

Syniti

8

Rapid Data Governance

User Guide

Version 2.13



SAP[®] Endorsed App
Premium Certified



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Introduction to RDG

Welcome to Rapid Data Governance

Rapid Data Governance (RDG) is an SAP UI5 Cloud-based application that builds on SAP Business Technology Platform to automate MDG customizing and enhancement through standard APIs. It provides an elegant UI and sensible logic to help users to perform all necessary tasks for a typical SAP MDG implementation. It can also help to empower the business to maintain a deployed SAP MDG solution without the comprehensive technical background.

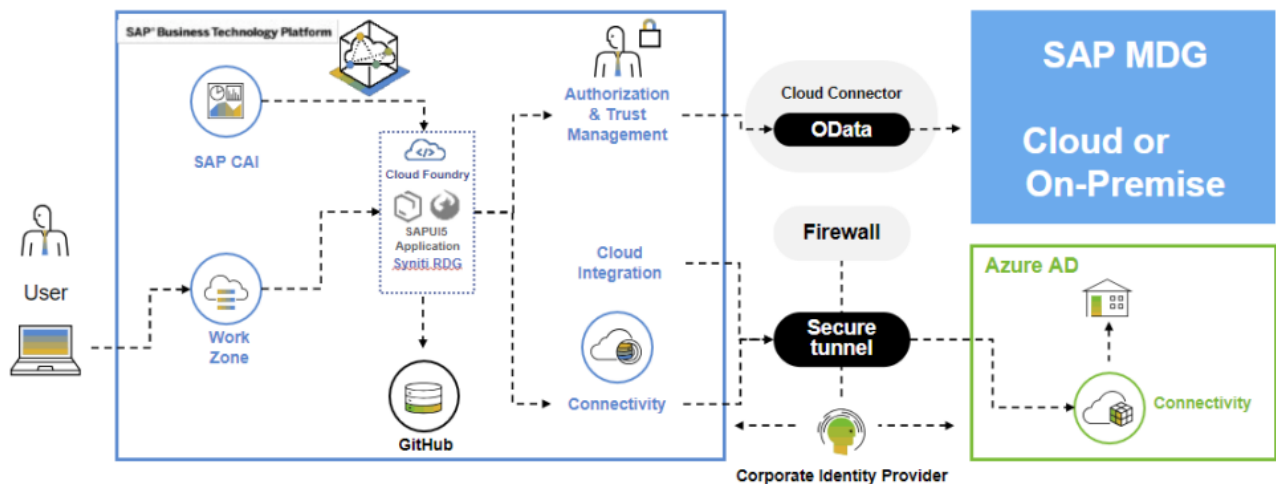
Through intuitive graphical representation of the data model, business rules and workflow RDG increases the adoptability and usability of SAP MDG through an elegant UI. RDG can complement and fast track MDG reducing the cost of implementation by at least 30%.

About this Guide

This guide contains two kinds of information:

- An overview that helps you understand RDG and how it works.
- Step by step information that explains the process and how to perform all necessary tasks of a typical SAP MDG implementation in the RDG application.

RDG Architecture



Prerequisites

- HTML5/SAPUI5 Application running on SAP Cloud Platform.
- SAP MDG installed and activated.
- SAP Cloud Connector installed and functioning connection to SAP MDG.

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Initial Setup and Configuration

RDG runs as a website on the client's network. Authorized users on the client's domain have access to tools directly or the tools can be accessed remotely from a VPN connection. No other client software installations are required apart from a supported standard web browser such as Google Chrome, Mozilla Firefox or Microsoft Edge. Your local system administrator will provide you with the correct links, user ID and password to access RDG. Prerequisite conditions need to be fulfilled.

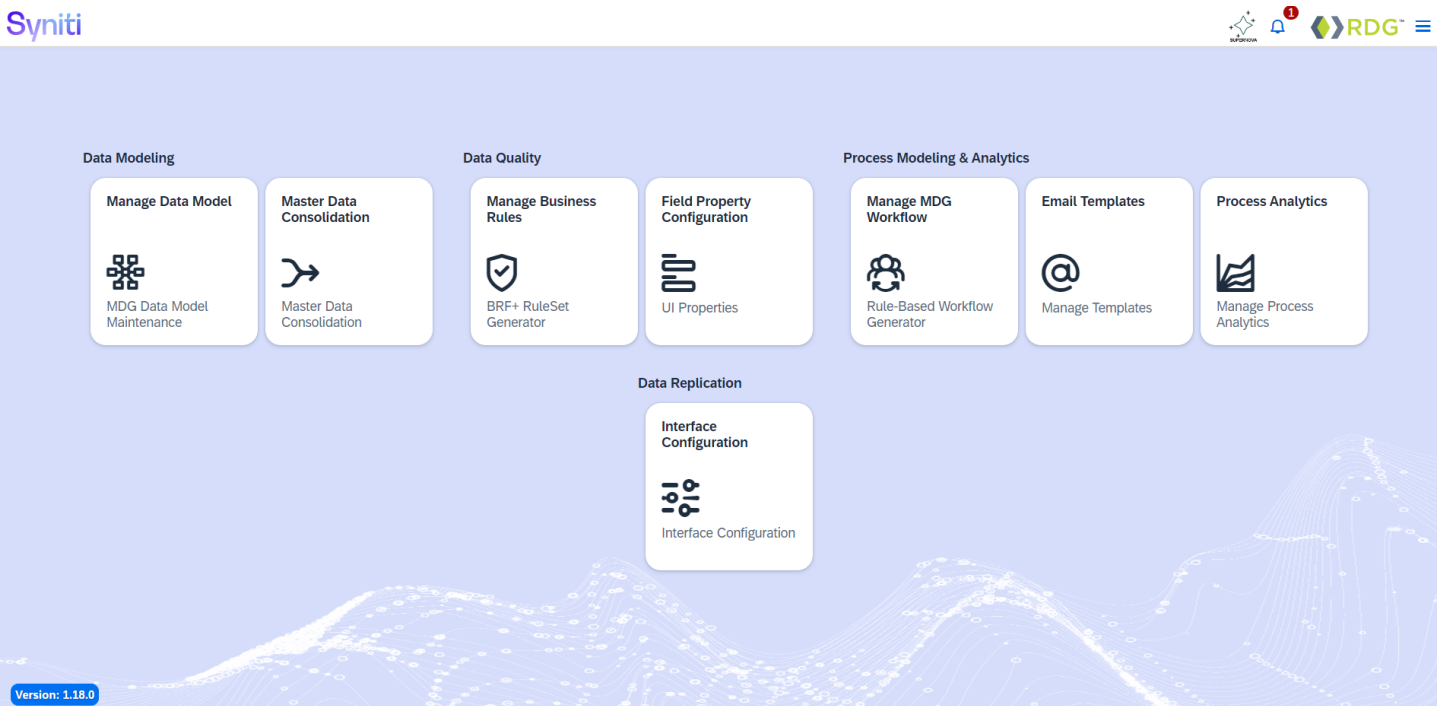
Licensing of This Product

The RDG administrative team will provide the license key file to be imported into your connecting MDG system.

RDG User Interface

Home Screen

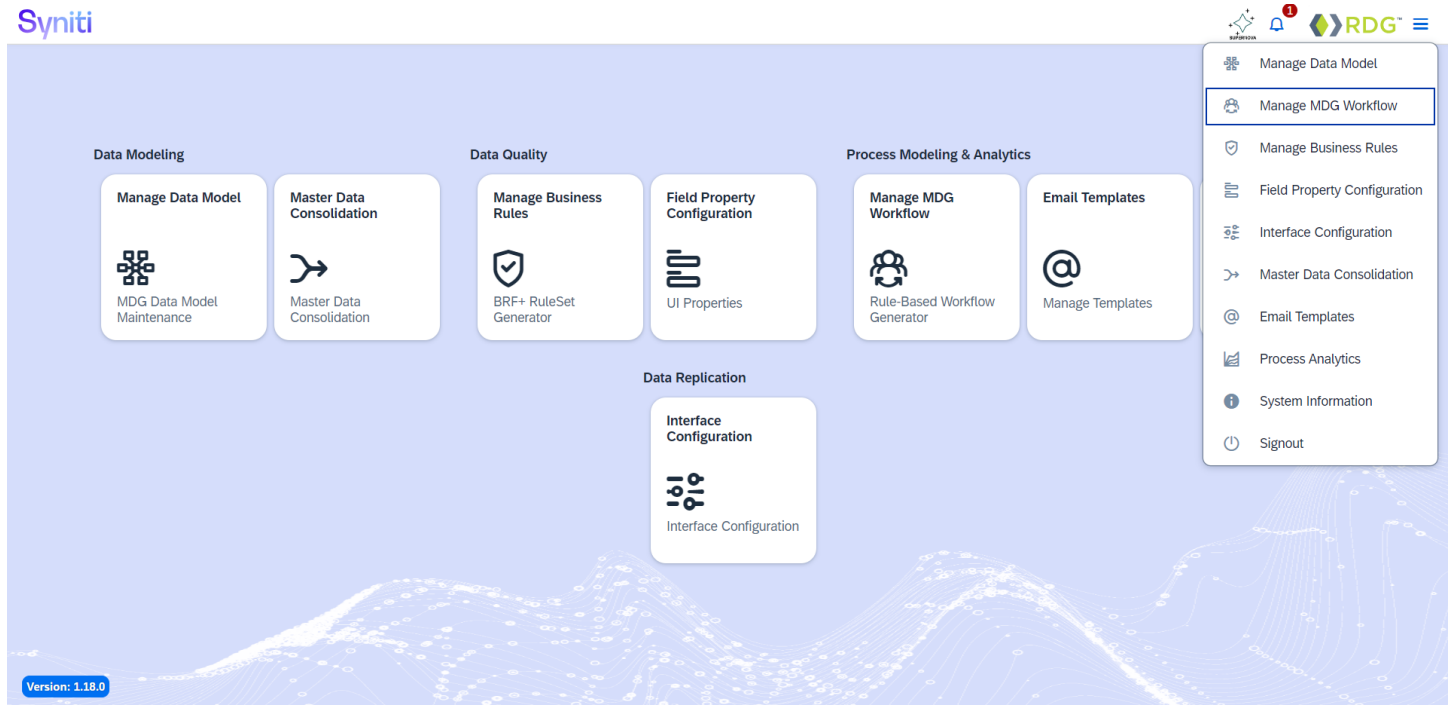
After logging into RDG, the user will see the RDG Home Screen as shown below. From the home screen, navigate to any of the features by using the tiles in the center of the screen or the menu in the top right corner.






Menu Structure and Navigation













The Menu Structure includes different functional areas, System Information, and the sign-out option.

Syniti



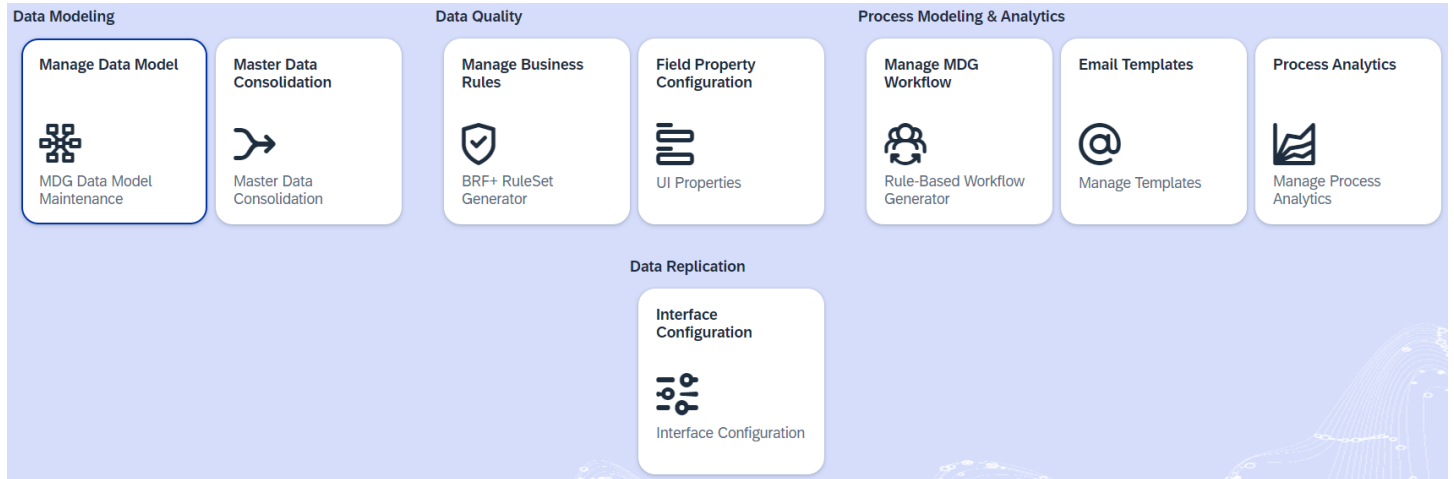
RDG Navigation

Icon	Name	Use
	Home	Go back to the Home Screen from any other screen in the application
	RDG Support Assistant	Use the RDG Support Assistant which will provide access to user guide information and the support site.
	Back	The back button helps to navigate to the previous screen or exit from the current screen






	<p>Menu</p>	<p>List of all areas of RDG to select from, view system information, or sign out.</p> <ul style="list-style-type: none">  Manage Data Model <li style="border: 1px solid black; padding: 2px;"> Manage MDG Workflow  Manage Business Rules  Field Property Configuration  Interface Configuration  Master Data Consolidation  Email Templates  Process Analytics  System Information  Signout
	<p>Add Custom Data Model Add Entity Add Change Request Type Add Interface Add Email Template</p>	<p>The + icon will open the screen to create a new data model, entity, change request type, interface, or email template, depending on which feature is being used</p>








Manage Data Model

RDG utilizes APIs to automate many steps that are required to extend a data model. RDG automates the entire process to create domain and elements through the executing of APIs. RDG derives all the necessary relationships when extending the data model with a custom entity and provides a relational model UI to visualize the data model to facilitate maintenance. With RDG you can accomplish the extension with a wizard-based guide on a visualized view of the data model. After Data Model extension RDG enables SMT mapping to map new entities or attributes from the backend tables to the UI.




Data Model Screen Buttons

Icon	Name	Use
	Add Custom Data Model Add Entity	Create a new custom data model, entity, or attribute, depending on which feature is being used.
	Edit Data Model	Take the data model out of view mode and into edit mode. While the data model is in edit mode, other users may not edit it.
	Cancel Data Model Changes	Cancel any un-activated data model changes, Exit edit mode so other users can edit the data model.
	Show Messages	Display any messages about the status of the data model and progress of any changes
	Refresh	Refresh the data model screen. If changes are completed, any success or error messages will be displayed after refresh.

	Check Data model	Check for any errors or warnings in the data model.
	Activate Data Model	Activate the data model after changes have been made
	Edit	Edits the selected entity or attribute. Standard entities and attributes are not editable.
	Create SMT	Initiates process to map from source table to target UI after activation of an attribute
	Undo Delete	Undo the delete action of an entity or attribute before activating the data model
	Notification Bell	Indicates notifications have been received about the status of data model activation and SMT mapping. Available on applications running on cloud platforms only.
	View Entity/Attribute	View details for entity/attribute selected

Create Custom Data Model

- From the home screen, select 'Manage Data Model' and then click the  icon
- Enter information:
 - Data Model – 2-character name beginning with a 'Z'
 - Description – Description of the data model
 - Prefix/Namespace – Add the prefix (optional)
 - Package – Select a package from the drop-down





	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Data Model	Descriptions	Active Area	Prefix / Namespace	Package	User Name	Changed on	Active Version
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ZA	Bank Master	MDG		Z001 - Customer development class		2/17/2023, 3:18:29 PM	

- Select to save and activate.
- Select Transport. Successful message should appear as shown.

Data Model

ZA Data Model has been saved and activated

Create Type 1 Entity

1. Highlight the Data Model you want to extend and select Show Entities .
2. Click Edit  to put the data model in edit mode. Other users will be locked from editing the data model while you have the data model in edit mode. The lock is released when changes are activated or you click Cancel Changes  to remove the data model from edit mode.
3. Expand the data model and highlight a row in the data model tree where your new entity will be created.
4. Select Add Entity  Enter Transport Request if prompted.



5. Select the Entity type radio button in the Entity Details screen and select next [Step](#).

6. Enter entity details. This example shows creation of a type 1 entity. Entity details will vary based on the type of entity being created.
 - Entity Name – Name of entity
 - Description – Description of the entity (recommended but not required)
 - Data Element
 - Package – Select a package from the drop-down

Additional fields are defaulted, but some may still be changed from default values.

- Storage / Use Type – Changeable via CR (for all Type 1 entities) and disabled from further selection.
- Is Entity Key – Type 1 entity is the head entity and disabled from further selection.
- Validity/Entity – No Edition, applicable for Finance domain and data models only
- Key Assignment – has a default value that can be changed
- Is Hierarchy Type – has a default value that can be changed
- Validity/Hierarchy – has a default value that can be changed

7. Select next **Step** to enter any optional details.

Entity Details

1 Select Type | 2 Type 1 Entity | **3 Type 1 Entity Additio... (Optional)** | 4 Key Attribute | 5 Key Attribute Additional (Optional) | 6 Attribute | 7 Attribute Additional (Optional)

3. Type 1 Entity Additional

Language-Dep Texts

Long Text: Length: Medium Text: Length: Short Text: Length:

Attachments

Sets

Search Help

Src. Field Short Text Src. Field Medium Text Src. Field Long Text

More Information

Temporary Keys Active Area Deletion Description Structure / Table Field

Struct. X-Flds

Step 4

8. Select next **Step** to add the Key Attribute. Choose a data element from the list, or enter a custom name to create a new custom data element.

Entity Details

1 Select Type | 2 Type 1 Entity | 3 Type 1 Entity Additio... (Optional) | **4 Key Attribute** | 5 Key Attribute Additional (Optional) | 6 Attribute | 7 Attribute Additional (Optional)

4. Key Attribute

Entity Type

Attribute *

Description

Key Field

Data Element *

* Denotes Required Field

Step 5

9. Select next **Step** to add any optional details for the Key Attribute.

Entity Details CONCENTO RDG

1 Select Type — 2 Type 1 Entity — 3 Type 1 Entity Additio... (Optional) — 4 Key Attribute — 5 Key Attribute Additio... (Optional) — 6 Attribute — 7 Attribute Additional (Optional)

5. Key Attribute Additional

Attribute ZKEYATTR	Currency/UOM Field Enter Currency/UOM...	Required Entry Field <input type="checkbox"/>	Structure / Table Enter Structure/Table...	Field Enter Field...	No Existence <input type="checkbox"/>
Reuse Table	Reuse Field	Generated <input type="checkbox"/>	Search Help Enter Search Help...		

Step 6

10. Select next **Step** to add the Attribute.

Entity Details CONCENTO RDG

1 Select Type — 2 Type 1 Entity — 3 Type 1 Entity Additio... (Optional) — 4 Key Attribute — 5 Key Attribute Additio... (Optional) — 6 Attribute — 7 Attribute Additional (Optional)

6. Attribute

Entity Name ZDEMO	Attribute* ZATTR	Description DEMONSTRATION	Key Field <input type="checkbox"/>	Data Element* DATE1	* Denotes Required Field
----------------------	---------------------	------------------------------	---------------------------------------	------------------------	--------------------------

Step 7

11. Select next **Step** to add any optional details for the Attribute.

Entity Details CONCENTO RDG

1 Select Type — 2 Type 1 Entity — 3 Type 1 Entity Additio... (Optional) — 4 Key Attribute — 5 Key Attribute Additio... (Optional) — 6 Attribute — 7 Attribute Additio... (Optional)

7. Attribute Additional

Attribute ZATTR	Currency/UOM Field Enter Currency/UOM...	Required Entry Field <input type="checkbox"/>	Structure / Table Enter Structure/Table...	Field Enter Field...	No Existence <input type="checkbox"/>
Reuse Table Enter Reuse Table...	Reuse Field Enter Reuse Field...	Generated <input type="checkbox"/>	Search Help Enter Search Help...		

12. Click Insert.

13. Click the Check Data Model button.

Data Model Entity Tree CONCENTO RDG

Search Entity/Attribute

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action	
MM	Material		✓				
> ZDEMO			✓			NEW	
> MKALBASIC			✓				
> MATERIAL			✓				
> MATCHGMNG			✓				
> DRADBASIC			✓				



14. If there are no errors, click the Activate Data Model button.

CONCENTO RDG

Data Model Entity Tree

Search Entity/Attribute Search here

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action	
MM	Material		✓				
> ZDEMO			✓			NEW	🗑️
> MKALBASIC			✓				🗑️
> MATERIAL			✓				🗑️
> MATCHMNG			✓				🗑️
> DRADBASIC			✓				🗑️

15. Activation may take a few minutes. Click Refresh  to get the status or click Show Messages .



Begin typing in input boxes to see options for tables and fields when creating entities or attributes.

3. Attribute Additional

Attribute: ZATTR1

No Existence

Required Entry Field

Generated

Currency/UOM Field:

Currency/UOM Table:

Reuse Table:

Reuse Field:



Structure / Table:

- B000
- B001
- B002
- B005
- B006
- B007
- B008
- B009
- B010
- B011

Field:









Create Type 4 (Child) Entity

A type 4 entity can be created as a child entity of a type 1 entity or another type 4 entity.

1. Click Edit  to put the data model in edit mode. Other users will be locked from editing the data model while you have the data model in edit mode. The lock is released when changes are activated or you click Cancel Changes  to remove the data model from edit mode.
2. Expand the data model and highlight a row in the data model tree where your new entity will be created.

[Data Model Entity Tree](#) CONCENTO RDG

Search Entity/Attribute

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action
MM	Material		✓			
> MKALBASIC			✓			
> MATERIAL			✓			
> MATCHGMNG			✓			
MATCHGMNG	Change Management	Entity Type Itself		MDG_BS_MAT_CRNO		
MATERIAL	Material	Leading Entity T...		MATNR		
ECOCHGMNG	Change Number	Attribute		MDG_BS_MAT_CHGMNG_AENNR	CHGMNGNO	
REVCHGMNG	Revision Level	Attribute		CC_REVLV	REVLV	
> DRADBASIC			✓			

3. Select Add Entity  Enter Transport Request if prompted.



4. Select the Type 4 Entity radio button in the Entity Details screen and select next Step.

[Entity Details](#)

1 Select Type

1. Select Type

Type 1 Entity

Type 4 Entity

Referencing Entity

Qualifying Entity

Leading Entity

Attribute

Step 2

5. RDG automatically populates the following fields according to the properties of a Type 4 Entity
 - Storage/Use Type – Changeable via Other Entity Type
 - Is Entity Key – Child Entity
 - Key Assignment – Key Cannot Be Changed

Enter required information

- Entity Name – Name of entity

- Description – Description of the entity
- Package – Select a package
- Field Cardinality – if no cardinality is selected, the entity will be given cardinality 1:N

< Entity Details CONCENTO RDG

1 Select Type 2 **Type 4 Entity** 3 Type 4 Entity Additional (Optional) 4 Qualifying Entity 5 Qualifying Entity Additional (Optional)

2. Type 4 Entity

Parent Entity * Denotes Required Field

Parent Entity Name
MATCHGMNG

Entity Details

Entity Name*	Description	Storage/Use Type*	Is Entity Key*	Validity/Entity	Key Assignment
ZENT_T4	ENTITY TYPE 4 EXAMPLE	Changeable via Other Entity Ty...	Child Entity	No Edition	Key Cannot Be Changed; No I...
Data Element	Package*	Is Hierarchy Type	Validity / Hierarchy	Field Cardinality	
	ZDEMO - Demo Package	No	No Edition		

Step 3

6. Click next **Step** to add additional information (optional).

< Entity Details CONCENTO RDG

1 Select Type 2 Type 4 Entity 3 **Type 4 Entity Additional (Optional)** 4 Qualifying Entity 5 Qualifying Entity Additional (Optional)

3. Type 4 Entity Additional

Language-Dep Texts

Long Text: Length: Medium Text: Length: Short Text: Length:

Attachments

Sets

Search Help

Src. Field Short Text Src. Field Medium Text Src. Field Long Text

More Information

Temporary Keys	Active Area	Deletion	Description	Structure / Table	Field
<input type="text"/>			ENTITY TYPE 4 EXAMPLE	<input type="text"/>	<input type="text"/>

Struct. X-Flds

Step 4

- Click next **Step** to add a qualifying entity (not required if cardinality is 1:1). Select an entity name from the list or enter a new name to add a custom qualifying entity.

Entity Details

CONCENTO RDG

1 Select Type 2 Type 4 Entity 3 Type 4 Entity Additional (Optional) 4 **Qualifying Entity** 5 Qualifying Entity Additional (Optional)

4. Qualifying Entity

Parent Entity * Denotes Required Field

Parent Entity Name
ZENT_T4

Entity Details

Entity Name *	Description	Storage/Use Type *	Is Entity Key *	Validity/Entity	Key Assignment
LANGUCODE	Language Code	Not Changeable via MDG; No ...	Qualifying Entity	No Edition	Key Cannot Be Changed; No I...
Data Element	Is Hierarchy Type	Validity / Hierarchy	Field Cardinality		
SPRAST	No	No Edition			

Step 5

- Click next **Step** to add additional information for the qualifying entity (optional).

