

---

# **SAP MASTER DATA GOVERNANCE – FRAMEWORK CONFIGURATION AND UI PERSONALIZATION**

EIM261

Exercises / Solutions  
Michael Boettcher / SAP AG

## INTRODUCTION

With its domain-specific out-of-the-box applications, SAP Master Data Governance provides instant support for central maintenance scenarios of supplier, customer, material, and financial master data. Additionally, the application foundation of SAP Master Data Governance can be used for other data domains and to support customer-specific data management scenarios. Thus, this application can be the common platform within your organization to provide governance around all of your master data. In this session, you will be introduced to the concepts of SAP Master Data Governance's application foundation and will learn to:

- personalize and configure the user interface (layout changes, default settings, context based adaptations)
- adapt a specific process step (checks, derivation)

### Session Outline

This session is split into two blocks of exercises.

#### *Block A – User Interface Personalization and Configuration in MDG for Materials*

Exercise 1 – Personalize the UI (Layout changes and Defaulting)

Exercise 2 – Configure the UI (Context Based Adaptation)

#### *Block B – Process Configuration (Adapt Process Steps) in MDG for Materials*

Exercise 3 – Simplify the Process (Checks)

Exercise 4 – Simplify the Process (Derivation)

### Naming of objects

All objects of this exercise are named with a prefix ID for uniqueness. Please substitute the placeholder ## with the ID that matches to your group number: ## = Group number from 01 – 60

### Naming Convention

This exercise uses the naming convention below.

Configuration Setting	Example of ID / Name (for group 60)
User Role	Z60_SAP_MDGM_MENU
FPM UI Configurations	Z60_RERP39_BS_MAT_INIT Z60_BS_MAT_OVP
Change Request Types	Z60MAT01

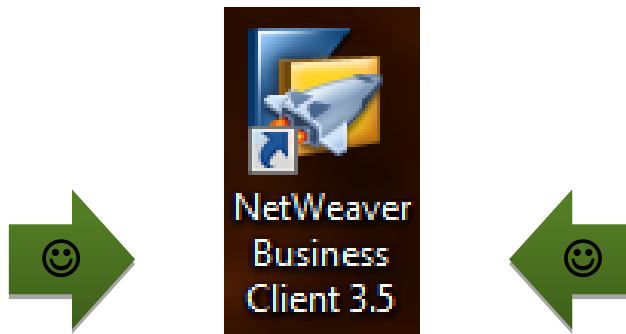
## Logon information

Replace ## with your two-digit group number

- Logon to the SAP System M10 Client 800
- Username: EIM261-##
- Password: welcome

## Logon with SAP NetWeaver Business Client 3.5

Please logon to the system using SAP NetWeaver Business Client – Desktop (NWBC) in version 3.5 from the start menu or using the shortcut on the desktop:



Do not use NWBC 4.0



NWBC 4.0 uses a new design and layout, so that you will not be able to follow the description of the exercise and particularly the screenshots in the solution section.



## **EXERCISE 1 – PERSONALIZE THE UI**

Objective of this exercise is to change the standard (one column) layout of your User Interface to a two column layout and to use some of your input as default settings.

Perform these steps:

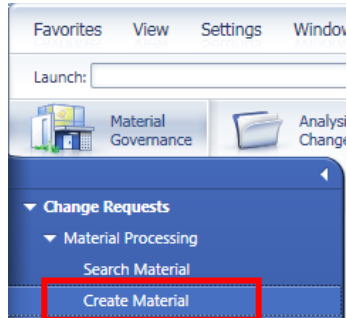
1. Start the SAP NetWeaver Business Client
2. Select "Material Governance" / Change Requests / Material Processing / Create Material
3. Material: "p-100-##" / Change Request Type: "MAT01"
4. Select "Personalize"
5. Select a two column layout and re-arrange your user interface
6. Set a default for the "Base Unit of Measure"



## Exercise 1: Step-by-step Solution

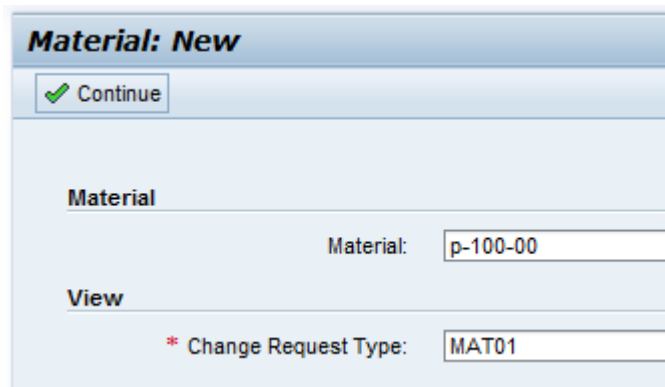
### Start the SAP NetWeaver Business Client

Select "Material Governance" / Change Requests / Material Processing / Create Material

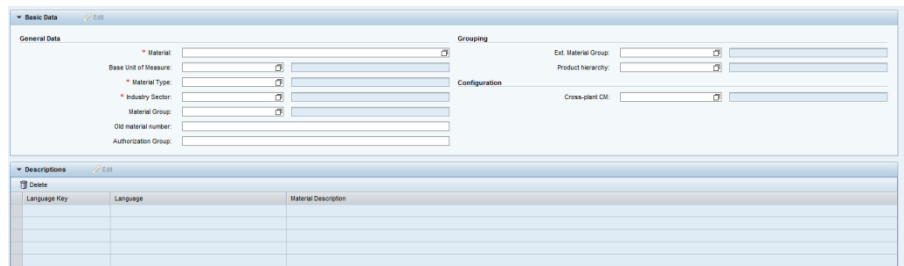


### Create Material

Material: "p-100-##" / Change Request Type: "MAT01"



Standard Layout

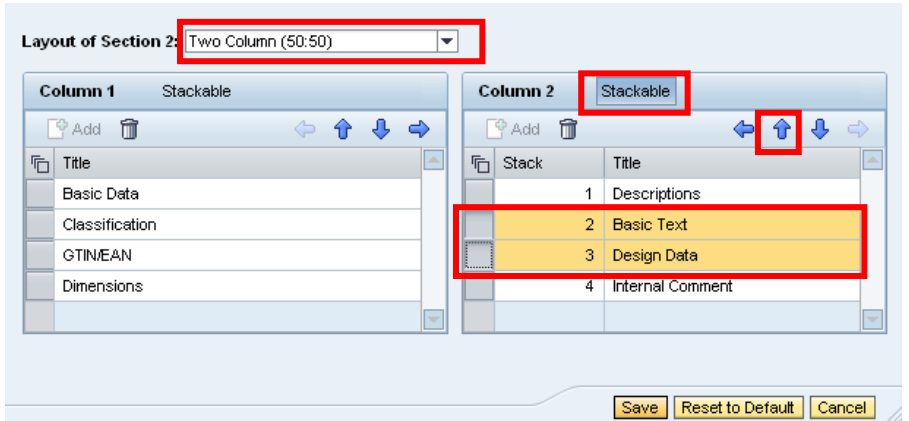


### Personalize

Select "Personalize"

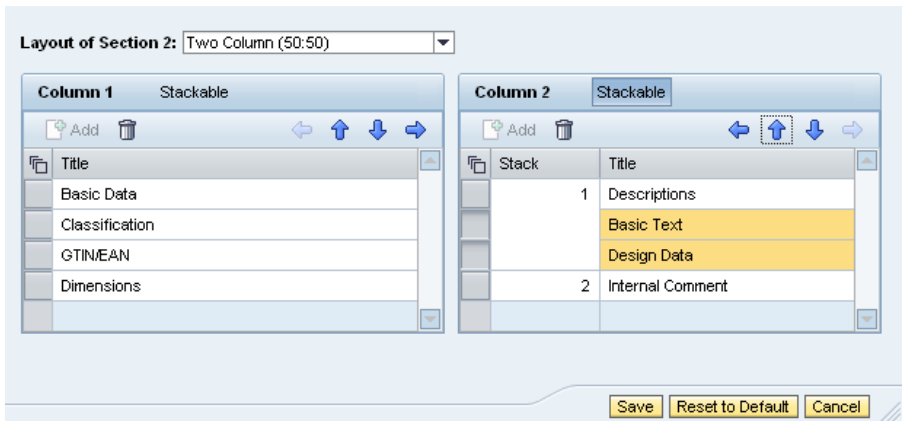


Select a two column layout for "Section 2".

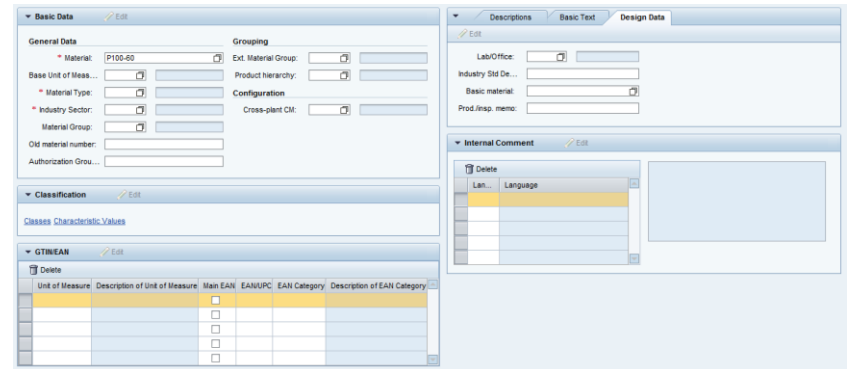


Move "Descriptions", "Basic Text", "Design Data" and "Internal" to "Column 2".

Select "Stackable" and move "Basic Text" and "Design Data" into "Stack 1".



### Layout Changed



### Set Default

Select "KG" as "Base Unit of Measure" in your Material "p-100-##".

Cancel the creation.

Create Material "p-100-##B".

The "Base Unit of Measure" is already defaulted.

Basic Data Edit

General Data

\* Material:

Base Unit of Measure: KG

\* Material Type:

\* Industry Sector:

Material Group:

Grouping

Ext. Material Group:

Product Hierarchy:

Unit Cl:

User Settings

Hide Input Field "Base Unit of Measure"

Access key activated

Use Current Value as Default

Display Quick Help

More Field Help...

More...

Technical Help...

Material: New, P-100-00B

Save | Cancel | Edit

Change Request Edit

General | Notes | Attachments

General Data

Change Request ID: 0

Description:

Priority:

Due Date:

Reason:

Basic Data Edit

General Data

\* Material:

Base Unit of Measure: KG



### Exercise 1 Completed!

You personalized your user interface.



## EXERCISE 2 – CONFIGURE THE UI (CONTEXT BASED ADAPTATION)

Objective of this exercise is to configure the User Interface based on the context - e.g. the UI should provide specific UI Building Blocks for a raw material (material type = "ROH").

Note: The configuration would be valid for all users (this is the difference between configuration and personalization which was shown in Exercise 1). To enable each user to do work on his own configuration in this exercise, everybody will get a user specific UI configuration.

Perform these steps:

### Change your Role

Check your MENU role with transaction SU01 or PFCG. Enter your role and click on change. Go to tab Menu and open the hierarchy. Find the Application configuration of the initial screen at Create Material by clicking on Details. Change the delivered Application configuration BS\_MAT\_INIT to Z##\_RERP39\_BS\_MAT\_INIT, which is already created for you. Save your role.

New Application/Application configuration of the initial screen: \_\_\_\_\_

### Check the Customizing

Check in the customizing your actual Target Application/Target UI configuration. (MDGIMG -> Master Data Governance-> General Settings-> Process Modeling-> Business Activities-> Link Actions with UI Application and Business Activity: Custom Definition)

Target Application/Target UI configuration from customizing: \_\_\_\_\_

### Configure your own UI Configuration

Delete Design Data Fields which you do not have under governance:

Mark the UIBB: Design Data. Click on **Configure UIBB**. Switch off the **Attributes**. In the Form **UIBB Schema** delete the **Element FERTH**. Save it with Package Z\_RERP39.

Fields, which you deleted in your UI configuration: \_\_\_\_\_

Use breadcrumbs to go back to your OVP\_LAYOUT.

### Hide complete UI Building Block

Mark the UIBB: Internal Comment. Click on **Attributes**. Choose **Hidden and Excluded from Event Loop** for **Hidden Element**. Save your configuration.

UIBB, which you made invisible in your UI configuration: \_\_\_\_\_

## Context Based adaptations (CBA)

You want to adapt the UI dependent on entered data. You want to hide the fields for Classification for Material type ROH. Go to your UIBB for Basic Data. Create an adaptation for the material type **ROH**. Click on **Adaptations**. Click on the Add button. Deselect Non-Specific for Material Type and enter ROH. Save it as Local Object.

