the threshold value configured. This configuration is utilized for data quality rules selected in a Dimension & calculate the evaluation KPI to measure the data quality.

Rules can be assigned to freely defined data quality dimensions and weighted according to their impact to provide you with data quality scores.

Below the steps are shown how to configure the Dimension for Data Quality score for Equipment. Similar steps can be followed for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point respectively.

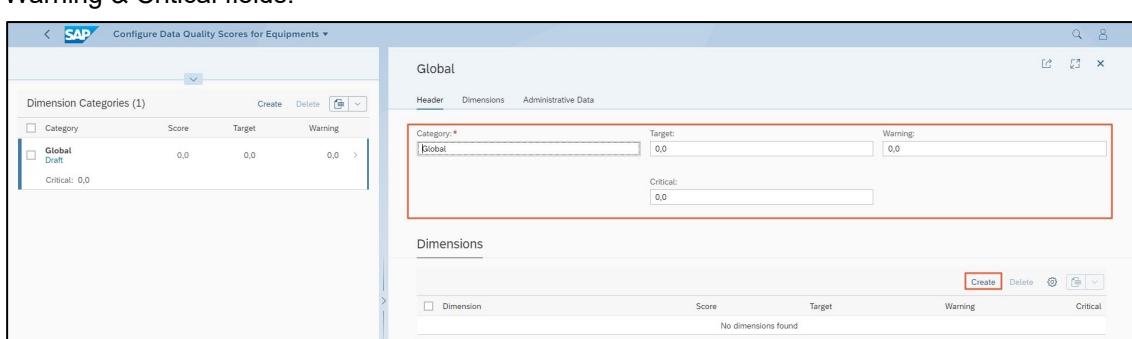
- Run t-code "/UI2/FLP". Launch the Fiori application "Configure Data Quality Score - Equipment".



- Click on "create" button to create a Dimension category for Data Quality score.

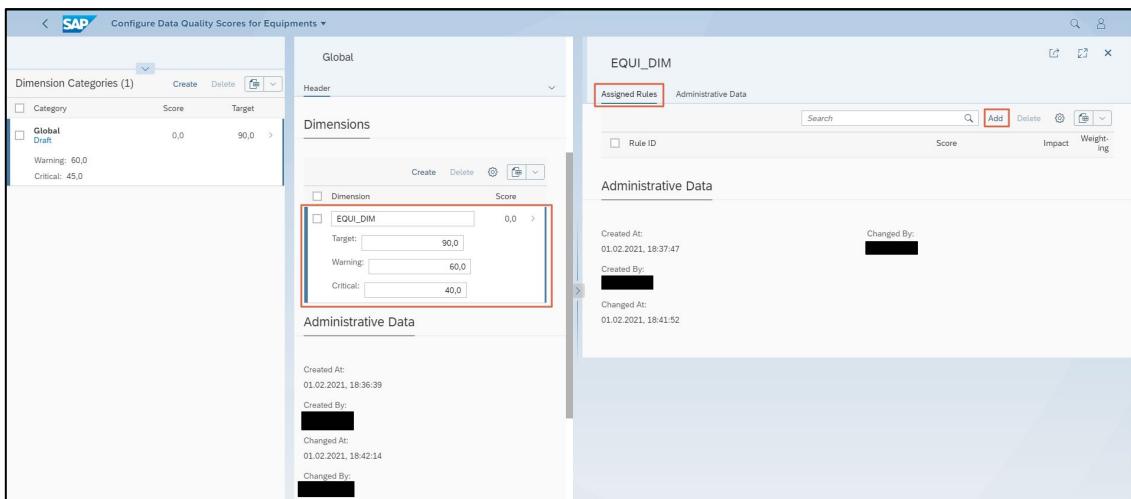


- In Header section, Provide the category name as Global & set the threshold values for Target, Warning & Critical fields.

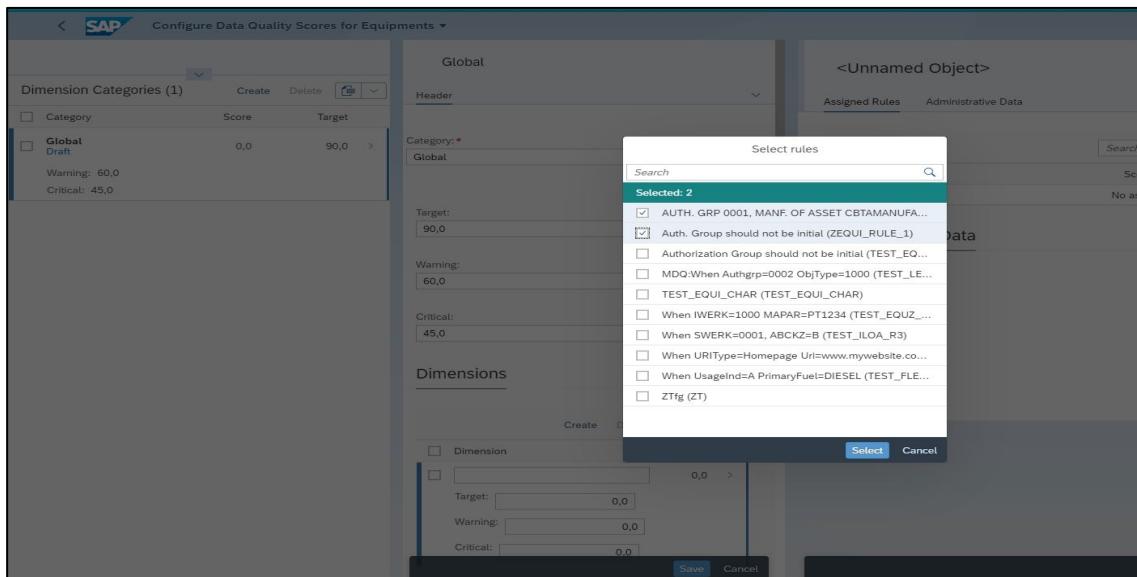


Click on "Create" button to create a dimension with assigned rules.

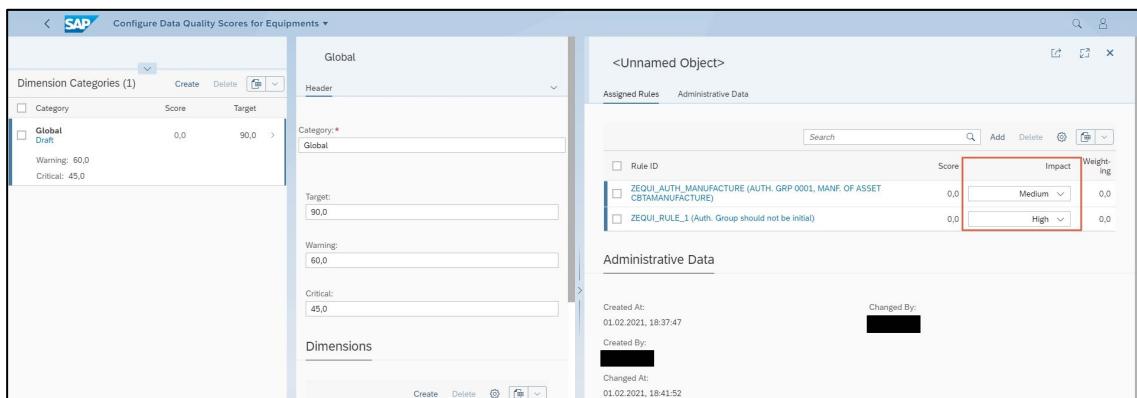
- Provide the Dimension name & Threshold values for the dimension. Scores will be calculated based on the assigned rules.



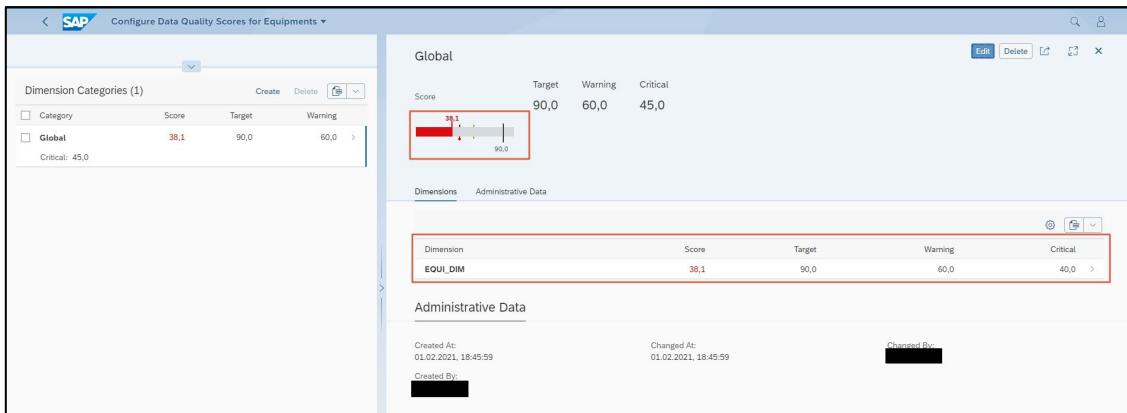
5. Click on the "Add" button to add the rules from the Data Quality rule repository. Select the rules you want to include for the score calculation & Click on "Submit" button.



6. Provide the Impact of each rules as High,Medium,Low. Click on the "Apply" button. Dimensions will be saved.



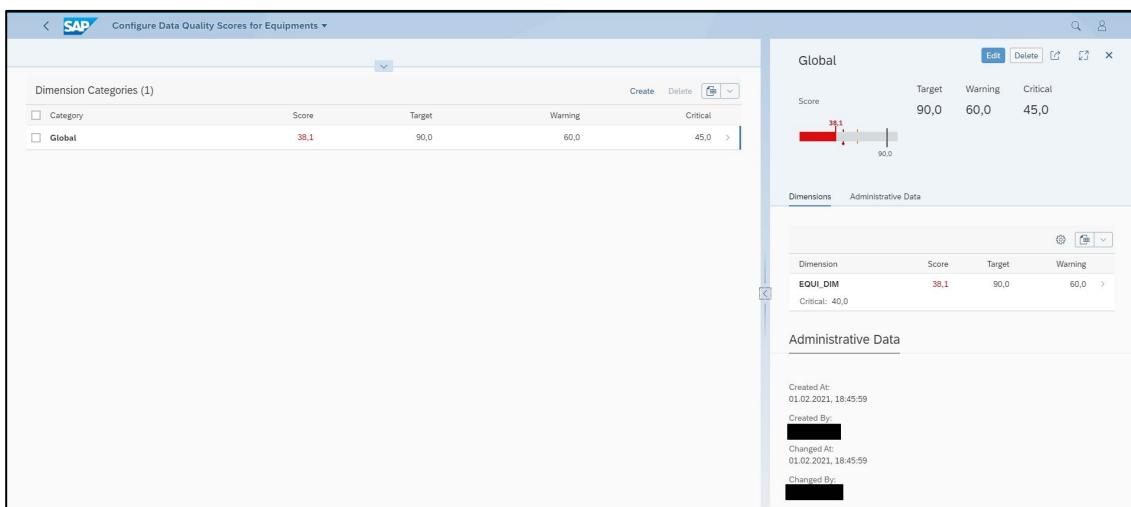
7. Once the Dimension configuration is saved, the Data Quality score for will be populated based on the rules assigned for the dimensions & Dimension category as well.



Dimension Category Score will be calculated as the average of all dimension scores created in it.

Note

In a Dimension Category, Multiple Dimensions can be created with different set of rules.



Evaluation Result

The evaluation result can be analyzed using attributes of product master data and data quality rules, so that you can manage your data quality initiatives and prioritize your efforts according to impact and business value.