Entity Details

CONCENTO RDG

1 Select Type 2 Type 4 Entity 3 Type 4 Entity Additional (Optional) 4 Qualifying Entity 5 **Qualifying Entity Additional (Optional)** 6 Attribute 7 Attribute Additional (Optional)

5. Qualifying Entity Additional

Language-Dep Texts

Long Text: Length: Medium Text: Length: Short Text: Length:

Attachments

Sets

Search Help

Src. Field Short Text Src. Field Medium Text Src. Field Long Text

More Information

Temporary Keys	Active Area	Deletion	Description	Structure / Table	Field
			Language Code		
Struct. X-Flds	Reuse Table	Reuse Field			

Step 6

- Click next **Step** to add the attribute.

Entity Details

CONCENTO RDG

1 Select Type 2 Type 4 Entity 3 Type 4 Entity Additional (Optional) 4 Qualifying Entity 5 Qualifying Entity Additional (Optional) 6 **Attribute** 7 Attribute Additional (Optional)

6. Attribute

Entity Name	Attribute *	Description	Key Field	Data Element *
ZENT_T4	ZATTR	DEMONSTRATION	<input type="checkbox"/>	CHAR10

Step 7

10. Click next **Step** to add additional information for the attribute (optional).



The screenshot shows the 'Entity Details' form in the CONCENTO RDG interface. The breadcrumb trail at the top indicates the current step is 7, 'Attribute Additional (Optional)'. The form is titled '7. Attribute Additional' and contains several input fields and checkboxes:

Attribute	Currency/UOM Field	Required Entry Field	Structure / Table	Field	No Existence
ZATTR	<input data-bbox="391 443 574 468" type="text" value="Enter Currency/UOM..."/>	<input type="checkbox"/>	<input data-bbox="813 443 997 468" type="text" value="Enter Structure/Table..."/>	<input data-bbox="1019 443 1203 468" type="text" value="Enter Field..."/>	<input type="checkbox"/>
<input data-bbox="186 489 370 514" type="text" value="Enter Reuse Table..."/>	<input data-bbox="391 489 574 514" type="text" value="Enter Reuse Field..."/>	<input type="checkbox"/>	<input data-bbox="813 489 997 514" type="text" value="Enter Search Help..."/>		

11. Click Insert.

12. Click Check Data Model .



13. If there are no errors, click Activate Data Model  to activate the data model and generate structures.

14. Activation may take a few minutes. Click Refresh  to get the status or click Show Messages .

Qualifying, Leading, and Referencing Entities

A standard or custom entity made be added as a standard, leading, or qualifying entity. The process for each is similar. RDG restricts the addition of these entities to valid places in the data model tree. For example, a qualifying entity may only be added to a custom type 4 entity. A referencing entity may be added to either a type 1 or a type 4 entity. A leading relationship can be created between a custom type 1 entity and another custom or standard type 1 entity. RDG guides the user through the requirements to add each kind of relationship.

Create a Qualifying Relationship

1. Click Edit  to put the data model in edit mode. Other users will be locked from editing the data model while you have the data model in edit mode. The lock is released when changes are activated or you click Cancel Changes  to remove the data model from edit mode.
2. Expand the data model and highlight a row in the data model tree where your entity will be added.

Data Model Entity Tree CONCENTO RDG

Search Entity/Attribute Search here

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action
MM	Material		✓			
MKALBASIC			✓			
MATERIAL			✓			
MATCHGMNG			✓			
MATCHGMNG	Change Management	Entity Type Itself		MDG_BS_MAT_CRNO		
MATERIAL	Material	Leading Entity T...		MATNR		
ECHOCHGMNG	Change Number	Attribute		MDG_BS_MAT_CHGMNG_AE1NR	CHGMNGNO	
REVCHGMNG	Revision Level	Attribute		CC_REVLV	REVLV	
ZTYP4DEMO			✓			
MATCHGMNG	Change Management	Leading Entity T...		MDG_BS_MAT_CRNO		
MATERIAL	Material	Leading Entity T...		MATNR		
ZATTR	Chr.string (16 charctrs)	Attribute		CHAR0016		
DRADBASIC			✓			

3. Select Add Entity . Enter Transport Request if prompted.



4. Select the Qualifying Entity radio button in the Entity Details screen and select next Step.

Entity Details

1 Select Type

1. Select Type

Type 1 Entity
 Type 4 Entity
 Referencing Entity
 Qualifying Entity
 Leading Entity
 Attribute

Step 2

5. Choose an entity name from the list or enter a new name to add a new custom entity.

Entity Details

Parent Entity Name: ZTYP4DEMO

Entity Name*	Description	Storage/Use Type*	Is Entity Key*	Validity/Entity	Key Assignment
[Enter entity name...]		Not Changeable via MDG; No ...	Qualifying Entity		
ABCIN			Field Cardinality		
ALAND					
ALORTMKAL					
ART					
AUFTL					
AWSLS					
BFRID					

6. If you select an existing entity from the list, the information about the entity will be populated. If you entered a new entity name, fill in these details.

Entity Details

Parent Entity Name: ZTYP4DEMO

Entity Name*	Description	Storage/Use Type*	Is Entity Key*	Validity/Entity	Key Assignment
BWKEY	Valuation Area	Not Changeable via MDG; No ...	Qualifying Entity	No Edition	Key Cannot Be Changed; No L...
Data Element	Is Hierarchy Type	Validity / Hierarchy	Field Cardinality		
BWKEY	No	No Edition			



Step 3

7. Click next **Step** to add additional information (optional).

8. Click Insert.

9. Click Check Data Model .

10. If there are no errors, click Activate Data Model  to activate the data model and generate structures.

11. Activation may take a few minutes. Click Refresh  to get the status or click Show Messages .

Create a Leading Relationship

A leading relationship can be created between two type 1 entities in the data model.

1. Choose a custom type 1 entity for which the leading relationship should be added and highlight a row underneath it. Click Add Entity **+**. Select the radio button for Leading Entity.

CONCENTO RDG

Search Entity/Attribute Search here

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action
▼ ZL	Test data model-K		✓			
▼ ZKTYPE12			✓			🗑️
ZKATTR3	ZKATTR3	Key Attribute		CHAR30		
REF2ZKTY	REF2ZKTY	Attribute		CHAR30	ZKREFTY2	🗑️
ZKATTR4	ZKATTR4	Attribute		CHAR30		🗑️
▶ ZKTY4			✓			🗑️
▼ ZKTYPE11			✓			🗑️
ZKATTR1	ZKATTR1	Key Attribute		CHAR30		
ZKATTR2	ZKATTR2	Attribute		CHAR30		🗑️

2. Select another type 1 entity (custom or standard) from the Entity Name list. Click Insert.

CONCENTO RDG

Entity Details

1 Select Type | 2 Leading Entity | 3 Leading Entity Additional (Optional)

2. Leading Entity

* Denotes Required Field

Parent Entity

Parent Entity Name

ZKTYPE11

Entity Details

Entity Name *

Entity Name cannot be empty.

- ZKQUAL1
- ZKREFTY2
- ZKTYPE11
- ZKTYPE12

Description

Validity/Entity

Is Hierarchy Type

Storage/Use Type *

Not Changeable via MDG; No Generated Tables

Key Assignment

Validity / Hierarchy

Add New Insert Cancel

3. A leading relationship is created between the two type 1 entities.

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action	
▼ ZL	Test data model-K		✓				
▼ ZKTYPE12			✓				
ZKATTR3	ZKATTR3	Key Attribute		CHAR30			
REF2ZKTY	REF2ZKTY	Attribute		CHAR30	ZKREFTY2		
ZKATTR4	ZKATTR4	Attribute		CHAR30			
▶ ZKTYPE4			✓				
▼ ZKTYPE11			✓				
ZKATTR1	ZKATTR1	Key Attribute		CHAR30			
ZKATTR2	ZKATTR2	Attribute		CHAR30			
ZKTYPE12	TYPE 1 SECOND CHANGE	Leading Entity T...				NEW	

4. Click Check Data Model

5. If there are no errors, click Activate Data Model

6. Activation may take a few minutes. Click Refresh to get the status or click Show Messages .

Create an Attribute

1. Highlight the row in the data model tree where your custom attribute should be added.

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action
▼ MM	Material		✓			
▶ MKALBASIC			✓			
▶ MATERIAL			✓			
▶ MATCHGMNG			✓			
▼ DRADBASIC			✓			
DOKAR	Document Type	Leading Entity T...		DOKAR		
DOKNR	Document	Leading Entity T...		DOKNR		
DOKTL	Document Part	Leading Entity T...		DOKTL_D		
DOKVR	Document Version	Leading Entity T...		DOKVR		
MATERIAL	Material	Leading Entity T...		MATNR		
CAD_POS	CAD Indicator	Attribute		CAD_POS		
NEWESTVER	Newest version	Attribute		MDG_BS_MAT_NEWESTVER		
▶ DRADTXT			✓			

2. Click Edit to put the data model in edit mode. Other users will be locked from editing the data model while you have the data model in edit mode. The lock is released when changes are activated or you click Cancel Changes to remove the data model from edit mode.

3. Select Add Entity . Enter Transport Request if prompted.



4. Select the Attribute radio button in the Entity Details screen and select next **Step**.

Entity Details

1 Select Type

1. Select Type

- Type 1 Entity
- Type 4 Entity
- Referencing Entity
- Qualifying Entity
- Leading Entity
- Attribute

Step 2

5. Enter attribute details:

- Attribute – Key Attribute or additional attributes begin with a 'Z'
- Description – Description of attribute
- Data Element - Choose a data element from the list, or enter a custom name to create a new custom data element

Entity Details

1 Select Type | 2 Attribute | 3 Attribute Additional (Optional)

2. Attribute

Entity Name: DRADBASIC

Attribute*: ZATTR

Description: DEMONSTRATION

Key Field:

Data Element*: INT2

* Denotes Required Field

Step 3

6. Select next **Step** to enter additional details for the attribute (optional).

Entity Details

1 Select Type | 2 Attribute | 3 Attribute Additional (Optional)

3. Attribute Additional

Attribute: ZATTR

Currency/UOM Field: Enter Currency/UOM...

Required Entry Field:

Structure / Table: Enter Structure/Table...

Field: Enter Field...

No Existence:

Reuse Table: Enter Reuse Table...

Reuse Field: Enter Reuse Field...

Generated:

Search Help: Enter Search Help...

7. Click Insert.

8. Click Check Data Model .

9. If there are no errors, click Activate Data Model  to activate the data model and generate structures.

10. Activation may take a few minutes. Click Refresh  to get the status or click Show Messages .

11. If SMT mapping is applicable for the attribute you created, complete the SMT mapping process after activation.



SMT Mapping

After a custom attribute for a standard entity is created and activated in either Business Partner or Material data models, a table for SMT mapping will be shown if applicable. (SMT mapping is not relevant for attributes created under all entities.) An SMT mapping table will also be shown for attributes created under custom type 4 entities that have SMT relevant parent entities.

1. After activation is complete, choose a package.
2. Complete the mapping table by selecting a mapping step and structure to extend for each row. Source and Target will automatically populate. Click [➤](#) at the end of each row.

Entity Mapping Table ➤

Modified Entity	Application	Mapping Step	Source	Target	Structure to extend	Status	
BP_CPGEN	BP_BP_CPGEN_2API	BURS_EI_STRUC_CEN...	MDG_BS_BP_BP_CPGEN	BURS_EI_STRUC_CENTRAL_CO N	BAPIBUS1006002_CEN...	In Process	➤
BP_CPGEN	MDG_BS_BP_MAP_2STA	MDG_BS_BP_BP_CPGEN	BURS_EI_STRUC_CENTRAL_CO N	MDG_BS_BP_BP_CPGEN	BAPIBUS1006002_CEN...	In Process	➤

Done

3. Click Done. Processing may take some time to complete. Click Refresh when ready and receive success messages. If running the application using a cloud platform, additional notifications will be given to help you track the process.




If extending any of the following entities with a custom attribute,

- | | | |
|-----------|----------|-----------|
| MARCATP | MARDMRP | MBEWACTNG |
| MARCBASIC | MARDSTOR | MBEWCSTNG |
| MARCCSTNG | | MBEWVALUA |
| MARCFRCST | | |
| MARCFRGTR | | |
| MARCMRPFC | | |
| MARCMRPLS | | |
| MARCMRPMI | | |
| MARCMRPPP | | |
| MARCMRPSP | | |
| MARCPURCH | | |
| MARCQTMNG | | |
| MARCSALES | | |
| MARCSTORE | | |
| MARCWRKSD | | |

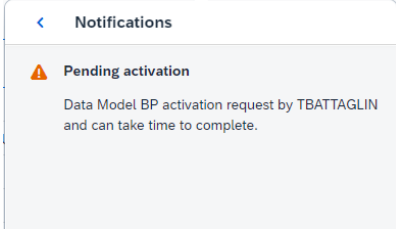
the corresponding CDS database view (ZRDG_EMARC_V, ZRDG_EMARD_V, or ZRDG_EMBEW_V) is also enhanced with the custom attribute.

Data Model and SMT Notifications on Cloud Platforms

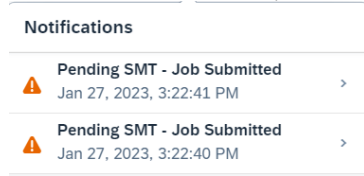
When running the application on a cloud platform, additional notifications will be shown to help you track the progress of data model activation and SMT mapping. A notification bell at the top of the screen shows the number of any unread messages. 

Types of Notifications

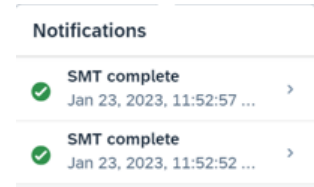
Data model activation initiated



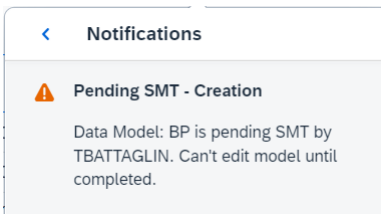
SMT mapping has been submitted (one notification for each row of the mapping table)



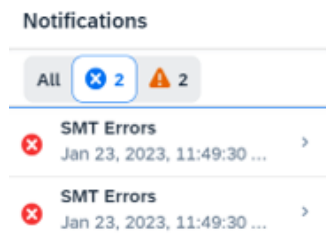
SMT mapping complete success message (one notification for each row of the mapping table)



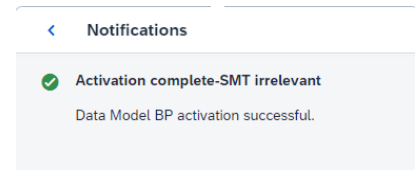
SMT mapping creation is pending



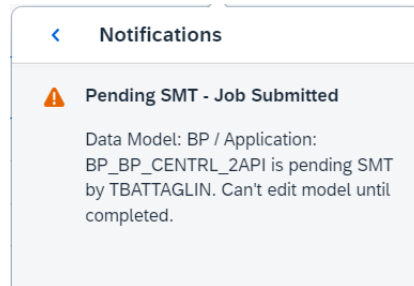
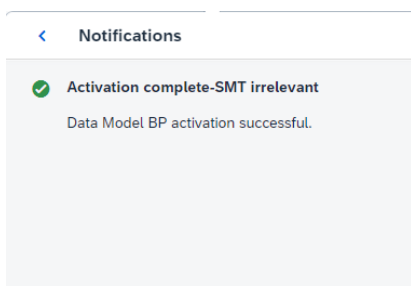
Errors in the SMT mapping process



Data model activation success message for changes not relevant to SMT mapping



Detailed information for each message can be viewed by clicking the arrow.





Undo Delete

If an entity or attribute is selected for deletion, the user may undo this action so that the entity or attribute will not be deleted when the data model is activated with other changes. To undo the delete, click on the “Undo Delete” option available against the Deleted Action.

Undo delete can be performed at the main entity level or attribute level. Performing undo delete at main/parent entity level cancels the Deleted Action for all of its child entities and attributes.

< Data Model Entity Tree CONCENTO RDG

Search Entity/Attribute ⚙️ ↻ × + ✎ 🛡️ ⚡

Data Model	Name	Field Type	Storage and Use Types 1 and 4	Data Element	Referenced Entity Type	Action	
▼ ZL	Test data model-K		✓				
▼ ZKTYPE12			✓			DELETED	↶ Undo Delete
ZKATTR3	ZKATTR3	Key Attribute		CHAR30		DELETED	
REF2ZKTY	REF2ZKTY	Attribute		CHAR30	ZKREFTY2	DELETED	
ZKATTR4	ZKATTR4	Attribute		CHAR30		DELETED	
▶ ZKTYP4			✓			DELETED	
▼ ZKTYPE11			✓				🗑️



Comparison Operators

Comparison operators can be used in Parallel/Dynamic Workflow, Business Rules, and Field Properties to set conditions based on attribute values.

Comparison operators LT, LE, GT, GE, BT, and NB for validating attributes are applicable to attributes with numerical values only.

For CP – matches pattern or NP – does not match pattern, use * as a wildcard character.

When creating single value rules where the attributes used in the conditions involve units, such as

the only valid comparisons are

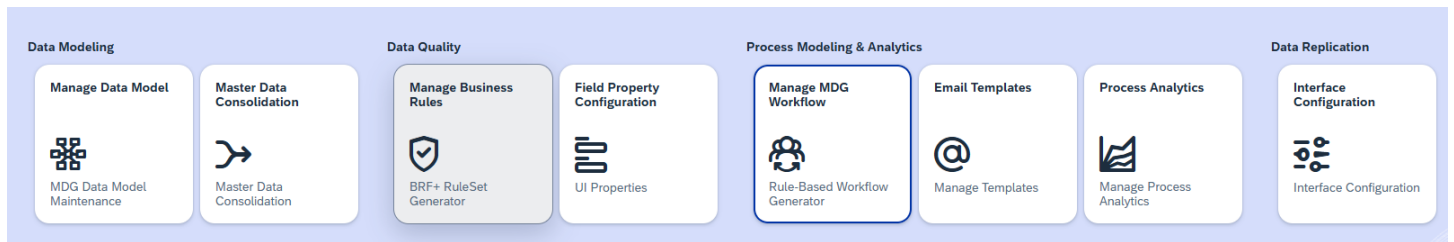
- LT – is less than
- LE – is less than or equal to
- NE – is not equal to

Comparisons are also valid for dates, including Current Date.

Manage MDG Workflow

RDG provides the solution to bridge the gap with a visualization of the BRF+ workflow into an intuitive graphical format. The application allows the users to easily create, maintain and copy change request types and corresponding workflows which will in turn translate to BRF+ table through APIs.

Users can implement sequential, dynamic, parallel, and follow-up workflow steps for complex scenarios in RDG, eliminating the otherwise tedious steps of workflow maintenance. Users having no prior experience in BRF+ application, Decision Tables and ABAP programming can easily handle the steps included in the guide as RDG automates the entire implementation of BADIs and rule-based workflow in BRF+ to handle Dynamic and Parallel workflow steps and other specialized scenarios in a simple and intuitive screen.



RDG provides the following features and functions.

Feature/Function	Description
Standard Workflow	Single user/approver nodes
Dynamic Workflow	User/approver condition-based routings
Parallel Workflow	User/approver condition-based routings requiring parallel processing
Reroute Revision	Rerouting processing directly back to rejecting user/approver
Skip Approver	Condition-based routing allowing to skip the approval process within a Dynamic node
Follow-up Change Request	Automatic creation of a change request for a subsequent task that is required to complete the business process
Copy Change Request Type and Workflow	Create change request type by copying from another change request type and import a workflow for reuse
Enforce 4 Eyes Principle	Prevent user submitting a request from approving the request



BAdi Implementations in Workflows

Some features used in workflows require associated BAdi implementations. When activating any workflow, if BAdi implementation(s) are required and have not previously been created/selected for that workflow, a message box will appear to create/select the necessary BAdis.

✖ BAdi Implementation not found

BAdi Implementation not found. Please select one.

OK

Use the drop-down box to select an existing BAdi, or click the + button to create a new BAdi. BAdi names must start with Y or Z.

The screenshot displays the 'Manage Rule-based Workflow' interface. On the left, there is a 'Change Requests' sidebar with a search bar containing 'zpr' and a list of objects including 'ZPROFIC', 'ZPROFIT', and 'MM'. The main area shows a 'Workflow Graph' for 'Change Request Type: ZPROFIT'. The graph includes an 'Initiation' step (AD: Requestor), a 'Workflow' step (A1) with details like 'Approver Type: US' and 'Step Actions: Approve, Reject', a 'Parallel A2' step (A2), and an 'Activate' section with steps '92: Withdraw/Discard', '99: Complete', and '91: Activation'. A 'Select BAdi Implementation' dialog box is open, showing a list of BAdi names: 'ZNEWAGENT', 'ZNEWAGENT_01', and 'ZIMPL2_RDG_ENH_CHK_AGENT'. The dialog also has sections for 'Dynamic BAdi Implementation', 'Parallel BAdi Implementation', 'System Method BAdi Implementation', and 'Check Agent BAdi Implementation', each with a dropdown menu and a '+' button.

BADis Required for Workflow Features					
	Dynamic BAdI Implementation	Parallel BAdI Implementation	System Method BAdI Implementation	Check Agent BAdI Implementation	USMD_RULE_SERVICE
Parallel	X	X	X		
Dynamic	X				
No Approval Required (in dynamic workflow)	X		X		
Reroute Revision			X		
Follow-up Change Request			X		
System Method			X		
Email Template				X	
Four Eyes Principle					X


To view BADis used in a workflow that has already been activated, select Show/Hide BADis list.

The screenshot displays the 'Manage Rule-based Workflow' interface. On the left, a list of workflows is shown, with 'ZCCA1 create item S41' selected. The main area shows a 'Workflow Graph' for 'Change Request Type: ZCCA1'. The graph includes nodes for 'A0: Rejector', 'A1: Dynamic WF', 'A2: Parallel WF', 'A3: Merge Node for A2', '91: Activation', '99: Complete', and '92: Withdraw/Discard'. A blue arrow points to the 'Show/Hide BADis list' icon in the top right of the graph area. A box on the right lists the 'Selected BADis':

- Dynamic Badi Implementation: ZHEWDYN
- Parallel Badi Implementation: ZHEWPARALLEL
- System Method Badi Implementation: ZHEWSMETHOD
- Check Agent Badi Implementation: ZHEWAGENT

Create a CR Type

1. From the home screen, select the 'Manage MDG Workflow' tile and then click the  icon

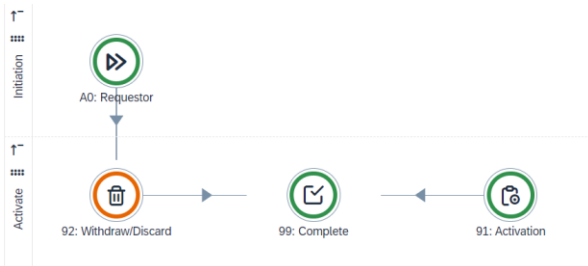
2. Enter the required details and select .

- CR Type
- Description
- Data Model
- Edition Type (for FI data models)
- Business Activity
- Choose Single Object/Parallel
- Main Entity
- Leading Entities (for change request types in Business Partner and Material data models, leading entities will default from the selected Data Model. For other data models, add leading entities as required).


3. Create or select transport request.

4. Confirmation message for the CR will be displayed. Select OK to continue.


5. A workflow template will be displayed for the CR.



Create a Standard Workflow

1. Select Requestor icon, then Add .



2. Select add Approver  Approver to add the necessary workflow approver details and save:

- Approver Type
- Approver
- Approver Description (optional). If entered, the description will be included with the name of the workflow step for use in business rules and field properties.
- Step Type (Step Actions defaults from Step Type selection)

Select Approver

Approver Type
US - User


Approver
BBOBIN - BBOBIN

Approver Description
App Level1

Step Type
1 - Check Change Request

Step Actions *
01 - Agree x 02 - Disagree x

[Save](#) [Cancel](#)

3. Select Edit Connection  by clicking on the



Requestor A0: Requestor

or Approver

 A1: App Level1

Approver Type: US

Approver: BBOBIN







Step Type: Check Change Request


Step Actions: Agree, Disagree




4. Add the necessary Action Targets details and save. Repeat the process for all approval nodes.

Edit Action Targets

Change Request Priority	Change Request Reason	Reason of Rejection	Target State	Status	Status Description	Email Template
- RESUBMIT (07)						
▼	▼	▼	▼	▼	▼  
- START (INIT)						
▼	▼	▼	A1 - App Level1 ▼	▼	▼  
- WITHDRAW (08)						
▼	▼	▼	92 - Withdraw/Di... ▼	▼	▼  


5. Select Validate Workflow button  to validate the workflow. A validation message will be displayed if the work flow path is complete.