Mark sure, that your adaptation is marked. Now you can adapt the UI.

### Delete Fields for Configuration

Mark the UIBB Basic Data and Click on **Configure UIBB**. Delete the group Configuration and change **Label Text** of others.

Fields, which you deleted: \_\_\_\_\_

Fields, where you changed the Label Texts: \_\_\_\_\_

### Change Tool Tip

Mark the Element BEGRU and click on Attributes. Change the tool tip.

Tool Tips, which you changed in your UI configuration: \_\_\_\_\_

## Link your User and your new UI Configuration

Check your role again with transaction SU01 or PFCG. Enter your role and click on **Display**. Go to tab Menu and open the hierarchy. Find the Application configuration of the initial screen at **Create Material** by clicking on **Details**. Make sure the Application configuration is **Z##\_RERP39\_BS\_MAT\_INIT**.

Go to the customizing (MDGIMG - > Master Data Governance-> General Settings-> Process Modeling-> Business Activities-> Link Actions with UI Application and Business Activity: Custom Definition).

Select your entry: BO type 194, Action CREATE, Current Application MDG\_BS\_MAT, Current UI Configuration **Z##\_RERP39\_BS\_MAT\_INIT**. Change the Target UI configuration from BS\_MAT\_OVP to your new created UI configuration **Z##\_BS\_MAT\_OVP** of your group.

Go to the customizing (MDGIMG - > Master Data Governance-> General Settings-> Process Modeling-> Business Activities-> Link Actions with Business Activity: Custom Definition).

Create a new entry for UI Application Name MDG\_BS\_MAT\_OVP and your new UI Configuration **Z##\_BS\_MAT\_OVP\*** with action CREATE and Business Activity MAT1.

## Create a new material

Go to the NWBC Home Page Material Governance and click on Create Material. Choose Change Request Type MAT01. Check, if your UI is used.



## Exercise 2: Step-by-step Solution

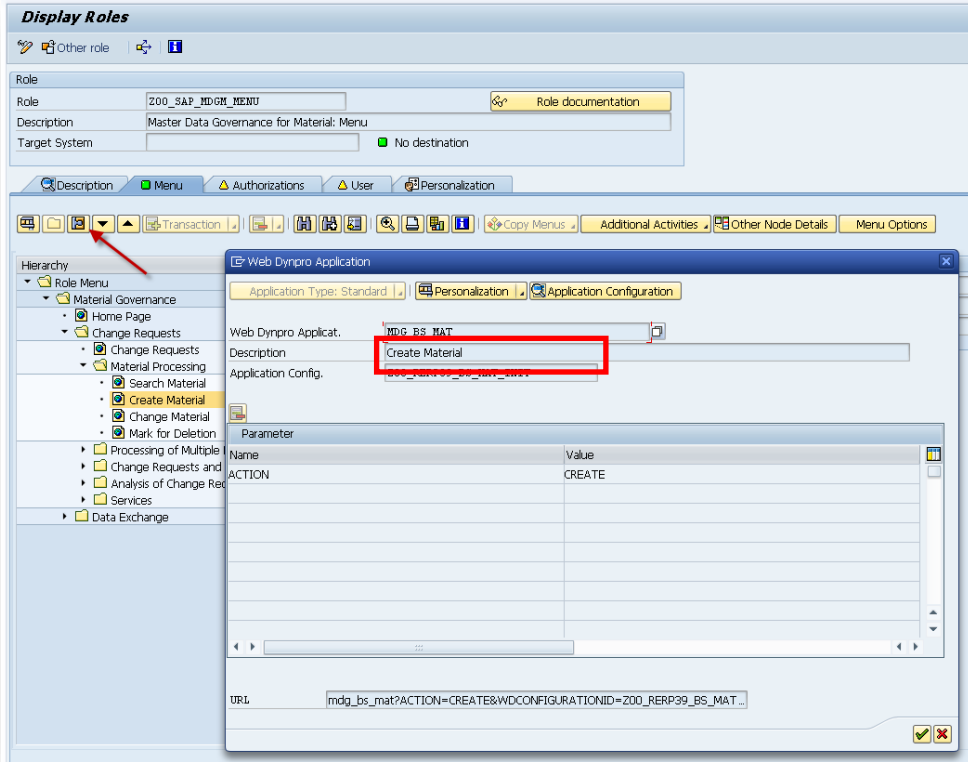
Launch transaction SU01 for User Maintenance.

In transaction SU01, please enter your User ID and press “Display”. Navigate to the “Roles” tab. You will see (at least) the following roles assigned to your user:

Status	Role	T	Start Date	End Date	Role name	Indi..
	SAP_MDGA_MENU		31.07.2012	31.12.9999	Master Data Governance Analytics	=
	SAP_MDGC_DISP		16.08.2012	31.12.9999	Master Data Governance for Customer: Display	=
	SAP_MDGC_MENU		31.07.2012	31.12.9999	Master Data Governance for Customer: Menu	=
	SAP_MDGC_REQ		16.08.2012	31.12.9999	Master Data Governance for Customer: Requester	=
	SAP_MDGC_SPEC		16.08.2012	31.12.9999	Master Data Governance for Customer: Specialist	=
	SAP_MDGC_STEW		16.08.2012	31.12.9999	Master Data Governance for Customer: Data Ste...	=
	SAP_MDGF_DISP		16.08.2012	31.12.9999	Master Data Governance for Financials: Display	=
	SAP_MDGF_MENU		31.07.2012	31.12.9999	Master Data Governance for Financials: Menu	=
	SAP_MDGF_REQ		16.08.2012	31.12.9999	Master Data Governance for Financials: Requester	=
	SAP_MDGF_SPEC		16.08.2012	31.12.9999	Master Data Governance for Financials: Specialist	=
	SAP_MDGF_STEW		16.08.2012	31.12.9999	Master Data Governance for Financials: Data Stew...	=
	SAP_MDGM_DISP		16.08.2012	31.12.9999	Master Data Governance for Material: Display	=
	SAP_MDGM_MENU		16.08.2012	31.12.9999	Master Data Governance for Material: Menu	=
	SAP_MDGM_REQ		16.08.2012	31.12.9999	Master Data Governance for Material: Requester	=
	SAP_MDGM_SPEC		16.08.2012	31.12.9999	Master Data Governance for Material: Specialist	=
	SAP_MDGM_STEW		16.08.2012	31.12.9999	Master Data Governance for Material: Data Stewa...	=
	SAP_MDGS_DISP		16.08.2012	31.12.9999	Master Data Governance for Supplier: Display	=
	SAP_MDGS_MENU		31.07.2012	31.12.9999	Master Data Governance for Supplier: Menu	=
	SAP_MDGS_REQ		16.08.2012	31.12.9999	Master Data Governance for Supplier: Requester	=
	SAP_MDGS_SPEC		16.08.2012	31.12.9999	Master Data Governance for Supplier: Specialist	=
	SAP_MDGS_STEW		16.08.2012	31.12.9999	Master Data Governance for Supplier: Data Stewa...	=
	SAP_MDGX_FND_SAMPLE_SF		13.08.2012	31.12.9999	MDG Custom Objects - Flight Data Model	=
	SAP_MDGX_MENU		31.07.2012	31.12.9999	Master Data Governance for Custom Objects: Me...	=
	SAP_MDG_ADMIN		31.07.2012	31.12.9999	Master Data Governance: Administrator	=
	Z00_SAP_MDGM_MENU		15.08.2012	31.12.9999	Master Data Governance for Material: Menu	=

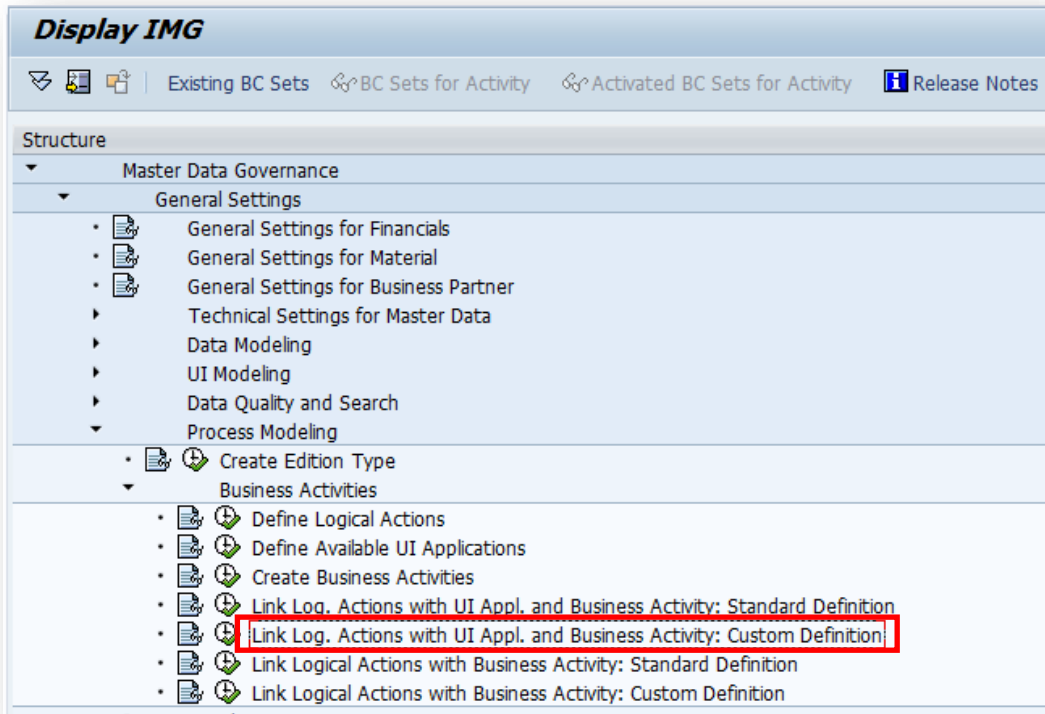
### Change your Role “Z##\_SAP\_MDGM\_MENU”

Navigate to role “Z##\_SAP\_MDGM\_MENU” (from the User Maintenance or via transaction PFCG). Change Menu Entry “Create Material”: Set Application Configuration to “Z##\_RERP39\_BS\_MAT\_INIT”.



## Check the Customizing

MDGIMG -> Master Data Governance-> General Settings-> Process Modeling -> Business Activities-> Link Actions with UI Application and Business Activity: Custom Definition



The screenshot shows the SAP Change View 'Maintenance Navigation': Overview. The table has the following columns: BO Type, Log. Action, Current UI Application Name, Current UI Configuration, Target UI Application Name, Target UI Configuration, and Bu... The table contains 17 rows of data. The first two columns are constant for all rows. The 'Current UI Application Name' column contains values from MDG\_BS\_MAT to MDG\_BS\_MAT. The 'Current UI Configuration' column contains values from Z00\_RERP39\_BS\_MAT\_INIT to Z14\_RERP39\_BS\_MAT\_INIT. The 'Target UI Application Name' column contains MDG\_BS\_MAT\_OVP for all rows. The 'Target UI Configuration' column contains BS\_MAT\_OVP for all rows. The 'Bu...' column contains MAT1 for all rows. The first two rows of the table are highlighted with a red rectangle.

BO Type	Log. Action	Current UI Application Name	Current UI Configuration	Target UI Application Name	Target UI Configuration	Bu...
194	CREATE	MDG_BS_MAT	Z00_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z01_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z02_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z03_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z04_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z05_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z06_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z07_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z08_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z09_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z10_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z11_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z12_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z13_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z14_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1

This entry ensures that all groups have their own entry point which means that everybody works on his own copy without interfering with others.

## Configure your own UI Configuration

SE80 Package **MDG\_BS\_MAT\_UI**. Select Web Dynpro → Web Dynpro Applications → MDG\_BS\_MAT\_OVP → Application Configurations → **Z##\_BS\_MAT\_OVP**. Click on “Display Configuration”.

Note: It is planned to include the UI Configurations in the MDG IMG (UI Modeling) so that it will no longer be necessary to use SE80.