You can use the following steps to analyze the evaluation results for Equipment which is result of Data Quality Evaluation. The Evaluation result is refreshed & updated with Latest result of Data Quality Evaluation each time you run a new process. Similar steps can be followed for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point respectively.

1. Run t-code “/UI2/FLP”. Launch Fiori application “Evaluation Results - Equipment”.



The tile Consist of recent date on which Data Quality Evaluation process ran & Number of errors (Not OK) records from the Evaluation Results.

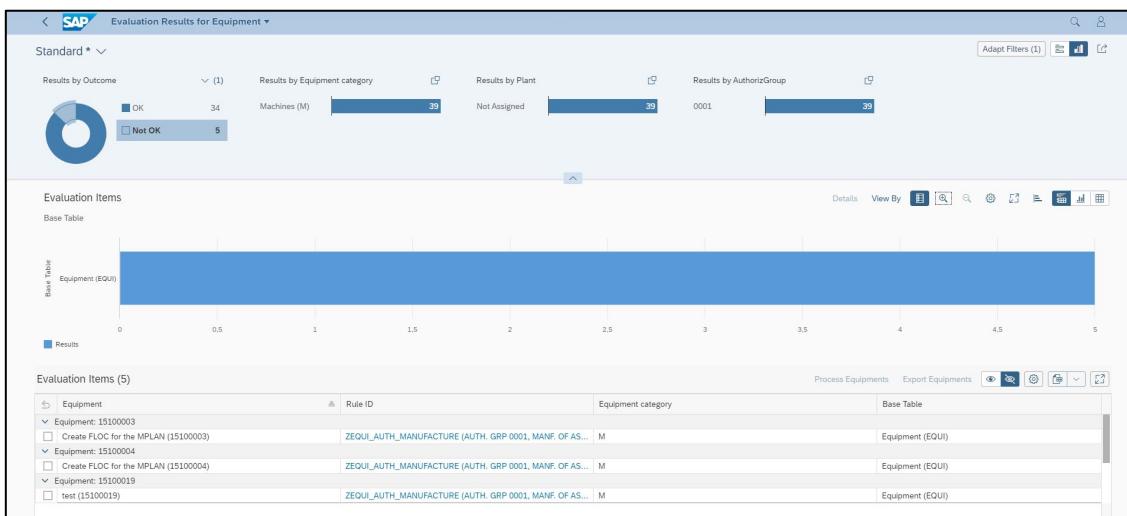
2. The Evaluation result can be analyzed from this application in details. The OK & Not OK record count & Result count by other attributes also populated as Bar Graph.



Note

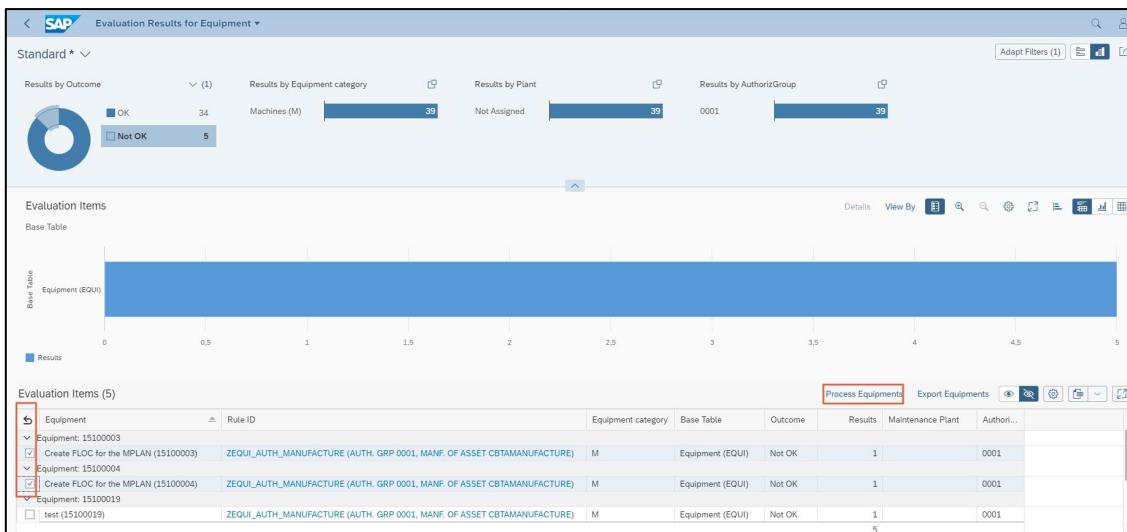
The filters with other attributes can be adapted as per requirement to shown in Bar chart.

3. In Evaluation Result application, the result details are shown as an analytical value. In evaluation items section the result is shown based on the base tables of Equipment object. Below you can see the record details of the OK & Not OK records along with the rules based on which the record is passed or failed.



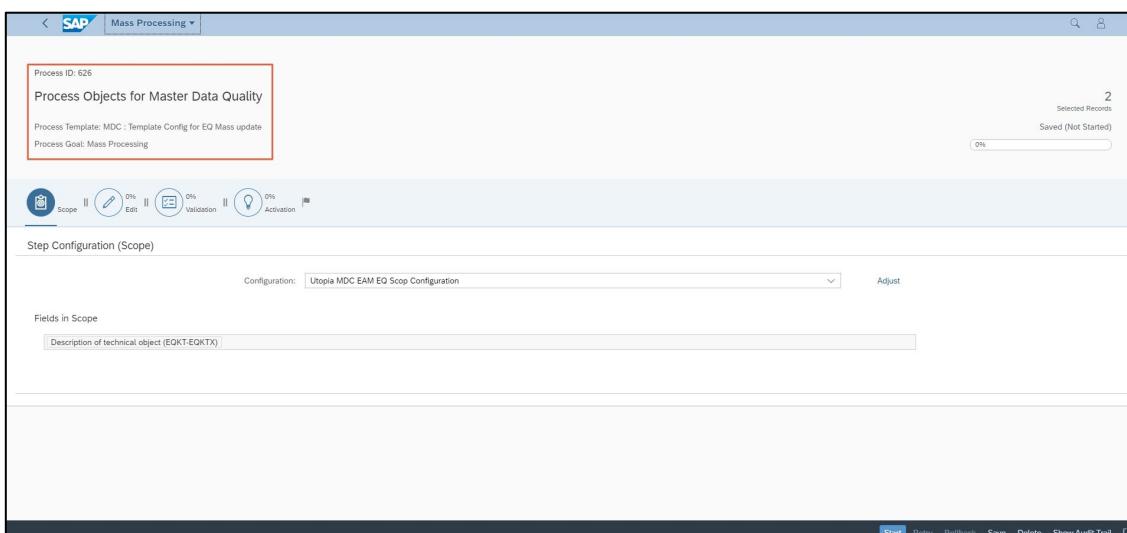
You can select the record from list view & do process for mass change or export on them.

Select the records individually & Click on the process Equipment button. It will Navigate to the Mass change process application (MDC).



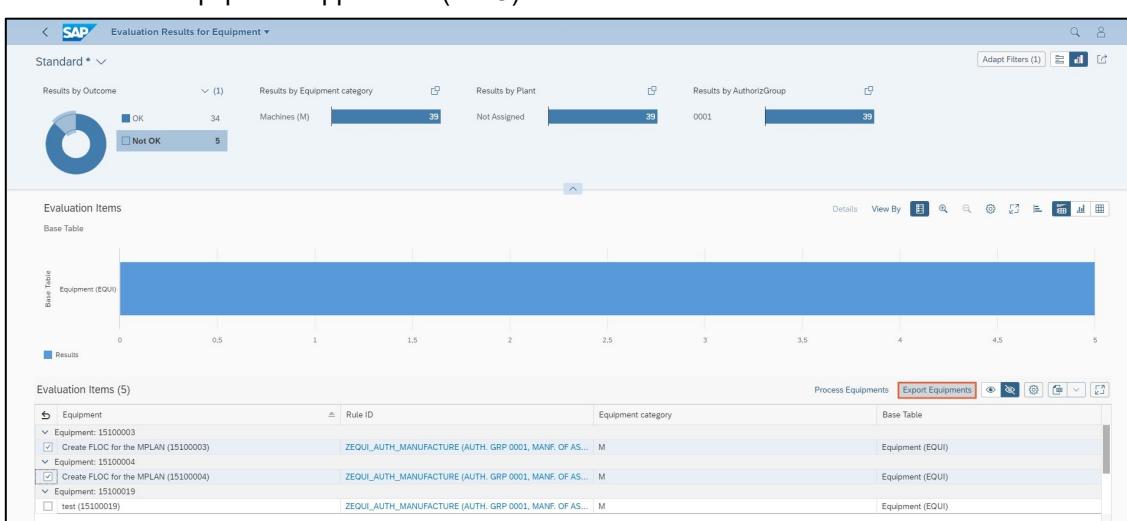
The screenshot shows the SAP Evaluation Results for Equipment interface. At the top, there are four summary charts: 'Results by Outcome' (OK: 34, Not OK: 5), 'Results by Equipment category' (Machines (M): 39), 'Results by Plant' (Not Assigned: 39), and 'Results by AuthorizGroup' (0001: 39). Below these are sections for 'Evaluation Items' and 'Evaluation Items (5)'. The 'Evaluation Items (5)' table lists five entries, with the 'Export Equipments' button highlighted in red.

Equipment	Rule ID	Equipment category	Base Table	Outcome	Results	Maintenance Plant	Authoriz...
Equipment: 15100003	ZEQUI_AUTH_MANUFACTURE (AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE)	M	Equipment (EQUI)	Not OK	1	0001	
Equipment: 15100004	ZEQUI_AUTH_MANUFACTURE (AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE)	M	Equipment (EQUI)	Not OK	1	0001	
Equipment: 15100004	ZEQUI_AUTH_MANUFACTURE (AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE)	M	Equipment (EQUI)	Not OK	1	0001	
Equipment: 15100019	ZEQUI_AUTH_MANUFACTURE (AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE)	M	Equipment (EQUI)	Not OK	1	0001	
test (15100019)	ZEQUI_AUTH_MANUFACTURE (AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE)	M	Equipment (EQUI)	Not OK	1	0001	

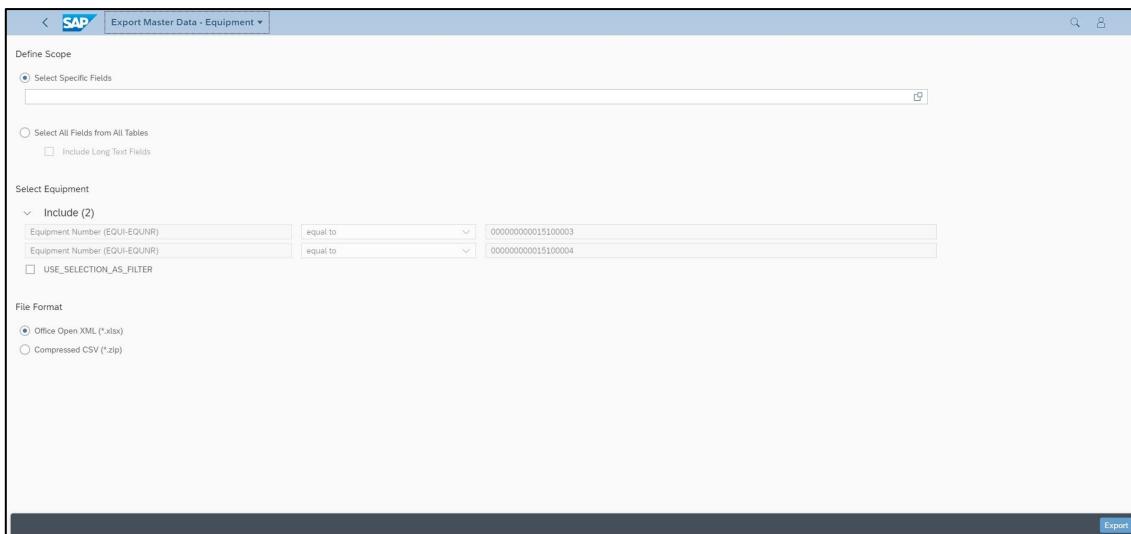


The screenshot shows the SAP Mass Processing interface for Master Data Quality. It displays a summary box with 'Process ID: 626', 'Process Objects for Master Data Quality', 'Process Template: MDC : Template Config for EQ Mass update', and 'Process Goal: Mass Processing'. Below this are sections for 'Step Configuration (Scope)', 'Fields in Scope', and a progress bar. At the bottom, there are buttons for 'Start', 'Retry', 'Rollback', 'Save', 'Delete', and 'Show Audit Trail'.