 **Workflow Valid**

Found at least one path from Requestor to either of Activation, Complete or Reject. This workflow meets minimum criteria for validity.

[OK](#)

6. Save  to complete the workflow creation and BRF table generation. A confirmation message will be displayed once BRF tables have been successfully created.

 **Response**

The BRF tables have been created in customizing TR: T42K901115. Please check in the BRF+ Application

[OK](#)

7. Repeat the steps above for additional approval levels as needed.

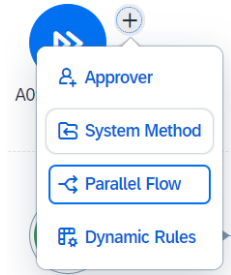
Parallel Workflow

In a parallel workflow, a change request is sent to multiple approvers parallelly in order to be approved. All approvers must approve the change request for the process to be completed. The approvers the change request is sent to are based on meeting whatever conditions are selected in the table in the opening parallel node. These conditions can be based on attribute values or attribute changes.

Create Opening Parallel Node

A parallel workflow may have additional approvers inserted into the process. For this reason, it has opening and closing nodes, to allow for additional approvers to be added between them if required.

1. From the Change Request select the workflow position and Parallel Flow



2. Enter Description for the Parallel Workflow (optional). If entered, the description will be included with the name of the workflow step for use in business rules and field properties.

Parallel Workflow Based on Attribute Values

The workflow may be configured to compare by attribute values *or* compare by attribute changes. If comparison by attribute values is required, follow these steps.

1. Compare by Attribute Values will already be selected as the default option. After attributes are added, this selection cannot be changed.

Parallel Workflow

Description:

Compare By:

Add Attribute Add Rule

There are no visible columns in the table right now. Please select the columns you need in the table settings.

[Save Configuration](#) [Cancel](#)



2. Add Attribute and Entity/Attribute to be used as the condition for the Parallel workflow. Select Add Column.
3. Select Add Rule Enter details for rule. Select to add additional rules. Enter the required information for each row.

Parallel Workflow

Description:

AD_POSTAL - RFE_POST	Approver Type *	Approver *	Step Type *
TX - Texas	US - User	BBOBIN	2 - Approve Change Request
TX - Texas	US - User	SSKAGGS	2 - Approve Change Request
AK - Alaska	US - User	AVERMA	2 - Approve Change Request
AK - Alaska	US - User	RKOTHA	2 - Approve Change Request

Save Configuration Cancel

For this Parallel workflow scenario, for each state selected, the change request will go to both approvers listed. Additional states and approvers may be added as required. If the value of the attribute RFE_POST in the change request is not given in the table, an error in the workflow process will result, so it is imperative that all possible values are included in the table.

Select Save Configuration , then select TR and Package to store the changes



For parallel workflows with each condition assigned to only one approver, the step type is set to 2 (Approve). This has been hard-coded to default to step type 2 in this case.

=	<input type="text" value="S110"/>	US - User	BBOBIN	3 - Process Change Request	
=	<input type="text" value="S120"/>	US - User	SSKAGGS	3 - Process Change Request	

Save Configuration Cancel

For conditions assigned to multiple approvers, the step action will be consistent with what is defined for the parallel step.

=	<input type="text" value="S110"/>	US - User	BBOBIN - BBOBIN	3 - Process Change Request	
=	<input type="text" value="S120"/>	US - User	SSKAGGS - SKAGGS	3 - Process Change Request	
=	<input type="text" value="S110"/>	US - User	HHERNANDEZ - HERNANDEZ	3 - Process Change Request	

Save Configuration Cancel

In this case of only one agent selected for a condition, since the next new step is routed directly to the merge node, business rules/field properties for individual approvers will not work and should not be created.

Parallel Workflow Based on Attribute Changes

If comparison by attribute changes is required, follow these steps.

1. Select Attribute Changes from the Compare By box. After attributes are added, this selection cannot be changed.

Parallel Workflow

Description:

Compare By: Attribute Changes

There are no visible columns in the table settings.

2. Add Rule and select Entity/Attribute to be used as the condition for the Parallel workflow. Repeat to add as many attributes as required. Enter the same attribute multiple times if multiple approvers are required for that condition.

Parallel Workflow

Description:

Compare By: Attribute Changes

There are no visible columns in the table settings.

Parallel Workflow

Description:

Compare By: Attribute Changes

Entity	Attributes	Approver Type*	Approver*	Step Type*	
<input type="text" value="ACCOUNT"/>	<input type="text" value="ACCRESPU"/>	<input type="button" value="v"/>	<input type="text"/>	<input type="button" value="v"/>	<input type="button" value="x"/>
<input type="text" value="ACCCDET"/>	<input type="text" value="ACCFSTGRP"/>	<input type="button" value="v"/>	<input type="text"/>	<input type="button" value="v"/>	<input type="button" value="x"/>
<input type="text" value="ACCCDET"/>	<input type="text" value="ACCFSTGRP"/>	<input type="button" value="v"/>	<input type="text"/>	<input type="button" value="v"/>	<input type="button" value="x"/>

3. Enter Approver Type, Approver, and Step Type for each row.

Parallel Workflow

Description: Compare By:

Add Rule

Entity	Attributes	Approver Type *	Approver *	Step Type *	
ACCOUNT	ACCRESPU	S - Position	50000076 - RDG LVL1 DAT...	2 - Approve Change R...	X
ACCCDET	ACCFSTGRP	C - Job	50000113 - VALIDATOR JO...	2 - Approve Change R...	X
ACCCDET	ACCFSTGRP	AG - Security Role	/AIF/DATA_FIXER - ROLE: ...	2 - Approve Change R...	X

Save Configuration X Cancel

For this parallel workflow scenario, if the value of ACCRESPU changes before this point in the approval process, the change request will be routed to the approver in the first row. If the value of ACCFSTGRP changes, the change request will be routed to both of the approvers in the last two rows.

Select Save Configuration , then select TR and Package to store the changes.

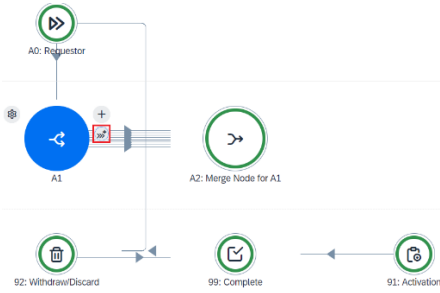
Connect to the Closing Parallel Node

1. After saving the conditions, both the opening and closing nodes of the parallel workflow can be seen (here shown as A1 and A2). If required, additional approvers may be added from A1. The workflow will merge together at A2.



2. Connections from the Requestor node can be defined as described in the previous Standard Workflow.
3. Add connections from the opening parallel node (A1) to any additional approvers between A1 and A2, or directly to A2 if there are no other approvers between them.

In this case there are no additional approvers, so connections are made directly from A1 to A2. Select to create the parallel node connections.



Edit Action Targets:

- Assign a sign and status for each step sign, in this case
 - Positive for CR approvals
 - Negative for rejections that can be sent back to the Requestor for revision
- Select Save

Edit Action Targets

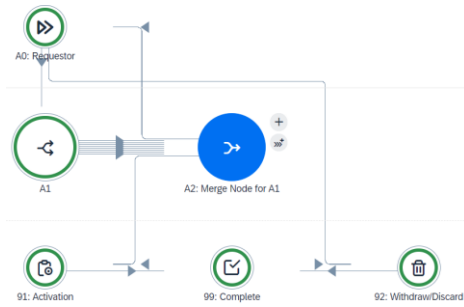
Change Request Prio...	Change Request Rea...	Reason of Rejection	Target State	Sign	Status	Status Description	Email Template
AK - AVERMA - APPROVE (03)							
			A2 - Merge N...	Positive	05 - Final Ch...		
AK - AVERMA - REJECT (04)							
			A2 - Merge N...	Negative	03 - To Be R...	L - Change o...	
AK - RKOTHA - APPROVE (03)							
			A2 - Merge N...	Positive	05 - Final Ch...		
AK - RKOTHA - REJECT (04)							
			A2 - Merge N...	Negative	03 - To Be R...	L - Change o...	
TX - BBOBIN - APPROVE (03)							
			A2 - Merge N...	Positive	05 - Final Ch...		
TX - BBOBIN - REJECT (04)							
			A2 - Merge N...	Negative	03 - To Be R...	L - Change o...	

Save Cancel

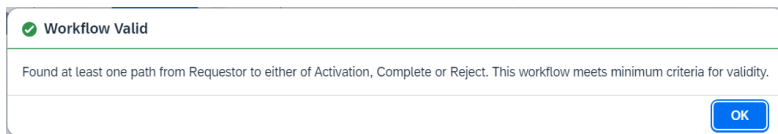
Edit Merge Node Action Targets:

- Assign a sign and status for each step sign, in this case
 - Positive for CR approvals
 - Negative for rejections that can be sent back to the Requestor for revision
- Select Save

Change Request Prio...	Change Request Rea...	Reason of Rejection	Target State	Sign	Status	Status Description	Email Template
- APPROVE (03)							
			91 - Activation	Positive	05 - Final Ch...		
- REJECT (04)							
			A0 - Requestor	Negative	03 - To Be Re...	L - Change of...	



4. Create connections between the parallel merge node (A2) and any additional approvers, or to Activation. In this case there are no additional approvers.
5. Validate the workflow . A confirmation message will be displayed if a successful workflow path has been created.

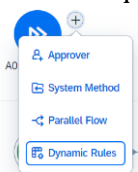


6. Save to complete the workflow and generate BRF tables. Assign the TR and package to save the changes and activate the workflow.

Dynamic Rules

In a dynamic workflow, a change request is sent to an approver based on whatever conditions are selected in the table for the dynamic node. These conditions can be based on attribute values or attribute changes. If the data in the change request meets more than one condition in the table, the change request will be routed to the approver given first in the table, so the conditions should be arranged according to priority. If none of the conditions in the table are met, the change request will be routed to the approver in the default row, the first row in the table.

1. On the Requestor node select then to add node for Dynamic Rules



2. Enter Description (optional). If entered, the description will be included with the name of the workflow step for use in business rules and field properties.

Dynamic Workflow Based on Attribute Values

The workflow may be configured to compare by attribute values *or* compare by attribute changes. If comparison by attribute values is required, follow these steps.

1. Compare by Attribute Values will already be selected as the default option. After attributes are added, this selection cannot be changed.
2. Add Attribute [Add Attribute](#) and Entity/Attribute to be used as the condition for the workflow. Select [Add Column](#) Add additional attributes as required.
3. Select Add Rule [Add Rule](#) for each row required and enter details for each row. The first row is called the default row and does not contain any attribute values. It is used if the change request does not meet any of the other conditions.
 - Attribute Values
 - Approver Type
 - Approver
 - Step Type
 - CR Status (optional). If a CR status is selected here, it will override any values selected in the Connections table for this node. CR Status is not selectable here for the default row of the table, so if a particular status is required for the default row, it should be selected in the Connections table.

Dynamic Workflow

Description:

Compare By:

[Add Attribute](#)
[Add Rule](#)

	BP_CUSGEN - KATR1	BP_CUSGEN - KDKG1	Approver Type*	Approver*	Step Type*	CR Status
			<input type="text" value="US - User"/>	<input type="text" value="GKUMARI - KUMARI"/>	<input type="text" value="2 - Approve Change Request"/>	
<input type="text" value="="/>	<input type="text" value="1A - Attribute 1A"/>	<input type="text" value="= DN - Reel not cleared"/>	<input type="text" value="US - User"/>	<input type="text" value="SSKAGGS - SKAGGS"/>	<input type="text" value="2 - Approve Change Request"/>	<input type="text" value=""/>
<input type="text" value="="/>	<input type="text" value="1B - Attribute 1B"/>	<input type="text" value="= DN - Reel not cleared"/>	<input type="text" value="BG - Background Step"/>	<input type="text" value="A5 - Direct Activation (do not bypass ..."/>	<input type="text" value="2 - Approve Change Request"/>	<input type="text" value=""/>

[Save Configuration](#)
[Cancel](#)

Select [Save Configuration](#) . Then choose a transport request and package to save the changes.

4. Edit connections from each node as described in standard workflow section.
5. Validate [Validate](#) the dynamic workflow and then Save [Save](#)
6. Once the workflow is saved, BRF decision tables are created and populated automatically. Decision tables are populated for Rule Based Workflow allowing maintenance even for complex scenarios in RDG with no prior knowledge in ABAP, BRF+ configuration and BAdI implementations.

Dynamic Workflow Based on Attribute Changes

The workflow may be configured to compare by attribute values *or* compare by attribute changes. If comparison by attribute changes is required, follow these steps.

1. Select Attribute Changes from the Compare By box. After attributes are added, this selection cannot be changed.

The screenshot shows a configuration interface. On the left, there is a 'Description:' field with the placeholder text 'Enter Description'. To its right is a 'Compare By:' dropdown menu. The dropdown is open, showing two options: 'Attribute Values' and 'Attribute Changes', with 'Attribute Changes' selected. Below the dropdown, there is a horizontal bar with an 'Add Rule' button (represented by a grid icon) and a message: 'There are no visible columns. Add columns you need in the table settings.' At the bottom right of the interface, there are 'Save Configuration' and 'Cancel' buttons.

2. Select Add Rule [Add Rule](#) for each row required. Choose entity/attribute and click Add Column. Add as many rows as required.

The screenshot shows the 'Dynamic Workflow' configuration page. At the top, there is a 'Description:' field with 'Enter Description' and a 'Compare By:' dropdown set to 'Attribute Changes'. Below this is an 'Add Rule' button. The main part of the page is a table with the following columns: Entity, Attributes, Approver Type*, Approver*, Step Type*, and CR Status. The table contains three rows of configuration:

Entity	Attributes	Approver Type*	Approver*	Step Type*	CR Status
		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PCTR	PCTRDEPT	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PCTR	PCTRRESPU	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PCTR	PCTRRESPP	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

At the bottom right, there are 'Save Configuration' and 'Cancel' buttons.

3. Enter details for each row. The first row is called the default row and does not contain any attribute values. It is used if the change request does not meet any of the other conditions.
 - Approver Type
 - Approver
 - Step Type
 - CR Status (optional). If a CR status is selected here, it will override any values selected in the Connections table for this node. CR Status is not selectable here for the default row of the table, so if a particular status is required for the default row, it should be selected in the Connections table.

Dynamic Workflow

Description: Compare By:

[Add Rule](#)

Entity	Attributes	Approver Type *	Approver *	Step Type *	CR Status
		BG - Background Step	A6 - DIRECT ACTIVATION (BYPASS S...	2 - Approve Change Request	
PCTR	PCTRDEPT	O - Organizational Unit	50000119 - PLANNING	2 - Approve Change Request	01 - To Be Considered and Appr...
PCTR	PCTRRESPU	O - Organizational Unit	50000118 - QUALITY	2 - Approve Change Request	01 - To Be Considered and Appr...
PCTR	PCTRRESPP	O - Organizational Unit	50000120 - PURCHASE	2 - Approve Change Request	01 - To Be Considered and Appr...

[Save Configuration](#) [Cancel](#)

In this workflow, if the value of PCTRDEPT, PCRTRESPU, or PCTRRESPP has changed, the change request will be routed to the approver in that row. (It will only be routed to one approver: the first match that is found in the table. For this reason, it is important to list the attributes in order of priority in the table). If none of these attributes were changed, the change request will be routed to the approver in the first, default row.

4. Select [Save Configuration](#). Then choose a transport request and package to save the changes.
5. Edit connections from each node as described in standard workflow section.
6. Validate [Validate](#) the dynamic workflow then Save [Save](#)
7. Once the workflow is saved, BRF decision tables are created and populated automatically. Decision tables are populated for Rule Based Workflow allowing maintenance even for complex scenarios in RDG with no prior knowledge in ABAP, BRF+ configuration and BAdI implementations.

Background Step

In a dynamic rule, a background step may be selected for a condition related to selected attribute(s). An example of this would be to automatically approve a change request for a default or specific value.

1. Create a dynamic workflow as previously described.
2. To create a Background Step, default action in the follow case:
 - a. Approver Type: select BG – Background Step
 - b. Approver: enter/select a value
 - c. Select a Step Type for the Background Step

Dynamic Workflow

Description:

[Add Attribute](#) [Add Rule](#) [Enable Delete Rules](#)

AD_POSTAL - RFE_POST	Approver Type *	Approver *	Step Type *
	BG - Background Step	A6	8 - Activate Change Request
TX - Texas	US - User	BBOBIN	2 - Approve Change Request
AK - Alaska	US - User	SSKAGGS	2 - Approve Change Request
IL - Illinois	AG - Security Role	ZDMR_MDGC_SPEC	2 - Approve Change Request

[Save Configuration](#) [Cancel](#)

3. If Background Step is selected, there will be three options for Approver.
 - a. A5 – Direct Activation (do not bypass snapshot)
 - b. A6 – Direct Activation (bypass snapshot)
 - c. R8 - Rollback
4. Save Configuration, validate the workflow, and then save the changes to complete the workflow creation process.

No Approval Required (Skip Approver)

In the dynamic node of a workflow, if an approver needs to be skipped or bypassed in the approval process based on a predetermined condition, the skip functionality can be used for that particular conditional approval. This bypass feature can be enabled by selecting the User Type as NA - No Approval Required during the dynamic node definition step in conjunction with the driving attribute value to enforce the bypass. This option can be used for workflows that compare by attribute values or attribute changes.

Dynamic Workflow



Description: Compare By:

[Add Attribute](#) [Add Rule](#)

BP_HEADER - BU_GROUP	Approver Type*	Approver*	Step Type*	CR Status
	<input type="text" value="US - User"/>	<input type="text" value="AVERMA - AVERMA"/>	<input type="text" value="2 - Approve Change Request"/>	<input type="text" value="01 - To Be Considered and Ap..."/>
<input type="text" value="S110 - Branches w/o IB"/>	<input type="text" value="NA - No Approval Required"/>	<input type="text" value="Target State Routing"/>	<input type="text" value="2 - Approve Change Request"/>	<input type="text" value="01 - To Be Considered and Ap..."/>
<input type="text" value="S120 - Branches w. IB"/>	<input type="text" value="US - User"/>	<input type="text" value="SSKAGGS - SSKAGGS"/>	<input type="text" value="2 - Approve Change Request"/>	<input type="text" value="01 - To Be Considered and Ap..."/>
<input type="text" value="S130 - Brch. Ext. Bill"/>	<input type="text" value="US - User"/>	<input type="text" value="AJAWEED - AJAWEED"/>	<input type="text" value="2 - Approve Change Request"/>	<input type="text" value="01 - To Be Considered and Ap..."/>

[Save Configuration](#) [Cancel](#)

If NA – No Approval Required is selected, Approver and Step Type values will be defaulted. CR Status is always optional.

Click  to save the workflow as a draft, then click  to activate it.

Custom Status

A custom status can be created and assigned to a workflow step to make the workflow step more meaningful.

Change Request Priority	Change Request Reason	Reason of Rejection	Target State	Status	Status Description	Email Template
AK - RKOTHA - APPROVE (03)						
▼	▼	▼	91 - Activation ▼	05 - Final Check ... ▼		▼ [📎] [📧]
AK - RKOTHA - REJECT (04)						
▼	▼	▼	A0 - Requestor ▼	Custom - Custom CR Status		▼ [📎] [📧]
				00 - To Be Evaluated		
				01 - To Be Considered and Approved		

1. Select Custom – Custom CR Status in the Status column
2. Enter details for the Custom Status:

- Status: 2 characters
- Status Description
- Assign action for status

Create Step Status

Status* - No Processing ▼

Status Description


Create Cancel

Copy Change Request

Change Request creation can be accelerated using a reference CR Type along with the associated workflow.

1. Select the copy  button. Then select the Entity Type and CR Type from which to copy from.

Change Requests

Search Change Requests + 

Copy From

Data Model*
 BP - Business Partner ▼

Change Request*
 ZVCT12 - Create supplier ▼

OK

2. Enter the change request type name and Description and Save. Other details are copied from the reference change request type.

Change Request Details

Change Request Type *

ZCRT22

Change Request Description *

Copy of ZVCT12

Edition Type

Data Model

BP - Business Partner

Business Activity *

SUP1 - Create Supplier

Target System

Switch Characteristics

Change Request Type Additional Options

Single Object

Parallel

Main Entity *

BP_HEADER - Busines...

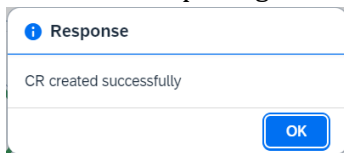
Leading Entities

+ ADD

Entity Type	Message Output
ADDRNO - Address Nu...	Standard
BP_HEADER - Busines...	Standard
BP_REL - BP Relations...	Standard

SAVE

3. Select TR and package to save changes. If successful a confirmation message will be displayed.




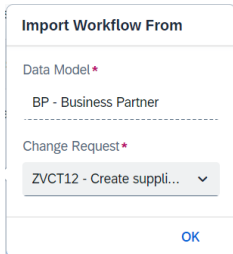
4. The Workflow Graph will also be copied and displayed. The BRF workflow tables are also updated with the settings from reference CR Type.



Import Workflow

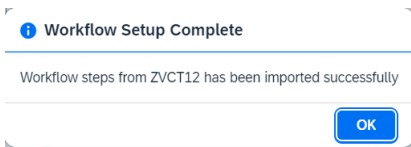
Instead of copying an entire change request type, alternatively just a workflow graph can be imported. Workflows can be imported from a reference CR Types to accelerate the workflow creation and avoid tedious process of manually updating BRD decision tables to accomplish the same goal.

1. Create a new CR Type as described in the Standard Workflow process previously.
2. Once the new CR Type is created, select the Import Workflow  button.
3. Select the Data Model and reference CR Type from which the workflow will be imported.



The dialog box titled "Import Workflow From" contains two sections. The first section, "Data Model*", has a dropdown menu with "BP - Business Partner" selected. The second section, "Change Request*", has a dropdown menu with "ZVCT12 - Create suppli..." selected. An "OK" button is located at the bottom right of the dialog.

4. Select a TR and package to save the changes. A confirmation message will be displayed upon successful import of the workflow.



The confirmation message box titled "Workflow Setup Complete" displays the text "Workflow steps from ZVCT12 has been imported successfully" and includes an "OK" button at the bottom right.

Four Eyes Principle

The four eyes principle prevents a requestor from processing or self-approving a change request that they have submitted. It works by removing the requestor from the set of possible authorized users. The requestor is also removed from the group of authorized users in

- A role
- An organizational unit
- A job
- A position

Four eyes principle can be applied to any change request type if selected at the time the change request type is created by selecting the check-box. If the check-box for four eyes principle is selected, the option to disable field properties for this change request type is offered.

Change Request Type

Change Request Details
* Denotes Required Field

Change Request Type*
Z4EYESEX

Edition Type
.....

Business Activity*
MAT1 - Create Material

Change Request Description*
Four eyes principle example

Data Model
MM - Material

Target System Switch Characteristics

4 eyes Principle Disable Field Properties

Change Request Type Additional Options

Single Object Parallel

Main Entity*
MATERIAL - Basic Data

Leading Entities + ADD

Entity Type	Message Output
MATERIAL - Basic Data	Standard

SAVE

The workflow graph can be completed using any configuration of approvers and approver types, including parallel and dynamic nodes.

If the four eyes principle has been enabled, there will be a note in the change request header that the requestor is not able to approve the change request. Any buttons for Save/Agree/Approve will be disabled for the requestor.

Change Request

General Notes Attachments

New

Note	Created By	Created On
4 eyes principle applied. Requestor BBOBIN removed from list of processors of role ZDMR_MDGC_SPEC	SAP_WFRT	12.04.2023 18:05:58

Supplier Details

General Data	Address
Business Partner ID / Grouping: B041201 External Number Assignment	House Number / Street: 888 Bearing Dr
Title:	City / State: Dallas TX Texas
Name 1: B041201	ZIP Code: 75025
Name 2:	Country: US USA

4 Eyes disables Step action buttons (Save/Agree/Approve)

Save Cancel



If Disable Field Properties has not been selected, the Requestor is able to edit the change request if that option is available at that step of the change request process.

4 eyes Principle Disable Field Properties

Change Request [Edit](#)

[General](#) [Notes](#) [Attachments](#)

General Data	Process Data
Change Request: 5574	Status: Changes to Be Executed
Description: CR TypeZ4ET1 B041309	Current Workitem: Process Change Request 5574 (CR Ty... What's Next
Priority:	Created On/By: 13.04.2023 11:08:44 BBOBIN
Due Date:	Changed On/By: 13.04.2023 11:10:08 BBOBIN
Reason:	

Supplier Details [Edit](#)

General Data	Address
Business Partner ID / Grouping: B041309 External Number Assignment	House Number / Street: 556 Terra Cotta Lane
Title:	City / State: plano TX Texas
Name 1: B041309	ZIP Code: 75025
Name 2:	Country: US USA
Search Terms:	County:

[Save](#) [Cancel](#)

If Disable Field Properties has been selected, the Requestor will not able to edit the change request even if that option is available at that step of the change request process for other users.