**Web Dynpro Explorer: Display Web Dynpro Configuration**

Properties

Configuration Name	Z00_BS_MAT_OVP
Configuration Type	Application
Config. Variant	
Description	MDG-M: UI with CBA
Web Dynpro Applcat.	MDG_BS_MAT_OVP

Administrative Data

Created By	D030207	Created on	20.08.2012
Last Changed By	D030207	Changed On	20.08.2012
Package	ZEIM261		
Original langua	EN		

Object Name | Description

Web Dynpro Components	
Web Dynpro Applcat.	
MDG_BS_MAT	MDG-M: UI (entry point)
MDG_BS_MAT_OVP	MDG-M: UI with CBA
Applic. Configurations	
BS_MAT_OVP	MDG-M: UI with CBA
Z00_BS_MAT_OVP	MDG-M: UI with CBA
Z01_BS_MAT_OVP	MDG-M: UI with CBA
Z02_BS_MAT_OVP	MDG-M: UI with CBA
Z03_BS_MAT_OVP	MDG-M: UI with CBA
Z04_BS_MAT_OVP	MDG-M: UI with CBA
Z05_BS_MAT_OVP	MDG-M: UI with CBA
Z06_BS_MAT_OVP	MDG-M: UI with CBA
Z07_BS_MAT_OVP	MDG-M: UI with CBA
Z08_BS_MAT_OVP	MDG-M: UI with CBA
Z09_BS_MAT_OVP	MDG-M: UI with CBA
Z10_BS_MAT_OVP	MDG-M: UI with CBA
Z11_BS_MAT_OVP	MDG-M: UI with CBA

Navigate to the Configuration **Z##\_BS\_MAT\_OVP\_LAYOUT**.

**Application Configuration Z00\_BS\_MAT\_OVP**

Save | Cancel | Edit | Check | New Window | Enhance | Properties | Test

Assign Web Dynpro Component

Component Usage	Component	Implementation	Configuration Name
MDG_BS_MAT_OVP	FPM_ADAPTABLE_OVP	FPM_ADAPTABLE_OVP	Z00_BS_MAT_OVP_CBA
• OVP	FPM_OVP_COMPONENT	FPM_OVP_COMPONENT	Z00_BS_MAT_OVP_LAYOUT

## Step1: Delete Fields which you do not want to govern

Close “General Settings” and “Preview”. Go To “**Overview Page Schema**” and open “**MAT\_SECTION**”. Mark the UIBB (UI Building Block) “**Design Data**”. Change to Edit Mode and click on **Configure UIBB**.

Component Configuration Z00\_BS\_MAT\_OVP\_LAYOUT\_CP\_1, Main Screen "Basic Data"

MDG\_BS\_MAT\_OVP: Z00\_BS\_MAT\_OVP\_CP\_1 > OVP: Z00\_BS\_MAT\_OVP\_LAYOUT\_CP\_1

General Settings

Preview

Overview Page Schema | Toolbar Schema | Wire Schema

Page Master Area | Section | UIBB | Up | Down | Configure UIBB

Element	Component	Configuration Name	Window Name	Title
Section: CR_SECTION				
UIBB: Change Request	FPM_TABBED_UIBB	Z00_USMD_CR_OVERVIEW_CP_1	TABBED_WINDOW	Change Request
Section: MAT_SECTION				
UIBB: Basic Data	FPM_FORM_UIBB_GL2	Z00MDG_BS_MAT_MATERIAL_FOR	FORM_WINDOW	Basic Data
UIBB: Design Data	FPM_FORM_UIBB_GL2	Z00_MDG_BS_MAT_DESIGN_DATA	FORM_WINDOW	Design Data
UIBB: Descriptions	FPM_LIST_UIBB	Z00_MDG_BS_MAT_DESCR_LIST_C	LIST_WINDOW	Descriptions
UIBB: Classification	WDC_MDG_BS_CLF_GEN		W_ROOT	Classification
UIBB: Dimensions	FPM_COMPOSITE_UIBB	Z00_MDG_BS_MAT_UOM_COMP_C	COMPOSITE_WINDOW	Dimensions
UIBB: GTINEAN	FPM_LIST_UIBB	Z00_MDG_BS_MAT_GTIN_LIST_CP	LIST_WINDOW	GTINEAN
UIBB: Basic Text	FPM_COMPOSITE_UIBB	Z00_MDG_BS_MAT_TEXT_COMP_C	COMPOSITE_WINDOW	Basic Text
UIBB: Internal Comment	FPM_COMPOSITE_UIBB	Z00MDG_BS_MAT_INT_COMM_CO	COMPOSITE_WINDOW	Internal Comment

In the Form **UIBB Schema** delete the **Element “Prod./insp. Memo” (FERTH)**.

General Settings

Preview | Element | Group | Line | [Icons] | [Delete Icon]

	A	B	C	D	E	F	G	H	I
1			Lab/Office:	<input type="text"/>		<input type="text"/>			
2			Industry Std Desc.:	<input type="text"/>					
3			Basic material:	<input type="text"/>					
4			Prod./insp. memo:	<input type="text"/>					
5									

Save and create a new transport request if necessary.

New Transport Request

Description: Z00\_MDG\_TR

Technical Information

Object Type: WDCC


Object Name: Z58\_MDG\_BS\_MAT\_DESIGN\_DATA 00

OK Cancel

## Step 2: Hide complete UI Building Block

Use breadcrumbs to go back to your OVP\_LAYOUT.



Change to Edit Mode if necessary. Mark the UIBB: **Internal Comment**. Click on  (**Attributes**) if not already shown at the bottom of the screen. Choose **Hidden and Excluded from Event Loop** for **Hidden Element**. Save.

Element	Component	Configuration Name	Window Name
Section: CR_SECTION			
Section: MAT_SECTION			
UIBB: Basic Data	FPM_FORM_UIBB_GL2	Z00_MDG_BS_MAT_MATERI	FORM_WINDOW
UIBB: Design Data	FPM_FORM_UIBB_GL2	Z00_MDG_BS_MAT_DESIGN	FORM_WINDOW
UIBB: Descriptions	FPM_LIST_UIBB	Z00_MDG_BS_MAT_DESCR	LIST_WINDOW
UIBB: Classification	WDC_MDG_BS_CLF_GEN		W_ROOT
UIBB: Dimensions	FPM_COMPOSITE_UIBB	Z00_MDG_BS_MAT_UOM_CI	COMPOSITE_WINDOW
UIBB: GTIN/EAN	FPM_LIST_UIBB	Z00_MDG_BS_MAT_GTIN_LI	LIST_WINDOW
UIBB: Basic Text	FPM_COMPOSITE_UIBB	Z00_MDG_BS_MAT_TEXT_C	COMPOSITE_WINDOW
UIBB: Internal Comment	FPM_COMPOSITE_UIBB	Z00_MDG_BS_MAT_INT_COI	COMPOSITE_WINDOW

Attributes of UIBB: Internal Comment	
Window Name: *	COMPOSITE_WINDOW
Configuration Name:	Z00_MDG_BS_MAT_INT_COMM_COMP
Instance ID:	
Column:	1
Sequence Index:	8
Container Stretching:	
Hidden Element:	Hidden and Excluded from Event Loop

Hint: Ignore error message for connector class.



### Step 4: Change Field Labels

Close Preview and open “Form UIBB Schema”. Change Label Text for Material Number and Material Group.

**Component Configuration Z00\_MDG\_BS\_MAT\_MATERIAL\_FORM\_1**

MDG\_BS\_MAT\_OVP: Z00\_BS\_MAT\_OVP > OVP: C4071FDE7AED3576065C8E427E36CA64 > Form UIBB: Z00\_MDG\_BS\_MAT\_MATERIAL\_FORM\_1


General Settings

Preview

Form UIBB Schema

Element	Display Type	Label Text	Label Visibility	Text
Group				General Data
Element: MATNR	Input Field	Raw Material	is Visible	
Element: MEINS	Input Field	Base Unit of Measure	is Visible	
Element: MEINS_TXT04	Input Field	Unit text	is Not Visible	
Element: MTART	Input Field	Material Type	is Visible	
Element: MTART_TXT	Input Field	Material Type Description	is Not Visible	
Element: MBRSH	Input Field	Industry Sector	is Visible	
Element: MBRSH_TXT	Input Field	Industry Description	is Not Visible	
Element: MATKL	Input Field	Raw Material Group	is Visible	
Element: MATKL_TXT	Input Field	Material Group Description	is Not Visible	
Element: BISMT	Input Field	Old material number	is Visible	
Element: BEGRU	Input Field	Authorization Group	is Visible	
Group				Grouping
Element: EXTWG	Input Field	Ext. Material Group	is Visible	
Element: EXTWG_TXT	Input Field	Ext. matl grp descr.	is Not Visible	
Element: PRDHA	Input Field	Product hierarchy	is Visible	
Element: PRDHA_TXT	Input Field	Description	is Not Visible	

### Step 5: Change a Tool Tip

Mark the Element Authorization Group (BEGRU) and click on  (Attributes) if not already open. Change tool tip.

**Component Configuration Z00\_MDG\_BS\_MAT\_MATERIAL\_FORM\_1**

MDG\_BS\_MAT\_OVP: Z00\_BS\_MAT\_OVP > OVP: C4071FDE7AED3576065C8E427E36CA64 > Form UIBB: Z00\_MDG\_BS\_MAT\_MATERIAL\_FORM\_1

General Settings

Preview

Form UIBB Schema

Element	Display Type	Label Text	Label Visibility	Text
Group				General Data
Element: MATNR	Input Field	Raw Material	is Visible	
Element: MEINS	Input Field	Base Unit of Measure	is Visible	
Element: MEINS_TXT04	Input Field	Unit text	is Not Visible	
Element: MTART	Input Field	Material Type	is Visible	
Element: MTART_TXT	Input Field	Material Type Description	is Not Visible	
Element: MBRSH	Input Field	Industry Sector	is Visible	
Element: MBRSH_TXT	Input Field	Industry Description	is Not Visible	
Element: MATKL	Input Field	Raw Material Group	is Visible	
Element: MATKL_TXT	Input Field	Material Group Description	is Not Visible	
Element: BISMT	Input Field	Old material number	is Visible	
Element: BEGRU	Input Field	Authorization Group	is Visible	
Group				Grouping
Element: EXTWG	Input Field	Ext. Material Group	is Visible	
Element: EXTWG_TXT	Input Field	Ext. matl grp descr.	is Not Visible	
Element: PRDHA	Input Field	Product hierarchy	is Visible	
Element: PRDHA_TXT	Input Field	Description	is Not Visible	

Attributes of Element: BEGRU

Standard Attributes

Element

Field Name: BEGRU

Explanation:

Label Text: Authorization Group

Context Menu ID:

Display Type: Input Field

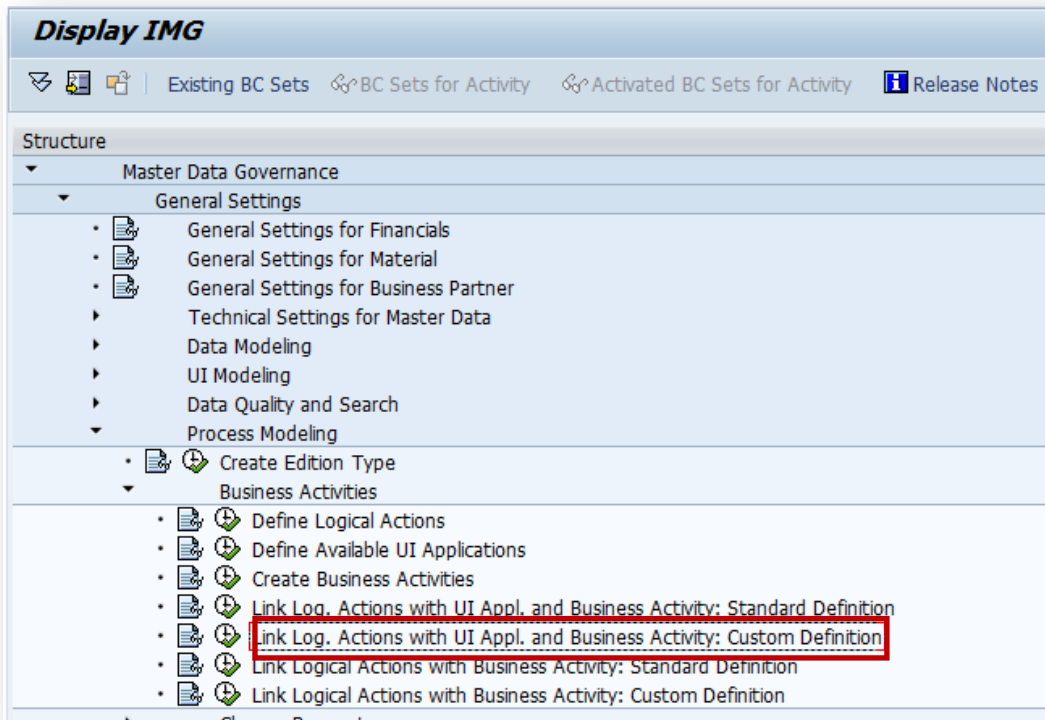
Tooltip: Authorization Group is used for special treatment

Label Visibility: is Visible

Save your UI Configuration. You can already review your changes in the Preview.