From here, you can follow the mass change processing steps & do activation.
 Select the records individually & Click on the export equipment button. It will Navigate to the Export Master Data - Equipment application (MDC).



This screenshot is identical to the one above it, showing the SAP Evaluation Results for Equipment interface. It displays the same summary charts, evaluation items, and detailed table of equipment records. The 'Export Equipments' button in the 'Evaluation Items (5)' table is also highlighted in red.



From here, you can follow the Export Master Data steps & export the record details into Local System.

Data Quality Evaluation Overview

Data quality information at a glance is provided in one single place, where you can see the current data quality score, its trend over time and the distribution of errors in your product master data along multiple dimensions. From this overview page you can drill-down to the actual evaluation result on the level of products and rules. The Evaluation Overview is refreshed & updated with Latest result of Data Quality Evaluation each time you run a new process.

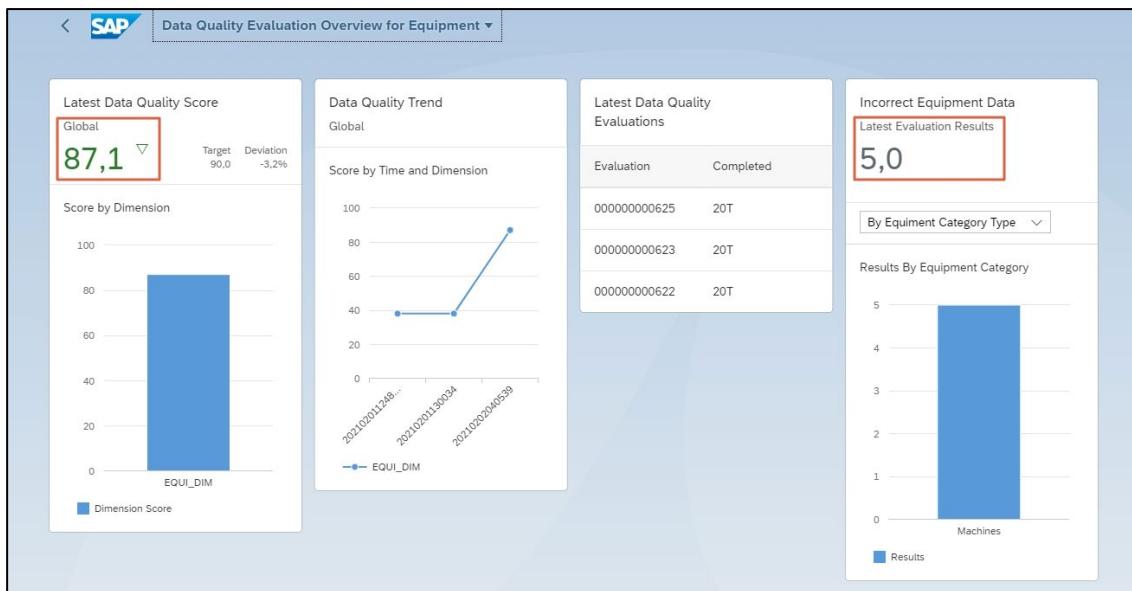
You can use the following steps to perform the Data Quality Evaluation Overview - Equipment. Similar steps can be followed for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point respectively.

1. Run t-code “/UI2/FLP”. Launch the Fiori application “Data Quality Evaluation Overview - Equipment” button as shown in the following screen.

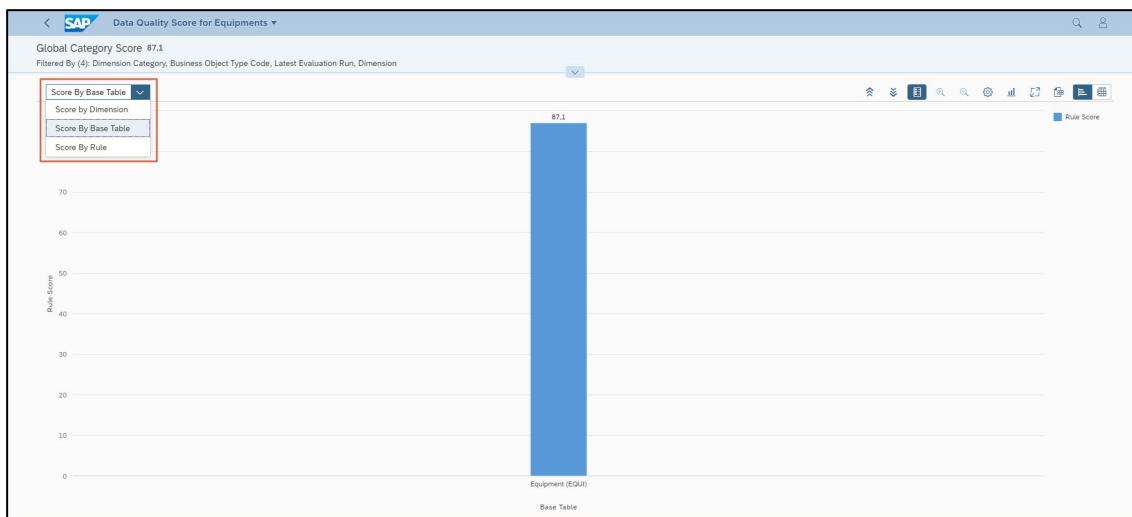


The tile Consist of recent date on which Data Quality Evaluation process ran & Data Quality Score from the recent Evaluation Results. You can see the analytical overview details of Evaluation result.

2. In Latest Data Quality Score Card, we can see the Quality Score calculated from the Global Dimension Category created earlier & deviation as well.



3. In Incorrect Equipment Data Card, we can see the Latest evaluation result's Not OK count with different filter option as shown above.
4. if you Click on the Latest Data Quality Score Card, It will navigate to a page where we can see the score with other available filter options.



Export Data Quality Rules

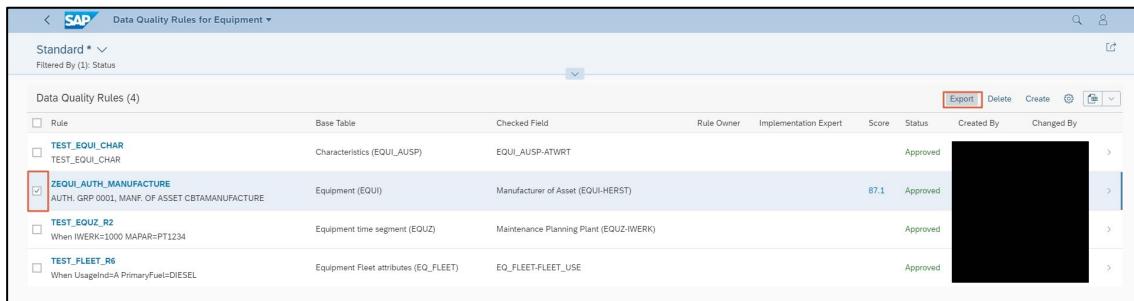
You can export the Data Quality rules individually from the current business system. We can import those exported rules in different Business systems instead of creating them manually or using Mining Rule process.

You can follow the below steps to export the Data Quality rules.

1. Run t-code "/UI2/FLP". Launch the Fiori application "Data Quality Rules - Equipment" button as shown in the following screen.



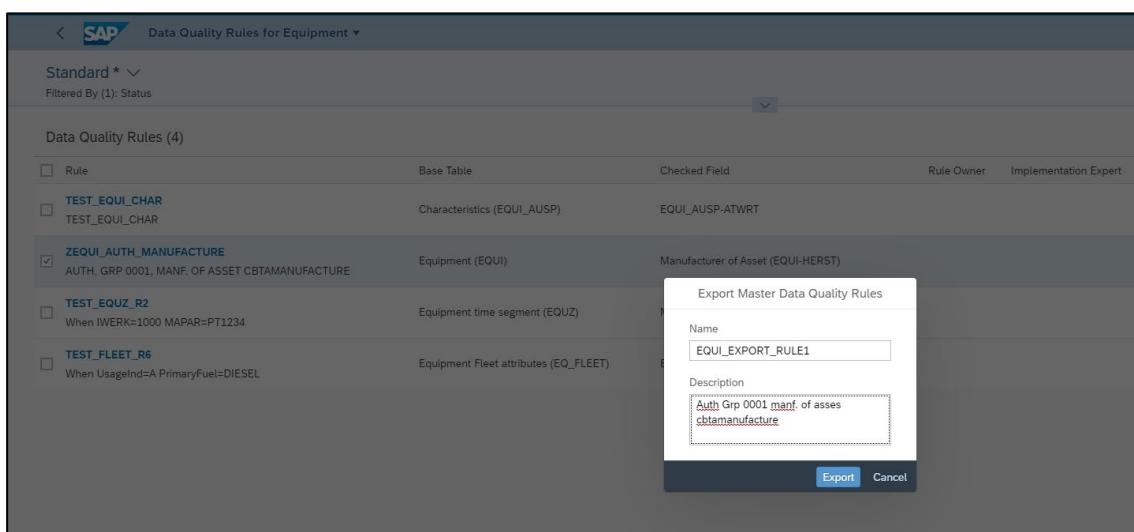
- Select the Data Quality Rule you want to export & Click on "Export" button.



Data Quality Rules (4)

Rule	Base Table	Checked Field	Rule Owner	Implementation Expert	Score	Status	Created By	Changed By
TEST_EQUI_CHAR TEST_EQUI_CHAR	Characteristics (EQUI_AUSP)	EQUI_AUSP-ATWRT				Approved		
<input checked="" type="checkbox"/> ZEOUI_AUTH_MANUFACTURE AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE	Equipment (EQUI)	Manufacturer of Asset (EQUI-HERST)			87,1	Approved		
TEST_EQUZ_R2 When IWERK=1000 MAPAR=PT1234	Equipment time segment (EQUZ)	Maintenance Planning Plant (EQUZ-IWERK)			Approved			
TEST_FLEET_R6 When UsageInd=A PrimaryFuel=DIESEL	Equipment Fleet attributes (EQ_FLEET)	EQ_FLEET-FLEET_USE			Approved			

- Provide the name to export the rule with description.