4 eyes Principle Disable Field Properties

[Refresh](#) [Check](#) [Change Documents](#) [Workflow Log](#)

[Undo](#) [Redo](#) [Side Panel](#)

General Data	Process Data
Change Request: 5586	Status: Changes to Be Executed
Description: CR TypeZ4ET10 B041310	Current Workitem: Process Change Request 5586... What's Next
Priority:	Created On/By: 13.04.2023 13:03:54 BBOBIN
Due Date:	Changed On/By: 13.04.2023 13:05:45 BBOBIN
Reason:	

Supplier Details [Edit](#)

General Data	Address
Business Partner ID / Grouping: B041310 External Number Assignment	House Number / Street: 876 Hall St
Title:	City / State: plano TX Texas
Name 1: B041310	ZIP Code: 75025
Name 2:	Country: US USA
Salutation:	District:
Search Terms:	County:


[Save](#) [Cancel](#)

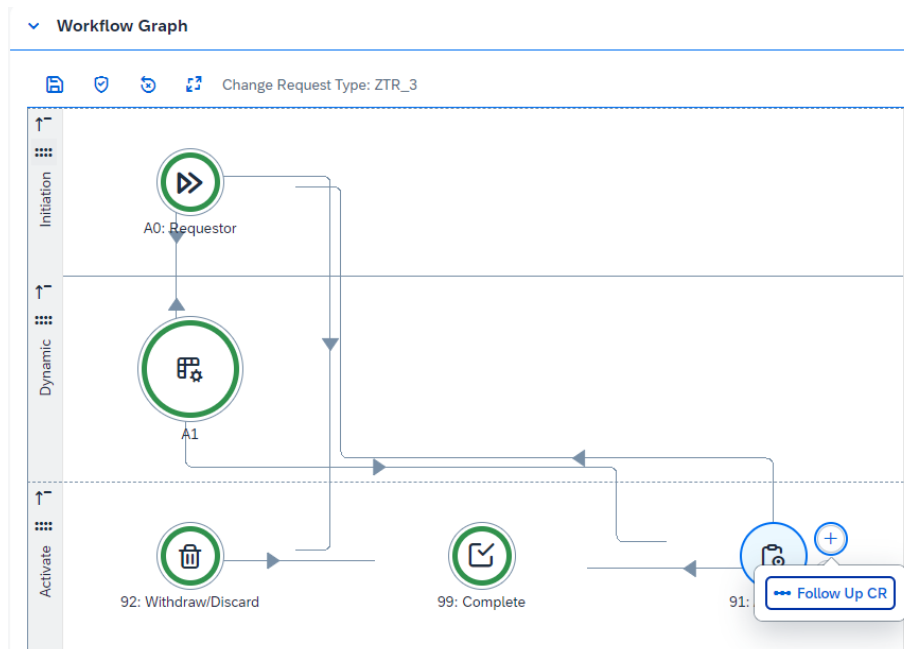
Follow Up Change Request

To add a follow change request to a workflow, the change request type must be Single Object. Ensure that the Single Object box is checked in the Change Request Details.

Change Request Type Additional Options

Single Object

In the workflow graph, choose the Activation node and click the  button. Select Follow Up CR.



In the dialogue box, a description for the follow up change request is optional.

Choose whether your follow up change request type is a Single Object or Parallel change request type. Choices will be listed based on your selection.

Approver Description

Change Request Type *


Single Object Parallel

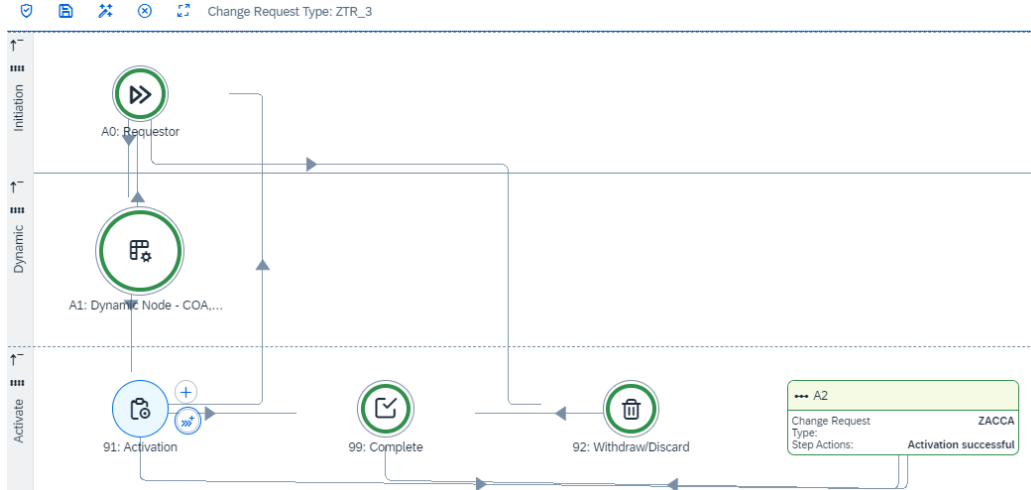
ZACCA - acca - process multiple accounts

Step Actions *




Click Save. A node for the follow up change request will be added to the workflow graph.

At the Activation node, click the  button to edit the connection between the Activation node and the follow up change request.



Save the connections.

Edit Action Targets for 91: Activation						
Change Request Priority	Change Request Reason	Reason of Rejection	Target State	Status	Status Description	Email Template
- ACTIVATION FAILED (32)						
			A0 - Requestor	07 - Activation Failed		
- ACTIVATION SUCCESSFUL (31)						
			99 - Complete	08 - Approved, to Be...		

Click  to save the workflow graph. Then click  to Activate it.

When the change request has been activated, a link to the follow-up change request will be shown in the change request header information.

Change Request

General | Notes | Attachments | Target Systems

General Data	Process Data
Change Request: 7718	Status: Final Check Approved
Description: 7718	Current Workitem: What's Next
Priority:	Created On/By: 30.01.2024 16:16:22 SSKAGGS
Due Date:	Changed On/By: 30.01.2024 16:18:29 SSKAGGS
Reason:	Finalized On/By: 30.01.2024 16:18:38 SSKAGGS
	Follow-Up Change Requ... : 7719

Reroute Change Request

When processing a change request, an approver may reject the request and send back for revision. After the change request is revised, it can be sent directly back to the approver who rejected the request by bypassing any intermediate users/approvers in the workflow.

In order to enable a workflow to be rerouted to the approver who rejected a change request, check the checkbox for Reroute Revision in the Change Request Details when creating the change request type.

Change Request Details * Denotes Required Field



Change Request Type* YC1RRS1	Change Request Description* Create Customer Reroute (STD WF)
Data Model BP - Business Partner	Edition Type <input type="text"/>
Business Activity* CUP1 - Create Customer	<input type="checkbox"/> Target System <input type="checkbox"/> Switch Classification

Change Request Type Additional Options

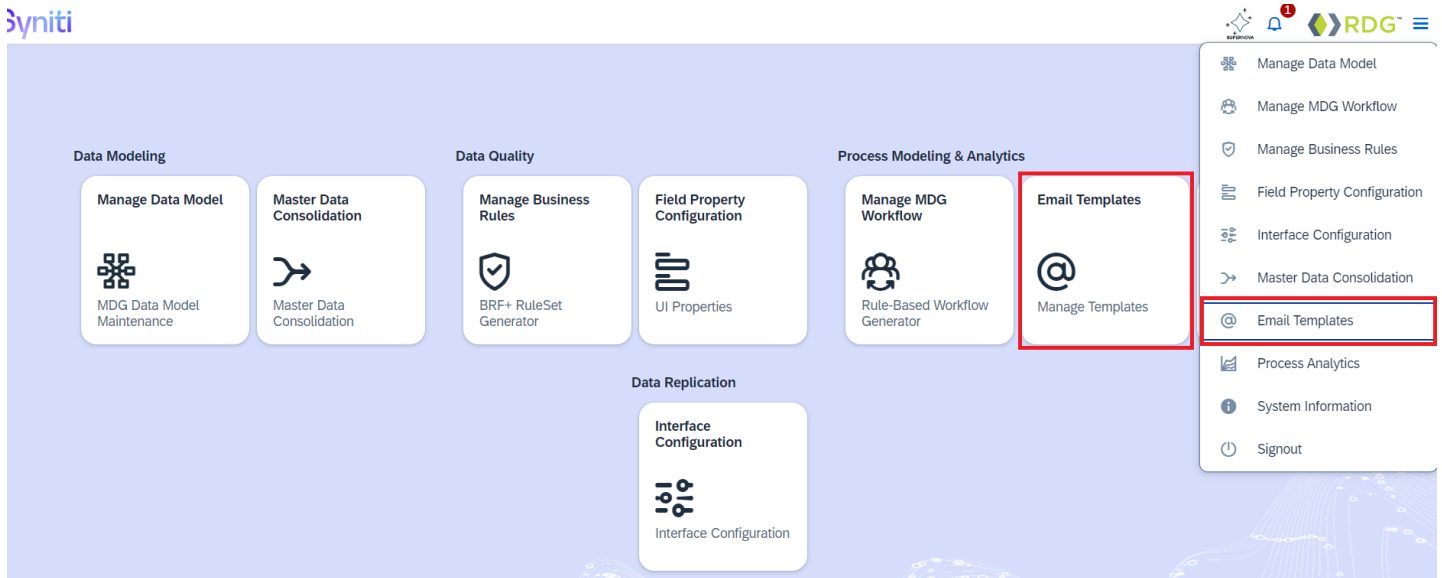
Single Object Parallel 4 eyes Principle

Reroute Revision

Main Entity*
BP_HEADER - Busines...

Click  to save the workflow as a draft, then click  to activate it.

Email Templates



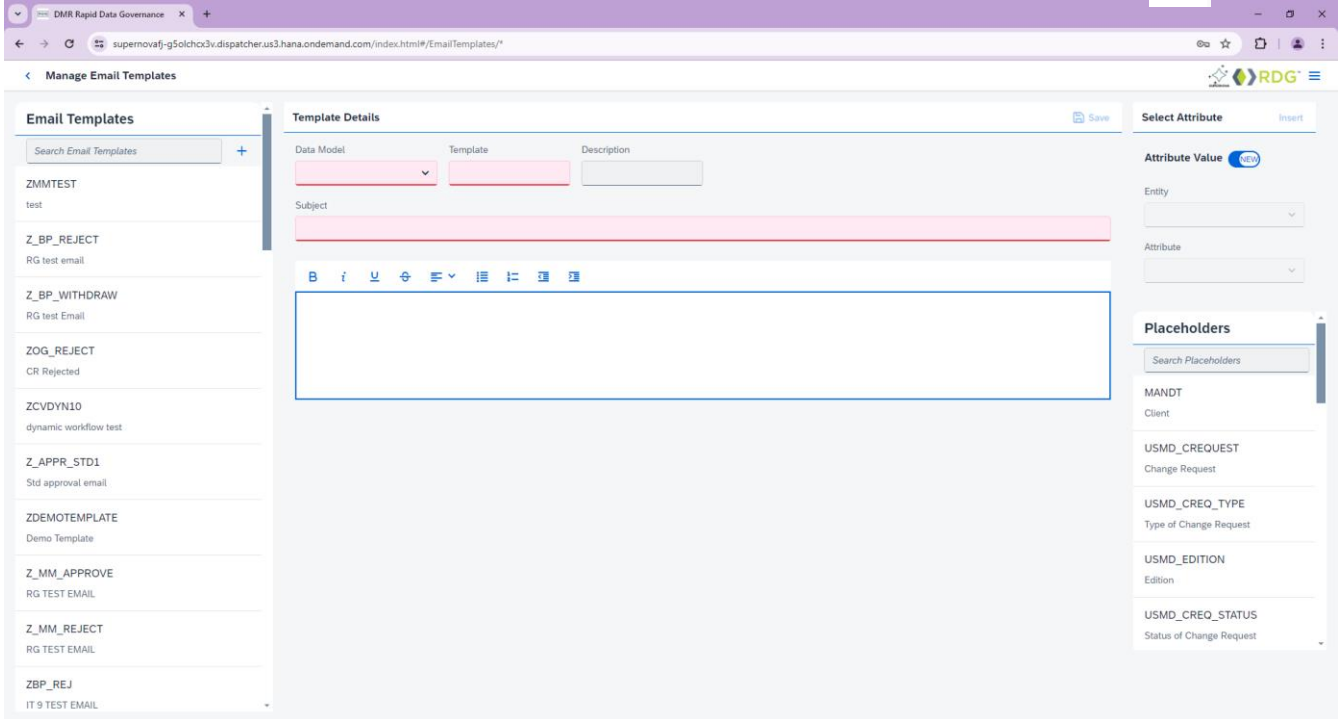
Email templates can be created and added to any workflow wherever required in the approval process. By creating an email template and including it in a change request type workflow, an email will automatically be generated and sent to the appropriate person(s) when a change request is created or at any point designated in the workflow.

Go to Open Application Menu and select Email Templates or choose the Email Templates tile from the Home page.

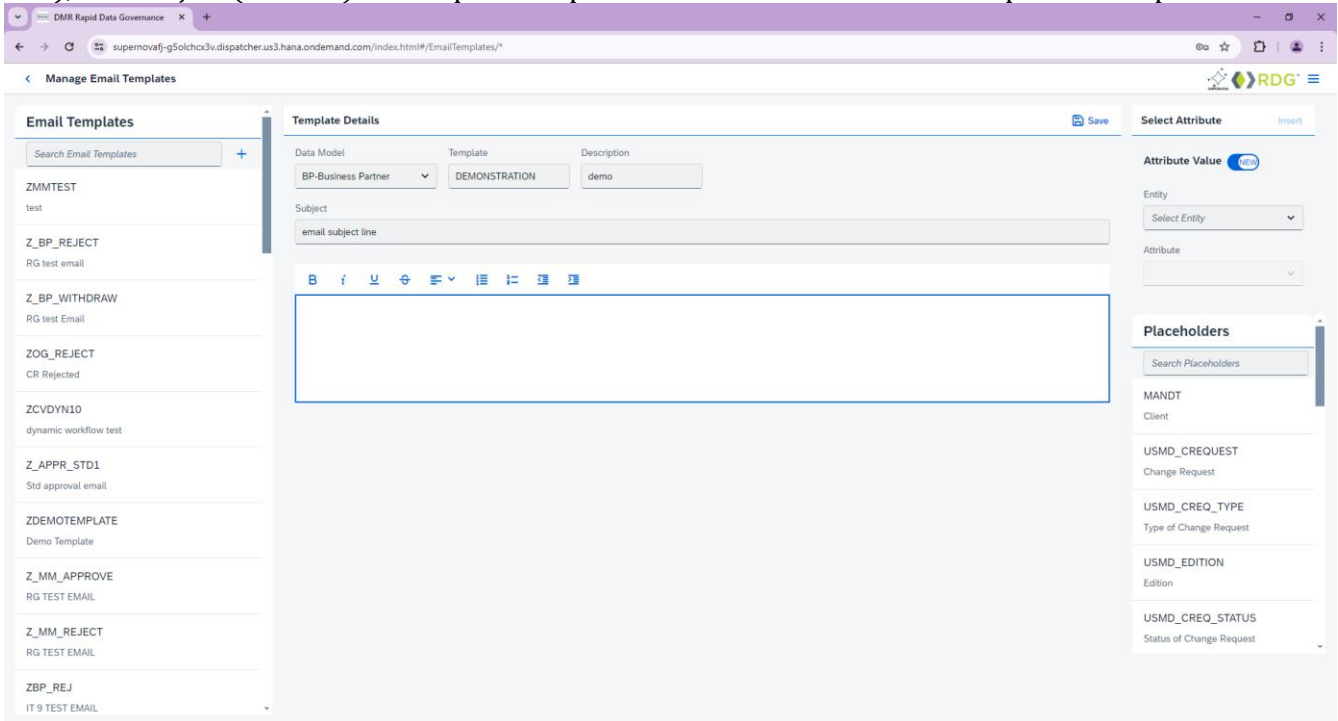


Create a New Email Template

- Existing templates will appear in the column on the left. To create a new template, click the  button.



- Required information for a new template includes Data Model, Template name (not required to begin with Y or Z), and Subject (of email). Description is optional. Fill in these fields at the top of the template.

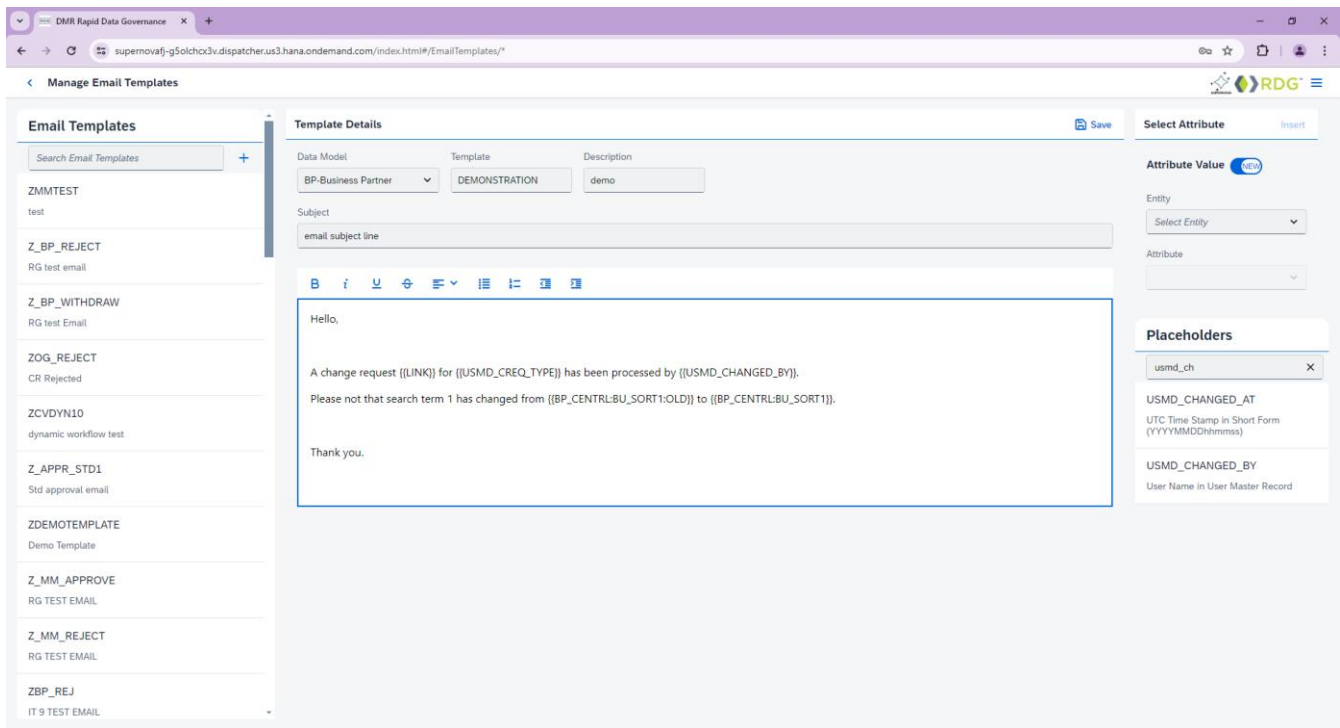


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3. Write the text of the email in the editor below the template details.

A variety of placeholders are available on the right side of the screen to customize the email with the header data of the change request. A link to the change request can also be provided to the recipient for easier approval. If NOTES is selected, text from all of the notes that have been added to the change request will be included in the email. Alternatively, if LAST_NOTE is selected, only the most recent note added to the change request will be included in the email.

Any attribute's value may also be included. Attribute values may be old or new. If Old is selected in the toggle when adding the attribute, the previous value of the attribute will be included in the email if the attribute value was changed. If New is selected in the toggle when adding the attribute, the updated value of the attribute will be included in the email.



4. Click the Save button in the top right above the template details to save the new template. Choose an appropriate Transport Request. After saving, use Tcode SO10 to view the format of the text in SAP.

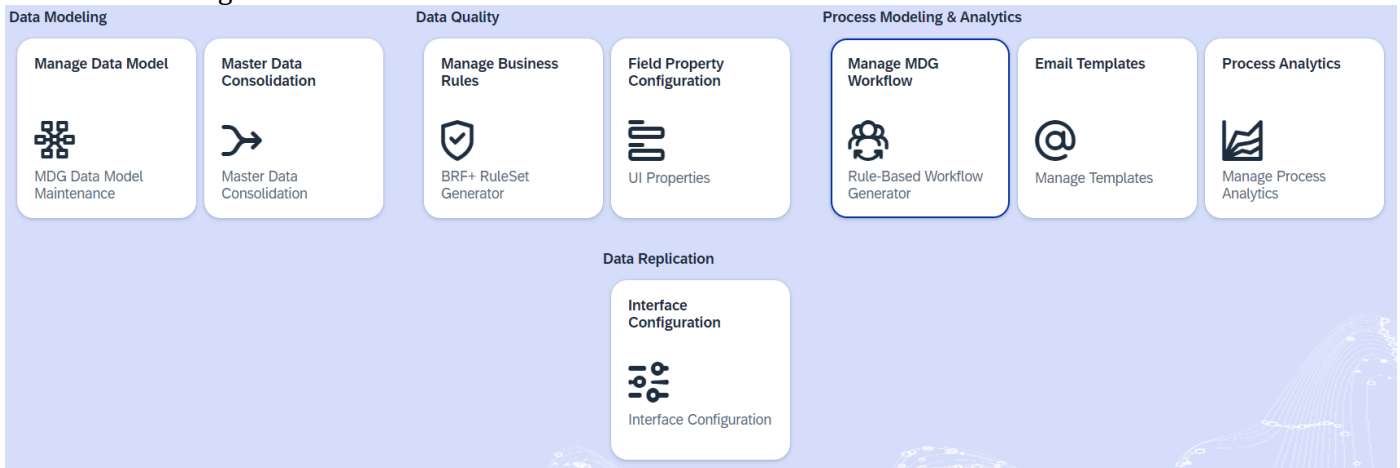
EMAIL TEMPLATE SAVE SUCCESS

Email template is created successfully in workbench transport T42K900004. You can check the format in Tcode SO10

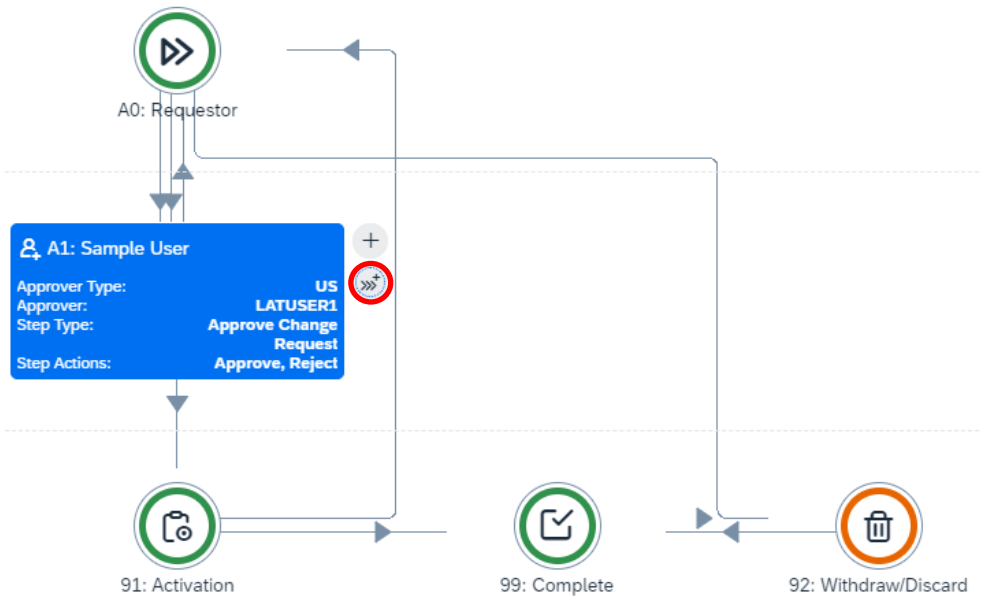
OK

Use an Email Template in a Workflow

1. Choose the Manage MDG Workflow tile from the RDG home screen.



2. Choose an existing change request type or create a new one. Click the Edit Connections icon in the Workflow Graph at whatever point an automatically generated email is desired.



3. At each action where an email is desired, click the Email Template drop-down box for that row and choose a template. Clicking the Manage Email Templates icon next to this drop-down box will display the selected template details.