## Link your UI Configuration

Go to the customizing (MDGIMG - > Master Data Governance-> General Settings-> Process Modeling-> Business Activities-> Link Actions with UI Application and Business Activity: Custom Definition).



Select your entry: BO type 194, Action CREATE, Current Application MDG\_BS\_MAT, Current UI Configuration Z##\_RERP39\_BS\_MAT\_INIT. Change the Target UI configuration from BS\_MAT\_OVP to your new created UI configuration Z##\_BS\_MAT\_OVP of your group.

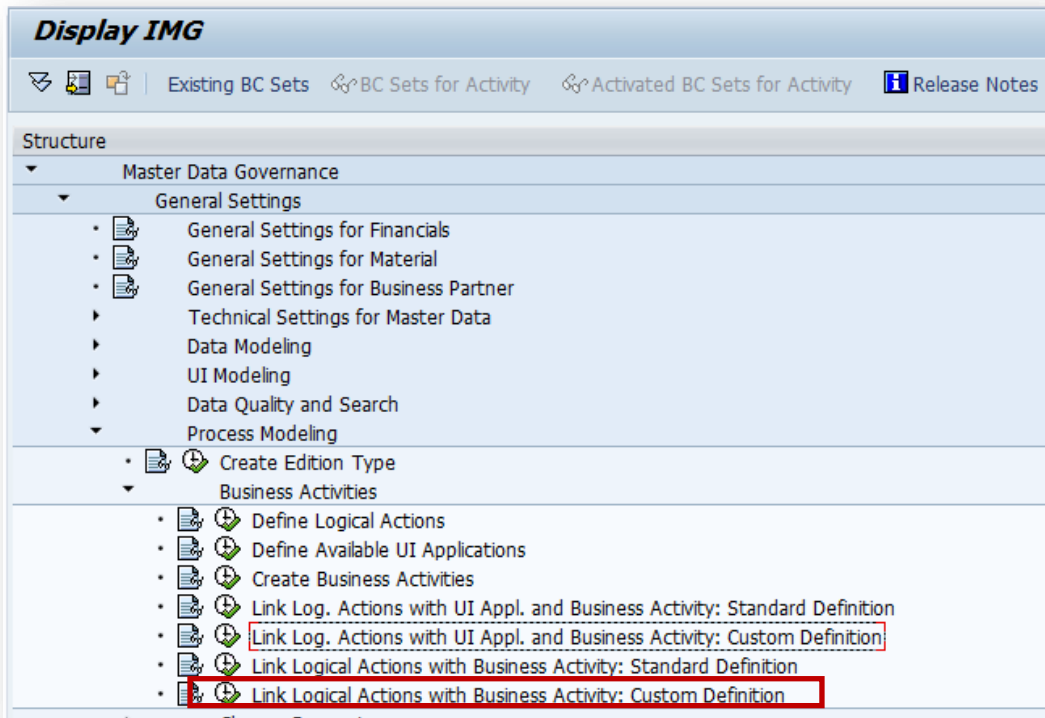
**Change View "Maintenance Navigation": Overview**

New Entries | BC Set: Change Field Values

BO Type	Log. Action	Current UI Application Name	Current UI Configuration	Target UI Application Name	Target UI Configuration	Bu...
194	CREATE	MDG_BS_MAT	Z00_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	Z00_BS_MAT_OVP	MAT1
194	CREATE	MDG_BS_MAT	Z01_RERP39_BS_MAT_INIT	MDG_BS_MAT_OVP	BS_MAT_OVP	MAT1

A red arrow points to the 'Z00\_BS\_MAT\_OVP' cell in the 'Target UI Configuration' column of the first row.

Go to the customizing (MDGIMG -> Master Data Governance-> General Settings-> Process Modeling-> Business Activities-> Link Actions with Business Activity: Custom Definition).



Check the entries for UI Application MDG\_BS\_MAT and MDG\_BS\_MAT\_OVP and your new UI Configurations.

**Change View "Business Activity: Determination": Overview**

New Entries

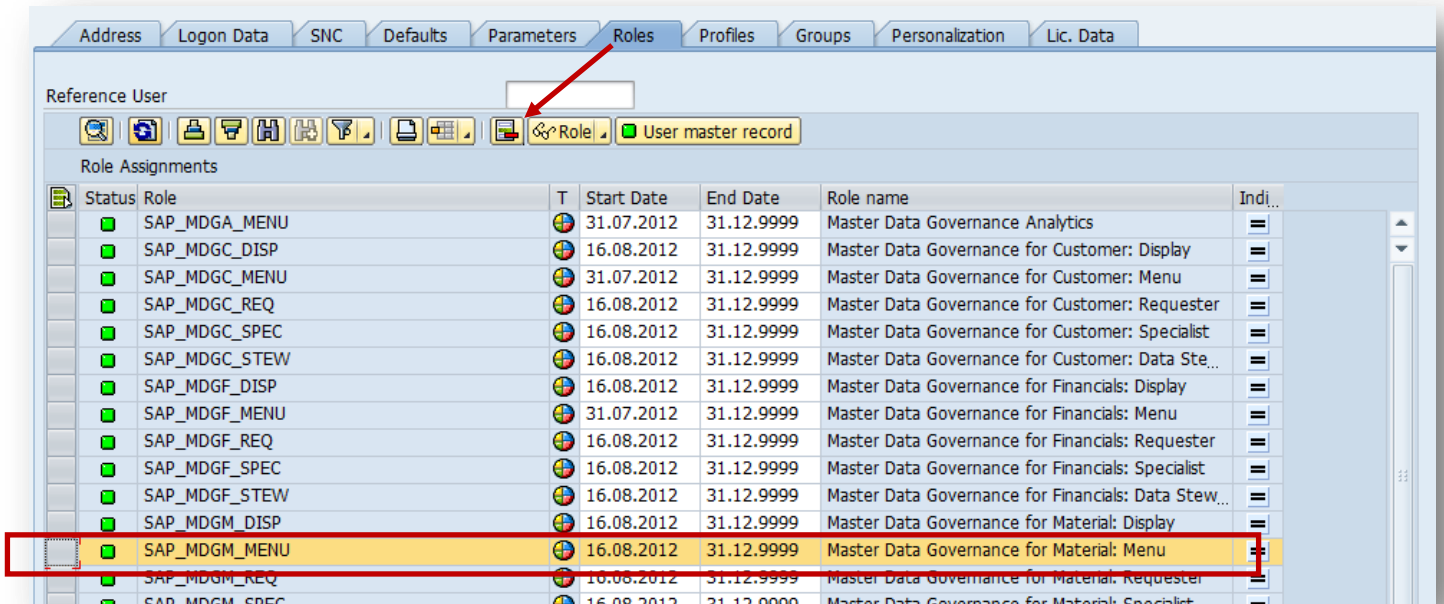
UI Application Name	UI Configuration	Log. Action	Description	Bu...	Description (medium text)
MDG_BS_MAT	200_RERP39_BS_MAT_INIT	CREATE	Create	MAT1	Create Material
MDG_BS_MAT	201_RERP39_BS_MAT_INIT	CREATE	Create	MAT1	Create Material
MDG_BS_MAT	202_RERP39_BS_MAT_INIT	CREATE	Create	MAT1	Create Material

**Change View "Business Activity: Determination": Overview**

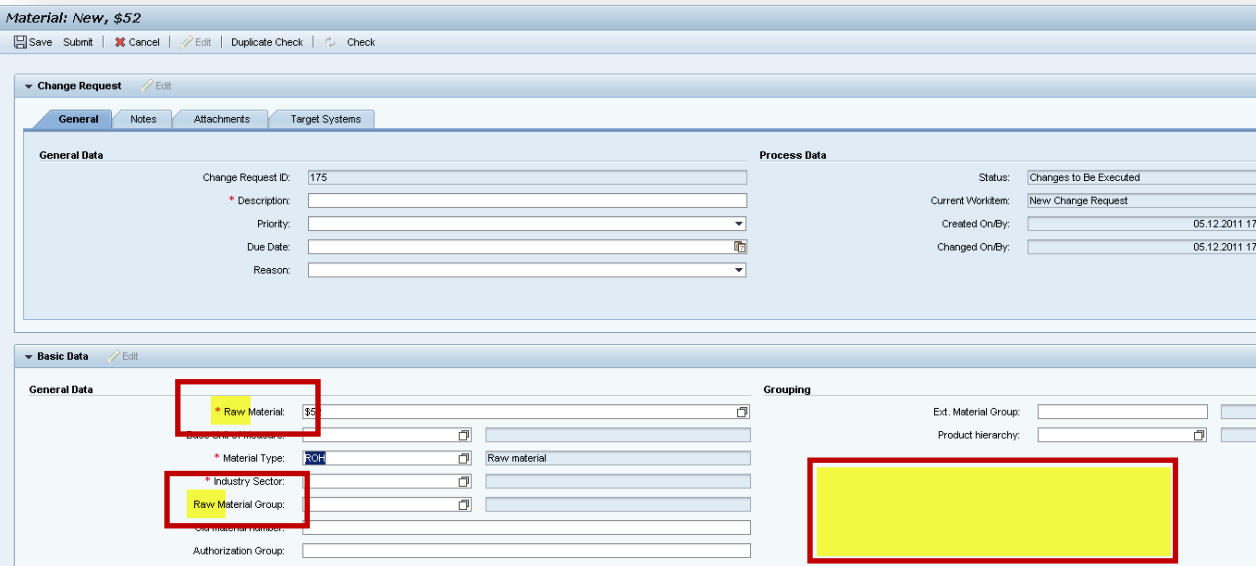
New Entries

UI Application Name	UI Configuration	Log. Action	Description	Bu...	Description (medium text)
MDG_BS_MAT	258_RERP39_BS_MAT_INIT	CREATE	Create	MAT1	Create Material
MDG_BS_MAT	259_RERP39_BS_MAT_INIT	CREATE	Create	MAT1	Create Material
MDG_BS_MAT	260_RERP39_BS_MAT_INIT	CREATE	Create	MAT1	Create Material
MDG_BS_MAT_OVP	200_BS_MAT_OVP	CREATE	Create	MAT1	Create Material
MDG_BS_MAT_OVP	201_BS_MAT_OVP	CREATE	Create	MAT1	Create Material
MDG_BS_MAT_OVP	202_BS_MAT_OVP	CREATE	Create	MAT1	Create Material

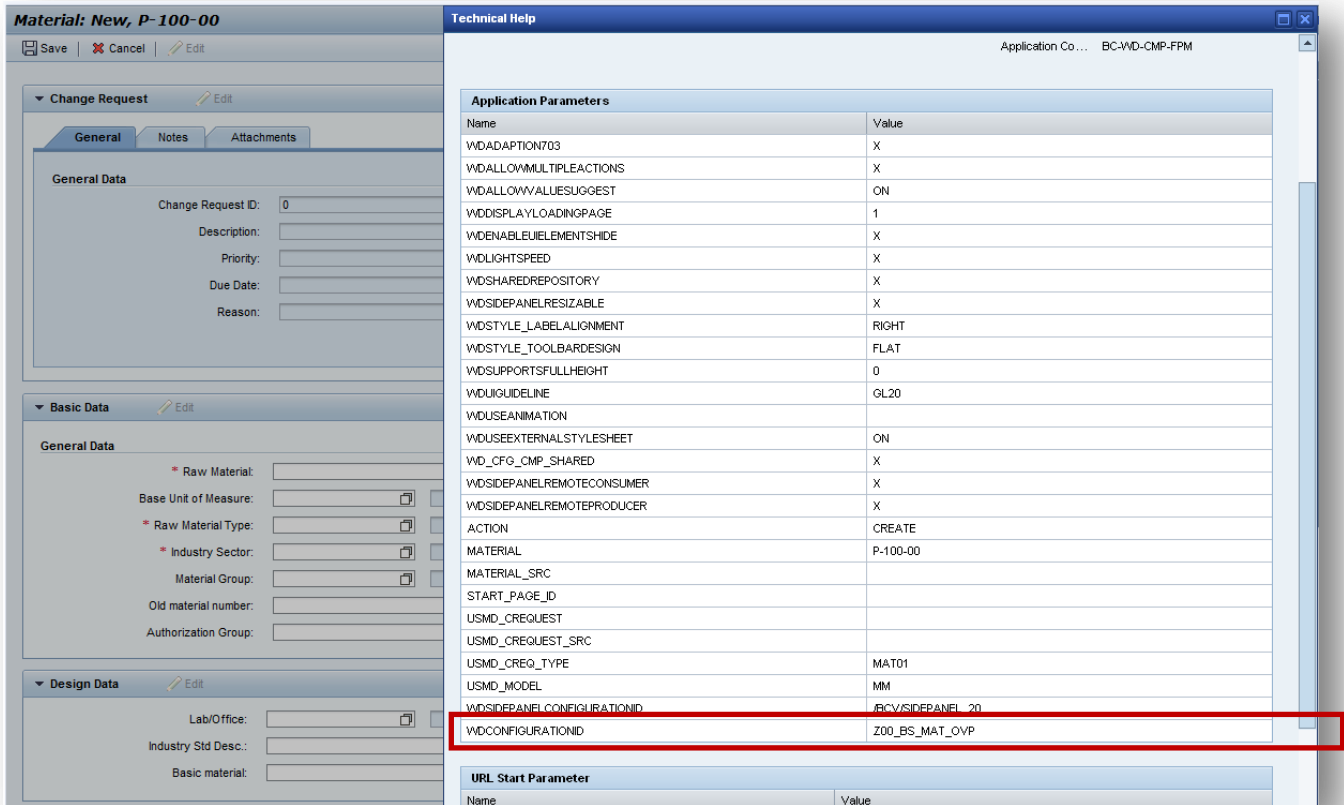
Go to user maintenance (SU01) and remove role “SAP\_MDGM\_MENU”. This will ensure that your role Z##\_SAP\_MDGM\_MENU is used.



