How-To Guide: Configure Rule-Based workflow (BRF+) for Serial Approval by SAP Asset Information Workbench (AIW) by Prometheus Group

Applies to

SAP Asset Information Workbench (AIW 1909) by Prometheus Group

Summary

This How-To guide shows the steps to Create New Mixed Multi-Object Change Request (MOCR) type in AIW and configure the BRF+ workflow (Serial Approval).

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Company: Prometheus Group.

Created On: August 27, 2019

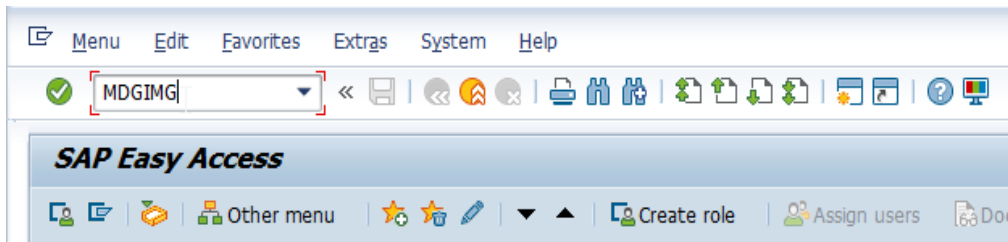**Version**: 1.0

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Introduction

This document demonstrates how to create new custom MOCR "ZAWEAM0S" as a copy of standard MOCR "AIWEAM0S" and configure BRF+ rule-based workflow for newly created MOCR.
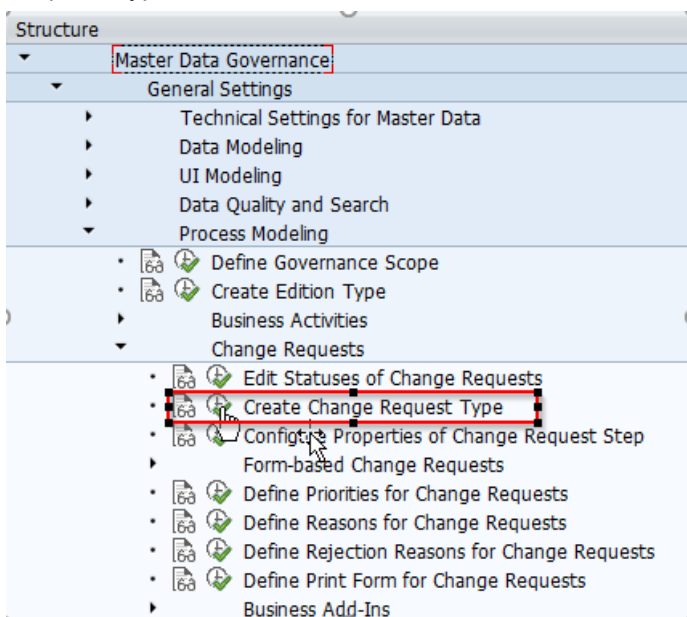
Steps to Create New MOCR

Use the following steps to create a new MOCR:

1. Execute transaction "MDGIMG" to customize AIW.

2. Execute "Create Change Request Type" by accessing the menu path for Master Data Governance > General Settings > Process Modeling > Change Requests > Create Change Request Type.
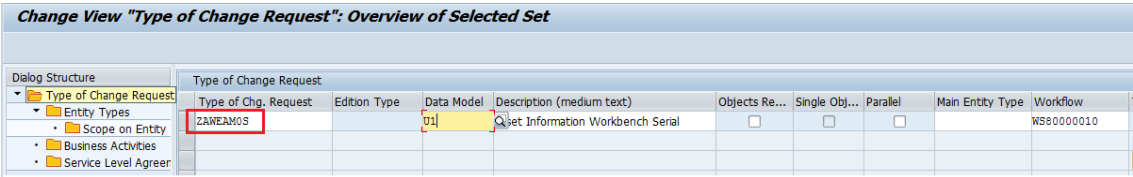

3. Select the AIW delivered Change Request type "AIWEAM0S".
4. Click "Copy" to create new MOCR.

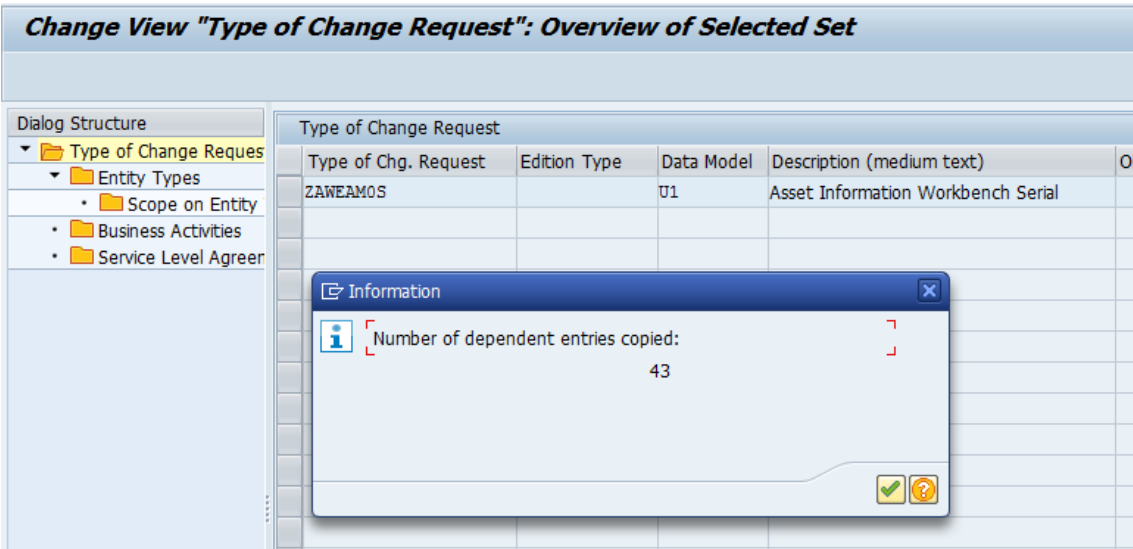5. Enter "ZAWEAM0S" as the type of new Change Request and click Enter.

A pop-up window is displayed.