Change Request Priority	Change Request Reason	Reason of Rejection	Target State	Status	Status Description	Email Template
LATUSER1 - APPROVE (03)						
<input type="text"/>	<input type="text"/>	<input type="text"/>	91 - Activation	05 - Final Check Approved		<input type="text"/>
LATUSER1 - REJECT (04)						
<input type="text"/>	<input type="text"/>	<input type="text"/>	A0 - Requestor	03 - To Be Revised	L - Change of Object List	<ul style="list-style-type: none"> ZBP_APPROVE - Approve CR ZBP_REJECT - CR Rejected ZBP_REQUESTOR - CR is with requestor ZCVDYN10 - dynamic workflow test Z_APPR_STD1 - Std approval email ZDEMOTEMPLATE - Demo Template ZTR_BP - create business partner

4. Click Add Email  to add email addresses. Add as many addresses as required.

Additional Emails

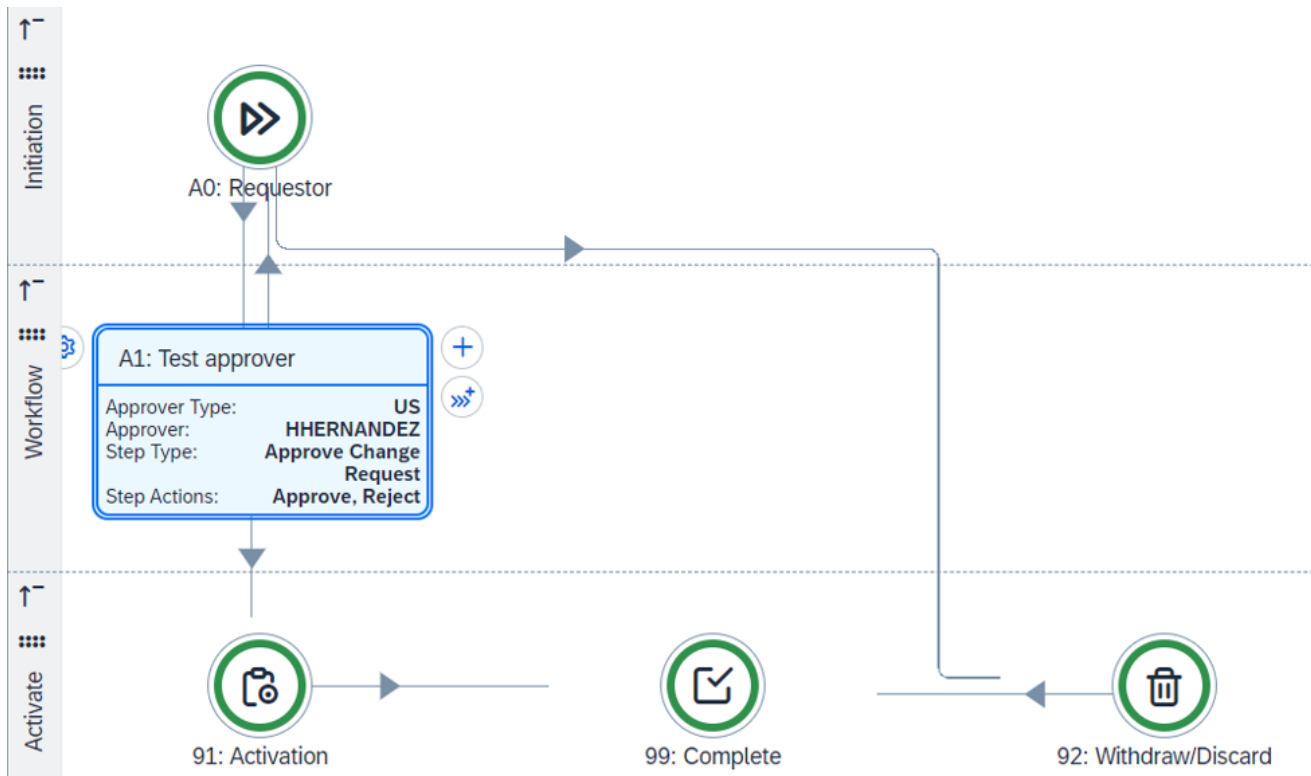
Email	
<input type="text"/>	<input data-bbox="831 814 857 844" type="button" value="+"/>
mail@email.com	<input data-bbox="824 877 847 907" type="button" value="X"/>
mail1@email.com	<input data-bbox="824 940 847 970" type="button" value="X"/>

5. Save the workflow.

Adding Change Request Attachment to Email

Files attached to a change request can be sent along with an email notification following the completion of a change request step. An email template must be assigned in the connection node triggering the email. The resulting email attachment can be verified in transaction code SOST.

1. Assign Email template to Change Request step






Edit Action Targets for A1: Test approver

Email template assigned to Approval step

Change Request Priority	Change Request Reason	Reason of Rejection	Target State	Status	Status Description	Email Template
IHERNANDEZ - APPROVE (03)						
▼	▼	▼	91 - Activation	05 - Final Check ...		ZRKTEST1 - ...



2. Attach file in CR Header

Add File Attach file in CR Header  

File:* 

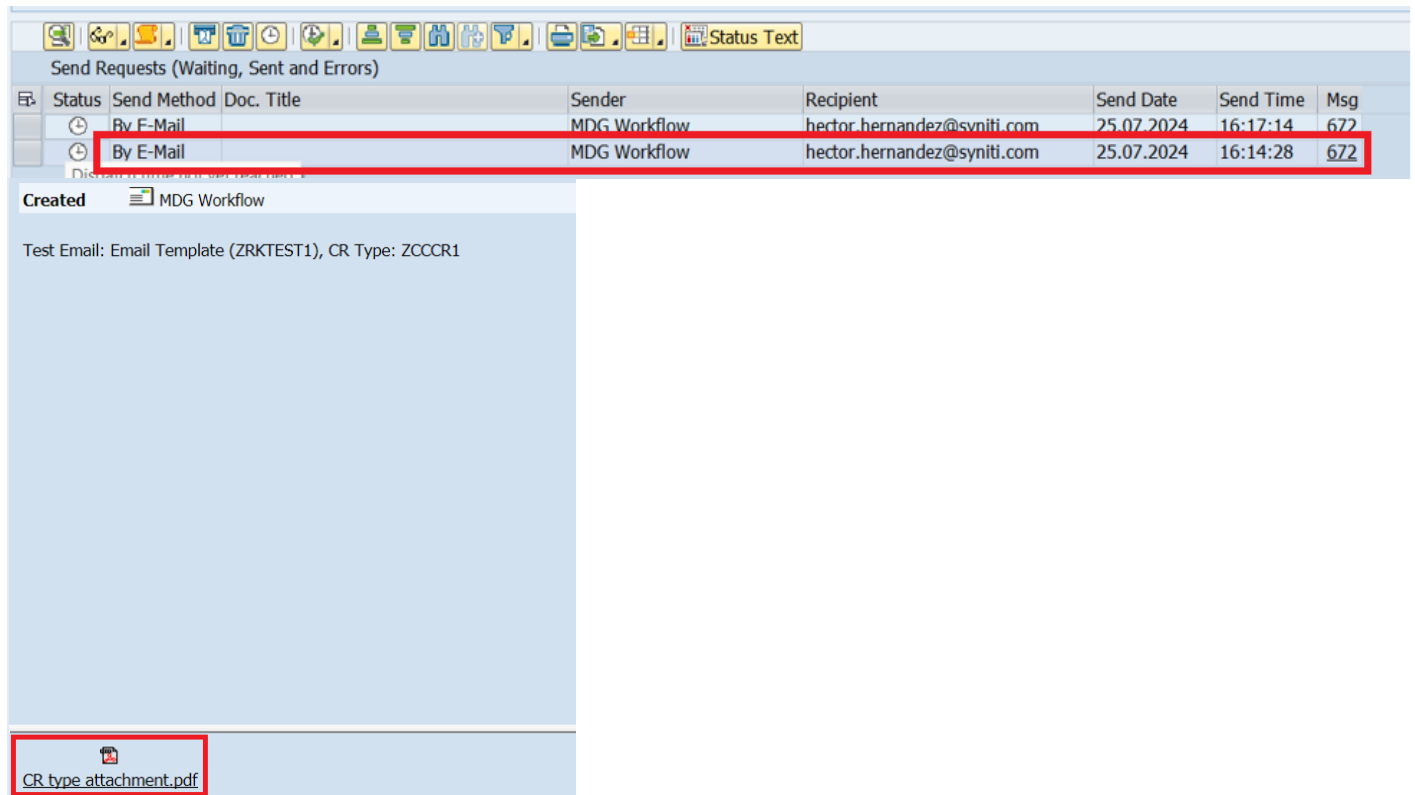
Title:*

Comment:


3. Approve Change Request to trigger email notification.

4. Validate email and attachment using t-code SOST.




The screenshot shows the SAP SOST transaction interface. At the top, there is a toolbar with various icons and a 'Status Text' button. Below the toolbar is a table titled 'Send Requests (Waiting, Sent and Errors)'. The table has columns for Status, Send Method, Doc. Title, Sender, Recipient, Send Date, Send Time, and Msg. Two rows are visible, both with a status of 'By E-Mail'. The first row has a Send Date of 25.07.2024 and a Send Time of 16:17:14. The second row has a Send Date of 25.07.2024 and a Send Time of 16:14:28. Below the table, there is a section titled 'Created' with a sub-section 'MDG Workflow'. The text 'Test Email: Email Template (ZRKTEST1), CR Type: ZCCCR1' is displayed. At the bottom left, there is a red-bordered box containing a PDF icon and the text 'CR.type.attachment.pdf'.

Status	Send Method	Doc. Title	Sender	Recipient	Send Date	Send Time	Msg
By E-Mail			MDG Workflow	hector.hernandez@syniti.com	25.07.2024	16:17:14	672
By E-Mail			MDG Workflow	hector.hernandez@syniti.com	25.07.2024	16:14:28	672

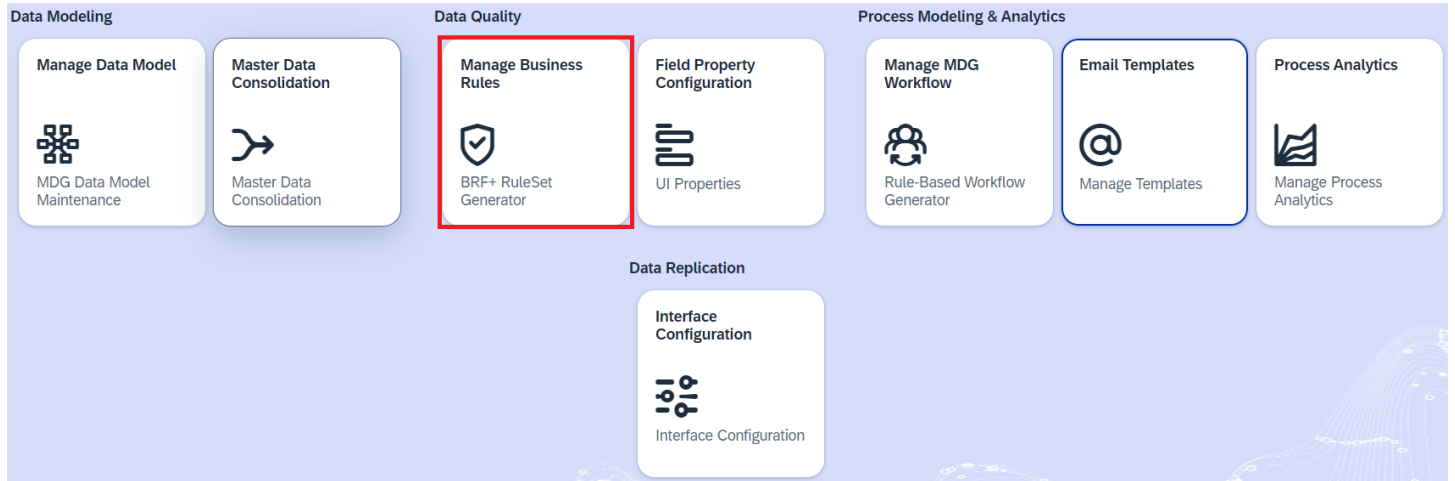
Created  MDG Workflow

Test Email: Email Template (ZRKTEST1), CR Type: ZCCCR1

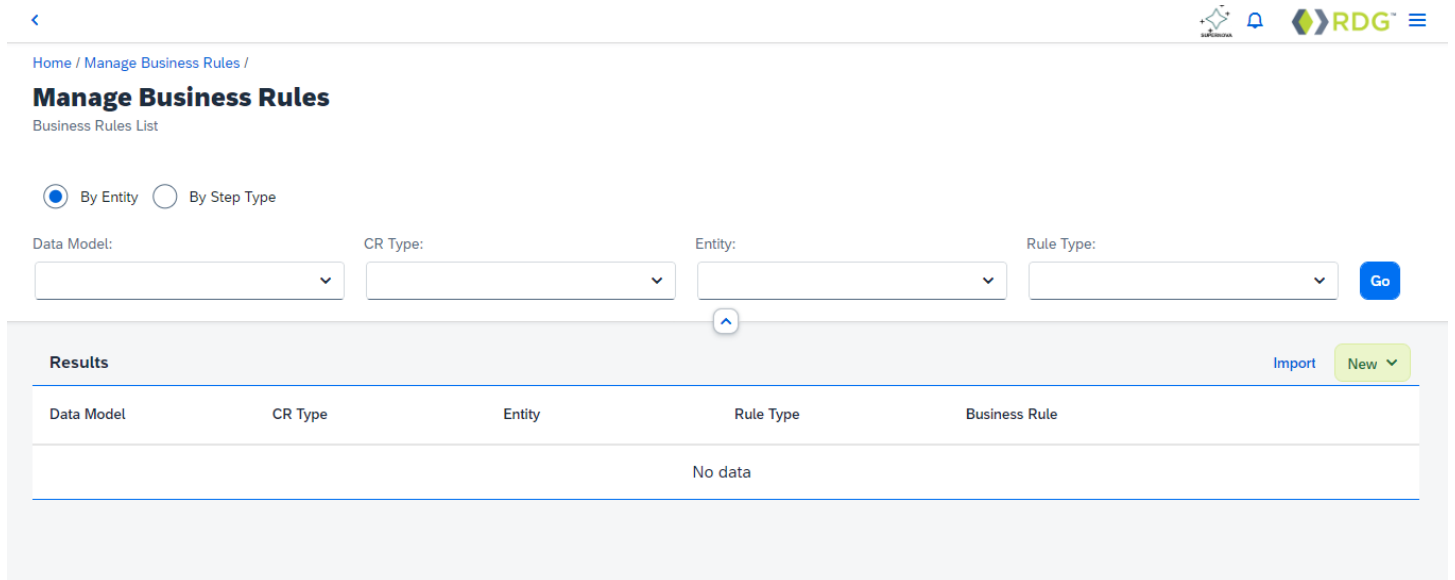
 CR.type.attachment.pdf

Manage Business Rules

RDG provides breakthrough technology to bridge the gap to the known BRF+ MDG limitation to allow cross-entity checks and enrichment in Business Rule Management. RDG provides simple UI control for users to maintain Business rules, automating configuration steps and executing APIs to create them as BRF+ rules in the MDG system.



On the main business rules screen, first select By Entity or By Step Type. By Entity is the default selection. Then filter to see existing business rules, import, or create new rules.





Filtering Existing Business Rules

Any combination of the four search filters (Data Model, CR Type, Entity, and Rule Type) can be used to search for existing rules, provided at least one of either Data Model or CR Type is selected. Click Go to see all of the rules created that meet the filter criteria.

Data Model: CR Type: Entity: Rule Type:

Results

Data Model	CR Type	Entity	Rule Type	Business Rule
OG Financials	ZACC1P1 Create Account - DND	ACCCDET G/L Account (Company Code)	4 Multi Value Validation	testing tax category attribute
OG Financials	ZACC_DYN ZACC_DYN	ACCCDET G/L Account (Company Code)	4 Multi Value Validation	ZAP_0G_ACCCCDET_ZACC_DYN_V01
OG Financials	Z13365_1 13365_1 account	ACCCDET G/L Account (Company Code)	4 Multi Value Validation	ZAP_0G_ACCCCDET_Z13365_1_V01

Click the arrow at the end of the row to see individual rule details.

Creating New Business Rules by Entity

To create a new rule, click the New button on the right side of the screen. Five types of rules can be created by entity. Select the type required.

Home / Manage Business Rules /

Manage Business Rules

Business Rules List

By Entity By Step Type

Data Model: CR Type: Entity: Rule Type:

Results

Data Model	CR Type	Entity	Rule Type	Business Rule
No data				

- Mandatory Rule
- Value Check Rule
- Derivation Rule
- Multivalue Check Rule
- Multivalue Derivation Rule

Mandatory Rule

1. Choose the Data Model, CR Type, and Entity at the top of the screen. After selecting the Entity, a list of attributes will appear at the bottom of the screen.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Data Model: Entity:
 CR Type: Rule Type:

Set Mandatory Attributes	
BEHVO (Container requirements, Field Type: Attribute)	<input type="checkbox"/>
ETIAR (Label type, Field Type: Attribute)	<input type="checkbox"/>
ETIFO (Label form, Field Type: Attribute)	<input type="checkbox"/>
IPRKZ (Period Indicator for Shelf Life Expiration Date, Field Type: Attribute)	<input type="checkbox"/>
MATERIAL (Basic Data, Field Type: Leading Entity Type)	<input type="checkbox"/>
MHDHB (Total shelf life, Field Type: Attribute)	<input type="checkbox"/>
MHDLP (Storage percentage, Field Type: Attribute)	<input type="checkbox"/>
MHDRZ (Minimum Remaining Shelf Life, Field Type: Attribute)	<input type="checkbox"/>
RAUBE (Storage conditions, Field Type: Attribute)	<input type="checkbox"/>
RDMHD (Rounding rule for calculation of SLED, Field Type: Attribute)	<input type="checkbox"/>
SCMM_MDUR (Maturation Time, Field Type: Attribute)	<input type="checkbox"/>
SCMM_SLRM (Required Maximum Shelf Life, Field Type: Attribute)	<input type="checkbox"/>
STOMARAST (Hazardous material number, Field Type: Attribute)	<input type="checkbox"/>

2. Select the attribute to set as Mandatory. Click the toggle to the right of the attribute.

BEHVO (Container requirements, Field Type: Attribute)

3. Select the appropriate TR if prompted.
4. Select additional attributes as required.

BEHVO (Container requirements, Field Type: Attribute)	<input checked="" type="checkbox"/>
ETIAR (Label type, Field Type: Attribute)	<input checked="" type="checkbox"/>
ETIFO (Label form, Field Type: Attribute)	<input checked="" type="checkbox"/>
IPRKZ (Period Indicator for Shelf Life Expiration Date, Field Type: Attribute)	<input type="checkbox"/>
MATERIAL (Basic Data, Field Type: Leading Entity Type)	<input type="checkbox"/>

5. BRF+ application will be updated with the rule(s) created.

Value Check Rule

RDG provides the flexibility to apply the business rules with the appropriate messages if conditions do not meet the business rule.

1. Choose the Data Model, CR Type, and Entity at the top of the screen.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Save

Data Model: * ▼

Entity: * ▼

CR Type: * ▼

Rule Type: * ▼

Rule Name:

WF_STEP: ** - For every WF step ▼

Value Check Rule Rule Active

Attribute ▼ Check expression ▼ »»

Message Type

Information Warning Error

Message

Message Class Custom Message

Custom Message *

2. Select the attribute for the value check and the expression

Value Check Rule Delete Business Rule

Attribute ▼ Check expression ▼ »»

3. Select generate flow »»»

4. Complete the conditions using values or attributes:

Edit Node Details

Entity: AD_POSTAL - Physical... Attribute: REF_POSTA - Country ...

Compare Against: Value Attribute

Comparison: EQ - is equal to

Value: IN - India

Save Cancel

The diagram shows a workflow step in 'Lane: 0'. It contains two message boxes. The left box is labeled 'AD_POSTAL - REF_POSTA' and contains 'EQ' and 'DK'. The right box is also labeled 'AD_POSTAL - REF_POSTA' and contains 'EQ' and 'IN'. An 'or' gate connects the two boxes.

5. Select the workflow step determining when the rule will be enforced.

6. Select the message type details. A preconfigured message class and text or custom message can be used.

Attribute: REF_POSTA - Country ... Check expression: <1> or <2>

The diagram is identical to the one in step 4, showing a workflow step in 'Lane: 0' with two message boxes connected by an 'or' gate. The left box contains 'EQ' and 'DK', and the right box contains 'EQ' and 'IN'.

Workflow Step*: ** - For every WF step

Message Type: Information Warning Error

Message: Message Class Custom Message

Custom Message*: COUNTRY IS INVALID

If AD_POSTAL-REF_POSTA = “DK” Or AD_POSTAL = “IN,” then display error message “COUNTRY IS INVALID” for All workflow steps

7. Save and select the TR.

8. The rule is created in the BRf application, and a successful message should appear.

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Multi-value Check Rule

Multi validation Rule allows us to create the multiple business rules by adding validating attributes with the appropriate messages if conditions do not meet the business rule.

Additionally, it allows us to delete a single Rule from the list of rules or delete rules in their entirety.

1. Choose the Data Model, CR Type, and Entity at the top of the screen.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

 Save


Data Model: *

CR Type: *

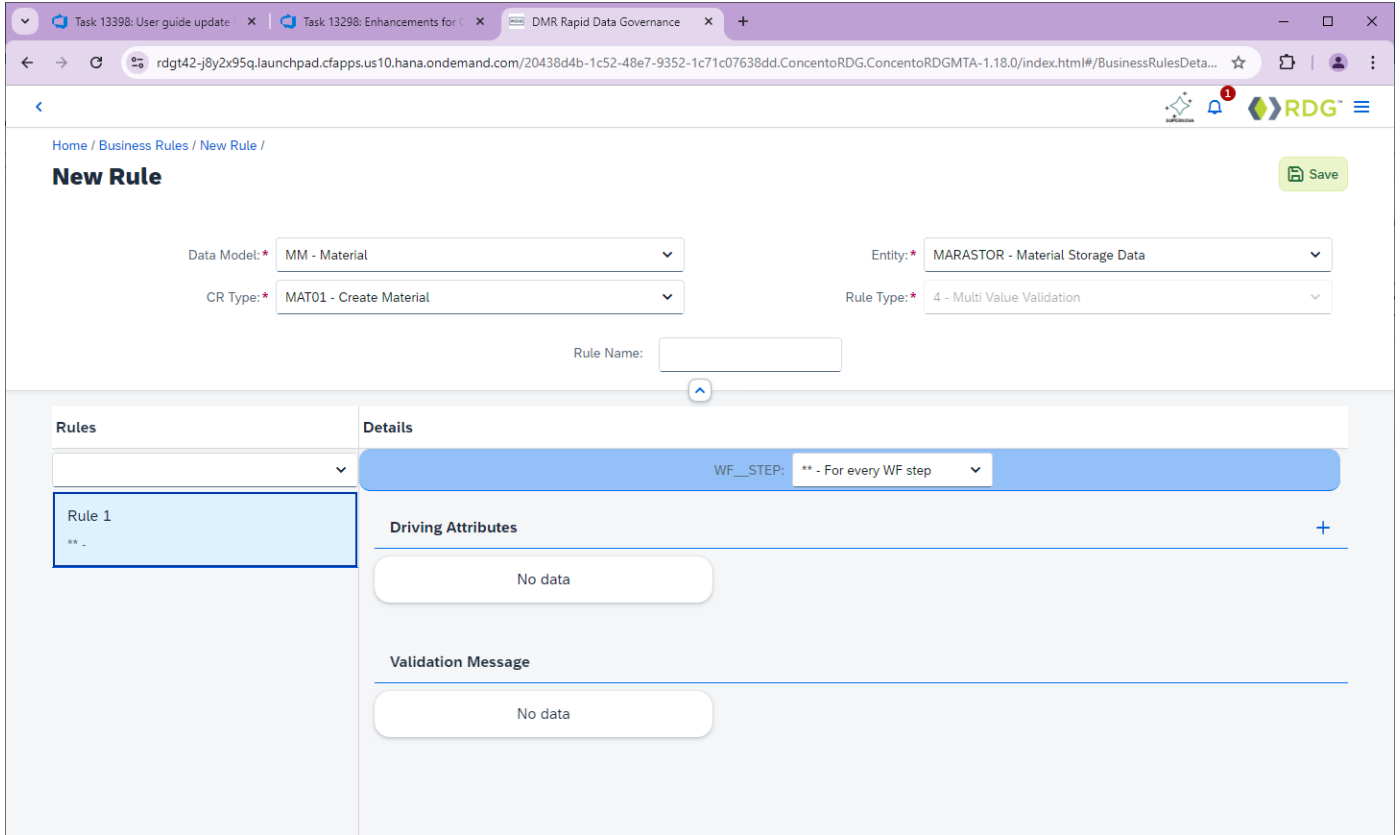
Entity: *

Rule Type: *

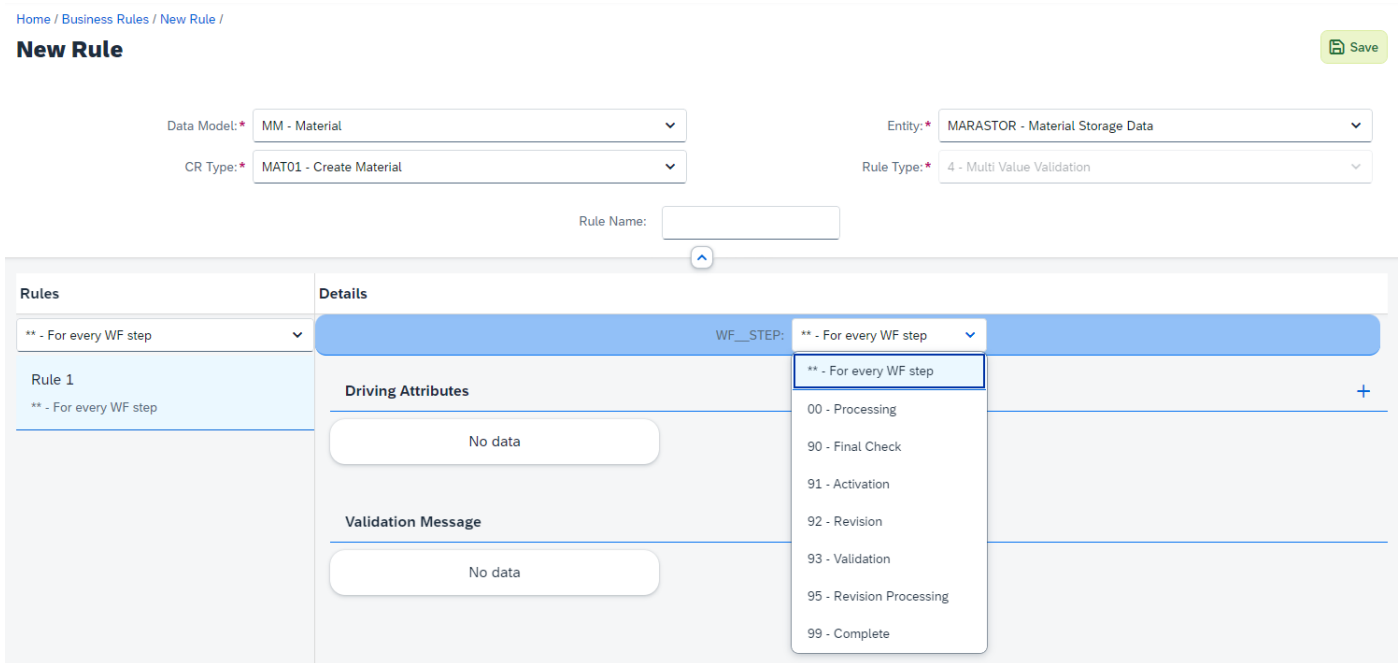
Rule Name:

Rules	Details
<input type="text" value="Rule 1"/>	<div style="text-align: center;"><p>Please select valid rule or create a new rule to view / edit the content. If the rule has been created outside of this tool, we recommend that you recreate the same within the tool.</p></div>

2. Select Rule 1 on the left side of the screen.



3. Select the workflow step from the drop-down box in the middle of the screen.



- Click + to add driving attribute(s). Select an entity and any attributes for the entity that are required.