Data Quality Rules (4)

Rule	Base Table	Checked Field	Rule Owner	Implementation Expert
TEST_EQUI_CHAR TEST_EQUI_CHAR	Characteristics (EQUI_AUSP)	EQUI_AUSP-ATWRT		
<input checked="" type="checkbox"/> ZEOUI_AUTH_MANUFACTURE AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE	Equipment (EQUI)	Manufacturer of Asset (EQUI-HERST)		
TEST_EQUZ_R2 When IWERK=1000 MAPAR=PT1234	Equipment time segment (EQUZ)	Maintenance Planning Plant (EQUZ-IWERK)		
TEST_FLEET_R6 When UsageInd=A PrimaryFuel=DIESEL	Equipment Fleet attributes (EQ_FLEET)	EQ_FLEET-FLEET_USE		

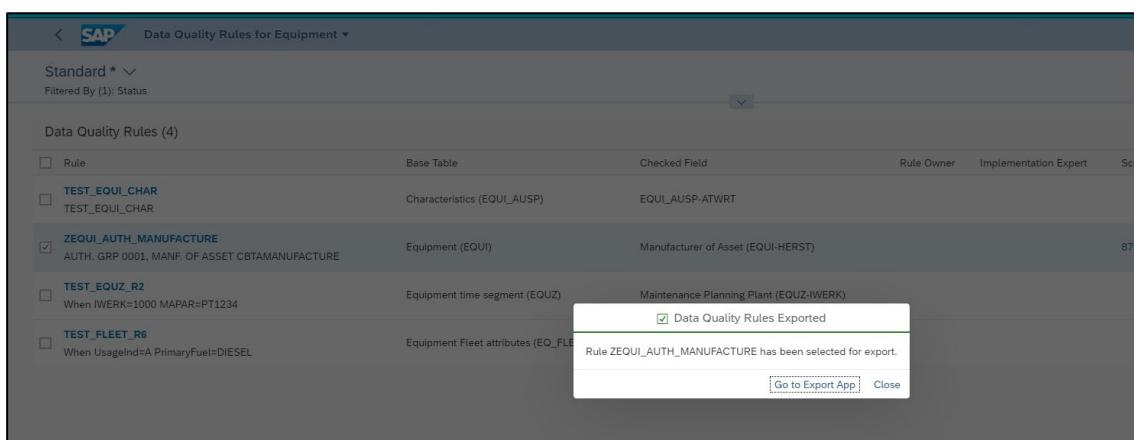
Export Master Data Quality Rules

Name: EQUI_EXPORT_RULE1

Description: Auth Grp 0001 manf. of asses cbtamanufacture

Export Cancel

- Once the rule will be exported, click on " Go to Export App" to navigate to Export Master data Quality Rules.



Data Quality Rules (4)

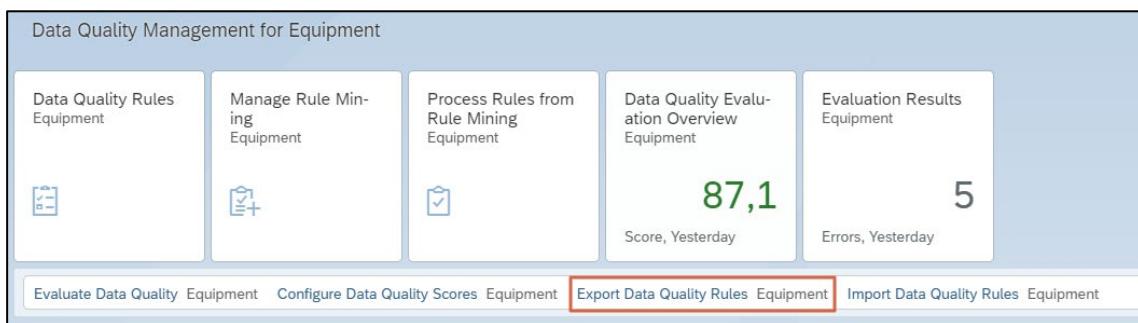
Rule	Base Table	Checked Field	Rule Owner	Implementation Expert	Score
TEST_EQUI_CHAR TEST_EQUI_CHAR	Characteristics (EQUI_AUSP)	EQUI_AUSP-ATWRT			
<input checked="" type="checkbox"/> ZEOUI_AUTH_MANUFACTURE AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE	Equipment (EQUI)	Manufacturer of Asset (EQUI-HERST)			87,1
TEST_EQUZ_R2 When IWERK=1000 MAPAR=PT1234	Equipment time segment (EQUZ)	Maintenance Planning Plant (EQUZ-IWERK)			
TEST_FLEET_R6 When UsageInd=A PrimaryFuel=DIESEL	Equipment Fleet attributes (EQ_FLEET)	EQ_FLEET-FLEET_USE			

Data Quality Rules Exported

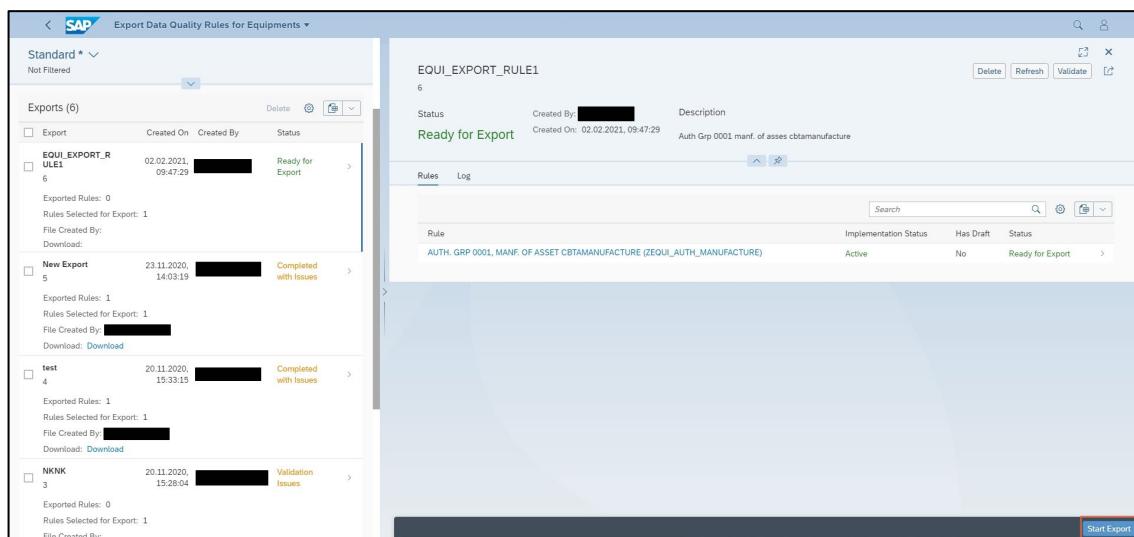
Rule ZEOUI_AUTH_MANUFACTURE has been selected for export.

Go to Export App Close

5. You can also launch the Fiori application “Export Data Quality Rules - Equipment” button as shown in the following screen.



6. In the Export Master Data Application Page, you can see the rule is ready for export which we select in Data Quality rule application to export. Click on the "Start Export" button to start exporting the rule.

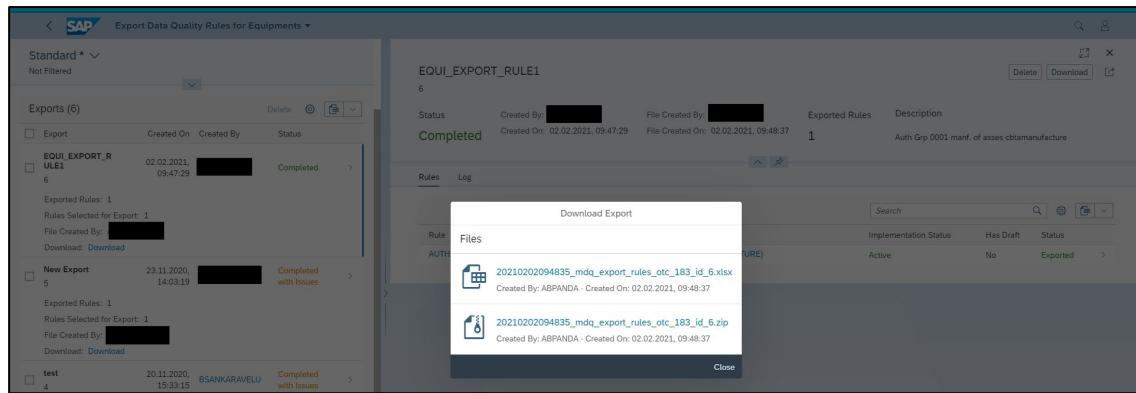


7. Click on "Refresh" button to update the status.

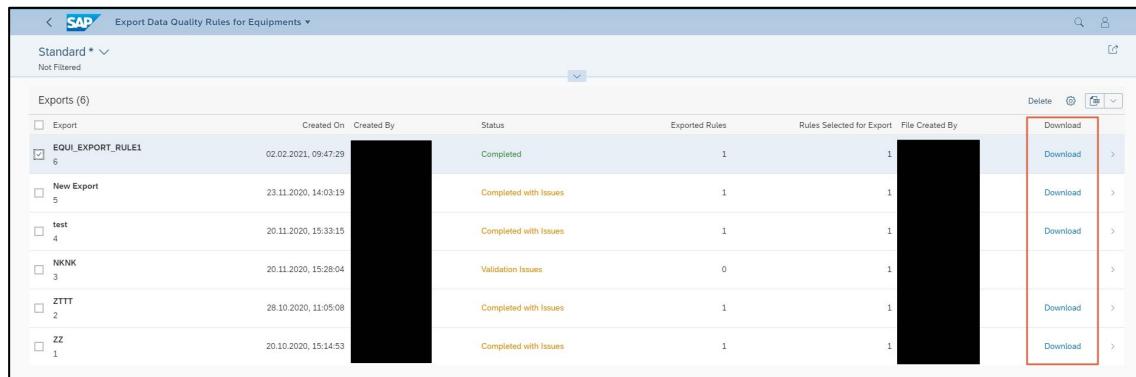
Status	Created By	File Created On	File Created By	Exported Rules	Description
Export in Process	[REDACTED]	02.02.2021, 09:47:29	[REDACTED]	1	Auth Grp 0001 manf. of asses cbtamanufacture
Completed	[REDACTED]	02.02.2021, 09:47:29	[REDACTED]	1	Auth Grp 0001 manf. of asses cbtamanufacture

8. Click on the "Download" button to download the data quality exported file.

9. Click on the file names to download them in local system.



10. You can download the exported rules later if needed from the Export Master data Application page.



Import Data Quality Rules

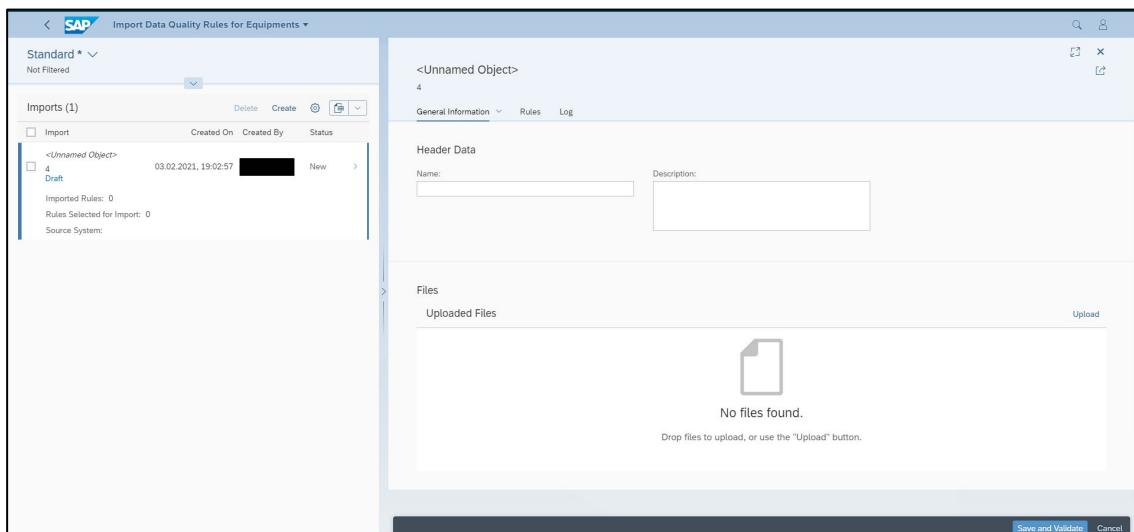
Take an export of master data quality rule from any other business logical systems. Use the .xls & .zip file while Import Data Quality rule. You can import the exported rule files in this business system instead of creating them manually or using Mining Rule process.