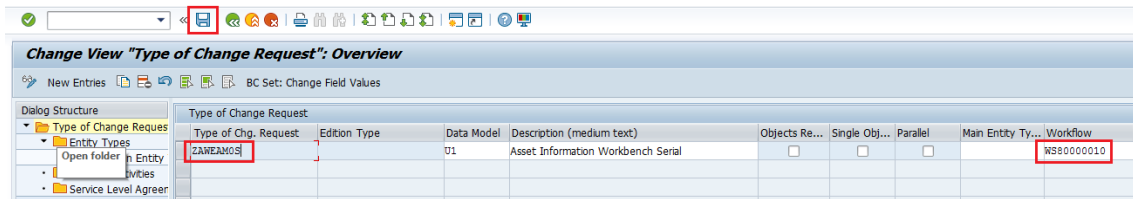6. Select "copy all" in the pop-up window.
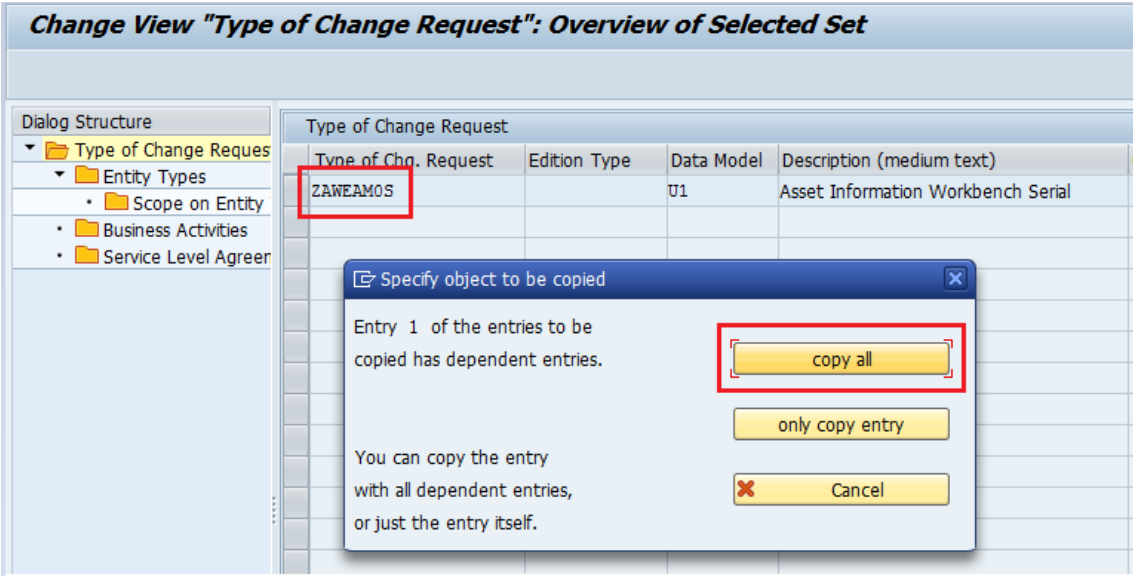
The following screen is displayed where the number of copied dependent entries are displayed.
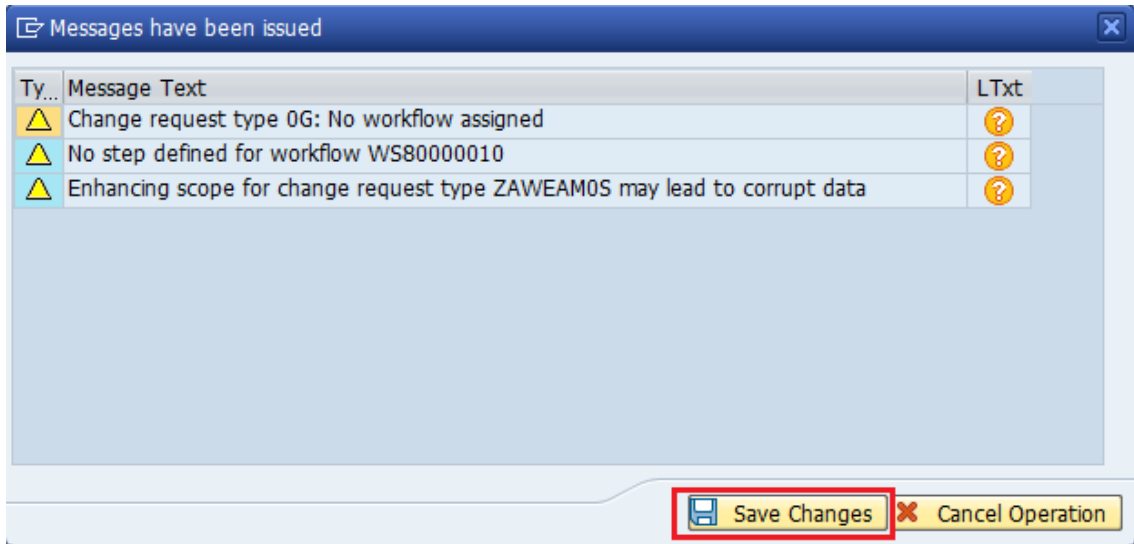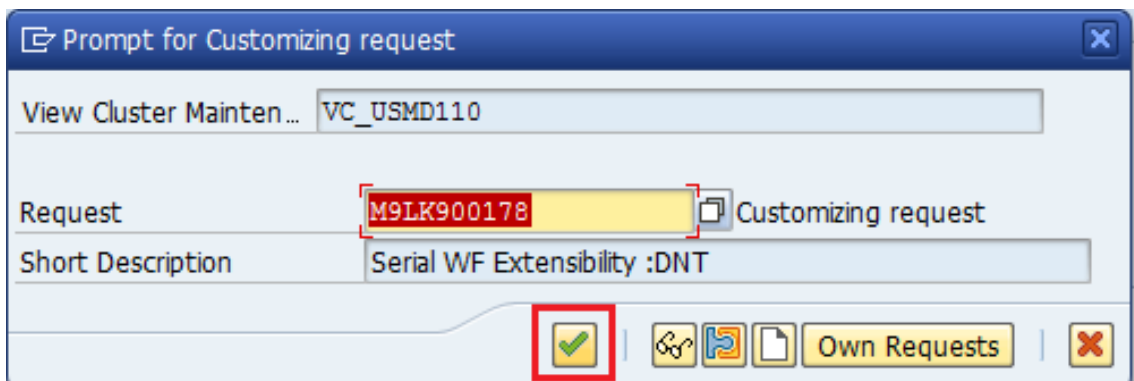

7. Select ✅ to continue.

8. Save the new Change Request.

The following screen displays the issued messages.

9. Click Save Changes to save the Change Request.


10. Enter the Customizing request and click OK.

ℹ Note

Workflow template WS80000010 is assigned to the newly created Change Request type which is designed to work only with Business Rule Framework (BRF+) and handles Serial approval of technical objects within MOCR.
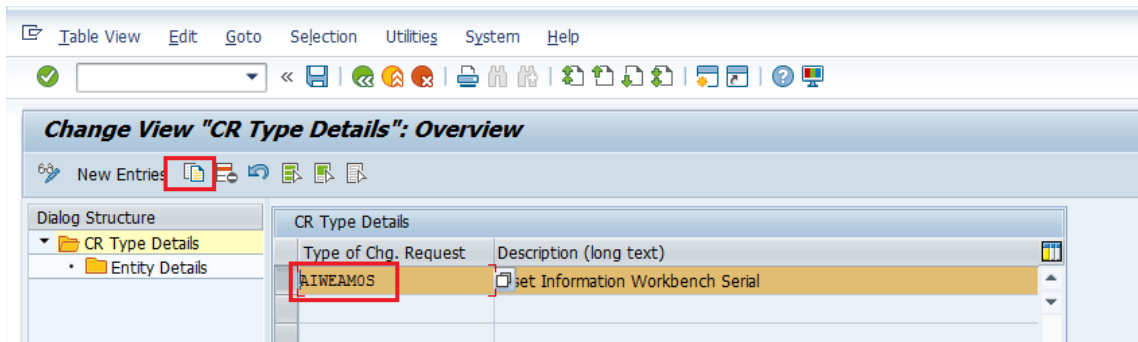
Define Sequence for Work Item Approval

Use the following steps to define the sequence for work item approval:
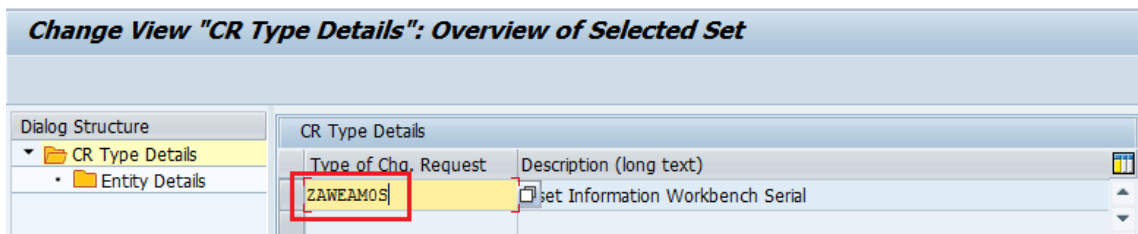
1. Go to transaction MDGIMG > Asset Information Workbench > Serial Workflow Work Item Sequence.
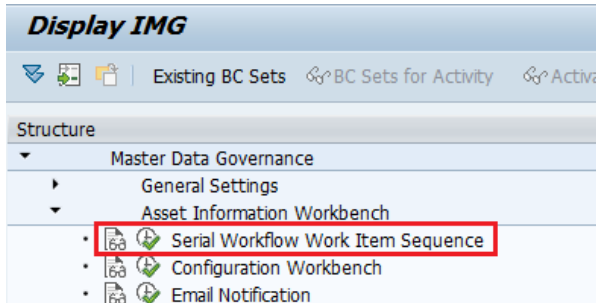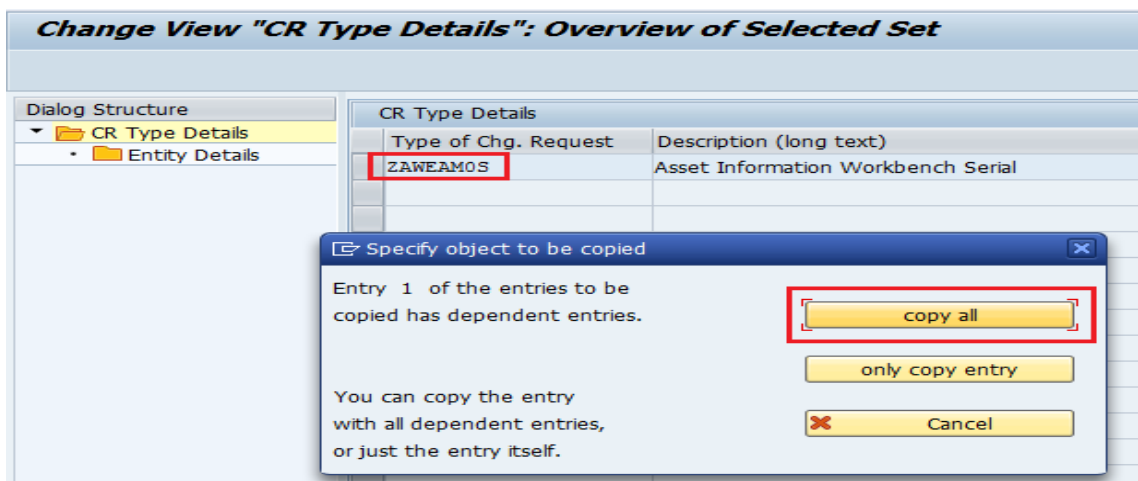
2. Select CR type "AIWEAM0S" and click "Copy".