Home / Business Rules / New Rule /

New Rule Save

Data Model: * MM - Material Entity: * MARASTOR - Material Storage Data

CR Type: * MAT01 - Create Material Rule Type: * 4 - Multi Value Validation

Rule Name:

Rules	Details
** - For every WF step	<p>Driving Attributes</p> <p>No data</p> <p>Validation Message</p> <p>No data</p>

Select Attribute

Entity *
MARASTOR - Material Storage Data

Attribute *
 Value Length

Add Attributes Cancel

- Add additional entity/attributes as necessary. Select comparison operators and values for each attribute.

Home / Business Rules / New Rule /

New Rule Save

Data Model: * MM - Material Entity: * MARASTOR - Material Storage Data

CR Type: * MAT01 - Create Material Rule Type: * 4 - Multi Value Validation

Rule Name:

Rules	Details
** - For every WF step	<p>WF__STEP: ** - For every WF step</p> <p>Driving Attributes</p> <p>MARASTOR__RAUBE = 01 - Storage condition 1</p> <p>MARASTOR__MHDLP < 50</p> <p>Validation Message</p> <p>MESSAGE TYPE</p> <p>MESSAGE CLASS</p> <p>MESSAGE NUMBER</p>

6. After attribute details are added, select a Message Type, Message Class, and Message Number.

Home / Business Rules / New Rule /

New Rule



Data Model: * MM - Material
 CR Type: * MAT01 - Create Material
 Entity: * MARASTOR - Material Storage Data
 Rule Type: * 4 - Multi Value Validation
 Rule Name:

Rules

** - For every WF step

Rule 1
** - For every WF step

Details

WF__STEP: ** - For every WF step

Driving Attributes

MARASTOR__RAUBE

= 01 - Storage condition 1

MARASTOR__MHDLP

< 50

Validation Message

MESSAGE TYPE

W - Warning

MESSAGE CLASS

11 - External Services Management

MESSAGE NUMBER

012 - Contract &1 for order &2 ...

7. If the message text has placeholders, they may be entered by clicking the button next to the Message Number. **Either** an attribute value or a fixed value are valid.

Formula Table

Type * Placeholders

Placeholder	Entity	Attribute	Fixed Value
&1	MATERIAL - Basic Data	MTART - Material Type	
&2			12345

Contract {[MATERIAL-MTART]} for order 12345 not found

[Preview](#)

Save Cancel

8. Use the + button on the left side of the screen to add additional rules. Attribute values and message information must be entered for each rule added. If an additional attribute is added to one of the rules, the

same attribute will be automatically included in the other rules.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Save

Data Model: * MM - Material Entity: * MARASTOR - Material Storage Data
CR Type: * MAT01 - Create Material Rule Type: * 4 - Multi Value Validation

Rule Name:

Rules

- ** - For every WF step
- Rule 1
** - For every WF step
- Rule 2
** - For every WF step**
- Rule 3
** - For every WF step

Details

WF_STEP: ** - For every WF step

Driving Attributes

MARASTOR__RAUBE = MARASTOR__MHDLP =

Validation Message

MESSAGE TYPE: MESSAGE CLASS: MESSAGE NUMBER:

9. Save the Rule Configuration, select TR and Package. Success message should appear.

[Home](#) / [Business Rules](#) / [ZAP_MM_MARASTOR_MAT01_V02](#)

ZAP_MM_MARASTOR_MAT01_V02


Save Delete

Data Model: * MM - Material Entity: * MARASTOR - Material Storage Data
CR Type: * MAT01 - Create Material Rule Type: * 4 - Multi Value Validation

Rule Name: ZAP_MM_MARASTOR_M...

Messages issued

Status

 'BRF application ZAP_MM_MARASTOR_MAT01_V02 is created and saved in BADI Implementation ZMDR_MARAMHDLP'

Close

Driving Attributes

01 - Storage condition 1 < 50

Validation Message

MESSAGE TYPE: W - Warning MESSAGE CLASS: 11 - External Services Management MESSAGE NUMBER: 012 - Contract &1 for order &2 ...

Derivation Rule

RDG Derivation Rule enables the derivation of a single value based on the business conditions for the driving attribute values between the entities.

1. Choose the Data Model, CR Type, and Entity at the top of the screen.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

 Save

Data Model: * Entity: *

CR Type: * Rule Type: *

Rule Name:

WF_STEP: ** - For every WF step

Derivation Rule Rule Active

Attribute Check expression

When condition is TRUE Value Attribute

When condition is FALSE Value Attribute No Action

Value

2. Select the workflow step from the drop-down box in the middle of the screen.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Save

Data Model: * Entity: *
CR Type: * Rule Type: *

Rule Name:

WF_STEP:

Derivation Rule

Attribute

When condition is TRUE

Value Attribute

Value

Active

No Action

- ** - For every WF step
- 00 - Processing
- 90 - Final Check
- 91 - Activation
- 92 - Revision
- 95 - Revision Processing
- 96 - Processing After Activation Error
- 99 - Complete

3. Select the attribute for the derivation and the expression. User-defined expression allows the creation of any number of conditions with any combination of and/or conditions. Select generate flow. >>>

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Save

Data Model: * Entity: *

CR Type: * Rule Type: *

Rule Name:

Attribute
Check expression

Lane: 0

When condition is TRUE

Value Attribute

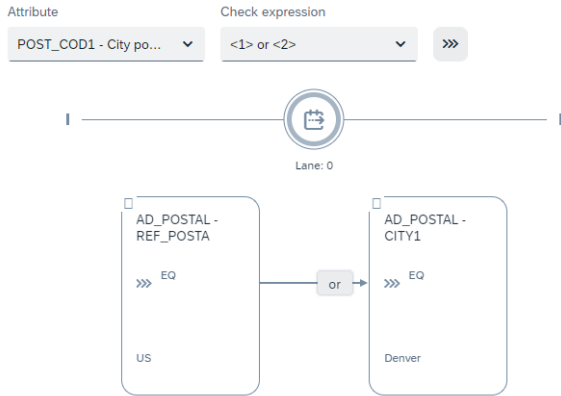
When condition is FALSE

Value Attribute No Action

Value

4. Complete the conditions using values or attributes. In this example,

- If AD_POSTAL-REF-POSTA = "US"
- And AD_POSTAL-CITY1 = "Denver"
- Then derive the attribute value AD_POSTAL-POST-COD1 = "80014" only for Initial processing step



Workflow Step*
 0 - Processing

When condition is TRUE
 Value Attribute

Value
 80014

When condition is FALSE
 Value Attribute

Value
 Enter Test Input...

5. To derive the value of another attribute or combination of attributes, select Attribute.

When condition is TRUE

Value Attribute



Click the formula table button. Choose either String Concatenation or Mathematical Formula and enter any combination of attribute values and fixed values as required. Optionally include a delimiter.

Formula Table

Type* String Concatenation + ADD DELETED

Delimiter

Entity	Attribute	Fixed Value
AD_POSTAL	DISTRICT - District	<input type="text"/>
<input type="text"/>	<input type="text"/>	zone
AD_POSTAL	RFE_POSTL - Transportation z...	<input type="text"/>

{{AD_POSTAL-DISTRICT}} zone {{AD_POSTAL-RFE_POSTL}}

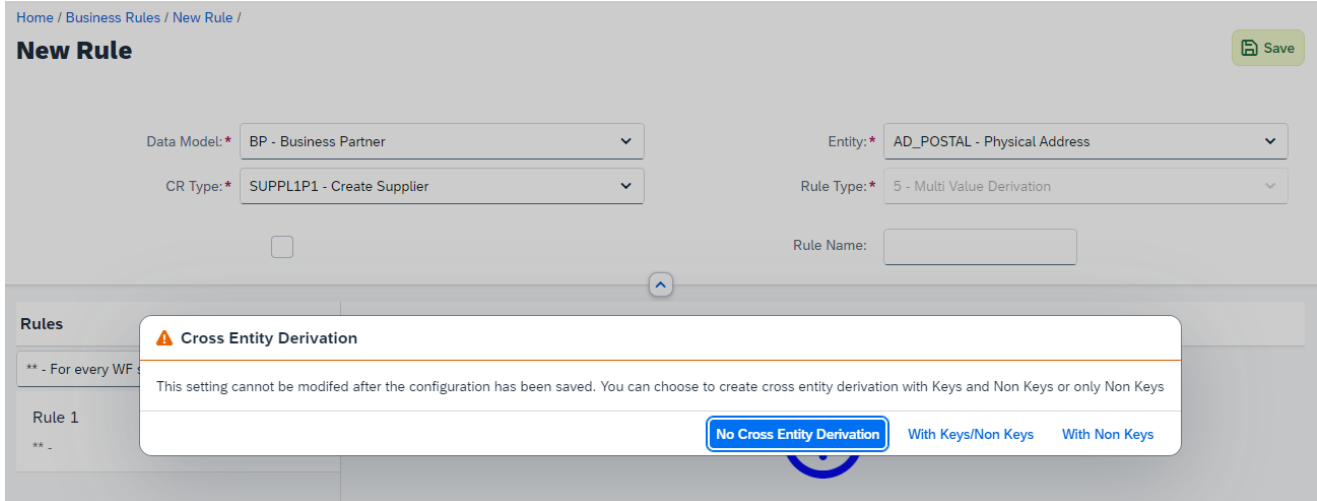
Save Cancel

6. Save the Rule Configuration, select TR and Package. Success message should appear.

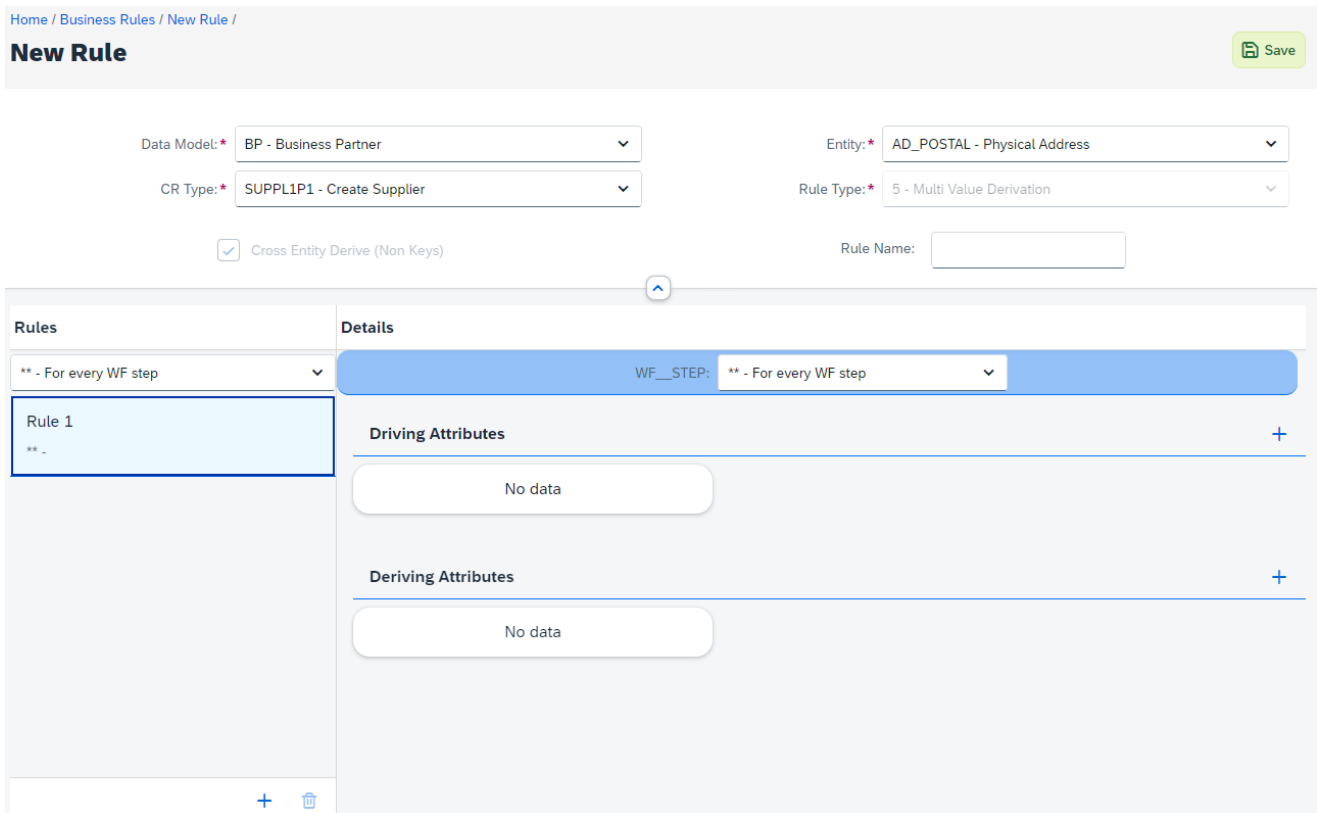
Multi-value Derivation Rule

Allows the addition of multiple derivation rules based on the conditions of the driving attribute values.

1. Choose the Data Model, CR Type, and Entity at the top of the screen. After selecting the entity, a message box for cross-entity option will appear. Choose whether cross entity derivation applies to the rule that will be created and determine whether or not dependent key entries are needed.



2. Select Rule 1 from the left side of the screen.



3. Add the Driving and Deriving Attribute by clicking the + button on the right side of the screen.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Save

Data Model: Entity:
 CR Type: Rule Type:
 Cross Entity Derive (Non Keys) Rule Name:

Rules	Details
** - For every WF step	WF_STEP: ** - For every WF step
Rule 1 ** -	<p>Driving Attributes +</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 5px;"> BP_COMPANY__COMPANY = <input type="text"/> </div> <div style="border: 1px solid #ccc; padding: 5px;"> AD_POSTAL__REF_POSTA = <input type="text"/> </div> </div> <p>Deriving Attributes +</p> <div style="border: 1px solid #ccc; padding: 5px;"> AD_POSTAL__SORT2_AD <input type="text"/> </div>

4. Enter values for driving and deriving attributes. Change the comparison operators for the driving attributes if needed.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Save

Data Model: Entity:
 CR Type: Rule Type:
 Cross Entity Derive (Non Keys) Rule Name:

Rules	Details
** - For every WF step	WF_STEP: ** - For every WF step
Rule 1 ** -	<p>Driving Attributes +</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid #ccc; padding: 5px;"> BP_COMPANY__COMPANY = <input type="text" value="0001"/> </div> <div style="border: 1px solid #ccc; padding: 5px;"> AD_POSTAL__REF_POSTA = <input type="text" value="CA - Canada"/> </div> </div> <p>Deriving Attributes +</p> <div style="border: 1px solid #ccc; padding: 5px;"> AD_POSTAL__SORT2_AD <input type="text" value="CA_EXTERNAL"/> </div>

- Use the + button on the left side of the screen to add additional rules. Attribute values and message information must be entered for each rule added. If an additional attribute is added to one of the rules, the same attribute will be automatically included in the other rules.

[Home](#) / [Business Rules](#) / [New Rule](#) /

New Rule

Save

Data Model: * BP - Business Partner

Entity: * AD_POSTAL - Physical Address

CR Type: * SUPPL1P1 - Create Supplier

Rule Type: * 5 - Multi Value Derivation

Cross Entity Derive (Non Keys)

Rule Name:

Rules	Details
** - For every WF step	WF__STEP: ** - For every WF step
Rule 1 ** -	Driving Attributes +
Rule 2 ** - For every WF step	<div style="display: flex; justify-content: space-around;"> <div> <p>BP_COMPNY__COMPANY</p> <p>= 0001</p> </div> <div> <p>AD_POSTAL__REF_POSTA</p> <p>= US - USA</p> </div> </div>
	Deriving Attributes +
	<div style="border: 1px solid blue; padding: 5px;"> <p>AD_POSTAL__SORT2_AD</p> <p>US_INTERNAL</p> </div>

- Save Configuration, select TR and Package. Successful message should appear.



Single value rules that use short/medium/long texts for driving or deriving attributes are not valid and should not be created. To create rules using these fields, choose multivalue rules instead.

String Concatenation

Rules may specify derivations of concatenated String values of attributes or fixed values. String concatenation functionality may be used for single value and multivalued derivation rules.

1. Choose Derivation Rule, select the attribute, check expression, and conditions (see [Derivation Rule](#)).

OR

Choose Multivalued Derivation Rule (see [Multivalued Derivation Rule](#)) and add a deriving attribute that has a character String data type.

2. For Derivation Rule: When condition is TRUE (or FALSE), select the Attribute radio button. Then click the Formula Table button.

When condition is TRUE

Value
 Attribute

OR

For Multivalued Derivation Rule, click the Formula Table button deriving attribute.

BP_CENTRL_NAME_ORG1 ×

3. In the Formula Table, the type is selected as String Concatenation. Click **+ ADD** to add as many rows as required.

Formula Table

Type* String Concatenation + ADD DELETE

Delimiter Enter Value Here

Entity	Attribute	Fixed Value
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Preview

Save Cancel

4. Enter any number of characters as a delimiter that will be used between the value generated from each row (optional). Spaces or a combination of other characters and spaces are valid.

Delimiter | , |

5. Enter Entity/Attribute and/or Fixed Values in each row. Click Preview to see a preview of the result.

6. Save the Formula Table and finish creating and saving your rule.

Derivation Rule with String Concatenation

1. Create a rule to derive NAMELAST – Last name.

This rule has two conditions:

AD_NAME_P – NAMEFIRST = “John”

AD_NAME_P – NAMELAST = “Jingle”

2. Under When condition is TRUE, choose the Attribute radio button and click the Formula Table button.
3. Add two rows to the formula table. Enter Entity/Attribute and Fixed Values. Click Preview to see the result.

Formula Table

Type * String Concatenation + ADD DELETE

Delimiter

Entity	Attribute	Fixed Value
AD_NAME_P	NAMELAST - Last name	Heimer Schmidt

{{AD_NAME_P-NAMELAST}} Heimer Schmidt

Preview

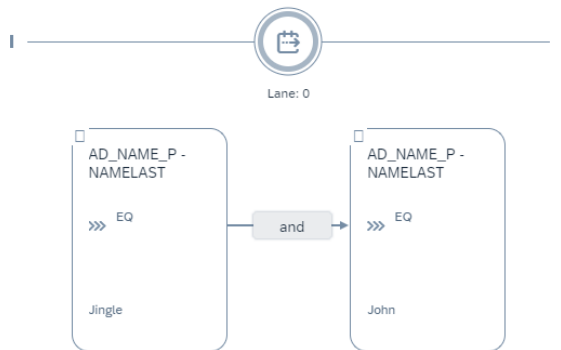
Save Cancel

4. According to the rule, “John Jingle” derives to “John Jingleheimer Schmidt”
5. Save the Formula Table.

Attribute: NAMELAST - Last name

Check expression: <1> and <2>

>>>



Workflow Step * **- For every WF step

When condition is TRUE

Value Attribute

Table Icon {{AD_NAME_P-NAMELAST}}

When condition is FALSE

Value Attribute

Value

Enter Test Input...

6. Complete any other desired aspects of the rule and save.




Arithmetic Derivation

Arithmetic derivation may be used with Single Value Derivation or Multivalue Derivation rules.

1. Choose Derivation Rule, select the attribute, check expression, and conditions (see [Derivation Rule](#)).
2. When condition is TRUE (or FALSE), select the Attribute radio button. Then click the Formula Table button.

When condition is TRUE

Value Attribute



3. In the Formula Table, the Type is selected as String Concatenation as default. Change this selection to Mathematical Formula.

Type* Mathematical Formula

4. Click **+ ADD** to add as many rows as required.

Formula Table

Type* Mathematical Formula + ADD DELETED

Paranthesis	Entity	Attribute	Fixed Value	Operator
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Preview

Save Cancel

5. Enter either an Entity/Attribute OR a Fixed Value in each row. Choose the operator for each row, including parentheses where necessary. Click Preview to see the formula. Save the Formula Table.

Formula Table

Type* Mathematical Formula + ADD DELETED

Paranthesis	Entity	Attribute	Fixed Value	Operator
<input type="text"/>	MATERIAL	BREITMARA - Width	<input type="text"/>	*
<input type="text"/>	MATERIAL	HOHEMARA - Height	<input type="text"/>	*
<input type="text"/>	MATERIAL	LAENGMARA - Length	<input type="text"/>	/
<input type="text"/>	<input type="text"/>	<input type="text"/>	100	<input type="text"/>

$$\{(\text{MATERIAL-BREITMARA})\} * \{(\text{MATERIAL-HOEHEMARA})\} * \{(\text{MATERIAL-LAENGMARA})\} / 100$$

Preview

Save Cancel

6. Save your rule to complete.

Delta Check

Rules may be applied to staging data only by choosing the Delta option. This option can be used for change/update change request types, such as the Process Supplier example below.

1. Turn on the Delta option at the top of any single or multivalued business rule of a relevant change request type.

Home / Business Rules / ZSD64BP_PORGINCO2_LD_02 / **ZSD64BP_PORGINCO2_LD_02** Save Delete

Data Model: BP - Business Partner Entity: BP_PORG - Purchasing Organization
 CR Type: ZSD64 - Process Supplier STAGING - RDG64 Rule Type: 3 - Single Value Derivation

Delta Rule Name: ZSD64BP_PORGINCO2_...

WF_STEP: ** - For every WF step

Derivation Rule Rule Active

Attribute: INCO2_L - Incoterms L... Check expression: <1>

Condition: 0

BP_PORG - PRCH_ORG
 >> NE

When condition is TRUE: Value Attribute
 When condition is FALSE: Value Attribute No Action

Value: ZABCD

2. For this rule, which was created for business activity Process Supplier, the value of Incoterms Location 1 is not derived for the Purchase Organization that already existed.