The following steps are to Import Master data quality rules for Equipment. Similar steps can be followed for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point, respectively.

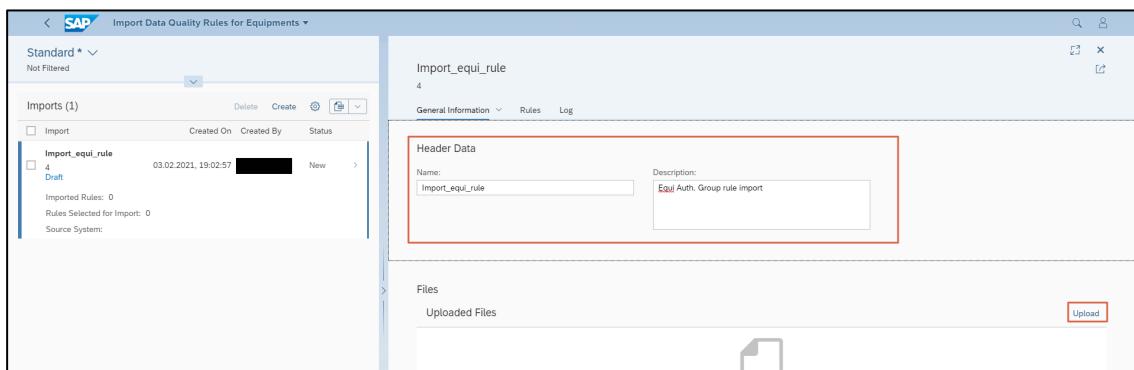
- Run t-code "/UI2/FLP". Launch the Fiori application "Import Data Quality Rules - Equipment" button as shown in the following screen.



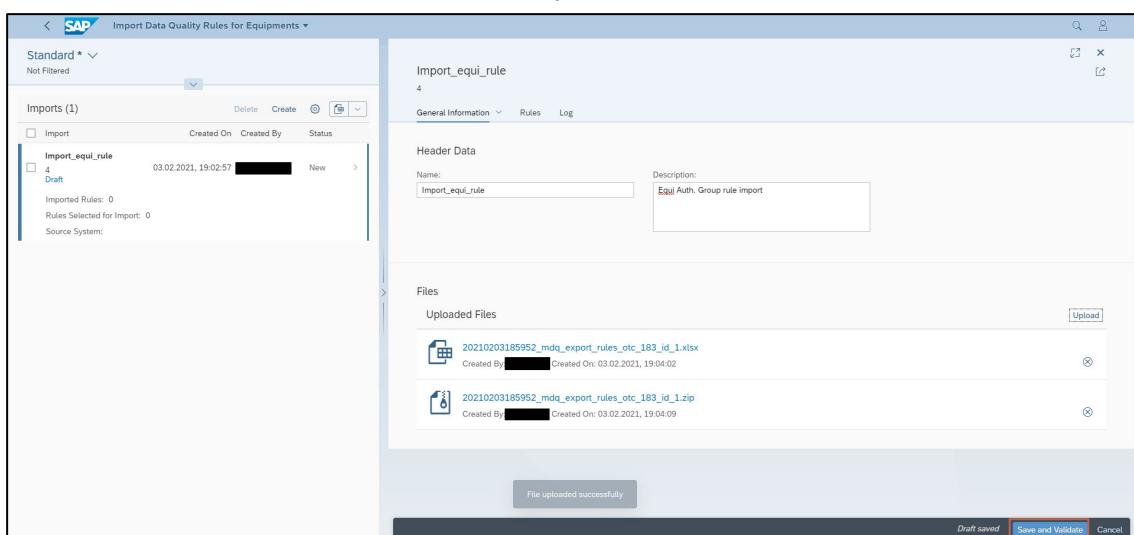
- Click on "Create" button to Import data quality rules.



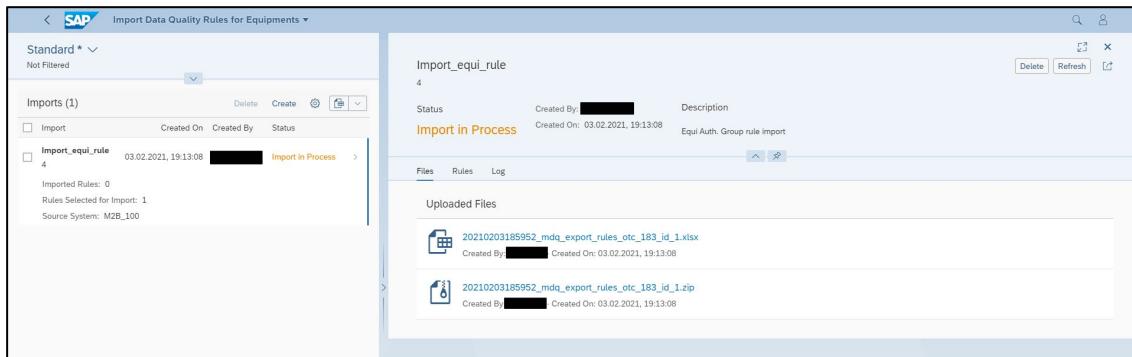
- Provide the Name & Description for Importing the rule. Click on "Upload" button to browse the Exported .xls & .zip file.



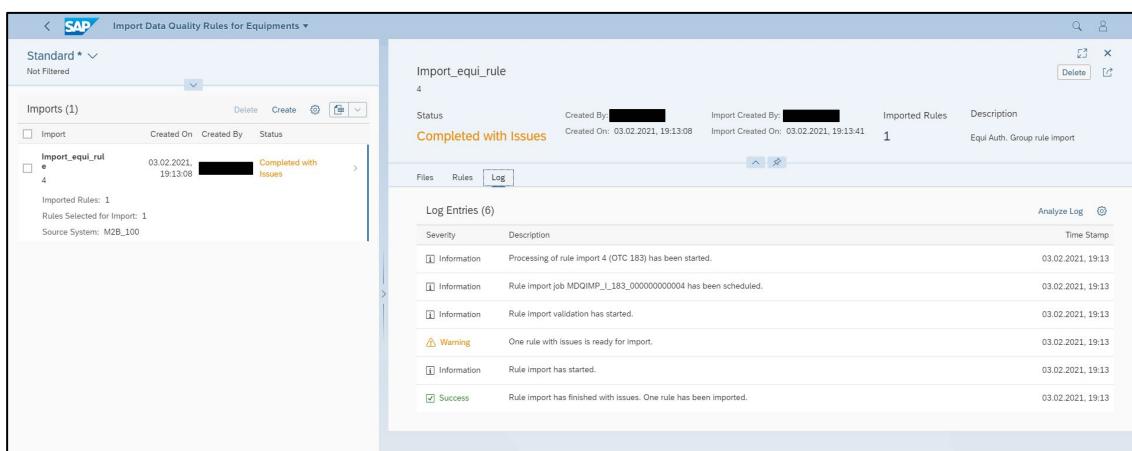
- Click on "Save & Validate" button to save the uploaded file.



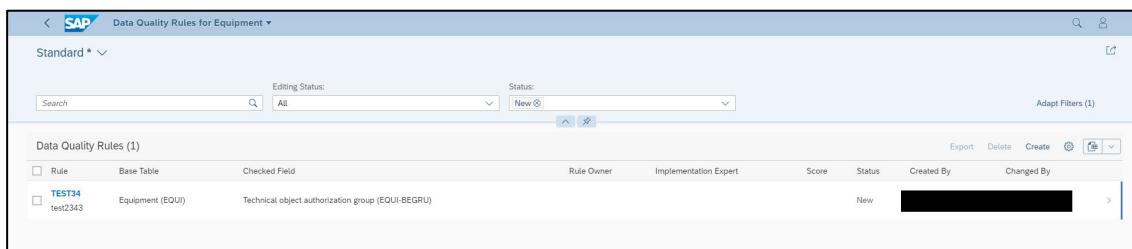
5. Click on Import button to start importing the rules from uploaded files.



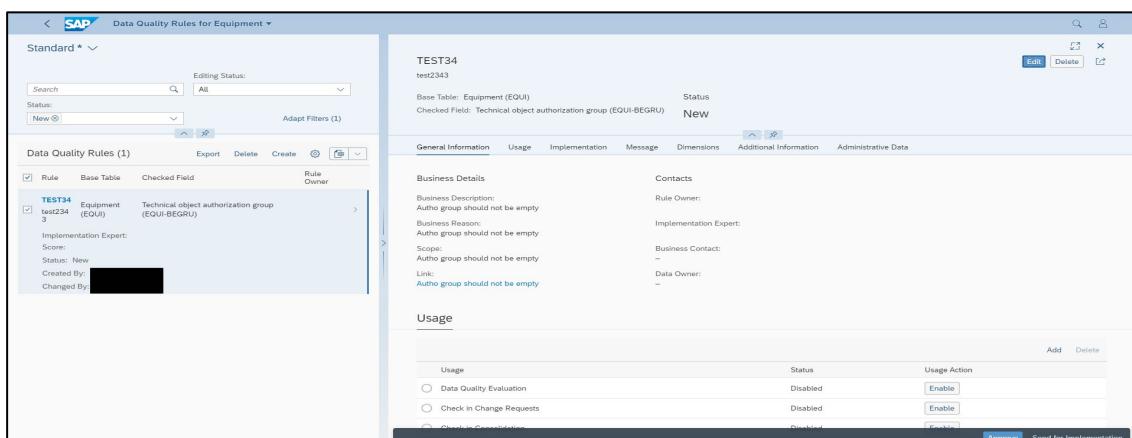
6. Click on "Refresh" button to update the import status.



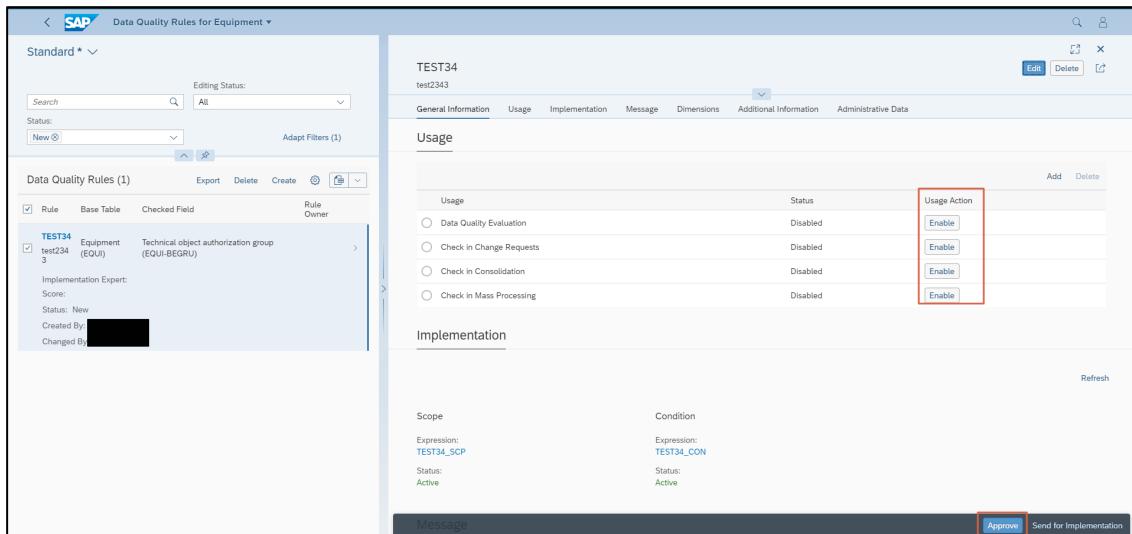
7. Launch the Fiori application “Data Quality Rules - Equipment” to check the rule is imported successfully with Status "New".