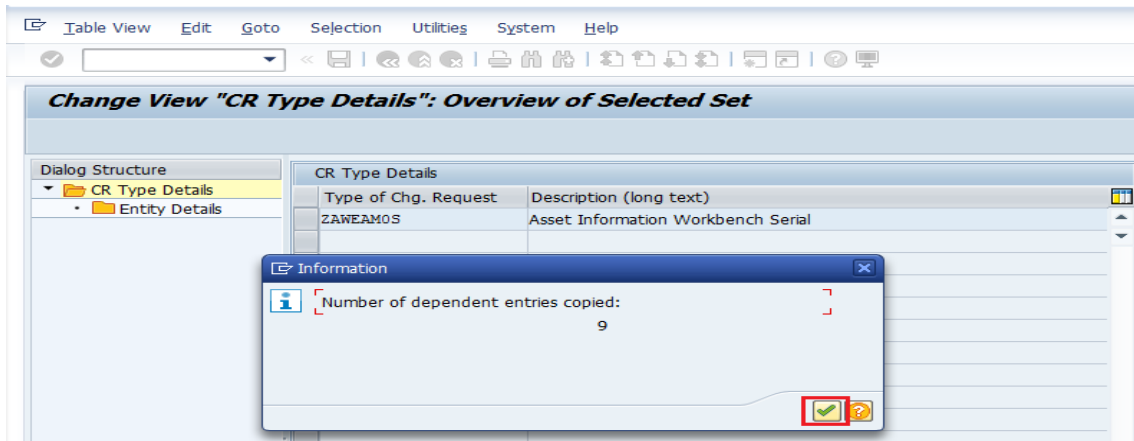3. Enter created Custom CR type "ZEAMST0S" as the "Type of Chg. Request".
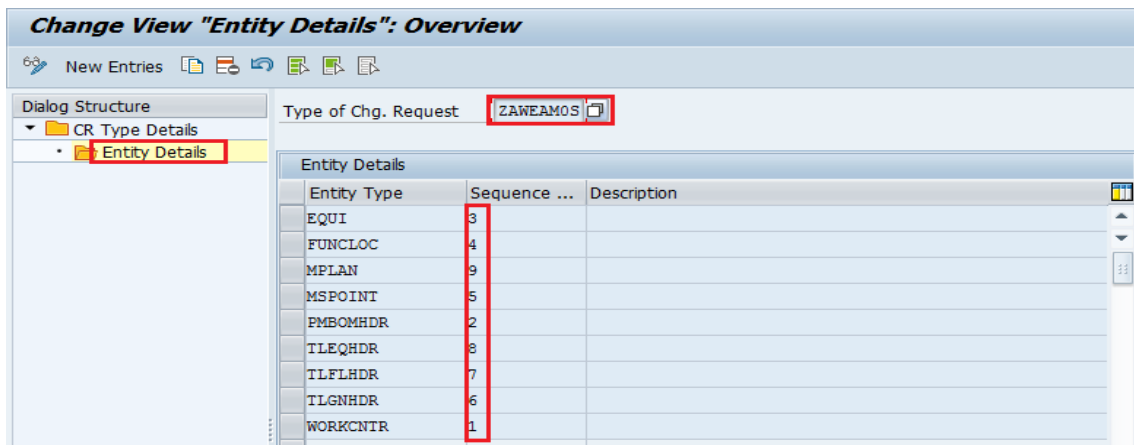
4. Select "copy all" in the pop-up window.

The number of dependent entries copied is displayed.
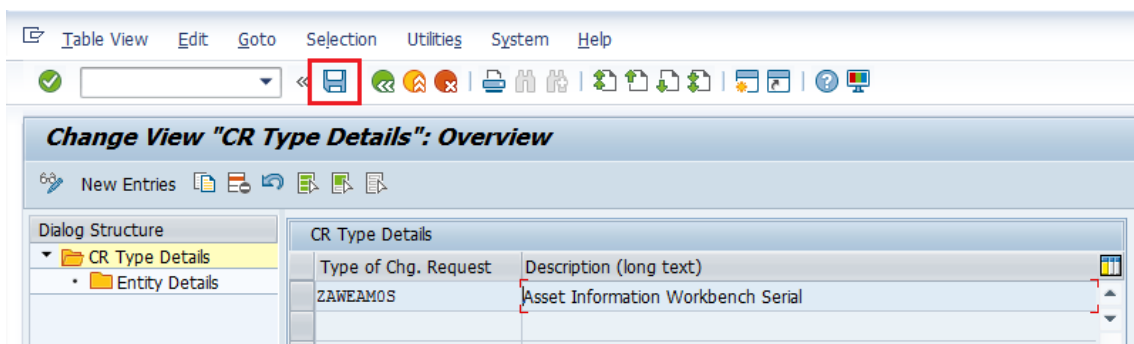
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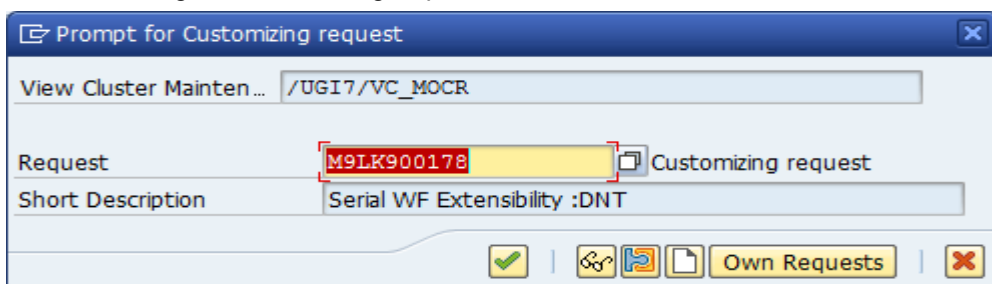
5. Click OK.

The sequence is copied and is displayed under "Entity Details". You can also change the sequence in this screen.
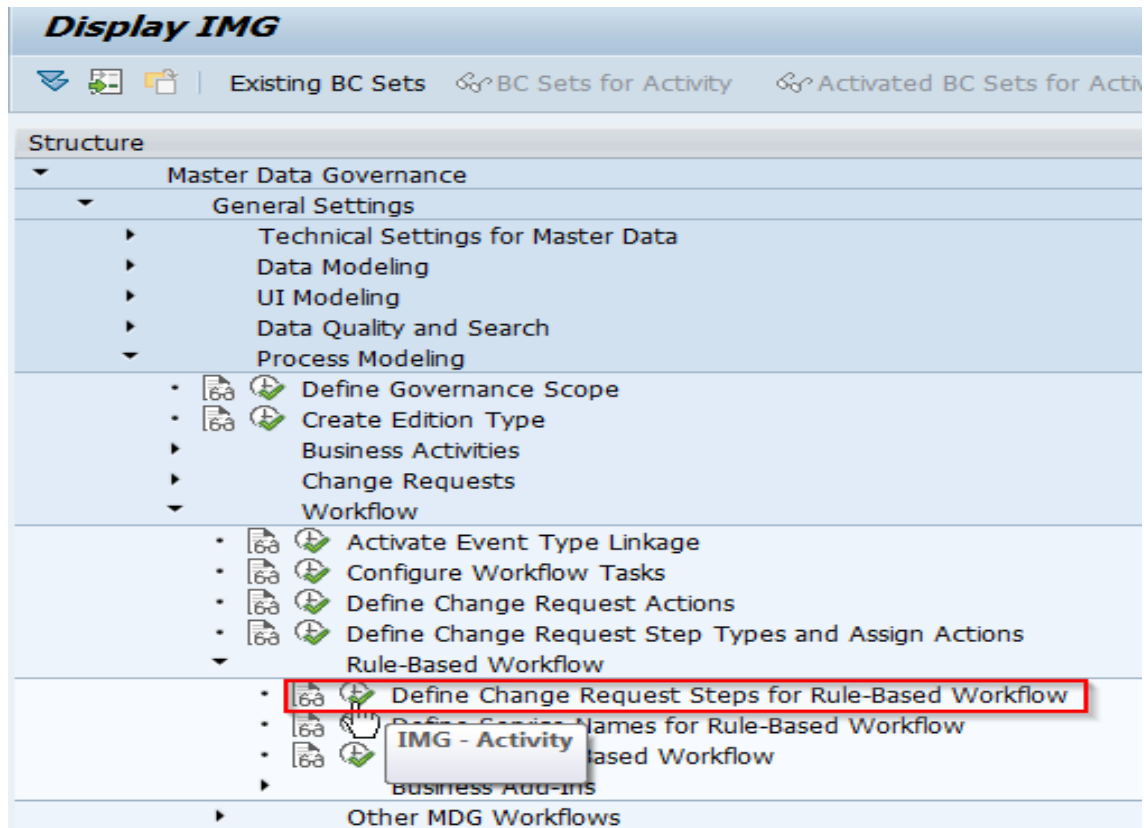

6. Click "Save".

7. Save the change in Customizing request.

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Define CR Steps for BRF+ Rule-Based Workflow

The following steps describe how to define Serial workflow approval process for the newly created change request type in the above step.

1. Execute "Define Change Request Steps for Rule-Based Workflow" by accessing the menu path Master Data Governance > General Settings > Process Modelling > Rule-Based Workflow.