Restart the NetWeaver Business Client. Navigate to “Create Material”. Enter Material type RAW (ROH) and check if the adaptation (and other changes) are active:



You can also check if you UI configuration is used by a right-click and displaying the technical help:



The screenshot shows the SAP Material Master configuration for 'Material: New, P-100-00'. The 'Technical Help' window is open, displaying a table of application parameters. The parameter 'WDCONFIGURATIONID' is highlighted with a red box, indicating its value is 'Z00\_BS\_MAT\_OVP'.

Name	Value
WDADAPTION703	X
WDALLOWMULTIPLEACTIONS	X
WDALLOWVALUESUGGEST	ON
WDDISPLAYLOADINGPAGE	1
WDENABLEUIELEMENTSHIDE	X
WDLIGHTSPEED	X
WDSHAREDREPOSITORY	X
WDSIDEPANELRESIZABLE	X
WDSTYLE_LABELALIGNMENT	RIGHT
WDSTYLE_TOOLBARDESIGN	FLAT
WDSUPPORTSFULLHEIGHT	0
WDUGUIDELINE	GL20
WDUSEANIMATION	
WDUSEEXTERNALSTYLESHEET	ON
WD_CFG_CMP_SHARED	X
WDSIDEPANELREMOTECONSUMER	X
WDSIDEPANELREMOTEPRODUCER	X
ACTION	CREATE
MATERIAL	P-100-00
MATERIAL_SRC	
START_PAGE_ID	
USMD_CREQUEST	
USMD_CREQUEST_SRC	
USMD_CREQ_TYPE	MAT01
USMD_MODEL	MM
WDSIDEPANELCONFIGURATIONID	/BCV/SIDEPANEL_20
<b>WDCONFIGURATIONID</b>	<b>Z00_BS_MAT_OVP</b>



## Exercise 2 Completed!

You configure the user interface (including Context Based Adaptations).



### **EXERCISE 3 – SIMPLIFY THE PROCESS (DISABLE CHECKS)**

Objective of this exercise is to postpone the required input of the material type. The requester is no longer forced to put in the material type, leaving this task to the material specialist.

Perform these steps:

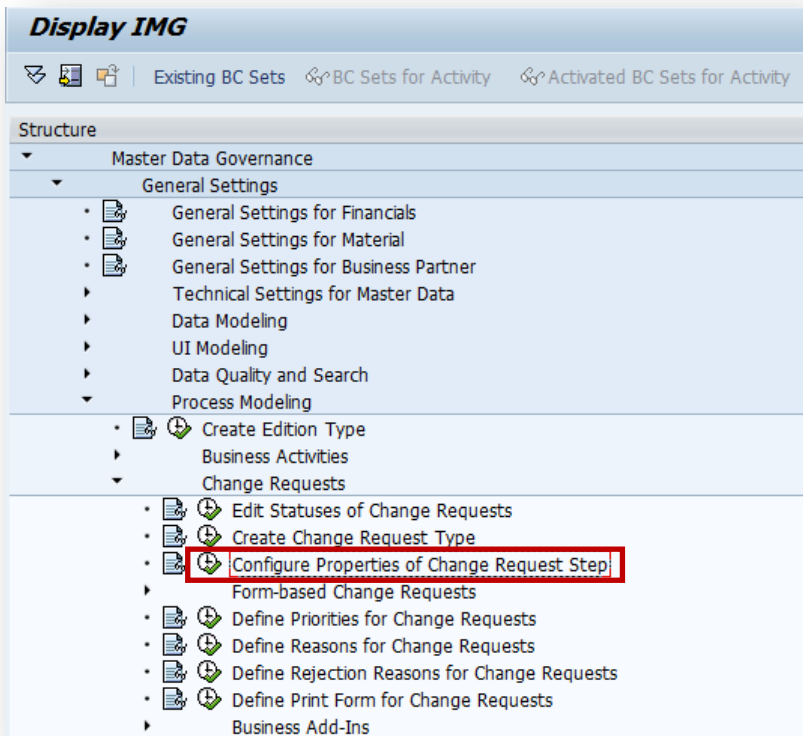
1. Adapt “Change Request Step Properties” for the first change request step
  - a. Turn off Reuse Area Checks
  - b. Turn off required field check for material type
2. Verify your process (for requester and material specialist)

Note: In order to simplify the process for the requester, a different UI (with less attributes) could be used here as well. This is covered in “EIM262 Workflow Design in SAP Master Data Governance”.

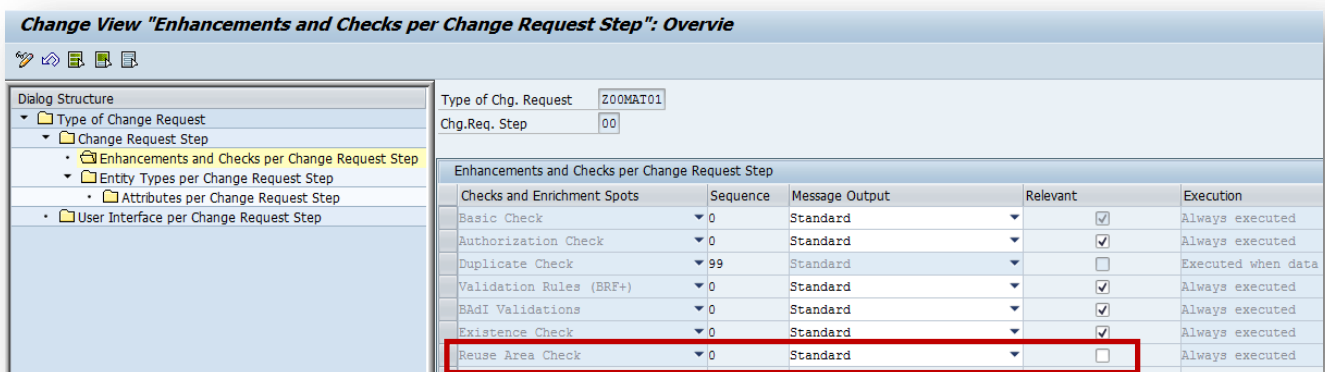


### Exercise 3: Step-by-step Solution

Go to the customizing (MDGIMG - > Master Data Governance-> General Settings-> Process Modeling-> Change Requests -> Configure Properties of Change Request Step).



Select Change Request Type “Z##MAT01”, Step “00” (Processing). Select “**Enhancements and Checks**”. Uncheck the “**Relevant**” checkbox for the Reuse Area Check.



Note: this should never be done for the last step (as the system has to check the consistency of the data before activating the Change Request).

Select “Entity Types per Change Request Step”, Entity Type “MATERIAL”, Attribute “MTART”, Field Properties “No Required Field Check”.

**Change View "Attributes per Change Request Step": Overview**

Dialog Structure

- Type of Change Request
  - Change Request Step
    - Enhancements and Checks per Change Request Step
      - Entity Types per Change Request Step
        - Attributes per Change Request Step
      - User Interface per Change Request Step

Type of Chg. Request: ZOOMAT01  
 Chg. Req. Step: 00  
 Entity Type: MATERIAL

Attribute	Description	Field Properties
BEGRU	Authorization Group	Standard
BISMT	Old Material Number	Standard
EXTWG	External Material Group	Standard
PERTH	Production/Inspection Memo	Standard
GEWEI_MAT	Weight Unit	Standard
GROES	Size/Dimensions	Standard
LABOR	Laboratory/Design Office	Standard
LVORM_MAT	Flag Material for Deletion at Client Level	Standard
MATERIAL	Basic Data	Standard
MATKL	Material Group	Standard
MATNR_EXT	External Long Material Number	Standard
MBSH	Industry Sector	Standard
MEINS	Base Unit of Measure	Standard
MTART	Material Type	No Required Field Check
NORMT	Industry Standard Description (such as ANSI or ISO)	Standard
NTGEW	Net Weight	Standard

Create a Material, choose Change Request Type “Z##MAT01”:

**Material: New**

Continue

Material

Material: MAT00

View

\* Change Request Type: ZOOMAT01

Material Type is no longer a required field.

**Material: New, MAT00** Side Panel

Save Submit Cancel Edit Check

---

**Change Request** Edit

General Notes Attachments

**General Data** **Process Data**

Change Request ID: 344 Status: Changes to Be Executed

\* Description: mat 00 Current Workitem: New Change Request

Priority: Created On/By: 23.08.2012 18:01:20 EIM261-00

Due Date: Changed On/By: 23.08.2012 18:01:27 EIM261-00

Reason:

---

**Basic Data** Edit

**General Data** **Grouping**

\* Material: MAT00 Ext. Material Group:

Base Unit of Measure: Product hierarchy:

Material Type: **Configuration**

Industry Sector: Beverage Cross-plant CM:

Material Group:

Old material number:

Authorization Group:

---

**Design Data** Edit

Lab/Office:

Industry Std Desc.:

Basic material:

Prod./insp. memo:

---

**Descriptions** Edit

Delete

Language Key	Language	Material Description
EN	English	my material 00

HINT: if it does not work immediately, restart the NetWeaver Business Client.



## **EXERCISE 4 –SIMPLIFY THE PROCESS (USE DERIVATIONS)**

Objective of this exercise is to use a derivation to populate attributes depending on the material type.

Perform these steps:

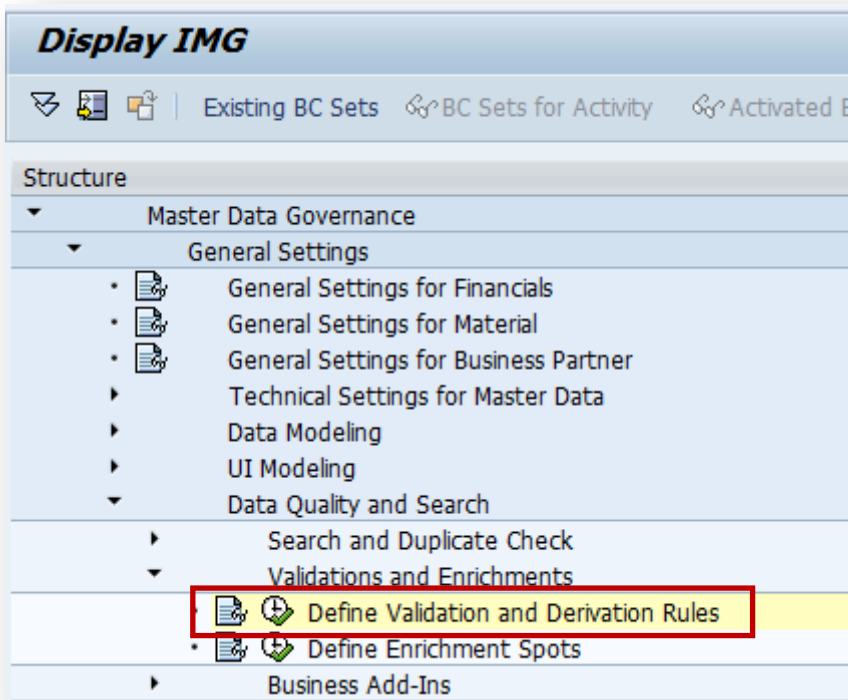
1. Use Derive Trigger Function
2. Create Ruleset
3. Create Rule, checking Material Type and Change Request Type
  - If material type = FGTR (Drinks) and
  - if change request type is Z##\_MAT01
  - set laboratory to "002"

HINT: The change request type is needed to differentiate the participants of this exercise. If you do not use it, everybody will execute your derivation.