8. Open the Imported rule & You can see all the required information are already filled.

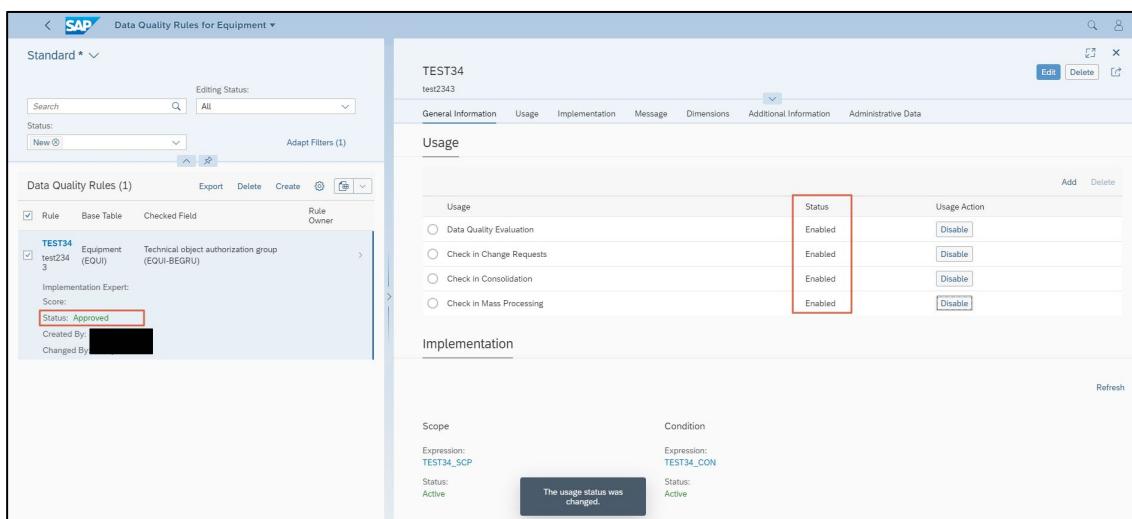


9. Click on the "Approve" button to approve the rule & Then enable the usages as required.



The screenshot shows the SAP Data Quality Rules for Equipment interface. On the left, the 'Standard' view displays a list of Data Quality Rules, one of which is selected: 'TEST34' (test234 (EQUI)). On the right, the detailed view for 'TEST34' shows the 'Usage' tab. Under 'Usage', there are four entries: 'Data Quality Evaluation', 'Check in Change Requests', 'Check in Consolidation', and 'Check in Mass Processing'. Each entry has a 'Status' column showing 'Disabled' and a 'Usage Action' column with an 'Enable' button. A red box highlights the 'Enable' buttons for all four usages. At the bottom right of the usage section, there is a 'Message' area with a message: 'The usage status was changed.' Below the usage section is a 'Implementation' section with scope and condition details. At the very bottom right is a 'Message' area with a message: 'The usage status was changed.' At the bottom right of the screen is a 'Message' area with a message: 'The usage status was changed.'

10. Finally, the Imported rule is Approved & Usages are enabled to use.



The screenshot shows the SAP Data Quality Rules for Equipment interface. On the left, the 'Standard' view displays a list of Data Quality Rules, one of which is selected: 'TEST34' (test234 (EQUI)). The 'Status' field in the list is highlighted with a red box and contains the text 'Approved'. On the right, the detailed view for 'TEST34' shows the 'Usage' tab. Under 'Usage', the same four usages are listed, but their 'Status' column now shows 'Enabled' (also highlighted with a red box) and their 'Usage Action' column shows 'Disable' (also highlighted with a red box). A red box highlights the 'Enabled' status for all four usages. At the bottom right of the usage section, there is a 'Message' area with a message: 'The usage status was changed.' Below the usage section is a 'Implementation' section with scope and condition details. At the very bottom right is a 'Message' area with a message: 'The usage status was changed.'

Appendix A

Data Quality Check Usage details

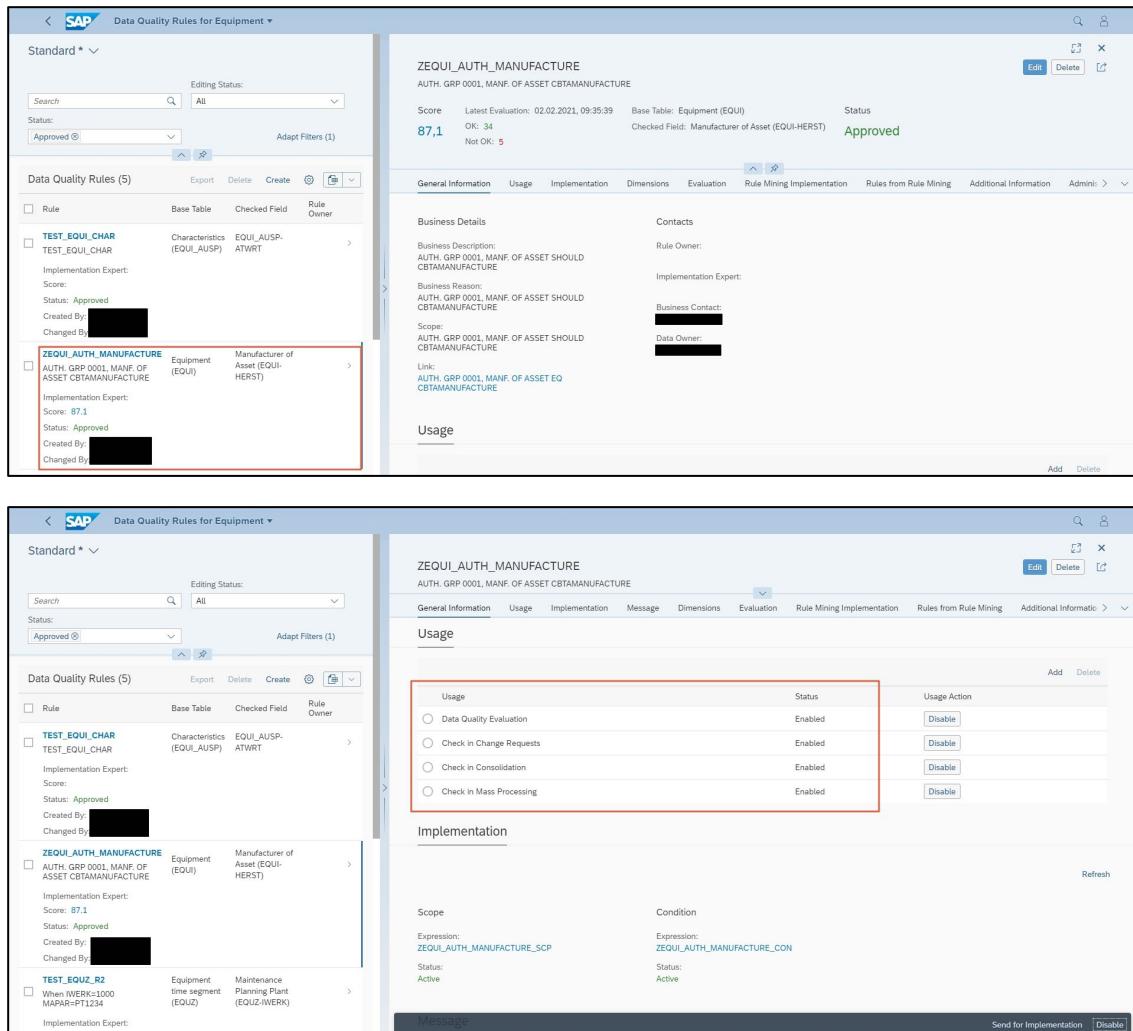
Data Quality Rule can be used for below mentioned Usages where Validation can be done on the processed records.

- I. Data Quality Evaluation: - The rule will be applied to data Quality Evaluation process to do quality check against the active records.
- II. Check in Change Request: - The rule will be validated in Change request page for respective object during Create or Change type.
- III. Check in Consolidation: - The rule will be used to validate during the validation step of Consolidation process (Mass create).
- IV. Check in Mass Processing: - The rule will be used to validate during the validation step of Mass processing (Mass change).

Note

Data Quality Rule Usages are described below for Equipment Rule we created earlier. Similarly the Usage are applicable for Functional Location, Material BOM, Equipment BOM, Functional Location BOM, Maintenance Plan & Measuring Point respectively.

Rule - If Authorization Group = 0001, Then Manufacture of asset = CBTAMANUFACTURE



The screenshot displays two pages from the SAP Data Quality Rules for Equipment interface. Both pages show a rule named 'ZQUI_AUTH_MANUFACTURE'.

Top Page:

- General Information:** AUTH.GRP.0001, MANF. OF ASSET CBTAMANUFACTURE
- Score:** 87.1 (Latest Evaluation: 02.02.2021, 09:35:39)
- Status:** Approved
- Business Details:** Business Description: AUTH.GRP.0001, MANF. OF ASSET SHOULD CBTAMANUFACTURE; Business Reason: AUTH.GRP.0001, MANF. OF ASSET SHOULD CBTAMANUFACTURE; Scope: AUTH.GRP.0001, MANF. OF ASSET SHOULD CBTAMANUFACTURE; Link: AUTH.GRP.0001, MANF. OF ASSET EQ CBTAMANUFACTURE
- Contacts:** Rule Owner: [REDACTED]; Implementation Expert: [REDACTED]; Business Contact: [REDACTED]; Data Owner: [REDACTED]

Bottom Page:

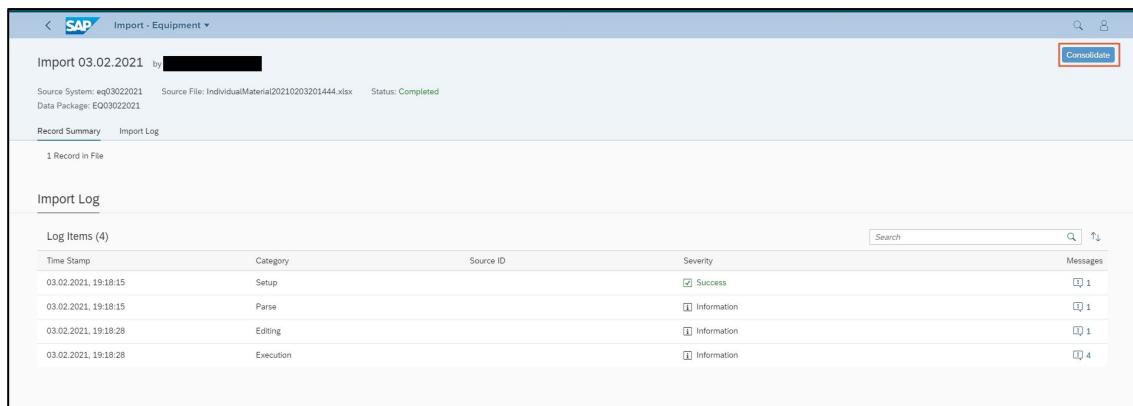
- General Information:** AUTH.GRP.0001, MANF. OF ASSET CBTAMANUFACTURE
- Usage:**
 - Usage Action:** Data Quality Evaluation, Check in Change Requests, Check in Consolidation, Check in Mass Processing (all Enabled)
- Implementation:**
 - Scope:** Expression: ZQUI_AUTH_MANUFACTURE_SCP, Status: Active
 - Condition:** Expression: ZQUI_AUTH_MANUFACTURE_CON, Status: Active

Data Quality Rule Usage: Data Quality Evaluation

Please refer **Evaluate Data Quality** section for the steps to be followed.