Display IMG

Existing BC Sets | BC Sets for Activity | Activated BC Sets for Activi

Structure

- Master Data Governance
  - General Settings
    - Technical Settings for Master Data
    - Data Modeling
    - UI Modeling
    - Data Quality and Search
    - Process Modeling
      - Define Governance Scope
      - Create Edition Type
      - Business Activities
      - Change Requests
      - Workflow
        - Activate Event Type Linkage
        - Configure Workflow Tasks
        - Define Change Request Actions
        - Define Change Request Step Types and Assign Actions
        - Rule-Based Workflow
          - Define Change Request Steps for Rule-Based Workflow
          - Define Service Names for Rule-Based Workflow
          - IMG - Activity ...ased Workflow
          - Business Add-Ins
      - Other MDG Workflows

2. Select all the CR step defined for Change Request type "AIWEAM0S" and click "copy".

Change View "Workflow Step Numbers": Overview

New Entries

Workflow Step Numbers

Type of Chg. Request	CR Step	Keys	Validation	Description (medium text)
AIWEAM0S	0	☐	☐	Processing
AIWEAM0S	20	☐	☐	Equipment Revision Processing
AIWEAM0S	21	☐	☐	Functional Location Revision Processing
AIWEAM0S	22	☐	☐	Measuring Points Revision Processing
AIWEAM0S	23	☐	☐	Work Center Revision Processing
AIWEAM0S	24	☐	☐	Maintenance Plan Revision Processing
AIWEAM0S	25	☐	☐	General Task List Revision Processing
AIWEAM0S	26	☐	☐	Func. Loc. Task List Revision Processing
AIWEAM0S	27	☐	☐	Equipment Task List Revision Processing
AIWEAM0S	28	☐	☐	MRO BOM Revision Processing
AIWEAM0S	40	☐	☐	Equipment Specialist
AIWEAM0S	41	☐	☐	Functional Location Specialist
AIWEAM0S	42	☐	☐	Measuring Points Specialist
AIWEAM0S	43	☐	☐	Work Center Specialist
AIWEAM0S	44	☐	☐	Maintenance Plan Specialist
AIWEAM0S	45	☐	☐	General Task List Specialist
AIWEAM0S	46	☐	☐	Func. Loc. Task List Specialist
AIWEAM0S	47	☐	☐	Equipment Task List Specialist
AIWEAM0S		☐	☐	MRO BOM Specialist

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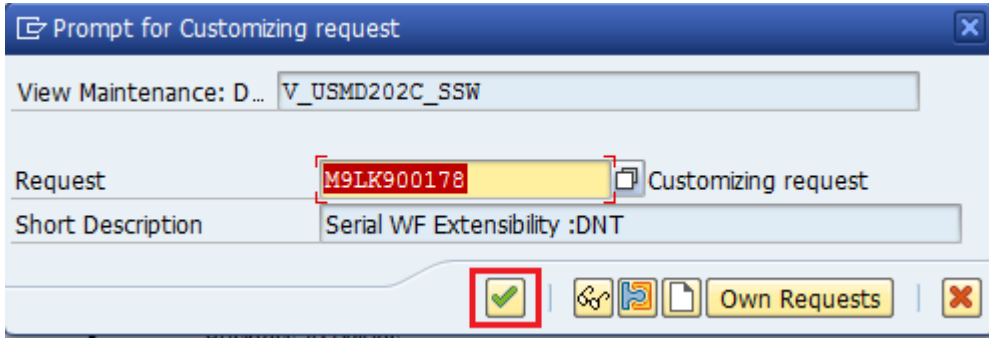
AIWEAM0S	60	☐	☐	Equipment Stewart
AIWEAM0S	61	☐	☐	Functional Location Stewart
AIWEAM0S	62	☐	☐	Measuring Points Stewart
AIWEAM0S	63	☐	☐	Work Center Stewart
AIWEAM0S	64	☐	☐	Maintenance Plan Stewart
AIWEAM0S	65	☐	☐	General Task List Stewart
AIWEAM0S	66	☐	☐	Func. Loc. Task List Stewart
AIWEAM0S	67	☐	☐	Equipment Task List Stewart
AIWEAM0S	68	☐	☐	MRO BOM Stewart
AIWEAM0S	80	☐	☑	Final Check
AIWEAM0S	91	☐	☐	Activation
AIWEAM0S	92	☐	☐	Withdraw
AIWEAM0S	93	☐	☐	Validation
AIWEAM0S	95	☐	☐	Revision Processing
AIWEAM0S		☐	☐	Complete

The selected steps are displayed as in the following screen.

New Entries: Overview of Added Entries

New Entries

Workflow Step Numbers

Type of Chg. Request	CR Step	Keys	Validation	Description (medium text)
ZAWEAM0S	0	☐	☐	Processing
ZAWEAM0S	20	☐	☐	Equipment Revision Processing
ZAWEAM0S	21	☐	☐	Functional Location Revision Processing
ZAWEAM0S	22	☐	☐	Measuring Points Revision Processing
ZAWEAM0S	23	☐	☐	Work Center Revision Processing
ZAWEAM0S	24	☐	☐	Maintenance Plan Revision Processing
ZAWEAM0S	25	☐	☐	General Task List Revision Processing
ZAWEAM0S	26	☐	☐	Func. Loc. Task List Revision Processing
ZAWEAM0S	27	☐	☐	Equipment Task List Revision Processing
ZAWEAM0S	28	☐	☐	MRO BOM Revision Processing
ZAWEAM0S	40	☐	☐	Equipment Specialist
ZAWEAM0S	41	☐	☐	Functional Location Specialist
ZAWEAM0S	42	☐	☐	Measuring Points Specialist
ZAWEAM0S	43	☐	☐	Work Center Specialist
ZAWEAM0S	44	☐	☐	Maintenance Plan Specialist
ZAWEAM0S	45	☐	☐	General Task List Specialist
ZAWEAM0S	46	☐	☐	Func. Loc. Task List Specialist
ZAWEAM0S	47	☐	☐	Equipment Task List Specialist
ZAWEAM0S	48	☐	☐	MRO BOM Specialist

ZAWEAM0S	60	☐	☐	Equipment Stewart
ZAWEAM0S	61	☐	☐	Functional Location Stewart
ZAWEAM0S	62	☐	☐	Measuring Points Stewart
ZAWEAM0S	63	☐	☐	Work Center Stewart
ZAWEAM0S	64	☐	☐	Maintenance Plan Stewart
ZAWEAM0S	65	☐	☐	General Task List Stewart
ZAWEAM0S	66	☐	☐	Func. Loc. Task List Stewart
ZAWEAM0S	67	☐	☐	Equipment Task List Stewart
ZAWEAM0S	68	☐	☐	MRO BOM Stewart
ZAWEAM0S	80	☐	☑	Final Check
ZAWEAM0S	91	☐	☐	Activation
ZAWEAM0S	92	☐	☐	Withdraw
ZAWEAM0S	93	☐	☐	Validation
ZAWEAM0S	95	☐	☐	Revision Processing
ZAWEAM0S	99	☐	☐	Complete

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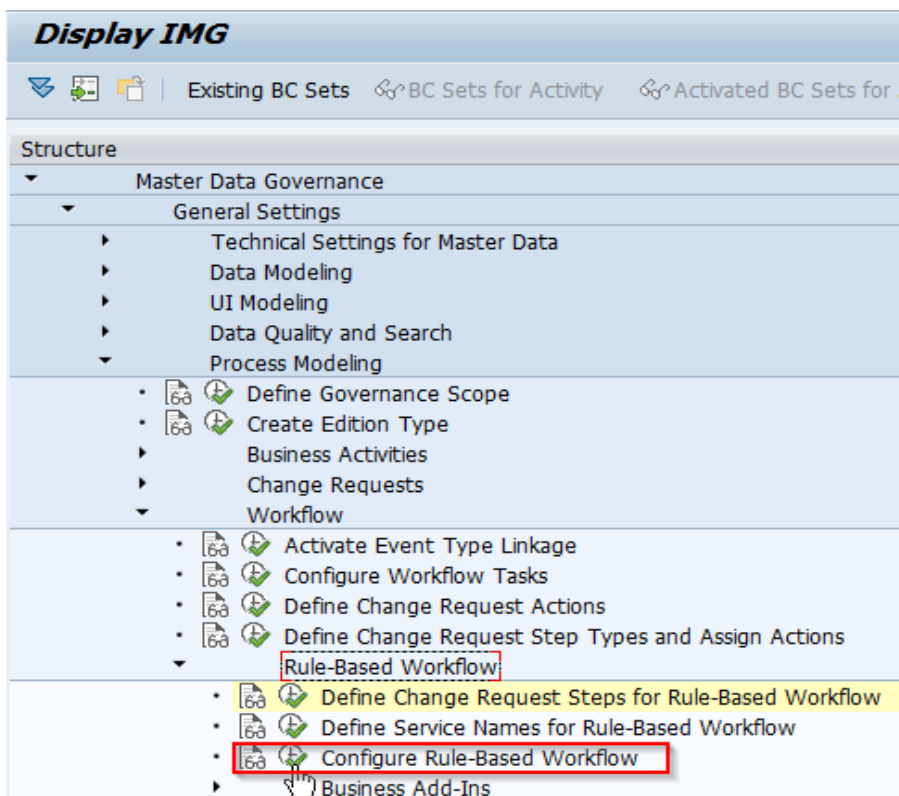3. Enter Change Request type as "ZAWEAM0S" for all the steps and click Enter.