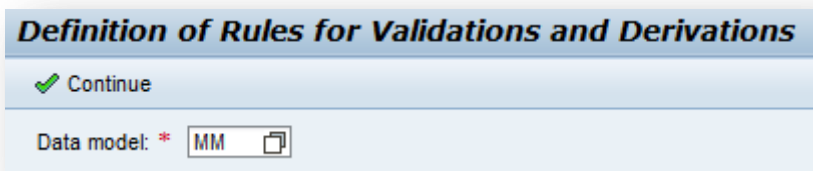


#### Exercise 4: Step-by-step Solution

Go to the customizing (MDGIMG - > Master Data Governance-> General Settings-> Data Quality and Search -> Define Validation and Derivation Rules).



Data Model: "MM"



The “Trigger Function” has been prepared for you already (and will be used by all participants). See appendix for a description how to create a trigger function. It is used to start the execution of derivations for all change requests that use the data model “MM”. Check that is there:

The screenshot displays the Business Rule Framework plus interface. The left pane shows a catalog structure under 'FMDM\_MODEL\_MM' with 'Derive Material' selected. The right pane shows the configuration for the function 'DERIVE\_MATERIAL, Derive Material'.

**Function: DERIVE\_MATERIAL, Derive Material**

Navigation: Back | Display | Check | Save | Activate | Delete | More

**General**

**Detail**

Start Simulation |

Properties | **Signature** | Assigned Rulesets

**Context**

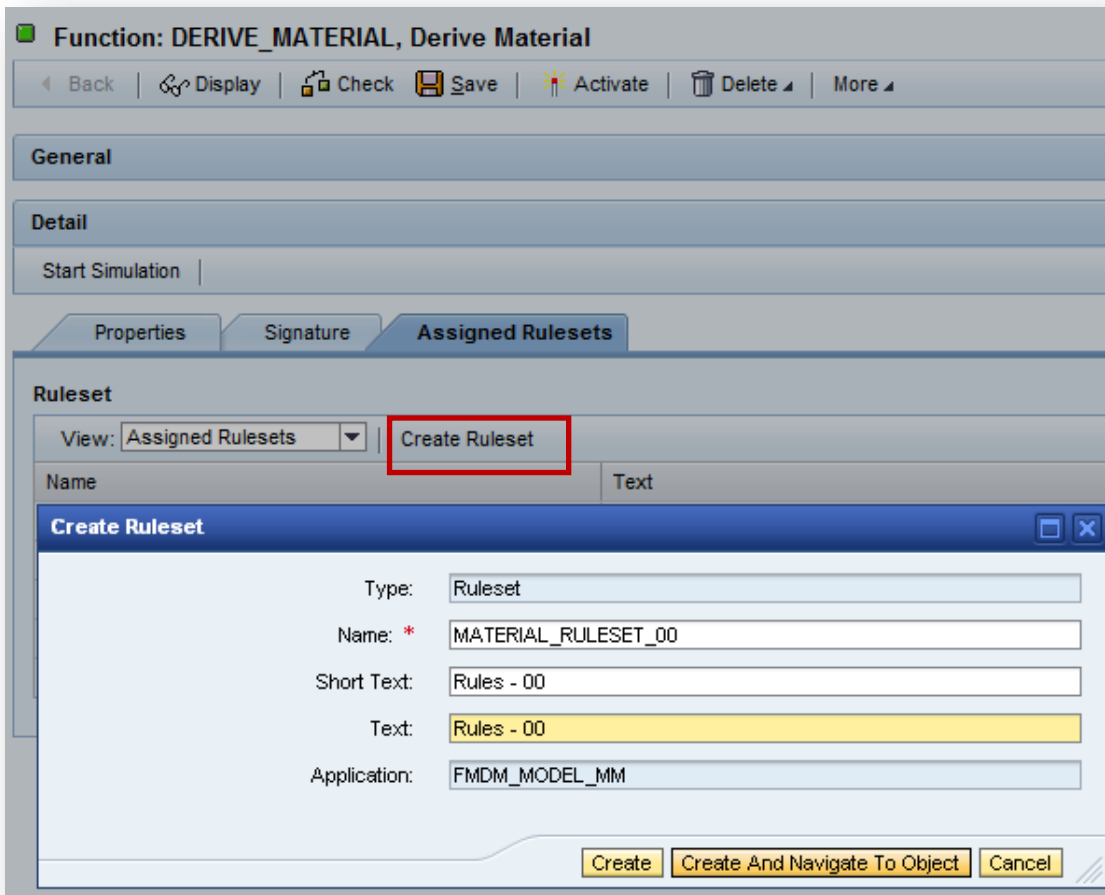
Add Existing Data Object
  Add New Data Object
  Remove
 |

Component Name	Text
▶ <a href="#">MATERIAL</a>	
▪ <a href="#">SAPFMDM_CREQUEST_TYPE</a>	Type

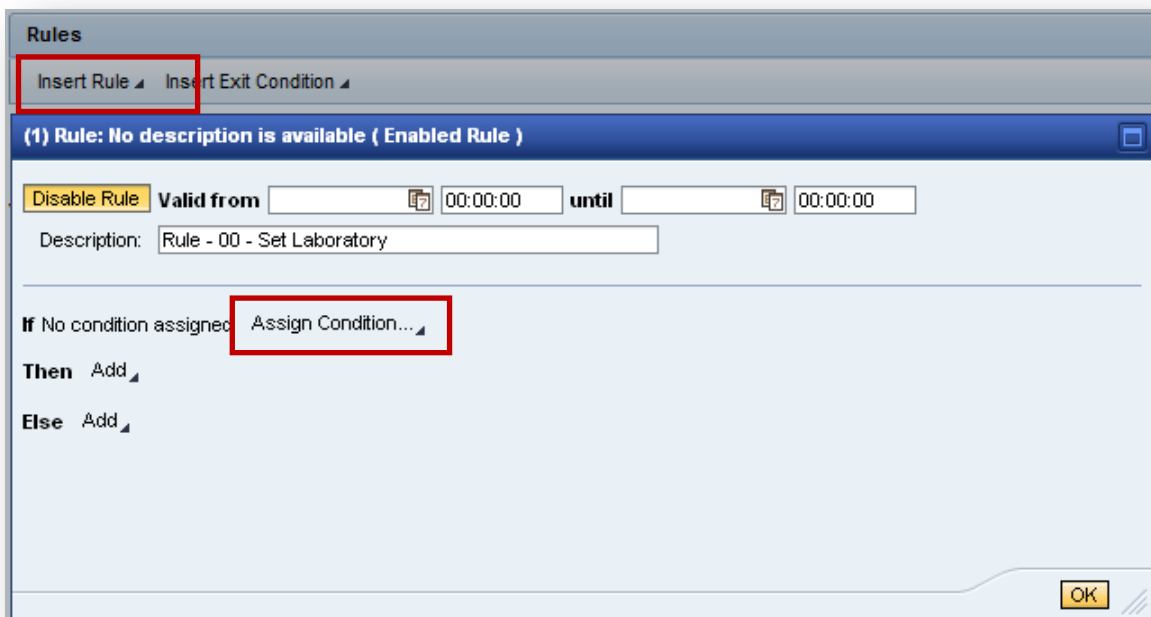
**Result Data Object**

Data Object: [Actions](#)

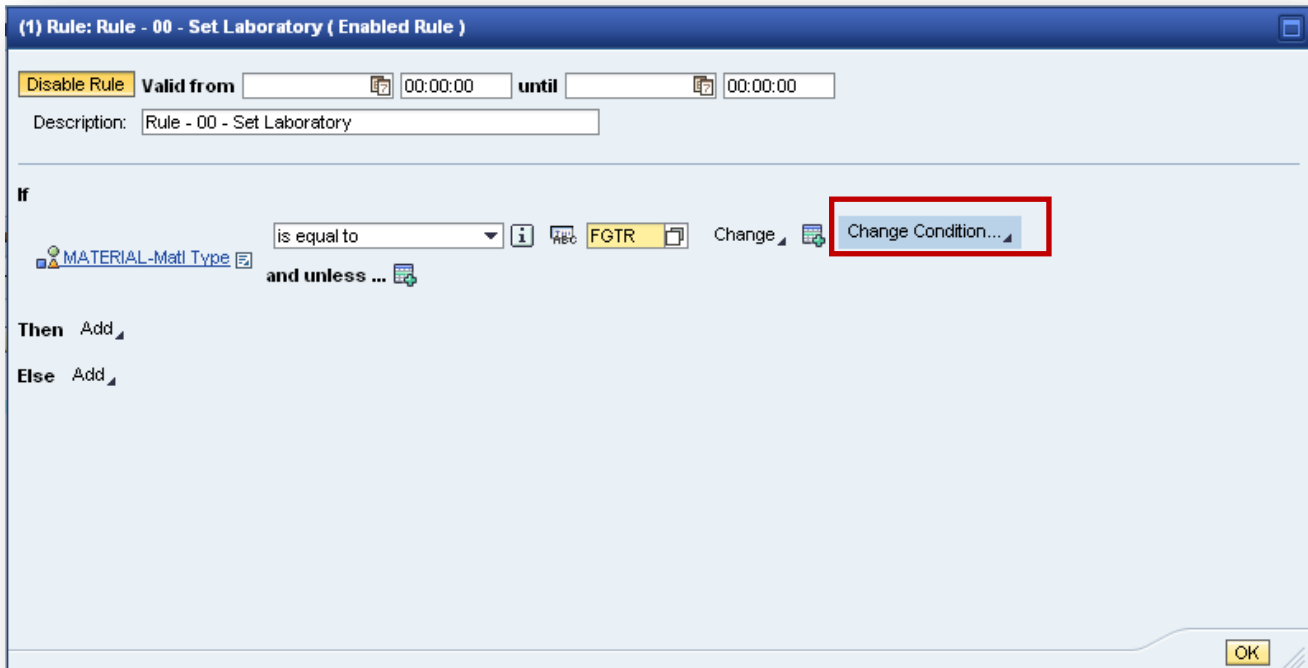
Create a Ruleset in the trigger function:



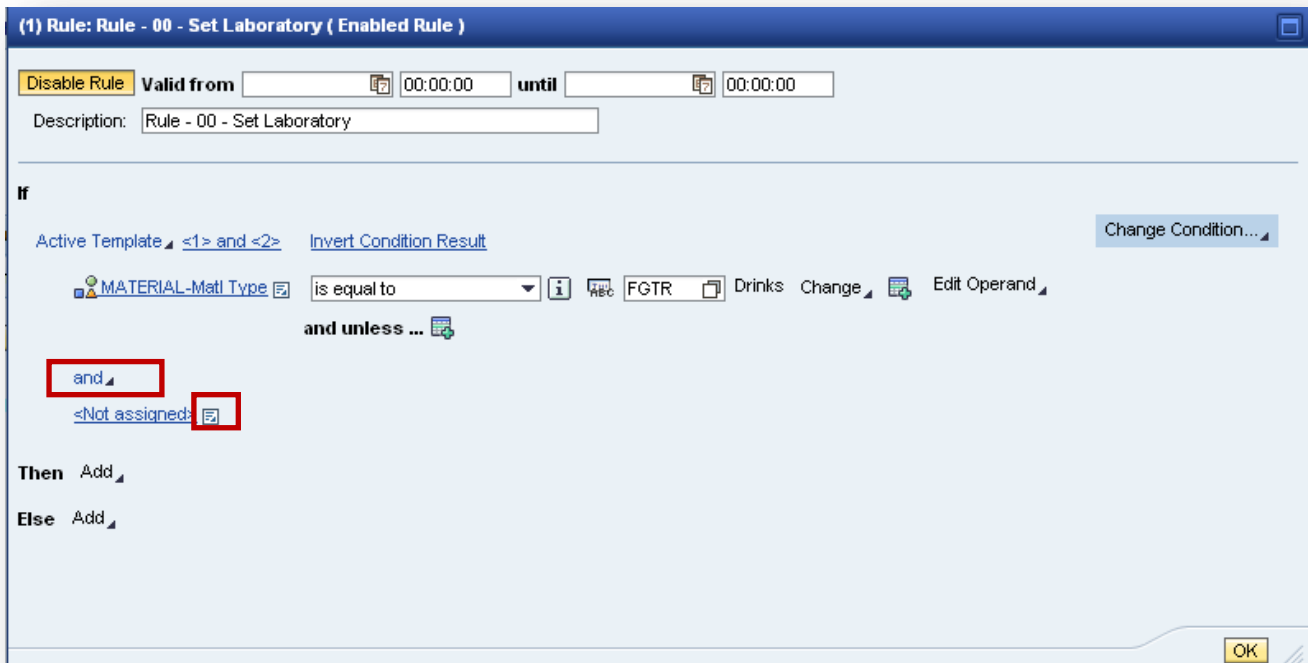
And insert a Rule:



Assign Condition (Use Value Range from Context -> More -> Material -> **MatlType**). And use “FGTR” (Drinks).