ERP Vendor Purchasing Organization

Purchasing Organization: Einkaufsorg. 0001

ERP Vendor Purchasing Organization: Conditions

Conditions: Order Currency: AOA (Angolanische Kwanza), Minimum Order Value: 0,00, Schema Group (Vendor): Standard schema vendor, LB Restriction Profile: , Pricing Date Control: No Control, Terms of Payment: .

Incoterms: Incoterms Version: , Incoterms: , Incoterms Location 1: , Incoterms Location 2: .

3. If a new purchase organization is added, the rule is applied and Incoterms Location 1 is derived.

Purchasing Organization: 0002

ERP Vendor Purchasing Organization: Conditions

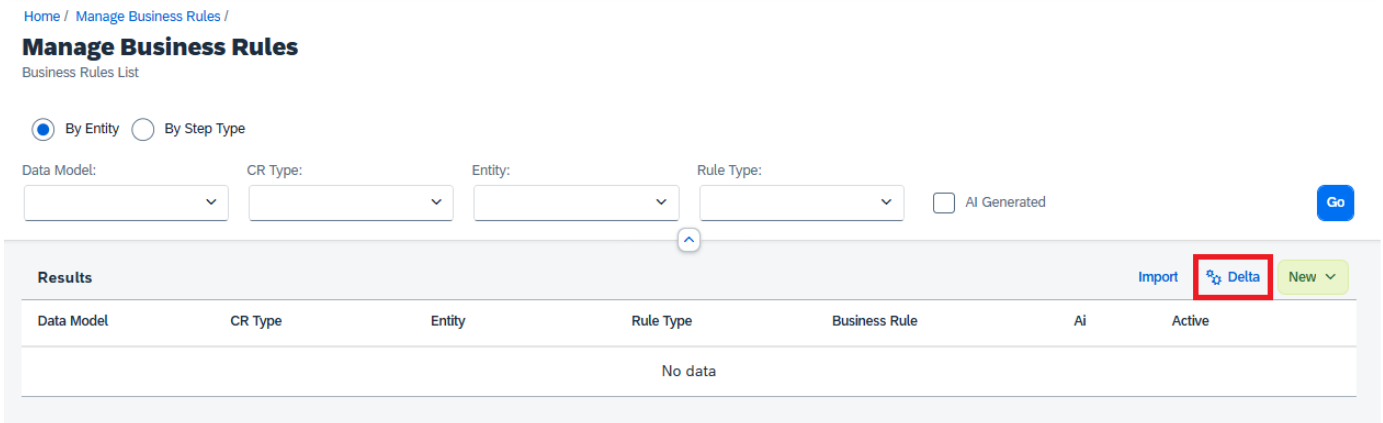
Conditions: Order Currency: AON (Angolan New Kwanza (Old)), Minimum Order Value: 0,00, Schema Group (Vendor): Standard schema vendor, LB Restriction Profile: , Pricing Date Control: No Control, Terms of Payment: .

Incoterms: Incoterms Version: , Incoterms: CFR (Costs and freight), Incoterms Location 1: ZABCD, Incoterms Location 2: .

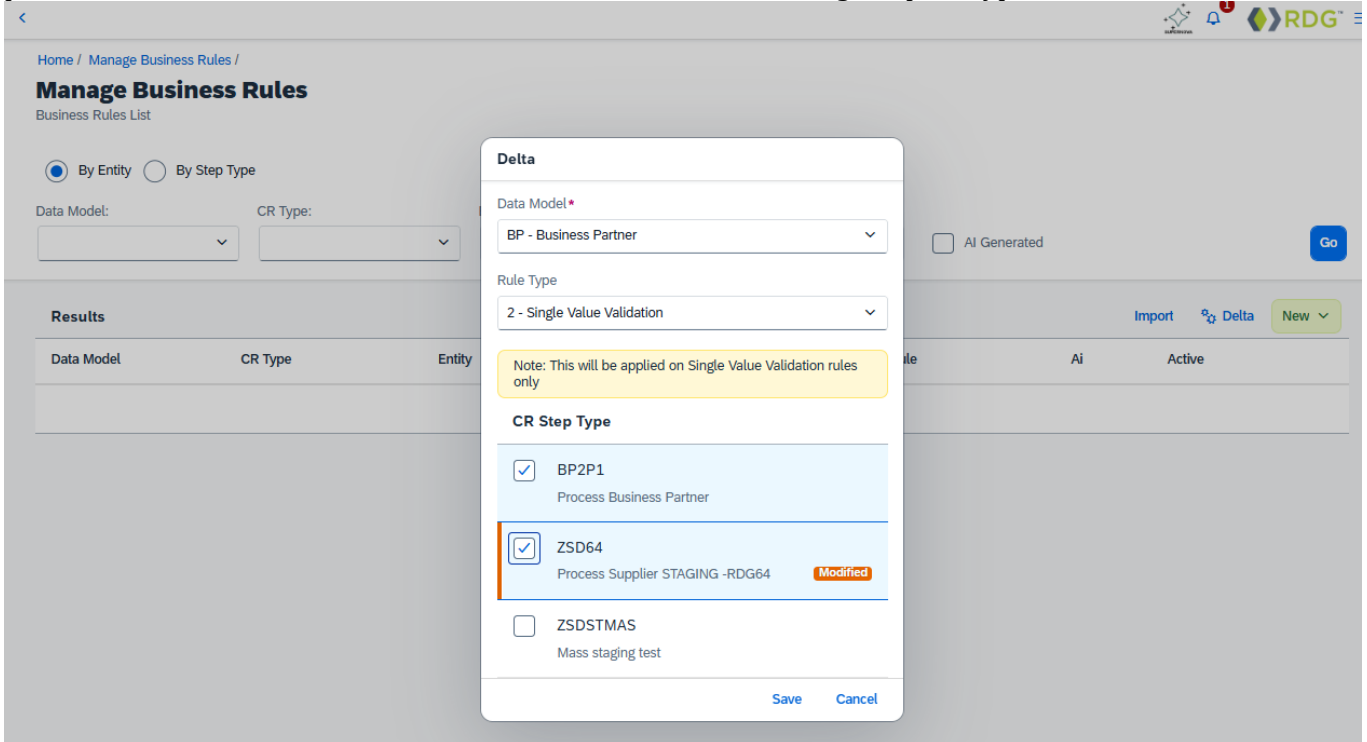
Apply Delta Option to a Group of Rules

The Delta button on the main business rules screen provides the method to turn on the Delta option for all rules in a change request type, or all of one type of rule.

1. On the main business rules screen, click the Delta button.



2. Select the data model.
3. Filter by type of rule or leave *-All rule types selected.
4. Choose the change request type. Any changes will be marked with “Modified” next to the change request type. Click Save. The job will be submitted as a background job and may take a few minutes to complete. Until the process is finished, modification of the business rules for that change request type will be restricted.



Importing Business Rules

Rules created for one change request type can be imported into another change request type. This functionality applies to all types of business rules. If the change request type the rules are imported from has the same workflow steps as the change request type the rules are being imported to, the imported rules will apply to the same workflow steps as the original rules. If the two change request types do not have the same workflow steps, the imported rules will apply to all workflow steps.

1. From the main business rules screen, click the Import button on the right side of the screen.

Home / Manage Business Rules /

Manage Business Rules

Business Rules List

By Entity
 By Step Type

Data Model:
 CR Type:
 Entity:
 Rule Type:

Results

Data Model	CR Type	Entity	Rule Type	Business Rule
No data				

2. Choose the Data Model, From Change Request Type, and To Change Request Type. A list of rules from the From Change Request Type will appear.

Import Rules

Data Model*
MM - Material

From Change Request Type*
MAT01 - Create Material

To Change Request Type*
ZIMPORT - import example

To Step Type

Business Rules

Search Business Rules

BSCDATTXT

ZAP_MM_BSCDATTXT_MAT01_V01 Multi Value Validation

MAT01BSCDATTXTLANGUCODED_01 Single Value Derivation

MAT01BSCDATTXTLANGUCODED_02 Single Value Derivation

CLASSASGN

MAT01CLASSASGNCHANGENOV_01 Single Value Validation

MARAPURCH

fact 12R16 Multi Value Derivation

Save Cancel



3. Optionally filter by type of rule.

Import Rules

Data Model*
MM - Material

From Change Request Type*
MAT01 - Create Material

To Change Request Type*
ZIMPORT - import example

To Step Type

Select All (0 of 5)

- Mandatory
- Single Value Validation
- Single Value Derivation
- Multi Value Validation
- Multi Value Derivation

4. Select the rules to be imported into the To Change Request Type. Click Save

Import Rules

Business Rules

Search Business Rules

BSCDATXT

<input checked="" type="checkbox"/>	ZAP_MM_BSCDATXT_MAT01_V01	Multi Value Validation
<input checked="" type="checkbox"/>	MAT01BSCDATXTLANGUCODED_01	Single Value Derivation
<input type="checkbox"/>	MAT01BSCDATXTLANGUCODED_02	Single Value Derivation

CLASSASGN

<input type="checkbox"/>	MAT01CLASSASGNCHANGENOV_01	Single Value Validation
--------------------------	----------------------------	-------------------------

MARAPURCH

<input checked="" type="checkbox"/>	test 12816	Multi Value Derivation
<input checked="" type="checkbox"/>	test 12816_2	Multi Value Derivation
<input type="checkbox"/>	ZAP_MM_MARAPURCH_MAT01_D03	Multi Value Derivation
<input type="checkbox"/>	MAT01MARAPURCHEKWSLD_01	Single Value Derivation

MARASALES

<input checked="" type="checkbox"/>	custom rule name	Single Value Validation
<input checked="" type="checkbox"/>	MAT01MARASALESGEWTOV_01	Single Value Validation

MARASPM

Save Cancel

5. Receive a message that the job is submitted.

Messages issued

Status

✔ Job to copy Business Rule(s) is submitted successfully

[Close](#)

6. Until the job is completed, rules from the two change request types involved cannot be edited. When the job is completed, a notification will be sent.

The screenshot shows the 'Manage Business Rules' page. The main content area has filters for 'Data Model', 'CR Type', and 'Entity', and a 'Results' table that is currently empty with the message 'No data'. A 'Notifications' overlay is open on the right, showing a list of notifications. The most recent notification is a success message: 'Copy Business Rules details are compl...' dated Aug 8, 2024, 8:40:17 PM. There is also a notification for 'RDG AI'.

Change Request Header Data in Business Rules

You can use change request header information in conditions or driving values when creating rules.

Value Check or Derivation Rule

Create the rule according to [Value Check Rule](#) or [Derivation Rule](#) instructions. When creating the condition, choose CR_HEADER from the Entity box and select which type of information to use from the Attribute box.

The screenshot shows the 'Edit Node Details' dialog. The 'Entity' dropdown is set to 'CR_HEADER - CR Hea...'. The 'Attribute' dropdown is open, showing a list of attributes including 'USMD_CHANGED_AT', 'USMD_CHANGED_BY', 'USMD_CREATED_AT', 'USMD_CREATED_BY', 'USMD_CREQ_STATUS', 'USMD_CREQ_TEXT', 'USMD_CREQ_TYPE', and 'USMD_CREQUEST'. The 'Compare Against' section has 'Value' selected. The 'Comparison' section has 'EQ - is equal to' selected. There is an 'Enter Value ...' input field.

Multivalue Validation or Multivalue Derivation Rule

Create the rule according to [Multivalue Validation Rule](#) or [Multivalue Derivation Rule](#) instructions. When adding the validating or driving attribute, choose CR_HEADER from the Entity box and select which type of information to use from the Attribute box.

Select Attribute

Entity
CR_HEADER - CR Header Entity

Attribute

- USMD_CHANGED_AT - UTC Time Stamp in Short Form (YYYYMMDDhhmmss)
- USMD_CHANGED_BY - User Name in User Master Record
- USMD_CREATED_AT - UTC Time Stamp in Short Form (YYYYMMDDhhmmss)
- USMD_CREATED_BY - User Name in User Master Record
- USMD_CREQ_STATUS - Status of Change Request
- USMD_CREQ_TEXT - Description (long text)
- USMD_CREQ_TYPE - Type of Change Request
- USMD_CREQUEST - Change Request
- USMD_CREQUEST_RE - Change Request
- USMD_DATA_ACTIVE - Data of change request is already activated
- USMD_DATA_CHN_AT - UTC Time Stamp in Short Form (YYYYMMDDhhmmss)
- USMD_DRAFT_STEP - Last Step Processed in Draft
- USMD_DUE_DATE - Due Date
- USMD_EDITION - Edition
- USMD_PRIORITY - Priority
- USMD_REASON - Reason
- USMD_REASON_REJ - Reason for Rejection
- USMD_RELEASED_AT - UTC Time Stamp in Short Form (YYYYMMDDhhmmss)
- USMD_RELEASED_BY - User Name in User Master Record
- USMD_REPLIC_MODE - Replication Timing

Rules Using Notes/Attachments

The presence (or absence) of Notes/Attachments can be used as conditions in single or multivalue validation and derivation rules. For example, in this rule, if the base unit of measure is G – Gram, and both note(s) and attachment(s) are present in the change request header, the value of weight unit will be derived to be the same as unit of measure.

The screenshot shows the configuration for a rule named **ZAP_MM_MATERIAL_ZTR_10_D01**. The rule is of type **5 - Multi Value Derivation**. It is configured with the following attributes:

- Driving Attributes:**
 - MATERIAL__MEINS:** = G - Gram
 - CR_HEADER__USMD_NOTES:** = X - True
 - CR_HEADER__USMD_ATTACHMENTS:** = X - True
- Deriving Attributes:**
 - MATERIAL__GEWEI_MAT:** Attribute (selected over Value)
 - Entity: MATERIAL - B...
 - Attribute: MEINS - Base ...

The rule is associated with the workflow step **WF__STEP: ** - For every WF step**.

In the change request below, both a note and an attachment have been added to the change request header. The base unit of measure is G – Gram. Therefore, the weight unit has been derived according to the rule.

The screenshot shows the SAP S/4HANA Change Request interface for a material named **\$2414**. The **Change Request** section is expanded, showing a table with one entry:

Action	Title	Size	Added On	Added By	Lang...	Comment
<input checked="" type="checkbox"/>	attachment example	22.064 KB	16.07.2024 16:32:40	Sara Skaggs		

The **Basic Data** section is also visible, showing the following key values:

- Material:** \$2414
- Base Unit of Measure:** G (Gram)
- Material Type:** FERT (Finished Product)
- Industry Sector:** C (Chemical Industry)
- Net Weight:** 100.000 G
- Gross Weight:** 0.000 G

Business Rules by Change Request Step Type (Configure Properties of Change Request Step)

On the main business rules screen, select By Step Type.

The screenshot shows the 'Manage Business Rules' interface. At the top, there are navigation links and a user profile icon. Below that, the title 'Manage Business Rules' is followed by 'Business Rules List'. There are two radio buttons: 'By Entity' (unselected) and 'By Step Type' (selected). Below these are three dropdown menus for 'Data Model', 'CR Type', and 'CR Step Type', all currently empty. A 'Go' button is to the right. Below the filters is a 'Results' section with a table. The table has columns for 'Data Model', 'CR Type', and 'CR Step Type'. The table is currently empty with the text 'No data' in the center. There are 'Import' and 'New +' buttons in the top right of the results area.

To view existing rules, select a Data Model and/or CR Type. Optionally select a CR Step Type. Click Go.

This screenshot shows the same 'Manage Business Rules' interface but with filters applied. The 'Data Model' dropdown is set to 'BP - Business Partner', the 'CR Type' dropdown is set to 'SUPPL1P1 - Create Supplier', and the 'CR Step Type' dropdown is set to '00 - Processing'. The 'Go' button is highlighted. The 'Results' table now contains one row:

Data Model	CR Type	CR Step Type
BP - Business Partner	SUPPL1P1 - Create Supplier	00 - Processing

 There is a right-pointing arrow at the end of the row. 'Import' and 'New +' buttons are also present.

Click the arrow at the end of the row to see the details.

The screenshot shows the 'CR Type Properties' configuration screen. At the top, there are navigation links and a 'Save' button. Below that, the title 'CR Type Properties' is followed by 'Business Rules List'. There are two radio buttons: 'By Entity' (unselected) and 'By Step Type' (selected). Below these are three dropdown menus for 'Data Model', 'CR Type', and 'CR Step Type', all set to the same values as in the previous screenshot. A 'Go' button is to the right. Below the filters is a 'Results' section with a table titled 'CR Type Properties'. The table has columns for 'Checks and Enrichment Spots', 'Message Output', 'Relevant', and 'Execution'. The table contains several rows of properties:

Checks and Enrichment Spots	Message Output	Relevant	Execution
#00 BASIC CHECK	Standard	<input checked="" type="checkbox"/>	Always Executed
#01 AUTHORIZATION CHECK	Standard	<input checked="" type="checkbox"/>	Always Executed
#02 DUPLICATE CHECK	Standard	<input checked="" type="checkbox"/>	Executed When Data Changes
#03 VALIDATION RULES	Standard	<input checked="" type="checkbox"/>	Always Executed
#04 BADI VALIDATION	Standard	<input checked="" type="checkbox"/>	Always Executed
#05 EXISTENCE CHECK	Standard	<input checked="" type="checkbox"/>	Always Executed
#06 REUSE AREA CHECK	Standard	<input checked="" type="checkbox"/>	Always Executed
ENRICH_ADDRESS ADDRESS ENRICHMENT	Standard	<input checked="" type="checkbox"/>	Executed When Data Changes
ENRICH_TAX JUR TAX JURISDICTION ENRICHMENT	Standard	<input type="checkbox"/>	Executed When Data Changes

 There is a right-pointing arrow at the end of the last row. A '+ ADD' button is in the top right of the table area.

Modify the options as required and click Save.

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To create a new rule, click the New+ button. Enter Data Model, CR Type, and CR Step Type.

Home / Business Rules / New Rule /

New Rule Save

Data Model: MM - Material CR Step Type: ** - For every WF step

CR Type: MAT01 - Create Material

Checks and Enrichment Spots	Message Output	Relevant	Execution
No data			

Click +ADD to add a rule for this change request type for the step type selected. Choose the type required.

Home / Business Rules / New Rule /

New Rule Save

Data Model: MM - Material CR Step Type: ** - For every WF step

CR Type: MAT01 - Create Material

Select CR Type Properties

Select Properties

- #00 Basic Check
- #01 Authorization Check
- #02 Duplicate Check
- #03 Validation Rules (BRF+)
- #04 B4dI Validations
- #05 Existence Check
- #06 Reuse Area Check
- #07 Validation Rules (Data Quality)

Select Cancel

Checks and Enrichment Spots	Message Output	Relevant	Execution
No data			

Change options as needed.

Home / Business Rules / New Rule /

New Rule Save

Data Model: MM - Material CR Step Type: ** - For every WF step

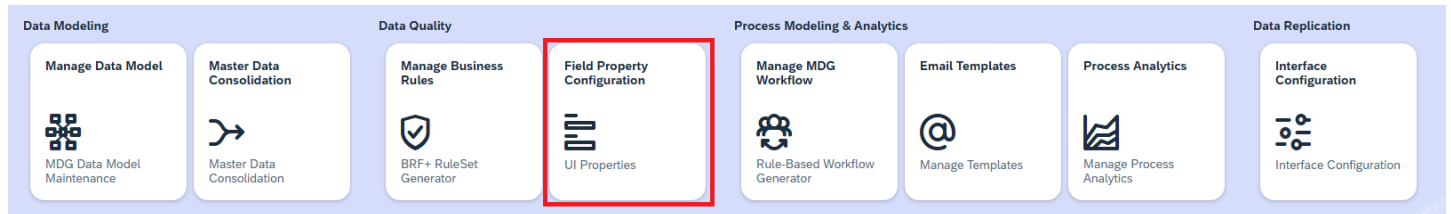
CR Type: MAT01 - Create Material

Checks and Enrichment Spots	Message Output	Relevant	Execution
#03 Validation Rules (BRF+)	Standard	<input checked="" type="checkbox"/>	Always Executed

Save.

Field Property Configuration

RDG eases the process of creating a change in any of the fields in the UI by automating the configuration steps.



There are two ways field properties can be configured, by entity or by change request step type.



If there are conflicts between a property rule created by entity and property rule created by change request step type, the property rule by entity will have priority.

Field Properties by Entity

Field properties created by entity change the property of a field based on values of attributes set in the rule. There are four properties that can be applied to the field

- C – Optional
- R – Read Access Only
- M – Required Field
- H – Hidden Field

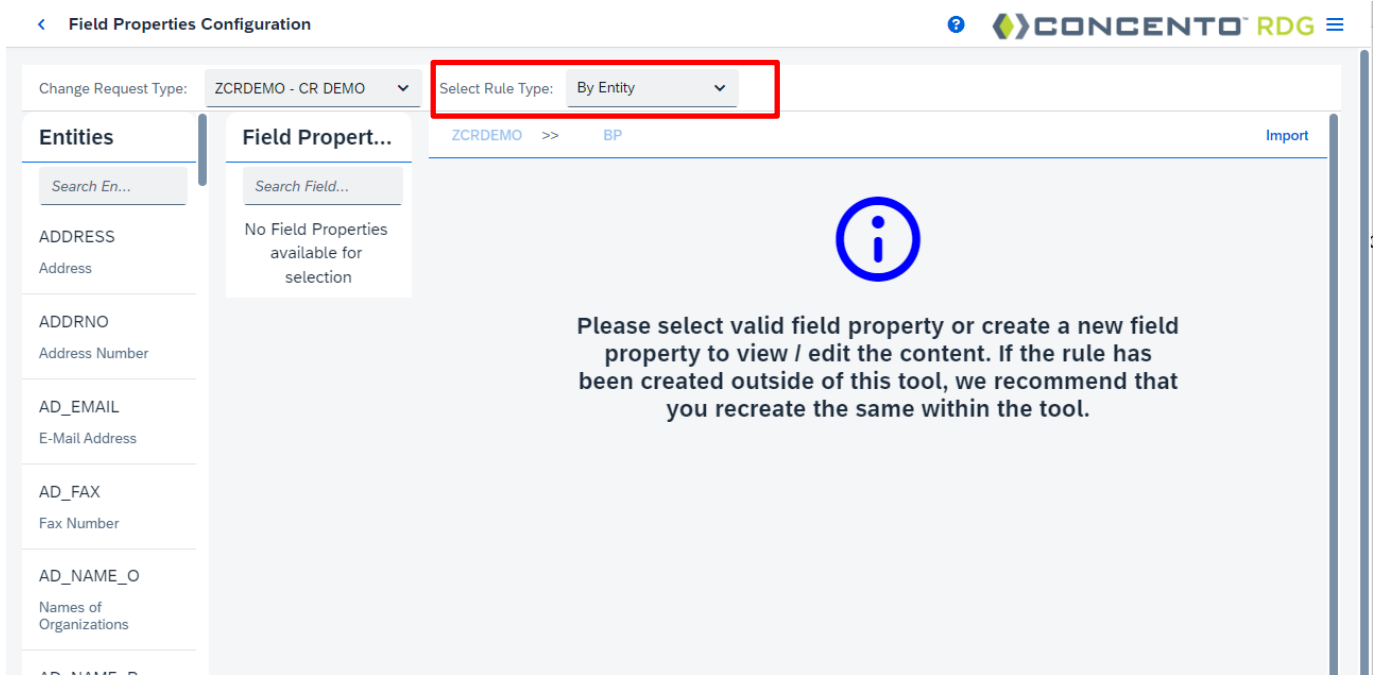
and the property can be applied to a single workflow step or all workflow steps.