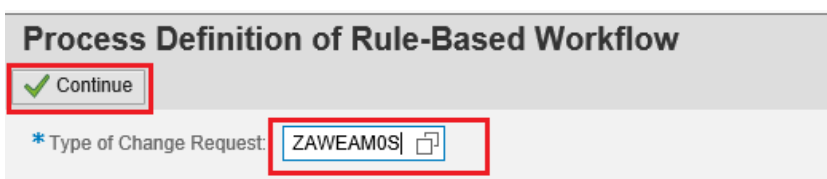4. Enter the Customizing request and click OK.

Configure Rule-Based Workflow

The final step is to set up the BRF+ application for the new Change Request type with the step types defined above.
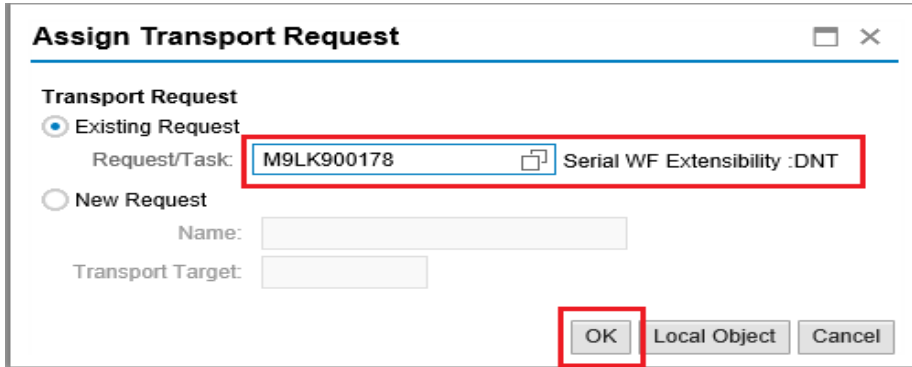
1. Execute Configure Rule-Based Workflow by accessing the menu path Master Data Governance > General Settings > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow.

2. In the browser, enter the Change Request type as "ZAWEAM0S".
3. Click "Continue".

4. Assign a transport request and click "OK".
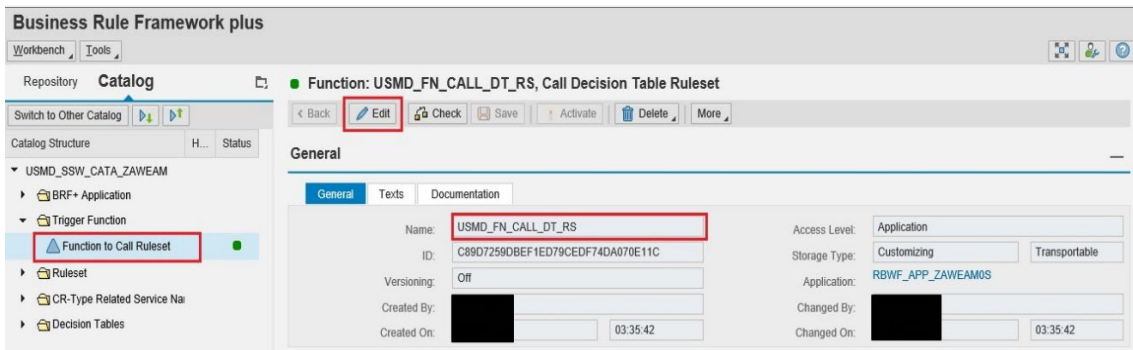
Add Function "Entity Type" to BRF+ Application

This step describes the process to route the workflow serially according to the entity type available in the MOCR.

Use the following steps to add function Entity Type to BRF+ Application:

1. Navigate to the signature section of function "USMD_FN_CALL_DT_RS" in edit mode in BRF+ browser as in the following screen.
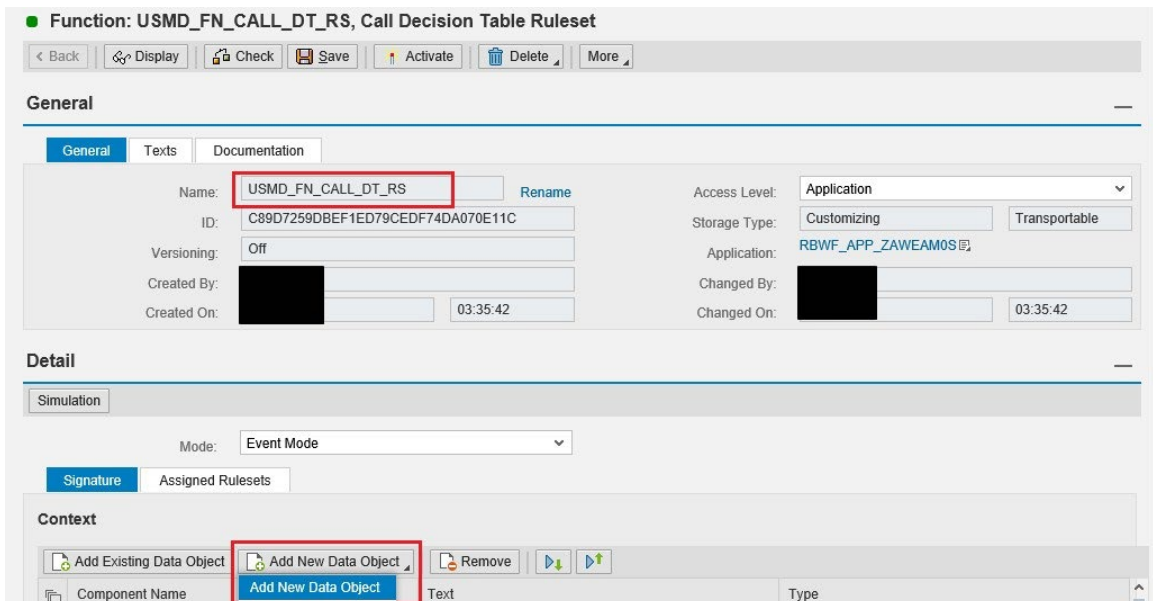
2. Include element "USMD_ENTITY" by clicking "Add New Data Object" as in the following screen.
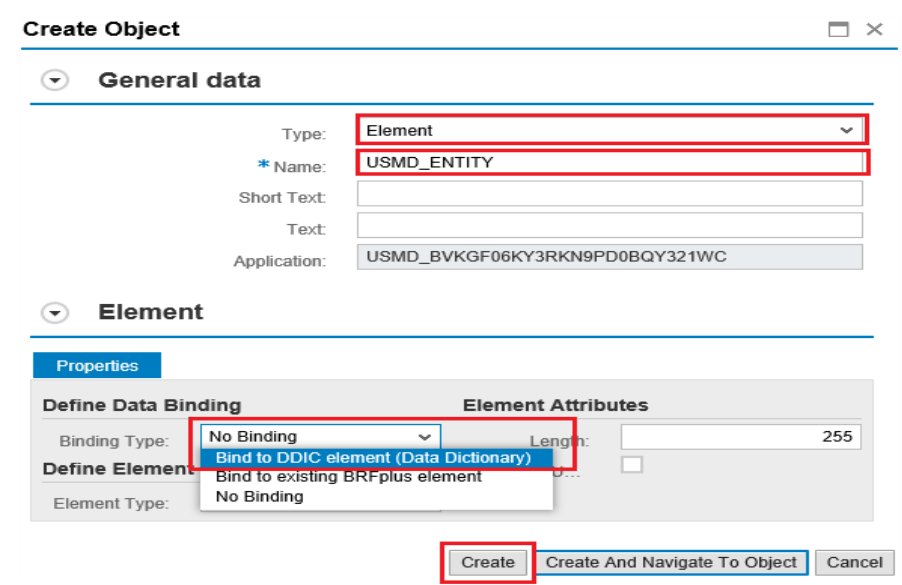
3. Select the Type as "Element" from the drop-down list, name as "USMD_ENTITY" and select the Binding Type as "Bind to DDIC element" from the drop-down list.
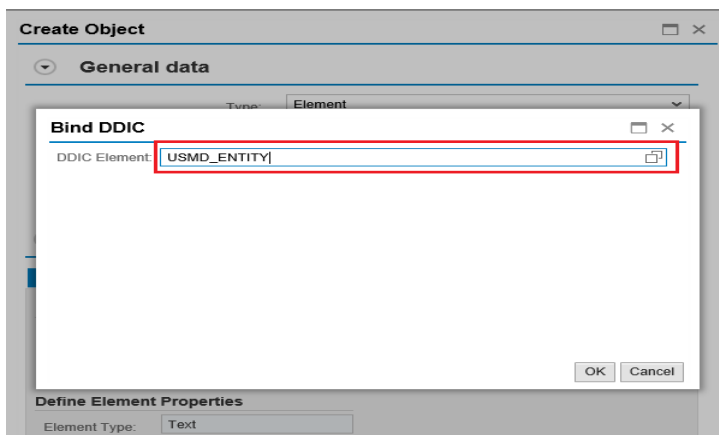
4. Enter DDIC Element as "USMD_ENTITY" and click "OK".
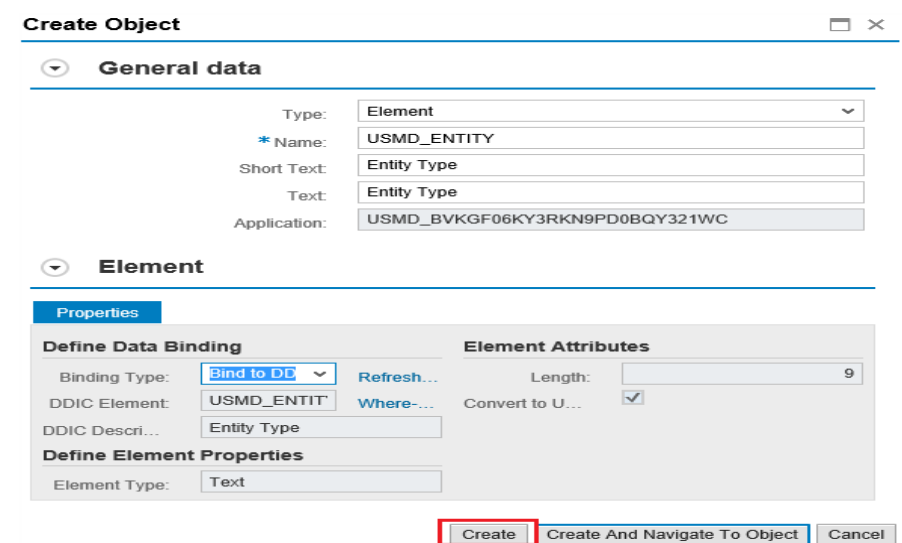
5. Click "Create".