Change Condition -> Add more Conditions -> Change operator to “and”.



Use Direct Range from Context. Select **"Type"**. Select Change Request Type **"Z##MAT01"**.

**Context Query** Hide Search Fields

**Search Criteria**

Data Object Type is equal to Any +

Name is equal to \* + -

Text is equal to \* + -

Maximum Number of Results: 200

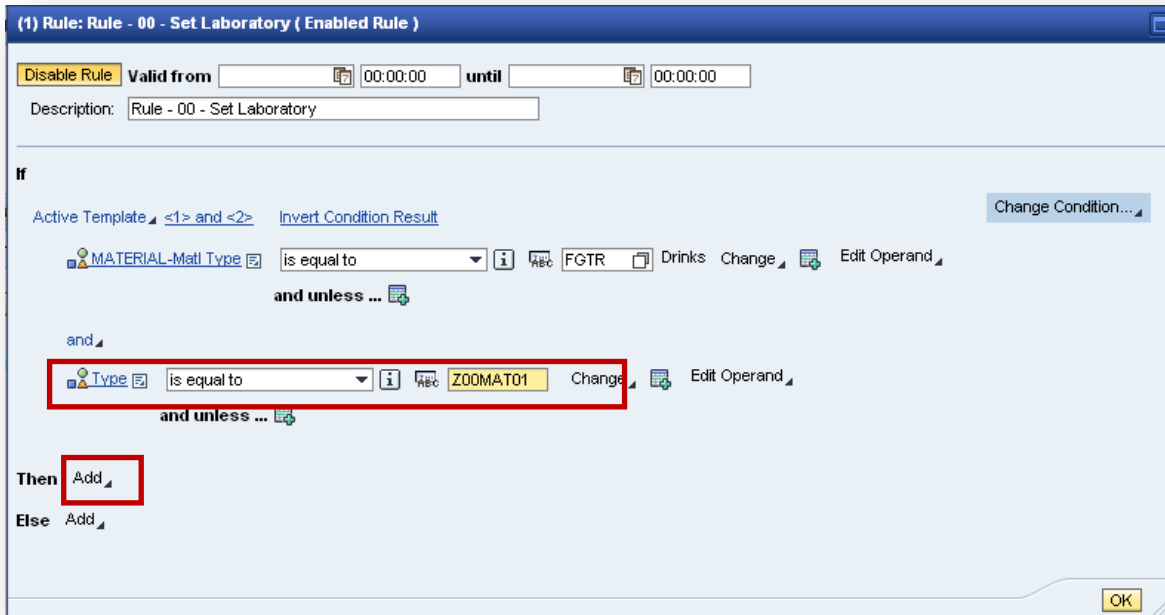
Search Clear Reset

**Result list: 22 results found**

Where Used

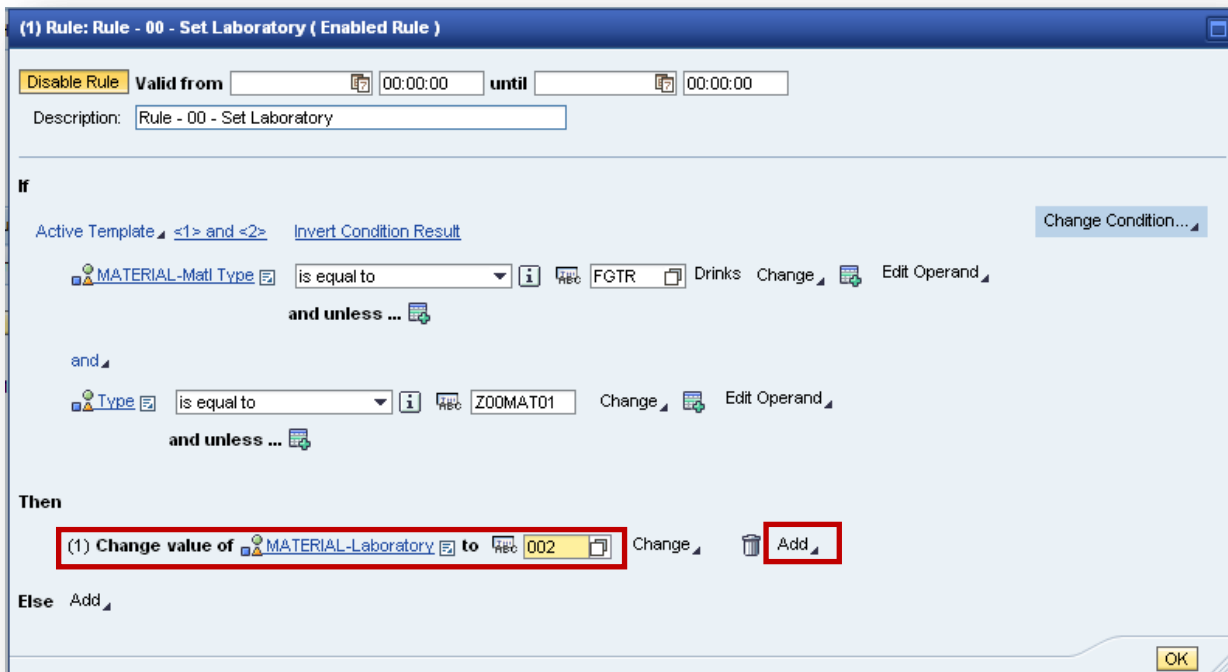
Object	State	Type	Application
▪ Laboratory	■	Text	FMDM_MODEL_MM
▪ Material	■	Text	FMDM_MODEL_MM
▪ Material	■	Text	FMDM_MODEL_MM
▪ Matl Group	■	Text	FMDM_MODEL_MM
▪ Matl Type	■	Text	FMDM_MODEL_MM
▪ Matl no.	■	Text	FMDM_MODEL_MM
▪ Prod.memo	■	Text	FMDM_MODEL_MM
▪ Prod.hier.	■	Text	FMDM_MODEL_MM
▪ Size/dim.	■	Text	FMDM_MODEL_MM
▪ Type	■	Text	FMDM_MODEL_MM

OK Cancel

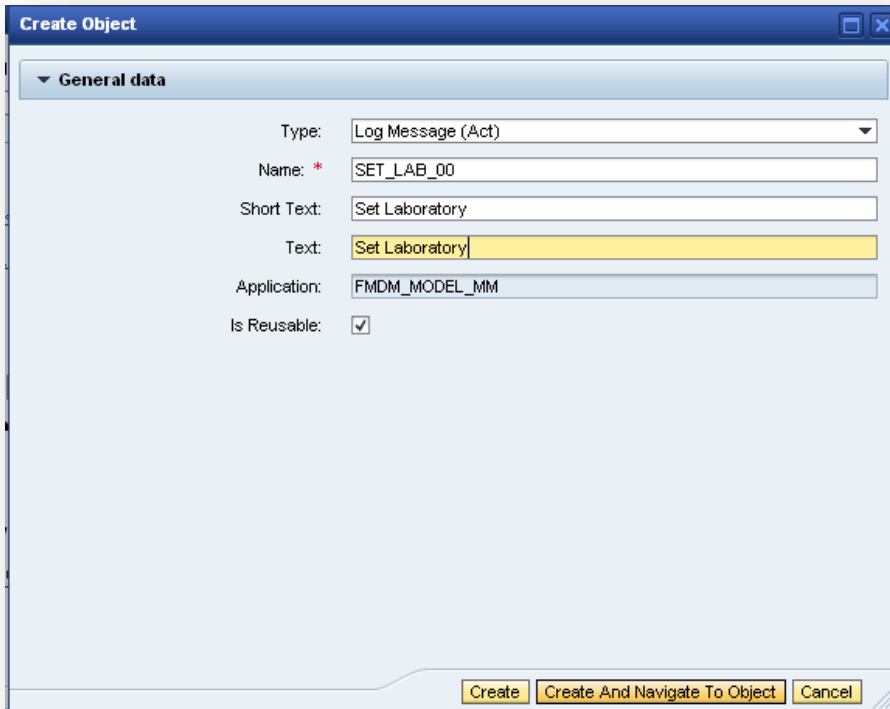


Hint: Make sure that you use **YOUR** change request type here! (Z##MAT01).

Then Add -> Assign Value to Context -> Laboratory



Add -> Perform Action -> Create -> Name "SET\_LAB\_##"



**Create Object**

▼ **General data**

Type: Log Message (Act)

Name: \* SET\_LAB\_00

Short Text: Set Laboratory

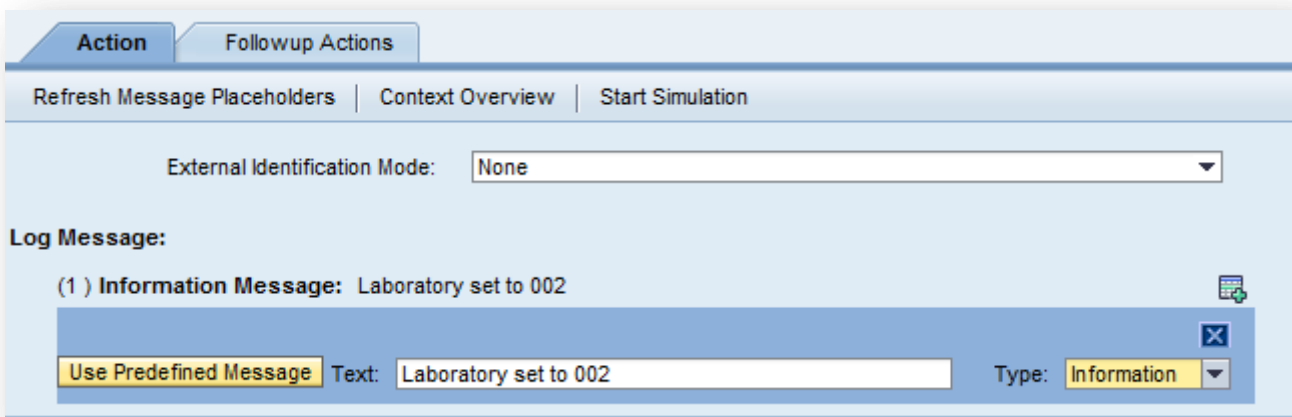
Text: Set Laboratory

Application: FMDM\_MODEL\_MM

Is Reusable:

Create Create And Navigate To Object Cancel

Specify the message:



**Action** Followup Actions

Refresh Message Placeholders | Context Overview | Start Simulation

External Identification Mode: None

**Log Message:**

(1) **Information Message:** Laboratory set to 002

**Use Predefined Message** Text: Laboratory set to 002 Type: Information

You can also add you group number to the message to make sure that you get your own message. Save Rule and Activate if needed.

**Rules**

Insert Rule ▾ Insert Exit Condition ▾

**Disable Rule** (1) Rule: Rule - 00 - Set Laboratory - Unlimited Validity

Valid From / To:  /

Description:

**If**

MATERIAL-Matl Type is equal to FGTR (Drinks)

**and**

Type is equal to Z00MAT01

**Then**

(1) Change value of  MATERIAL-Laboratory to 002 (Laboratory 2)

(2) Perform  Set Laboratory

Activate the Ruleset and dependent objects:

**Ruleset: MATERIAL\_RULESET\_00, Rules - 00**

Back | Display | Check | Save | **Activate** | Delete | More

**General**

**Detail**

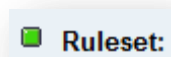
Hide Ruleset Header | Variables | Context Overview

Enabled:

Function: [Derive Material](#)

Precondition: [<Not assigned>](#)

Activated:



Create a material and make sure that your derivation is called.