Data Quality Rule Usage: Check in Consolidation

1. The above-mentioned rule will be used in Validation Step during the Manage Consolidation Process of Equipment (MDC).
2. For Example, Prepare a template file with Authorization group = 0001 & Manufacture of asset = CBTAMANUFACTURE123. You must Import the Equipment Template file using - "Import Master Data" application & then, create a consolidation process as shown below for the imported file.



Import Log

Time Stamp	Category	Source ID	Severity	Messages
03.02.2021, 19:18:15	Setup		<input checked="" type="checkbox"/> Success	1
03.02.2021, 19:18:15	Parse		<input type="checkbox"/> Information	1
03.02.2021, 19:18:28	Editing		<input type="checkbox"/> Information	1
03.02.2021, 19:18:28	Execution		<input type="checkbox"/> Information	4



Description: MDC : Load Data-Testing with STD(EQ)

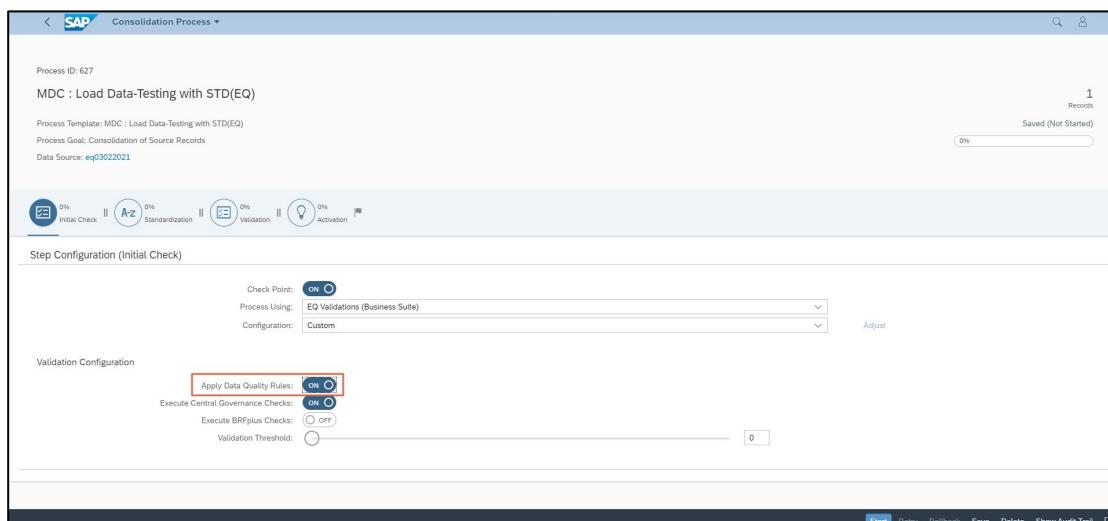
Process Goal: Consolidation of Source Records

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

Data Sources*: eq03022021 (EQ03022021)

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

In Initial Check Configuration, make sure the Apply Data Quality Rules is enabled. Click on the "Start" button to start the consolidation process.



Step Configuration (Initial Check)

Check Point: ON

Process Using: EQ Validations (Business Suite)

Configuration: Custom

Validation Configuration

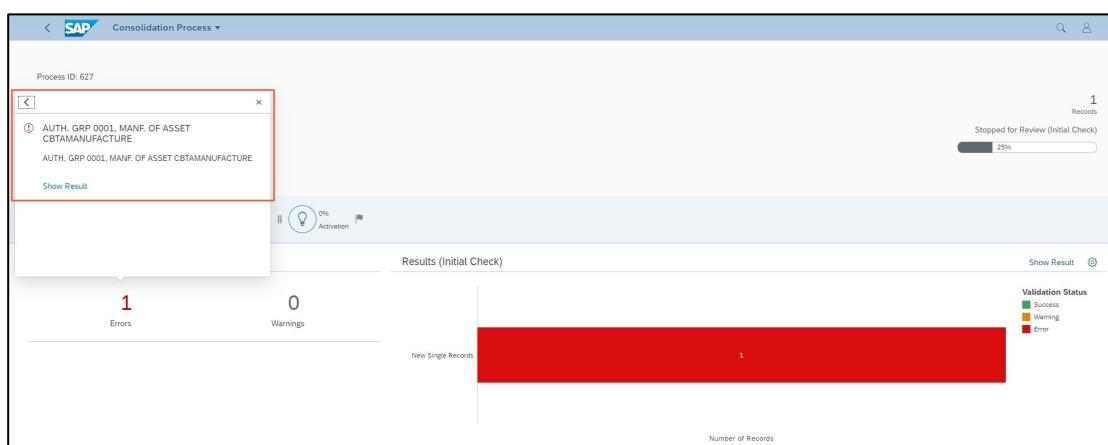
Apply Data Quality Rules: ON

Execute Central Governance Checks: ON

Execute BRFplus Checks: OFF

Validation Threshold: 0

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



Results (Initial Check)

1 Errors
0 Warnings

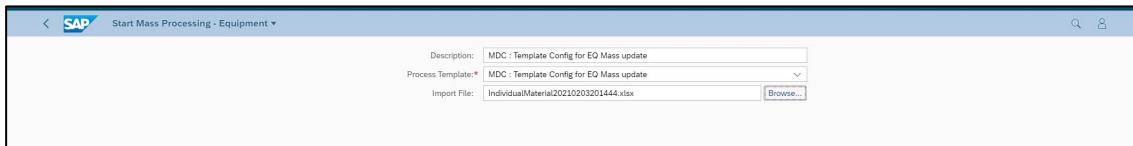
Validation Status: Success (Green), Warning (Orange), Error (Red)

Number of Records: 1

As shown on the above snap, the Data Quality rule we created as mentioned above is triggered during Consolidation process.

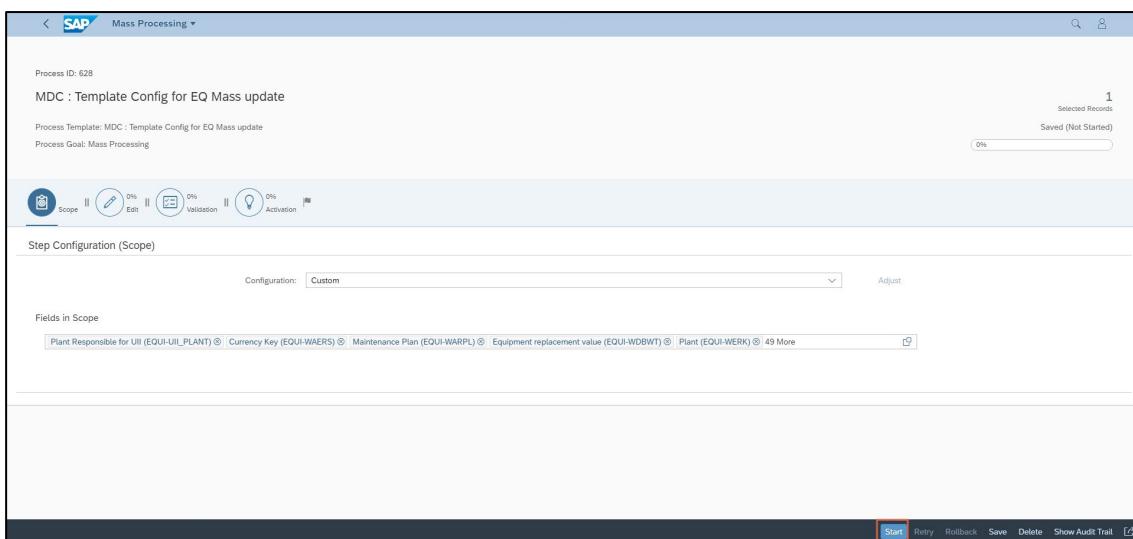
Data Quality Rule Usage: Check in Mass Process

1. The above-mentioned rule will be used in Validation Step during the Manage Mass Processing of Equipment (MDC).
2. For Example, Prepare a template file with Authorization group = 0001 & Manufacture of asset = CBTAMANUFACTURE123. You must use the same file for Mass process by browsing local system & Click on Save button to start the process.



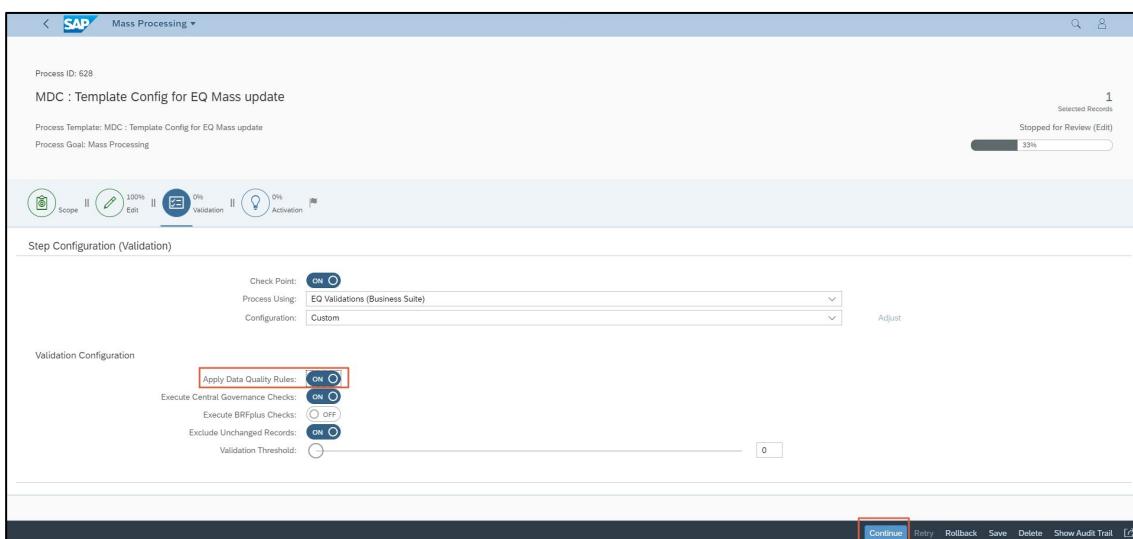
The screenshot shows the SAP Start Mass Processing - Equipment interface. It includes fields for Description (MDC : Template Config for EQ Mass update), Process Template (MDC : Template Config for EQ Mass update), and Import File (IndividualMaterial20210203201444.xlsx). A 'Browse...' button is also visible.

3. Click on Start button to start the process & Continue till Edit Step is Completed.



The screenshot shows the SAP Mass Processing screen for Process ID 628. It displays the 'Scope' step configuration. The 'Fields in Scope' section lists various plant-related fields. The 'Start' button is highlighted at the bottom of the screen.

4. In Validation Configuration, make sure the Apply Data Quality Rules is enabled. Click on the "Continue" button to start validation step.



The screenshot shows the SAP Mass Processing screen for Process ID 628. It displays the 'Validation' step configuration. Under 'Validation Configuration', the 'Apply Data Quality Rules' checkbox is checked. The 'Continue' button is highlighted at the bottom of the screen.



As shown on the above snap, the Data Quality rule we created as mentioned above is triggered during Consolidation process.