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The data object is added as in the following screen.

6. Click "Save" and "Activate".

7. The Confirm Activation pop-up screen is displayed as in the following:

8. Click "Yes". The confirmation message is displayed as in the following screen.

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Add New Column in Decision Table
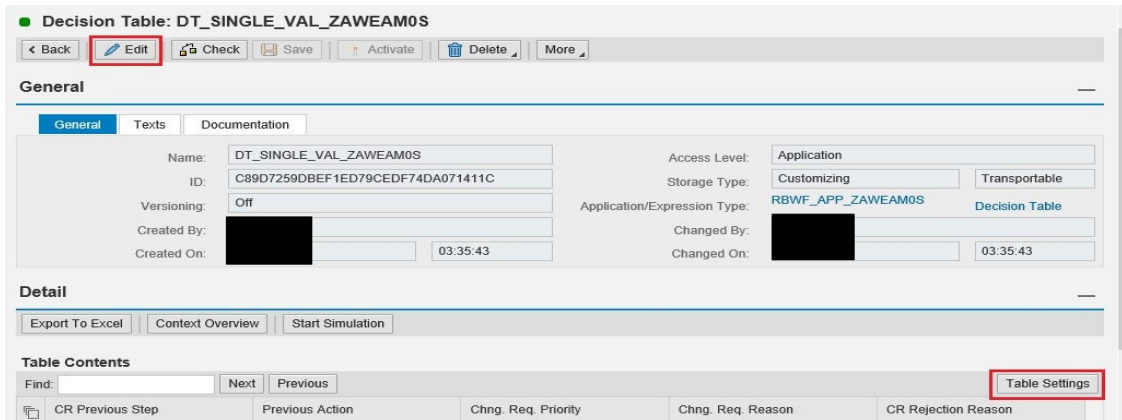
Use the following steps to add a new column in the Decision table:

1. Navigate to "Single Value Decision Table" by following the menu path under "Decision Tables" of the BRF+ application.
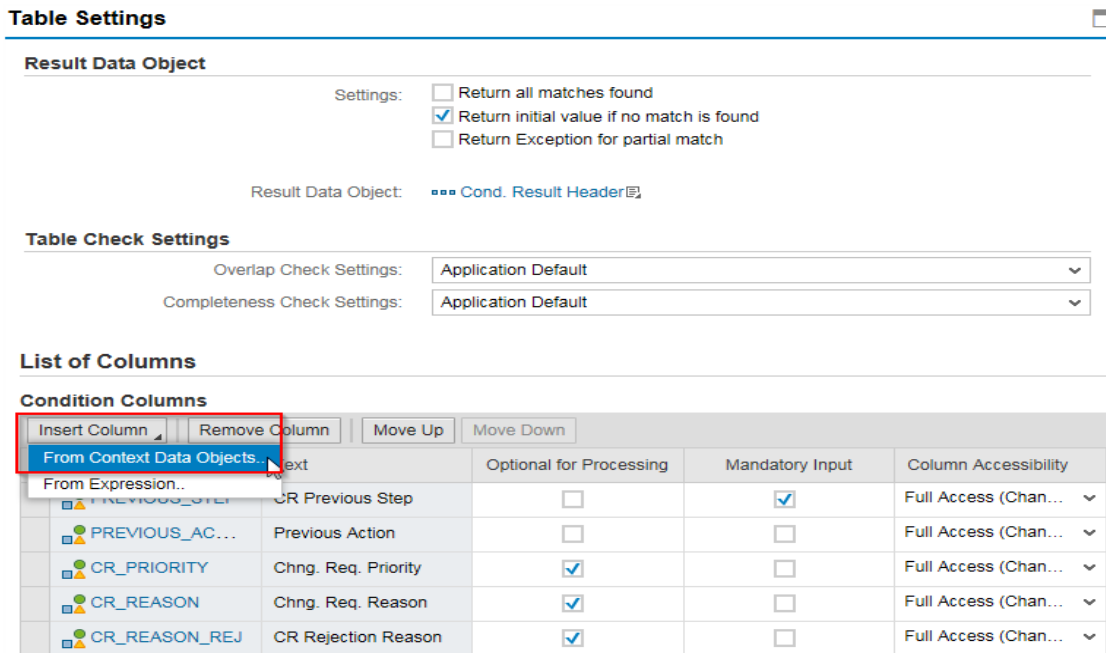
2. Click "Edit" and then click "Table Settings" in the single value decision table.

3. In the pop-up window, select "From Context Data Objects" option from the Condition Columns.

4. Select "USMD_ENTITY" in the Context Query pop-up and click "Ok".

5. Move the "USMD_ENTITY" field as the first row of condition column using "Move Up".

6. Check the "Mandatory Input" for column "USMD_ENTITY".
7. Click "OK".

The single value decision table (empty) as displayed in the following screen.

8. Click "Save".

Maintain Single Value Decision Table

Use the following steps to maintain the single value decision table:

1. Populate the single value decision table by clicking "Import From Excel" under "Additional Actions".
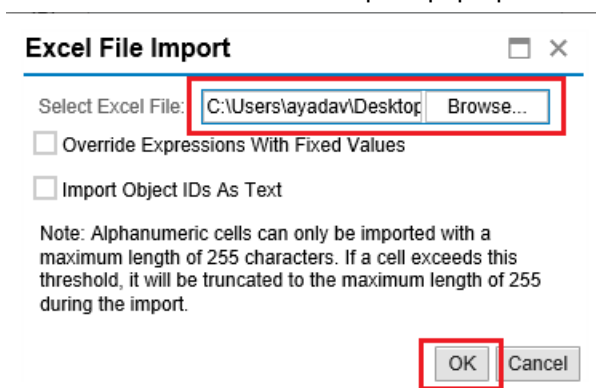
2. Click "Yes" in the pop-up window.

3. Copy the attached "Excel" file to a local repository and select this file by clicking "Browse" in the "Excel File Import" pop-up window.

DT_Single_value.xls
x

4. Select the Excel file to populate the single value decision table.
5. Click "OK" to close the "File Import" pop-up window.

The table is populated and displayed as in the following screen.