**Material: New, MAT00**

Save | Activate | Reject | Cancel | Edit | Check | Change Documents | Workflow Log

Laboratory set

Display Message Log

**General** | Notes | Attachments

**General Data**

Change Request ID: 344

Description: mat 00

Priority: [Dropdown]

Due Date: [Date Picker]

Reason: [Dropdown]

**Process Data**

Status: Changes to Be Executed

Current Workitem: Process Change Request 344 (mat 00)

Created On/By: 23.08.2012 18:01:20 | EM261-00

Changed On/By: 23.08.2012 18:01:27 | EM261-00

**Basic Data** | Edit

**General Data**

Material: MAT00

Base Unit of Measure: [Dropdown]

Material Type: **FGTR** | Drinks

Industry Sector: B | Beverage

Material Group: [Dropdown]

Old material number: [Text]

Authorization Group: [Text]

**Grouping**

Ext. Material Group: [Dropdown]

Product hierarchy: [Dropdown]

**Configuration**

Cross-plant CM: [Dropdown]

**Design Data** | Edit

Lab/Office: 002 | Laboratory 2

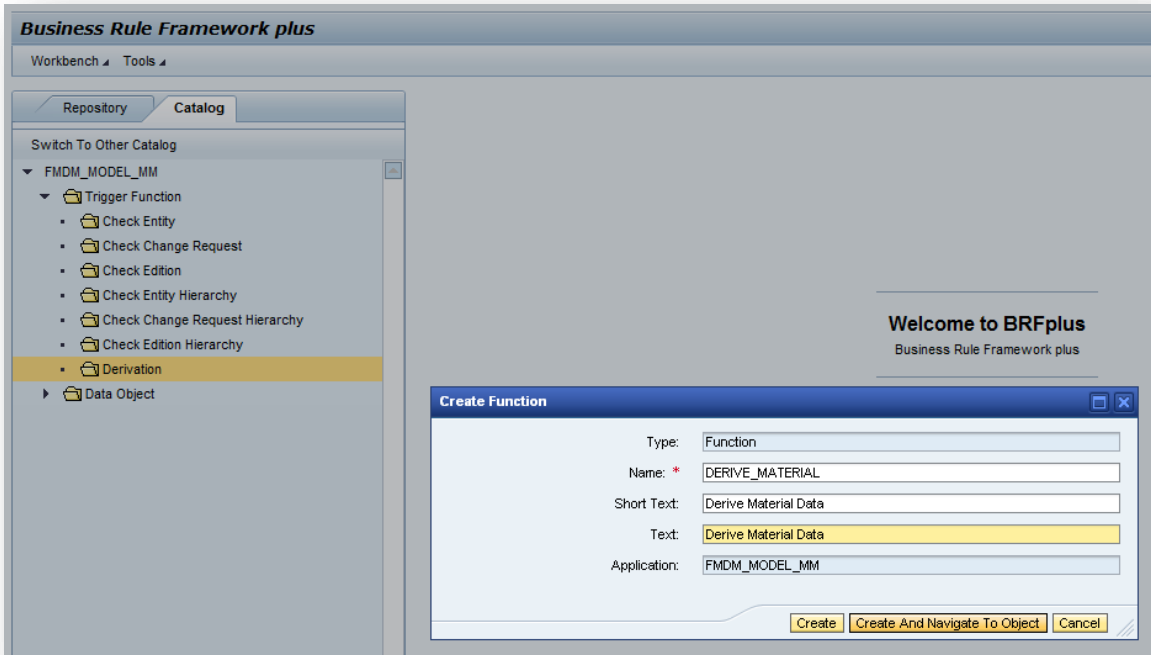
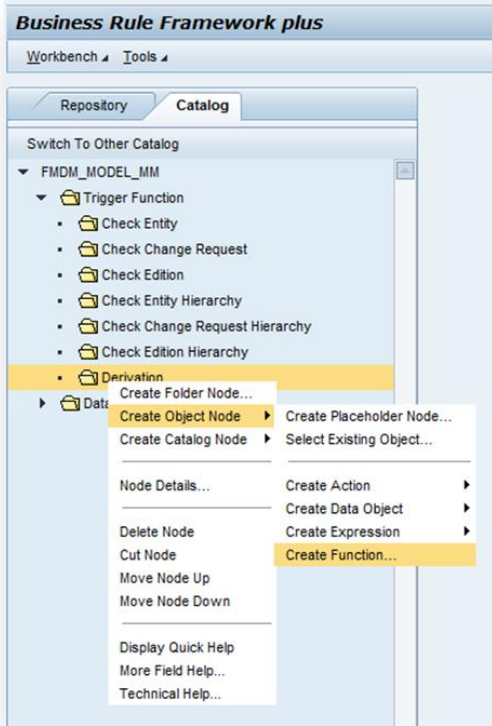
Industry Std Desc.: [Text]

Basic material: [Dropdown]

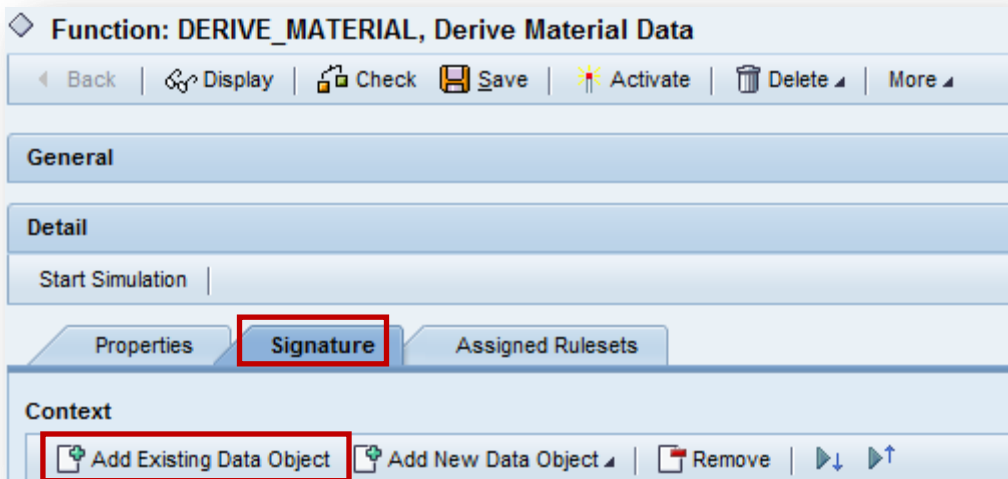
Prod./Insp. memo: [Text]

#### Exercise 4: Appendix – How to create a Trigger Function (has been prepared for the exercise)

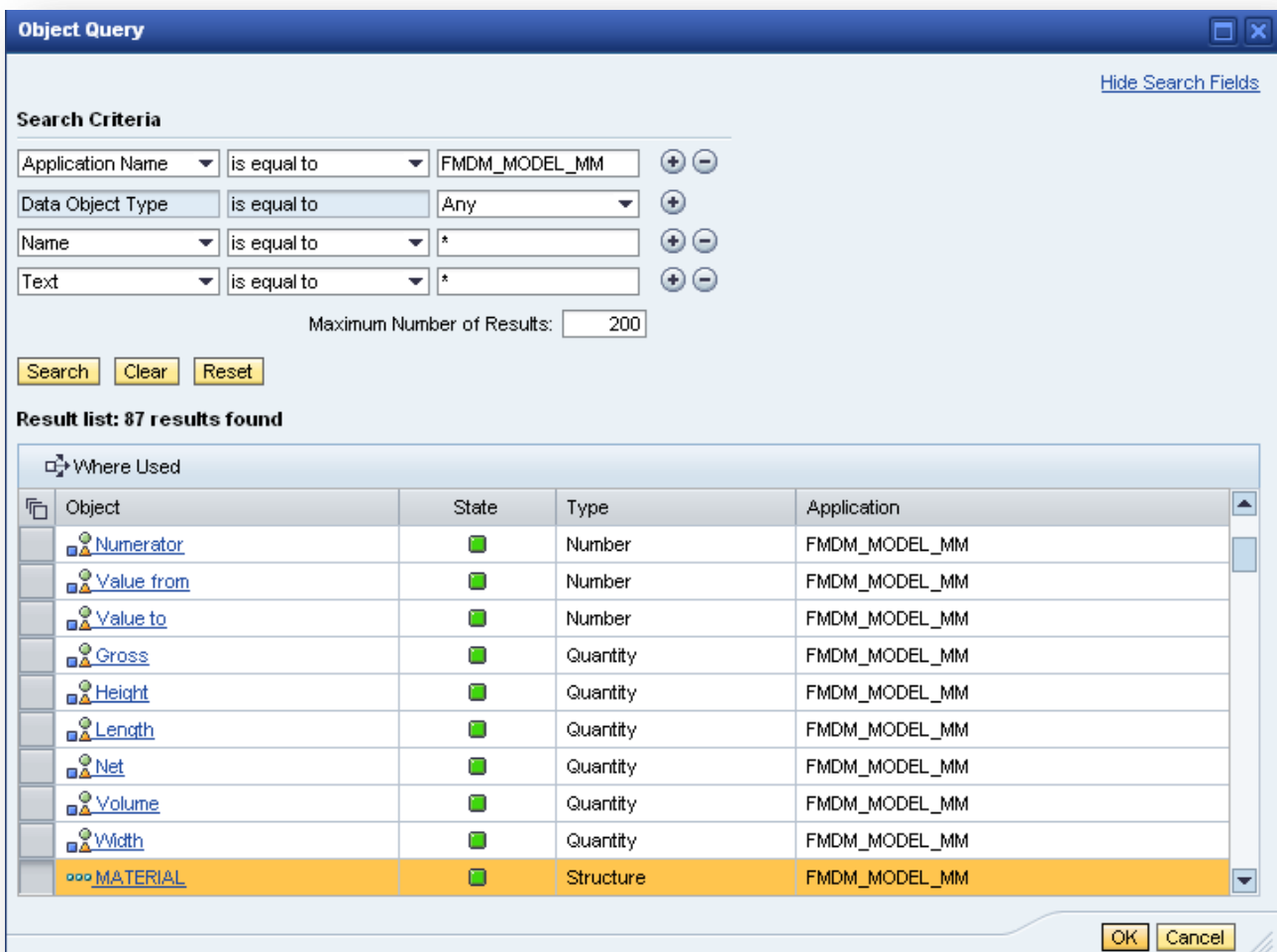
Trigger Function -> Derivation -> Create Object Node. This function will be called from the Change Request if the data entity is "MATERIAL" (Naming needs to follow the rule "DERIVE\_<Entity>").



Interface (Signature) has been defined:



Material attributes are part of the interface



and the Change Request Type is part of the interface as well.

**Object Query**

**Search Criteria**

Application Name is equal to FMDM\_MODEL\_MM + -

Data Object Type is equal to Any +

Name is equal to \* + -

Text is equal to type\* + -

Maximum Number of Results: 200

Search Clear Reset

**Result list: 1 results found**

Where Used

Object	State	Type	Application
Type	■	Text	FMDM_MODEL_MM

**Business Rule Framework plus**

Workbench Tools

Repository Catalog

Switch To Other Catalog

- FMDM\_MODEL\_MM
  - Trigger Function
    - Check Entity
    - Check Change Request
    - Check Edition
    - Check Entity Hierarchy
    - Check Change Request Hierarchy
    - Check Edition Hierarchy
    - Derivation
      - Derive Material
      - Derive Material Data
    - Data Object

**Function: DERIVE\_MATERIAL, Derive Material**

Back Display Check Save Activate Delete More

**General**

**Detail**

Start Simulation

Properties Signature Assigned Rulesets

**Context**

Add Existing Data Object Add New Data Object Remove

Component Name	Type
MATERIAL	Text
SAPFMDM_CREQUEST_TYPE	Type

**Result Data Object**

Data Object: Actions

The function also has been activated (which has to be done for each BRF plus object).

© 2012 by SAP AG. All rights reserved.

SAP and the SAP logo are registered trademarks of SAP AG in Germany and other countries. Business Objects and the Business Objects logo are trademarks or registered trademarks of Business Objects Software Ltd. Business Objects is an SAP company. Sybase and the Sybase logo are registered trademarks of Sybase Inc. Sybase is an SAP company. Crossgate is a registered trademark of Crossgate AG in Germany and other countries. Crossgate is an SAP company.



The Best-Run Businesses Run SAP™