Data Quality Rule Usage: Check in Change Request

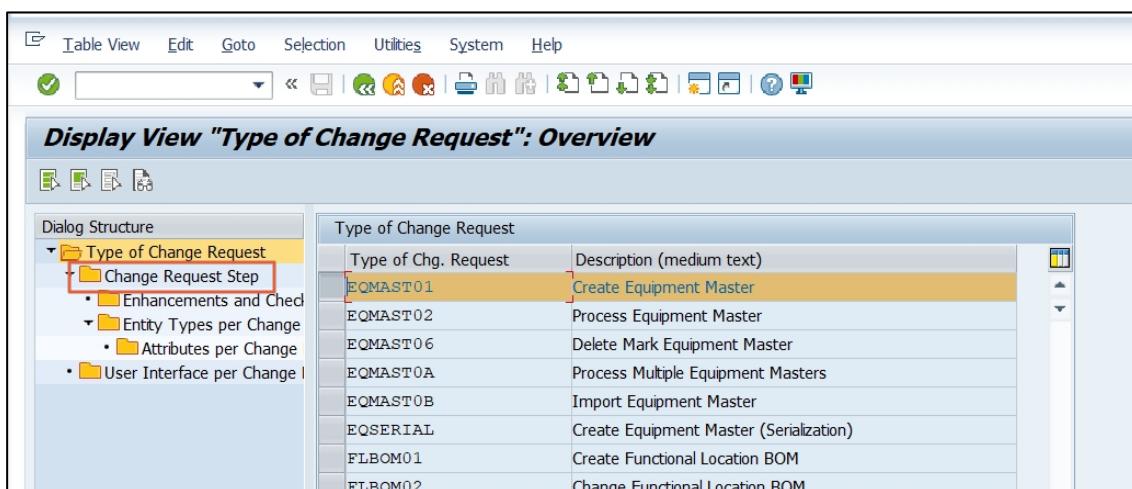
The above-mentioned rule will be used in Validation Step during the Manage Mass Processing of Equipment (MDC).

Prerequisites

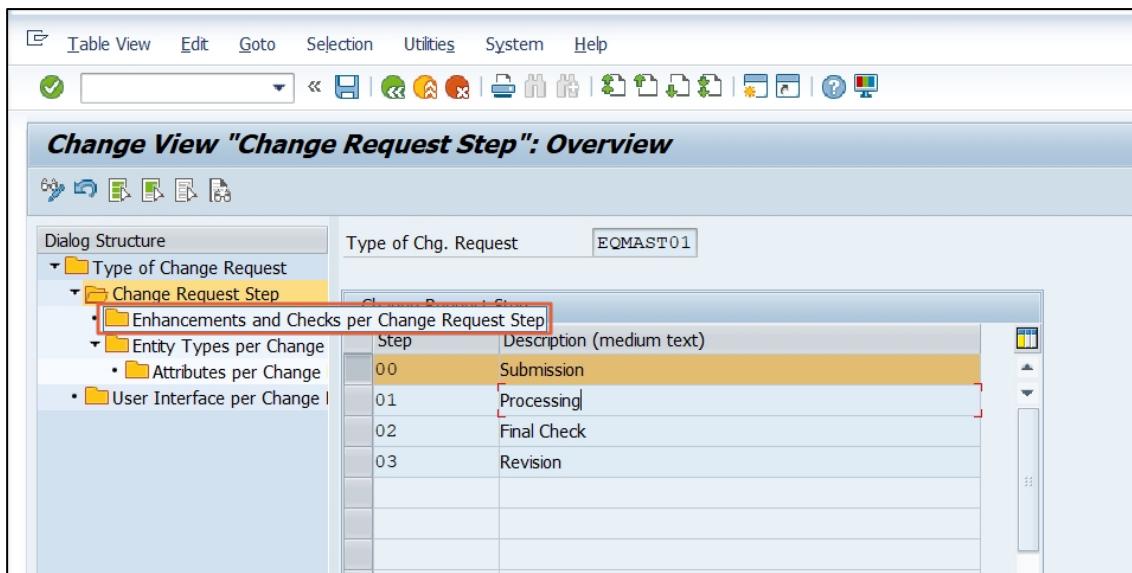
For the Data Quality Check, in Change request need to enable the Validation Check functionality in the below path.

Run T Code MDGIMG -> General Setting -> Process Modelling -> Change Requests -> Configure properties of Change request step.

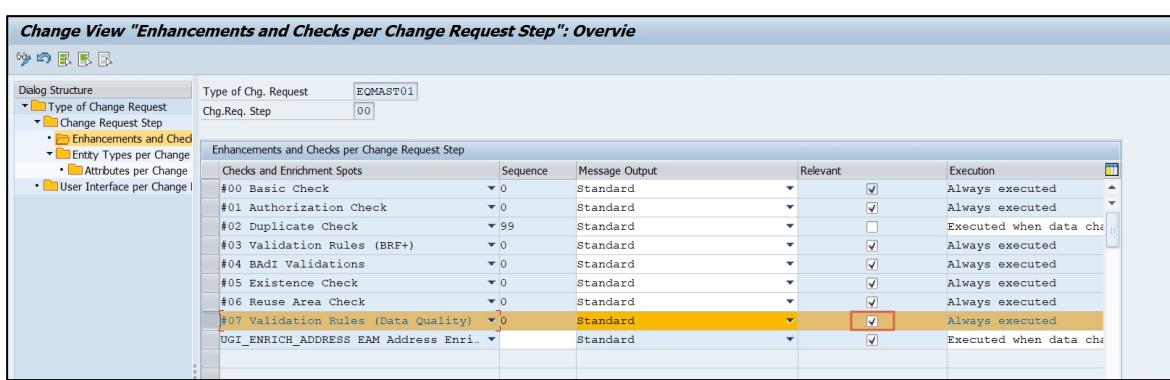
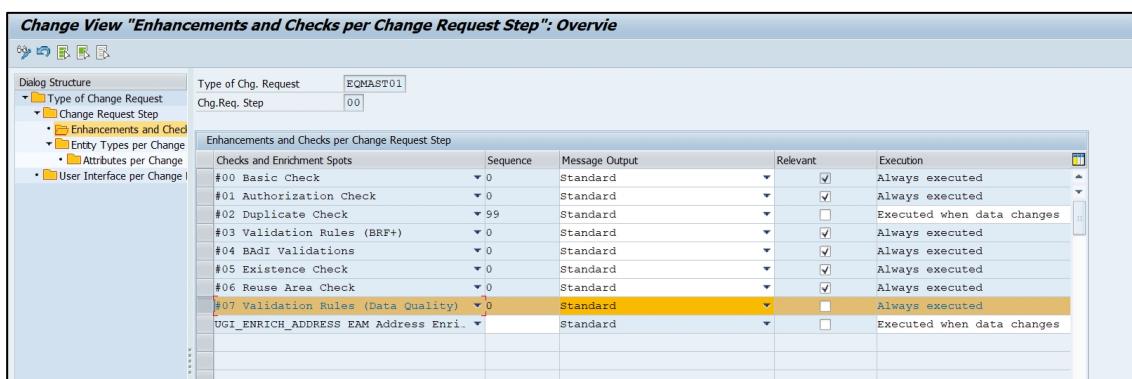
1. Select the Change request type for which you want to enable the validation check. Click on "Change request Step" from Side Panel.



2. Select Submission or Processing step, click on "Enhancements and Checks per Change Request Step" from Side Panel.



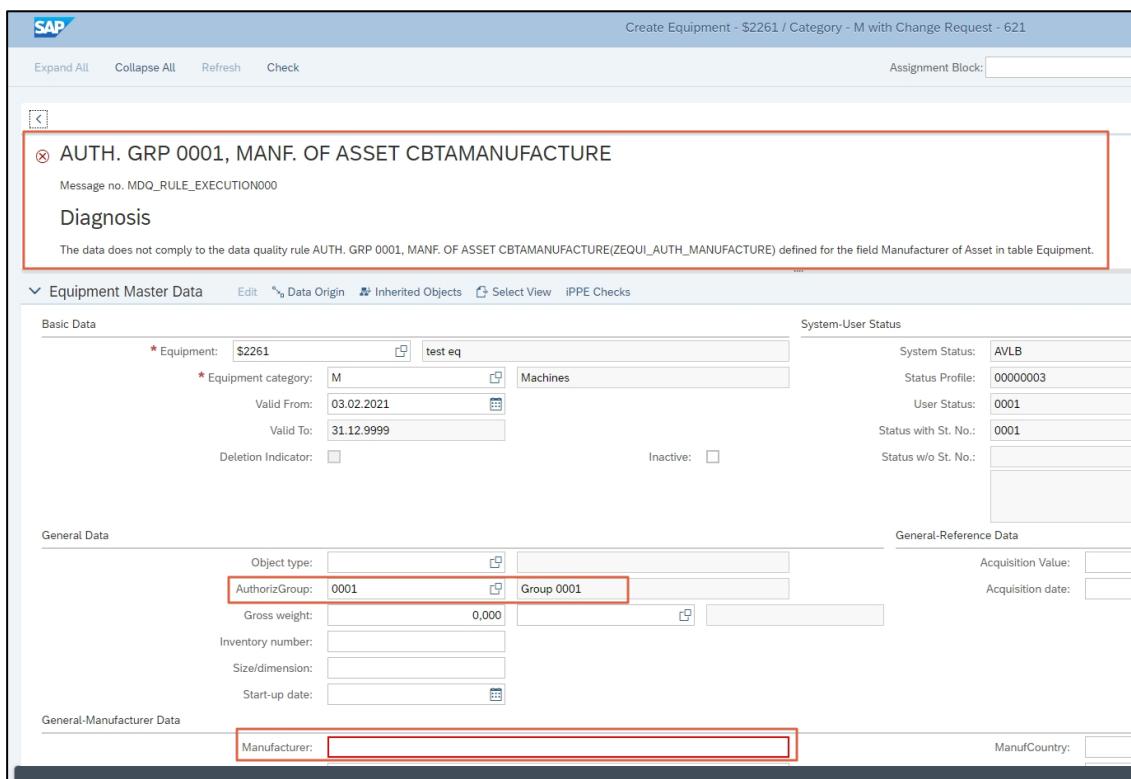
3. Enable the Validation rules (Data Quality) check & Save the Configuration.



Change Request Validation

- Create an Equipment Change request & fill the Authorization group as "0001" in general Data section and Manufacturer field as Blank in General Manufacture data section.

2. Do Validation Check on the change request. You can see the MDQ rule check is triggered in the Change request Page as shown below.



The screenshot shows the SAP Create Equipment interface. At the top, there's a navigation bar with 'Expand All', 'Collapse All', 'Refresh', and 'Check' buttons. The title is 'Create Equipment - \$2261 / Category - M with Change Request - 621'. Below the title, there's a 'Assignment Block:' input field. A red box highlights an error message in a 'Diagnosis' section:

AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE
 Message no. MDO_RULE_EXECUTION000
Diagnosis
 The data does not comply to the data quality rule AUTH. GRP 0001, MANF. OF ASSET CBTAMANUFACTURE(ZEQUI_AUTH_MANUFACTURE) defined for the field Manufacturer of Asset in table Equipment.

The main form contains several sections:

- Equipment Master Data** section:

* Equipment: <input type="text" value="S2261"/>	<input type="button" value="test eq"/>
* Equipment category: <input type="text" value="M"/>	<input type="button" value="Machines"/>
Valid From: <input type="text" value="03.02.2021"/>	<input type="button" value=""/>
Valid To: <input type="text" value="31.12.9999"/>	
Deletion Indicator: <input type="checkbox"/>	Inactive: <input type="checkbox"/>
- System-User Status** section:

System Status: <input type="text" value="AVLB"/>
Status Profile: <input type="text" value="00000003"/>
User Status: <input type="text" value="0001"/>
Status with St. No.: <input type="text" value="0001"/>
Status w/o St. No.: <input type="text"/>
- General Data** section:

Object type: <input type="text"/>	<input type="button" value=""/>
AuthorizGroup: <input type="text" value="0001"/>	<input type="button" value="Group 0001"/>
Gross weight: <input type="text" value="0,000"/>	<input type="button" value=""/>
Inventory number: <input type="text"/>	
Size/dimension: <input type="text"/>	
Start-up date: <input type="text"/>	<input type="button" value=""/>
- General-Reference Data** section:

Acquisition Value: <input type="text"/>
Acquisition date: <input type="text"/>
- General-Manufacturer Data** section:

Manufacturer: <input type="text"/>	ManufCountry: <input type="text"/>
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