6. Click "Save" and "Activate".

7. Choose "Yes" in the "Confirm Activation" pop-up window.
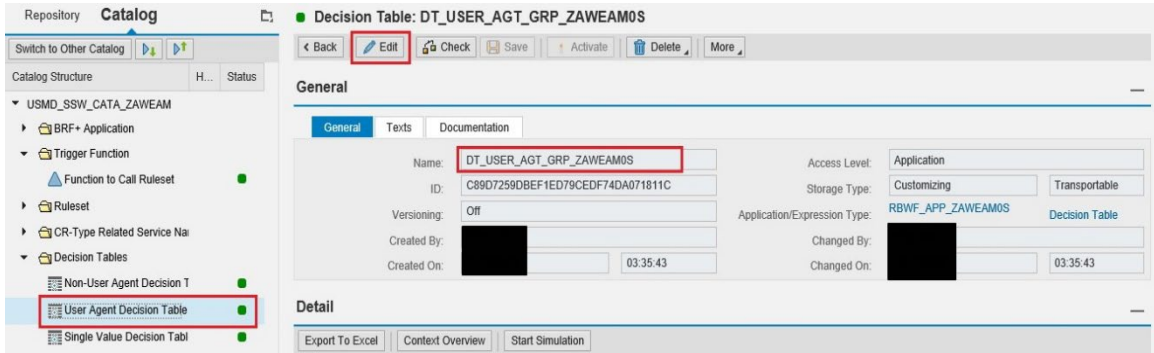
Maintain User Agent Decision Table

Use the following steps to maintain a user agent decision table:

1. Navigate to "User Agent Decision Table" of the BRF+ application in "Edit" mode

2. Click "Import From Excel" under "Additional Actions" to populate the User Agent decision table.

3. Click "Yes" in the pop-up window.

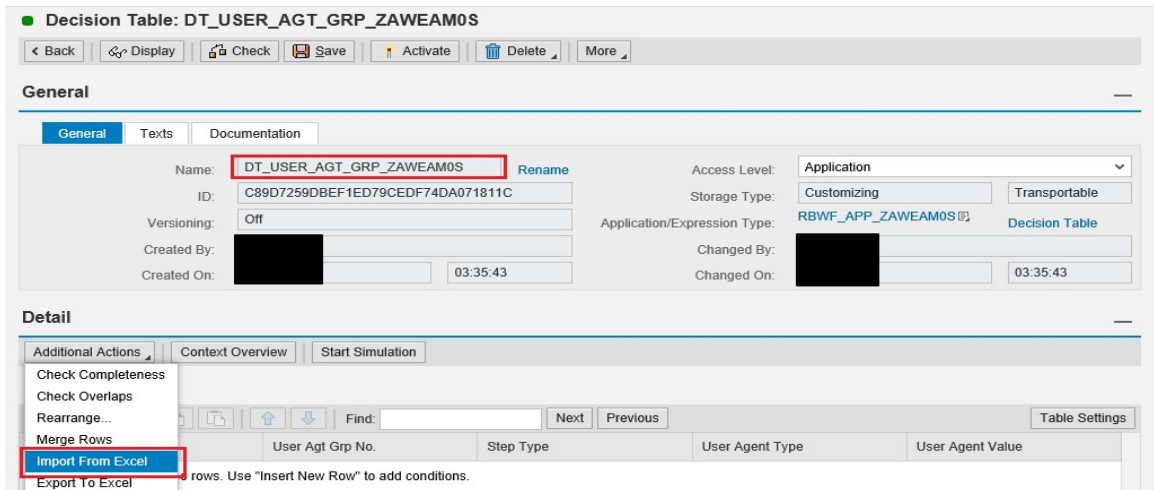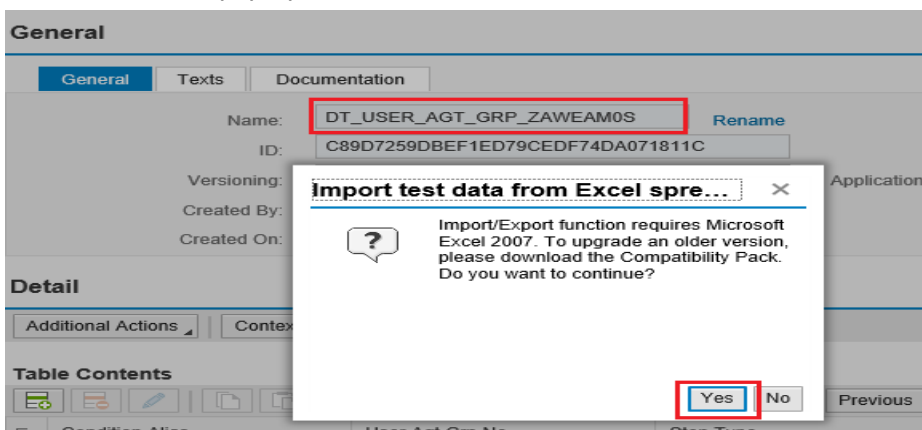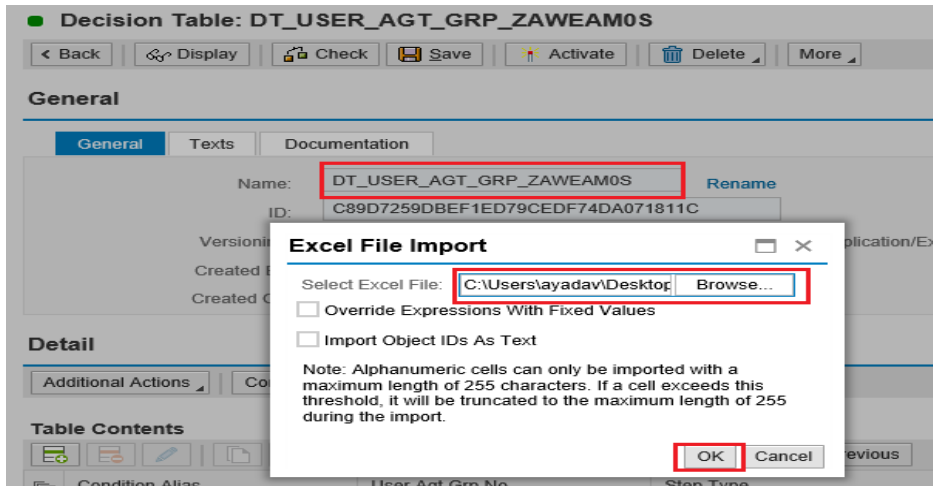4. Copy the attached "Excel" file to a local repository and select this file by clicking "Browse" in the "Excel File Import" pop-up.
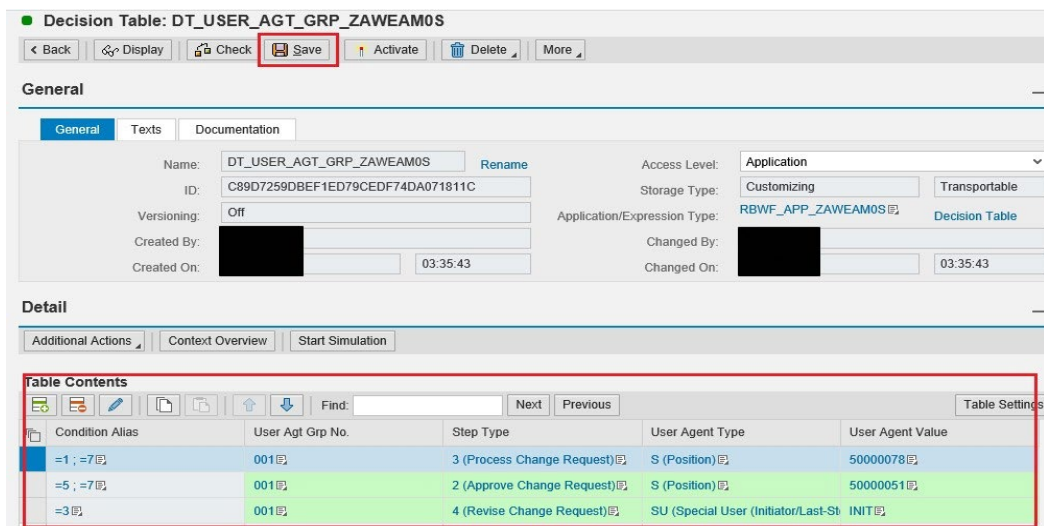

DT_USER_AGENT_G
ROUP.xlsx

5. Click "OK" to close the "File Import" pop-up window, after selecting the Excel file.

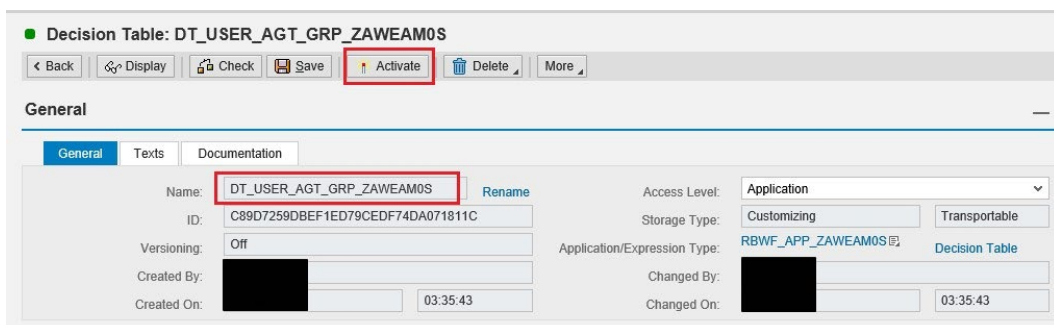
This step populates the user agent decision table.

6. Click "Save".

ℹ Note

The User agent type and User agent value can be set as per requirement. For example, Organization Unit position as the recipient has been used.
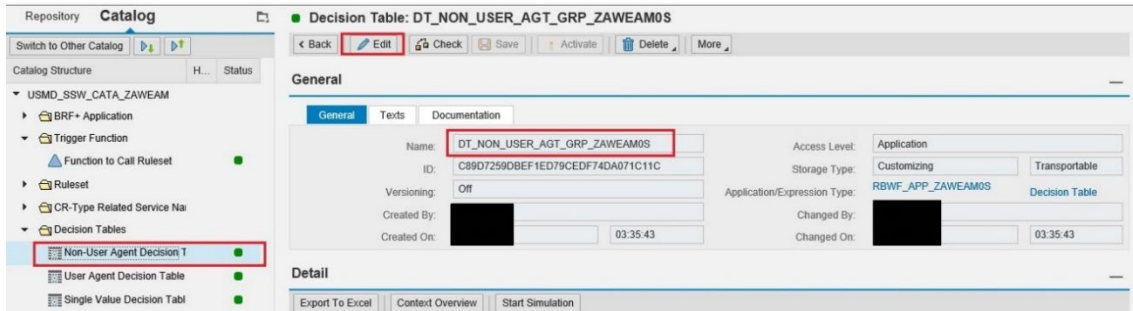
7. Click "Activate".

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Maintain Non-User Agent Decision Table

Use the following steps to maintain the non-user agent decision table:

1. Navigate to "Non-User Agent Decision Table" of the BRF+ application in "Edit" mode.
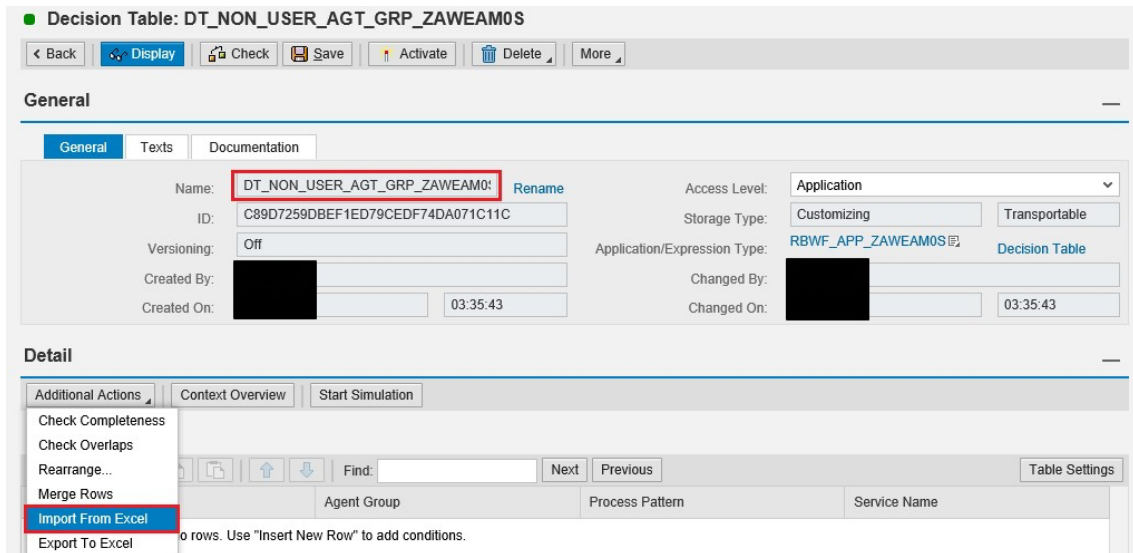
2. Populate the Non-User Agent decision table by clicking "Import From Excel" under "Additional Actions".

3. Click "Yes" in the pop-up window.

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4. Copy the attached "Excel" file to a local repository and select this file by clicking "Browse" in the "Excel File Import" pop-up window.

DT_NON_USER_AGE
NT_GROUP.xlsx

5. Click "OK" to close the "File Import" pop-up after selecting the Excel file to populate the single value decision table.

6. Click "Save".
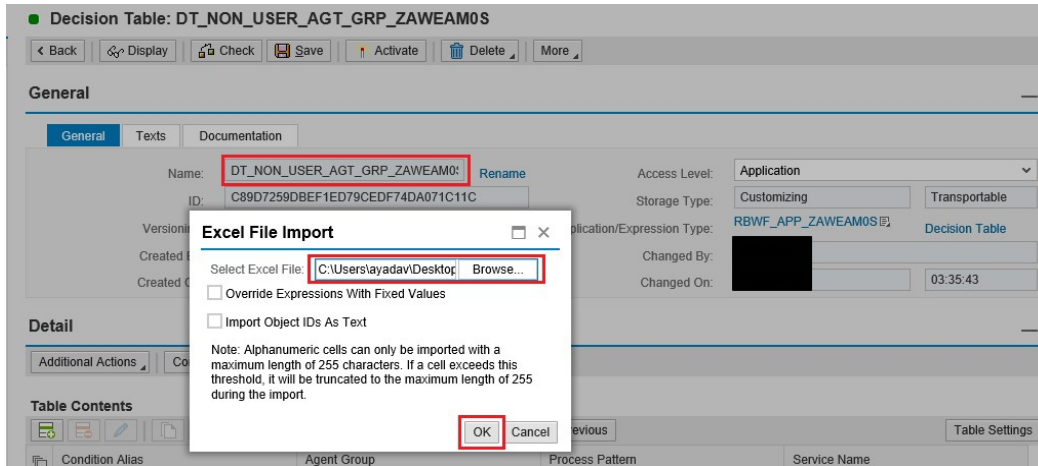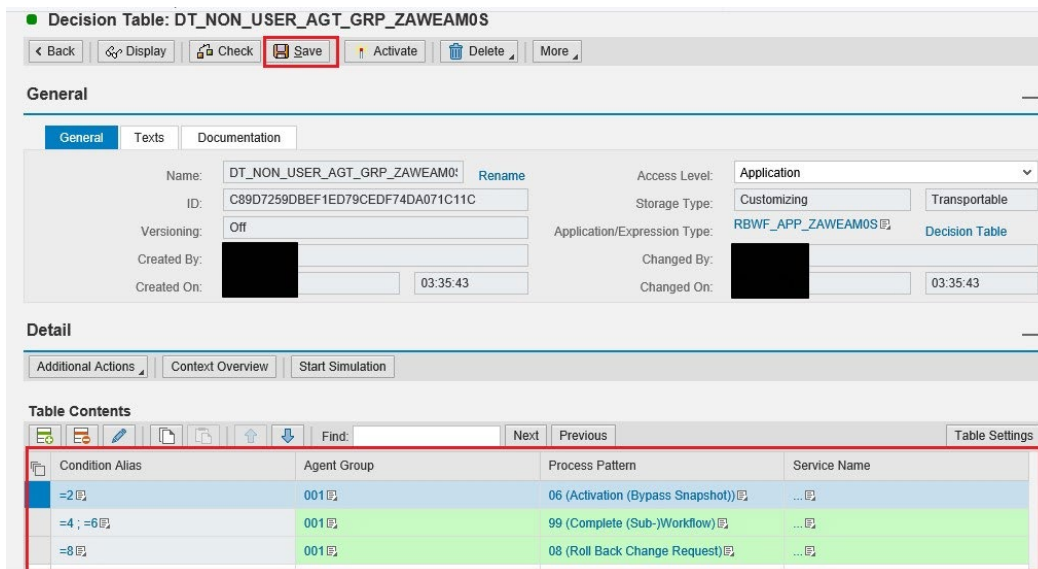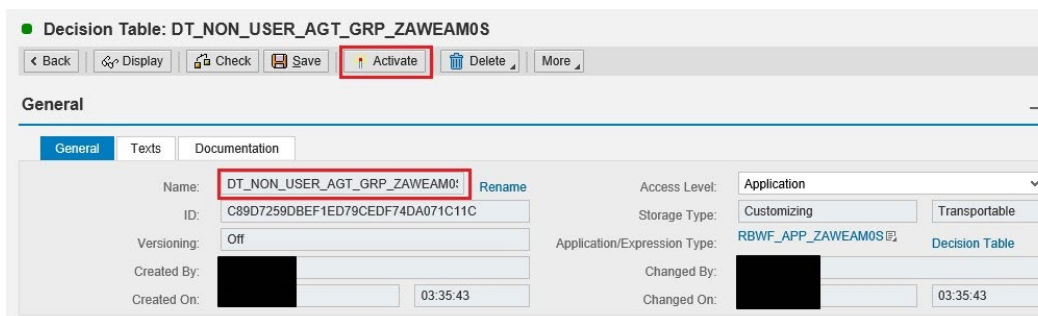

7. Click "Activate".

This completes the setup of BRF+ configuration for the workflow set up.

Maintain Sequence of Workflow Work items for the CR type ZAWEAM0S

Go to path in transaction /nmdgimg > Asset Information Workbench > Serial Workflow Steps Sequence

Entity Type	Sequence	Description
EQBOMHDR	7	EBOM - Equipment Bill of Material
EQUI	4	EQUI - Equipment
FLBOMHDR	6	FBOM - Functional Loc Bill of Material
FUNCLOC	3	FLOC - Functional Location
MPLAN	11	MPMI - Maintenance Plan
MSPOINT	5	MSPT - Measuring Point
OBJLINK	14	OBJL - Object Link
OBJNETWRK	13	OBJN - Object Network
PMBOMHDR	2	MBOM - Material Bill of Material
TLEQHDR	10	Equipment Task List
TLFLHDR	9	Functional Location Task List
TLGNHDR	8	General Task List
WBSBOMHDR	12	WBOM - WBS Bill of Material
WORKCNTR	1	WC - Work Center