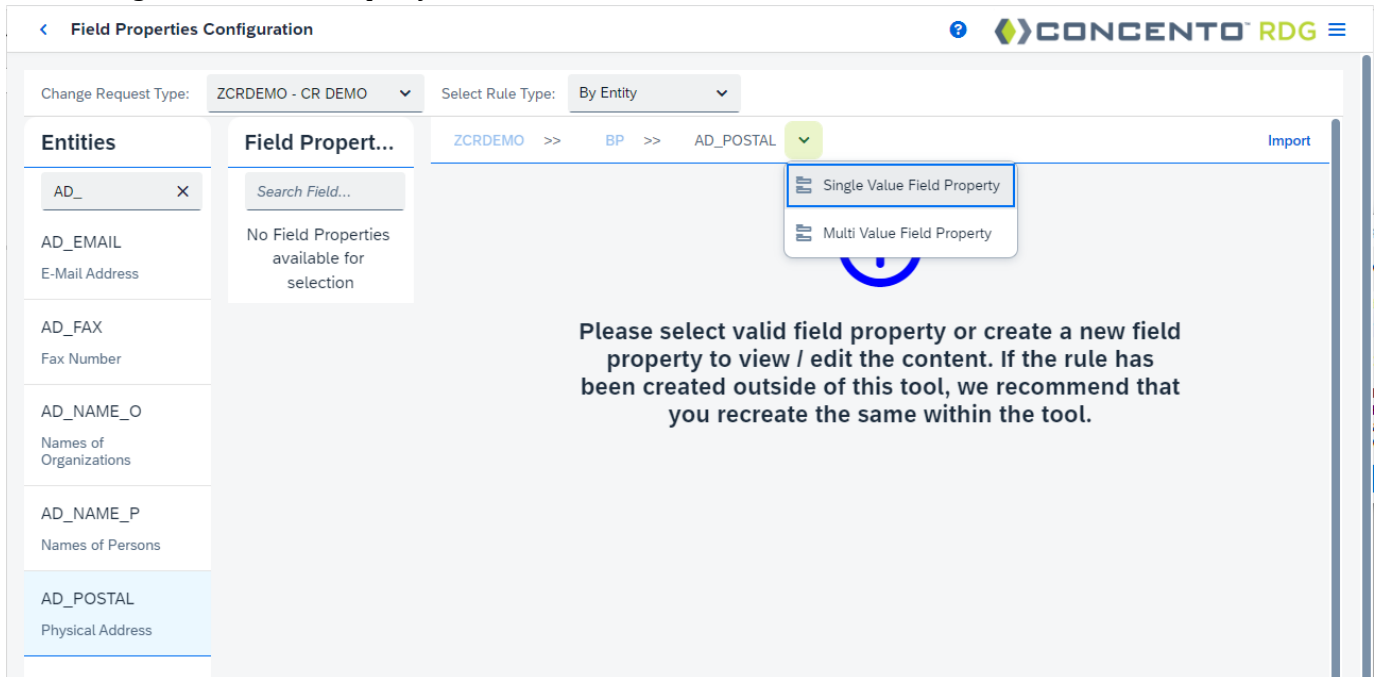
M – Required is not supported for fields in list UIBBs.


Single Value UI Property

1. From the home screen, select 'Field Property Configuration'
2. Select the specific Change Request Type for which the enhancement will be applied.
3. Notice that the rule type is Entity.



4. Select or search for the Entity which contains the field desired.
5. Select 'Single Value Field Property'

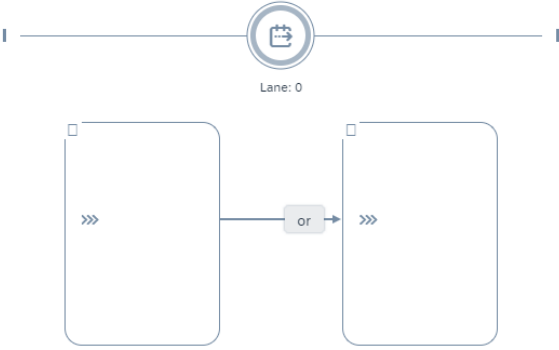


6. Enter the Attribute for the desired field and select the check expression. Click the  button.

Field Properties Configuration CONCENTO™ RDG

Change Request Type: ZCRDEMO - CR DEMO Select Rule Type: By Entity

ZCRDEMO >> BP >> AD_POSTAL Import

Entities	Field Propert...	Single Value UI Property Delete UI Property
AD_ X	Search Field...	Property Active Save
AD_EMAIL E-Mail Address	No Field Properties available for selection	Attribute: DISTRICT - District Check expression: <1> or <2> >>>
AD_FAX Fax Number		 <p style="text-align: center;">Lane: 0</p>
AD_NAME_O Names of Organizations		Workflow Step ▼
AD_NAME_P Names of Persons		UI Property* ▼
AD_POSTAL Physical Address		
AD_TEL Telephone Number		
AD_URL Internet Address		

7. In each node, add the desired conditions for which, when true, the property will be applied.

Field Properties Configuration CONCENTO RDG

Change Request Type: ZCRDEMO - CR DEMO Select Rule Type: By Entity

ZCRDEMO >> BP >> AD_POSTAL Import

Single Value UI Property Delete UI Property Property Active Save

Attribute: DISTRICT - District Check expression: <1> or <2>

Lane: 0

```

    graph TD
      A[AD_POSTAL - REF_POSTA] --> B[or]
      B --> C[AD_POSTAL - REF_POSTA]
      A --- EQ1[EQ]
      EQ1 --- IN1[IN]
      C --- EQ2[EQ]
      EQ2 --- US[US]
  
```

Workflow Step:

UI Property*:

Entities List:

- AD_EMAIL (E-Mail Address)
- AD_FAX (Fax Number)
- AD_NAME_O (Names of Organizations)
- AD_NAME_P (Names of Persons)
- AD_POSTAL (Physical Address)**
- AD_TEL (Telephone Number)
- AD_URL (Internet Address)

Field Properties: No Field Properties available for selection

8. Choose the Workflow Step and UI Property.

The screenshot displays the 'Field Properties Configuration' window. At the top, 'Change Request Type' is 'ZCRDEMO - CR DEMO' and 'Select Rule Type' is 'By Entity'. The breadcrumb path is 'ZCRDEMO >> BP >> AD_POSTAL'. The 'Entities' list on the left includes AD_EMAIL, AD_FAX, AD_NAME_O, AD_NAME_P, AD_POSTAL (selected), AD_TEL, and AD_URL. The 'Field Properties' section shows 'No Field Properties available for selection'. The main configuration area is for a 'Single Value UI Property' for 'AD_POSTAL'. The 'Attribute' is 'DISTRICT - District' and the 'Check expression' is '<1> or <2>'. A visual diagram shows two boxes representing the expression: 'AD_POSTAL - REF_POSTA EQ IN' and 'AD_POSTAL - REF_POSTA EQ US', connected by an 'or' operator. The 'Workflow Step' is '0 - Processing' and the 'UI Property' is 'M - Required Field'. The 'Property Active' status is checked.

In this example, the field for the District attribute will be mandatory when the country entered is either IN or US during the processing step of the workflow.

9. Click Save. Choose a transport and package.

10. A success message will confirm your property is saved. The property will appear in the list for this entity.

Field Properties Configuration CONCENTO RDG

Change Request Type: ZCRDEMO - CR DEMO Select Rule Type: By Entity

ZCRDEMO >> BP >> AD_POSTAL Import

Entities

- AD_ X
- AD_EMAIL
E-Mail Address
- AD_FAX
Fax Number
- AD_NAME_O
Names of Organizations
- AD_NAME_P
Names of Persons
- AD_POSTAL
Physical Address 1
- AD_TEL
Telephone Number
- AD_URL
Internet Address

Field Properties

Search Field Pr...

Single UI property

ZA_BP_AD_POSTAL_ZCRDEMO_SUI01

Single Value UI Property Delete UI Property Property Active Edit

Attribute: DISTRICT - District Check expression: <1> or <2>

Lane: 0

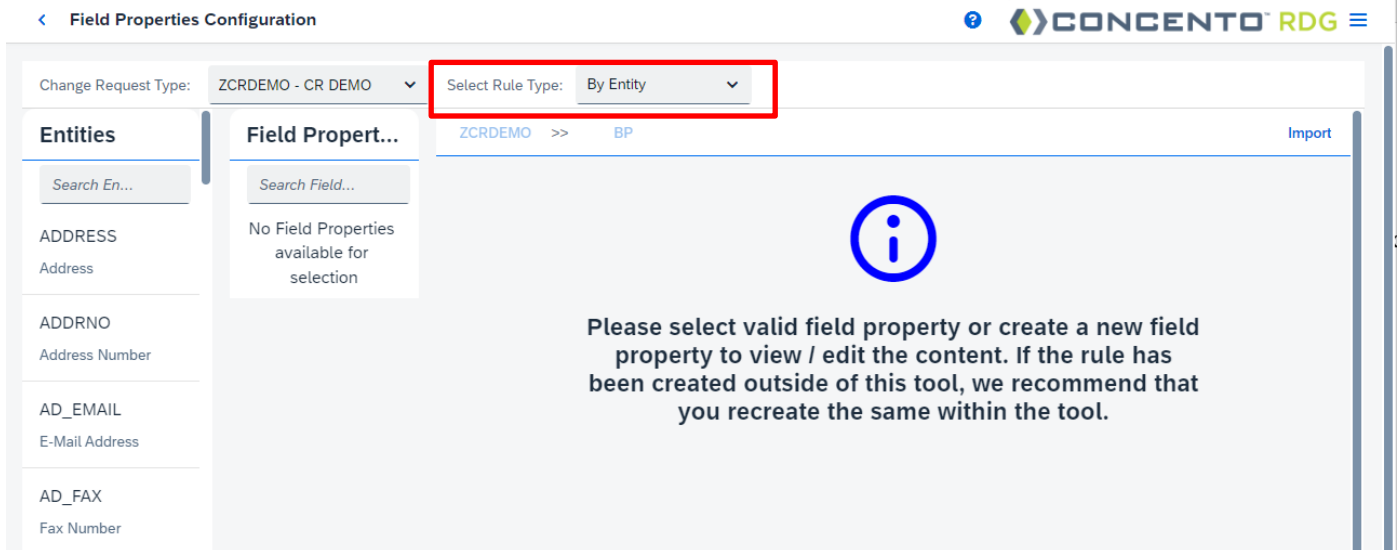
Workflow Step: 0 - Processing

UI Property*: M - Required Field

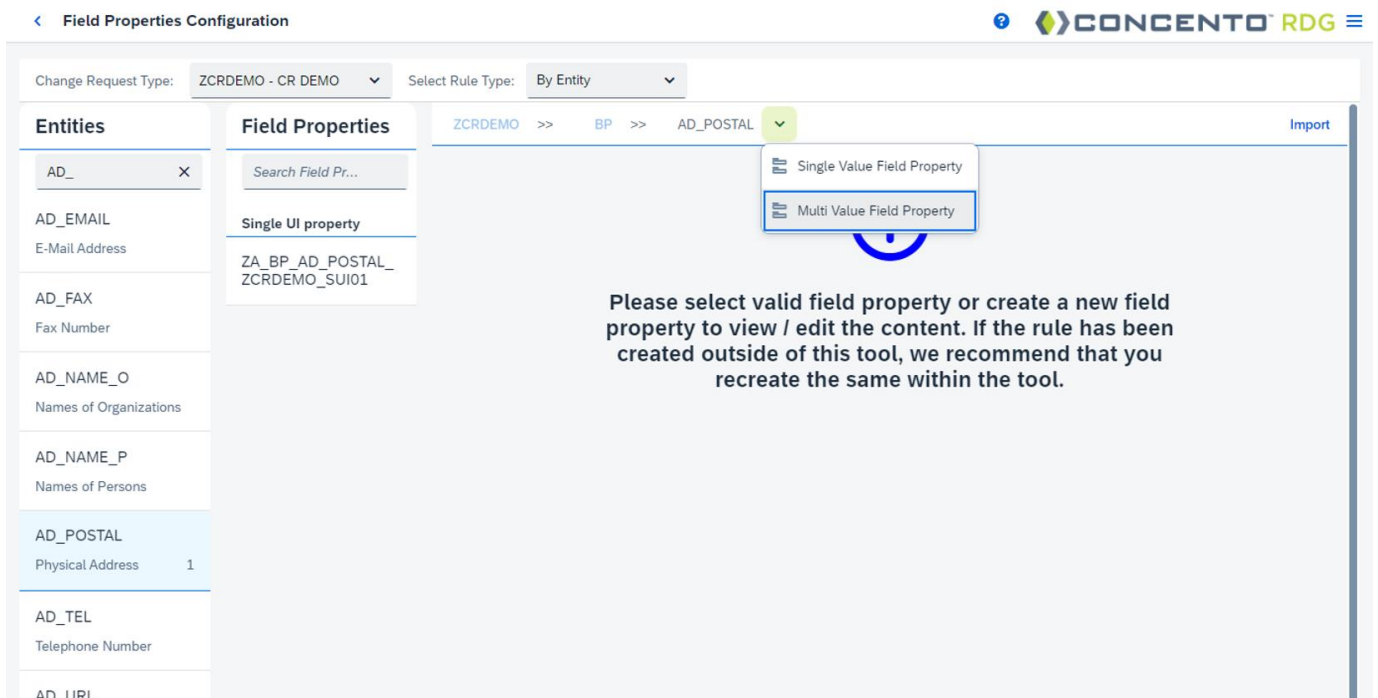
Multi Value UI Property

Used to set properties for multiple fields at once.

1. From the home screen, select 'Field Property Configuration'
2. Select the specific Change Request Type for which the enhancement will be applied.
3. Notice that the rule type is Entity.



4. Select or search for the Entity which contains the field desired.
5. Select 'Multi Value Field Property'



6. Add Driving Attribute(s) – the attributes which, when they have the values in the rule, will result in a property being applied to the deriving attribute(s).

Select Attribute

Entity
 BP_HEADER - Business Partner

Attribute
 BU_TYPE - Business Partner Category

Add Column Cancel

ZCRDEMO	>>	BP	>>	AD_POSTAL	▼	Import	
Add Driving Attribute		Multi UI Property				Add Deriving Attribute	
Add Rule		Enable Delete Property		Delete UI Property		Save Configuration	
BP_HEADER - BU_TYPE							
No data							

7. Add Deriving Attribute(s) – The attribute(s) whose field property will change based on the Driving Attribute.

Select Attribute

Entity
 AD_POSTAL - Physical Address

Attribute
 HOUSE_NR1 - House Number

Add Column Cancel

ZCRDEMO	>>	BP	>>	AD_POSTAL	▼	Import	
Add Driving Attribute		Multi UI Property				Add Deriving Attribute	
Add Rule		Enable Delete Property		Delete UI Property		Save Configuration	
BP_HEADER - BU_TYPE		WF - STEP*				AD_POSTAL - HOUSE_NR1	
No data							

8. Click 'Add rule' to add as many rule rows as desired.

9. Enter values in each row as a different rule. Choose the workflow step that each rule row will be applied to.

The screenshot shows the 'Field Properties Configuration' interface. At the top, 'Change Request Type' is set to 'ZCRDEMO - CR DEMO' and 'Select Rule Type' is 'By Entity'. The breadcrumb path is 'ZCRDEMO >> BP >> AD_POSTAL'. The 'Entities' list on the left includes 'AD_POSTAL' (Physical Address) with a count of 1. The 'Field Properties' section shows a search bar and a 'Single UI property' named 'ZA_BP_AD_POSTAL_ZCRDEMO_SUI01'. The main configuration area shows a 'Multi UI Property' table with two rows of rules:

BP_HEADER - BU_TYPE	WF - STEP *	AD_POSTAL - HOUSE_NR1
= 1 - Person	** - For every WF step	M - Required Field
= 2 - Organization	** - For every WF step	H - Hidden Field

In this example, when the business partner category is Person, the field for house number will be required. When the business partner category is Organization, the field for house number will be hidden. These rules will apply to every workflow step.

10. Click Save Configuration. Choose a transport and package.

11. A success message will confirm your property is saved. The property will appear in the list for this entity.

The screenshot shows the 'Field Properties Configuration' interface after saving. The breadcrumb path is 'ZCRDEMO >> BP >> AD_POSTAL'. The 'Entities' list on the left now shows 'AD_POSTAL' (Physical Address) with a count of 2. The 'Field Properties' section shows a search bar and a 'Multi UI property' named 'ZA_BP_AD_POSTAL_ZCRDEMO_MUI01'. The main configuration area shows the same 'Multi UI Property' table as in the previous screenshot:

BP_HEADER - BU_TYPE	WF - STEP *	AD_POSTAL - HOUSE_NR1
= 1 - Person	** - For every WF step	M - Required Field
= 2 - Organization	** - For every WF step	H - Hidden Field



Field Properties for All Attributes of an Entity

Field properties may be applied to all attributes of an entity using either single or multi value rules. If **** - For All Attributes** is selected, either **Optional** or **Read Access Only** may be chosen.

The screenshot shows the 'Field Properties Configuration' interface for a 'Single Value UI Property'. The breadcrumb path is 'ZSPPLIER >> BP >> AD_POSTAL'. The 'Attribute' is set to '** - For All Attributes' and the 'Check expression' is '<1> or <2>'. A workflow diagram shows a 'Lane: 0' with two boxes connected by an 'or' gate. The 'Workflow Step' is set to '** - For every WF step'. The 'UI Property*' dropdown menu is open, showing options: 'C - Optional' (selected) and 'R - Read Access Only'. The 'Property Active' status is checked, and there are 'Import' and 'Save' buttons.

The screenshot shows the 'Field Properties Configuration' interface for a 'Multi UI Property'. The breadcrumb path is 'ZSPPLIER >> BP >> AD_POSTAL'. The 'Add Driving Attribute' is 'AD_POSTAL - CITY1', 'AD_POSTAL - REF_POSTA', and 'WF - STEP*'. The 'Add Rule' is 'AD_POSTAL - **'. The 'Workflow Step' is set to '** - For every WF step'. The 'UI Property*' dropdown menu is open, showing options: 'C - Optional' (selected) and 'R - Read Access Only'. The 'Add Deriving Attribute' and 'Save Configuration' buttons are visible.

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Field Properties by Change Request Step Type

Field properties created by change request step type will apply to that step type regardless of values entered in other fields. There are five properties that can be applied to the field

- S – Standard
- NRC – No Required Field Check
- R – Not Relevant (Read Only)
- H – Hide
- M – Mandatory

and the property can be applied to a single workflow step or all workflow steps.

1. From the home screen, select 'Field Property Configuration'
2. Select the specific Change Request Type for which the enhancement will be applied.
3. Select Rule Type: By CR Step Type

The screenshot shows the 'Field Properties Configuration' page. At the top, there is a breadcrumb navigation: '< Field Properties Configuration'. The page header includes the 'CONCENTO RDG' logo. Below the header, there are two dropdown menus: 'Change Request Type: ZCRDEMO - CR DEMO' and 'Select Rule Type: By CR Step Type'. The 'Select Rule Type' dropdown is highlighted with a red box. On the left side, there is a 'Steps' table with a search bar and a list of workflow steps. The main content area displays a large blue information icon and the message: 'There are no current configurations. Please select the entities you want to modify'. A 'Select Entities' link is visible in the top right corner of the main content area.


Steps		
Search Steps		
For every WF step	**	00
Processing	00	00
Activation	91	00
Revision	92	00
Revision Processing	95	00
Complete	99	00
A0	A0	00
A1	A1	00

4. Choose the CR Step Type that the field properties will apply to from the list on the left.

Field Properties Configuration CONCENTO RDG

Change Request Type: ZCRDEMO - CR DEMO Select Rule Type: By CR Step Type

Steps		Select Entities
<i>Search Steps</i>		
Processing		
00	00	
Activation		
91	00	
Revision		
92	00	
Complete		
99	00	
Revision Processing		
95	00	
Requestor		
A0	00	
A1		
A1	00	
Parallel Node - Country		
A2	00	
AB		
AB	00	
AC		



There are no current configurations. Please select the entities you want to modify

- Click the Select Entities button and choose the entity or entities that contain the attributes of the fields you wish to change. Click Save.

The screenshot displays the 'Field Properties Configuration' window in the Syniti interface. On the left, there is a 'Steps' table with columns for step name, ID, and a numerical value. The 'Steps' table includes steps like 'Processing', 'Activation', 'Revision', 'Complete', 'Revision Processing', 'Requestor', and 'Parallel Node - Country'. A 'Select Entities' dialog box is open in the center, showing a list of entities with checkboxes. The 'BP_CENTRL' entity, labeled 'Central Data', is selected. Other entities listed include BP_C, BP_CCDTL (Payment Cards), BP_CM_BP (Credit Scoring), BP_COMPNY (Company Code), BP_CPGEN (BP relationship contact person general data), BP_CUSCLA (Customer: Class Assignment (Classification)), BP_CUSDDB (Basic Data for Document Link), BP_CUSDUN (Dunning Data (Customer)), BP_CUSFCN (Customer: Partner Function), and BP_CUSGEN. At the bottom of the dialog are 'Save' and 'Cancel' buttons. In the background, a 'Please select the modify' prompt is visible.

Steps		
Processing	00	00
Activation	91	00
Revision	92	00
Complete	99	00
Revision Processing	95	00
Requestor	A0	00
A1	A1	00
Parallel Node - Country	A2	00
AB	AB	00
AC		

6. Select properties for each attribute you wish to change.

CONCENTO RDG

Field Properties Configuration

Change Request Type: ZCRDEMO - CR DEMO Select Rule Type: By CR Step Type

Steps

Step	Code	Value
Processing	00	00
Activation	91	00
Revision	92	00
Complete	99	00
Revision Processing	95	00
Requestor	A0	00
	A1	00
	A1	00
Parallel Node - Country	A2	00
	AB	
	AB	00
	AC	

BP_CENTRL

BP_CENTRL S - Standard

Attributes

Attribute	Property
BIRTHDT (Date of Birth of Business Partner)	S - Standard
BIRTHDTST (Date of Birth: Status)	S - Standard
BIRTHPL (Birthplace of business partner)	S - Standard
BPEXT (Business Partner Number in External System)	S - Standard
BPKIND (Business Partner Type)	NRC - No required field check
BP_HEADER (Business Partner ID)	R - Not relevant(Read only)
BU_LANGU (Business partner: Language)	H - Hide
BU_SORT1 (Search Term 1 for Business Partner)	M - Mandatory
BU_SORT2 (Search Term 2 for Business Partner)	M - Mandatory
CNDSC (Ctry of Origin: Non-Res. Companies)	S - Standard
CONTACT (Business Partner: Contact Permission)	S - Standard
DEATHDT (Date of death of business partner)	S - Standard

Reset Save

- Changing the selection to something other than Standard at the entity level will apply to all of the attributes in the entity and override any attribute-level selections below it. For example, choosing R-Not Relevant here for BP_CENTRL will make all fields for all attributes in BP_CENTRL read-only, regardless of any changes made to the individual attributes below it.

Field Properties Configuration CONCENTO RDG

Change Request Type: ZCRDEMO - CR DEMO Select Rule Type: By CR Step Type

Steps	Entity	Attribute	Rule Type
Processing 00 00	BP_CENTRL		
Activation 91 00	BP_CENTRL		S - Standard
Revision 92 00		Attributes	
Complete 99 00		BIRTHDT (Date of Birth of Business Partner)	S - Standard
Revision Processing 95 00		BIRTHDTST (Date of Birth: Status)	S - Standard
Requestor A0 00		BIRTHPL (Birthplace of business partner)	R - Not relevant(Read only)
A1 A1 00		BPEXT (Business Partner Number in External System)	S - Standard
Parallel Node - Country A2 00		BPKIND (Business Partner Type)	S - Standard
AB AB 00		BP_HEADER (Business Partner ID)	S - Standard
AC		BU_LANGU (Business partner: Language)	S - Standard
		BU_SORT1 (Search Term 1 for Business Partner)	M - Mandatory
		BU_SORT2 (Search Term 2 for Business Partner)	M - Mandatory
		CNDSC (Ctry of Origin: Non-Res. Companies)	S - Standard
		CONTACT (Business Partner: Contact Permission)	S - Standard
		DEATHDT (Date of death of business partner)	S - Standard

- When changes are completed, click Save. Choose a transport and package if required. A success message will be given to confirm your changes have been properly saved.

Importing Field Properties

Properties created by entity for one change request type can be imported into another change request type. This functionality applies to both single and multivalue field properties. If the change request type the properties are imported from has the same workflow steps as the change request type the properties are being imported to, the imported properties will apply to the same workflow steps as the original rules. If the two change request types do not have the same workflow steps, the imported rules will apply to all workflow steps.

1. On the Field Properties screen, select the change request type that the properties will be imported into. Click the Import button on the right side of the screen.

The screenshot shows the 'Field Properties Configuration' interface. At the top, there are dropdown menus for 'Change Request Type' (set to 'ZIMPORT - import exa...') and 'Select Rule Type' (set to 'By Entity'). Below these are two tabs: 'Entities' and 'Field Properties'. The 'Field Properties' tab is active, showing a search bar and a message: 'No Field Properties available for selection'. A large blue information icon is centered on the screen, with the following text: 'Please select valid field property or create a new field property to view / edit the content. If the rule has been created outside of this tool, we recommend that you recreate the same within the tool.' An 'Import' button is visible in the top right corner of the main content area.

2. Select the change request type to import properties from. Choose the properties to be imported. Click Save.

Import Field Properties

Change Request Type
 MAT01 - Create Material

UI Properties

Search UI Properties

MARAQTMNG

- ZA_MM_MARAQTMNG_MAT01_MUI01 Multi UI property
- ZA_MM_MARAQTMNG_MAT01_MUI02 Multi UI property

MARASALES

- ZA_MM_MARASALES_MAT01_MUI02 Multi UI property

MARASTOR

- ZA_MM_MARASTOR_MAT01_MUI02 Multi UI property
- ZA_MM_MARASTOR_MAT01_MUI03 Multi UI property
- ZA_MM_MARASTOR_MAT01_SUI02 Single UI property
- ZA_MM_MARASTOR_MAT01_SUI03 Single UI property
- ZA_MM_MARASTOR_MAT01_SUI04 Single UI property
- ZA_MM_MARASTOR_MAT01_SUI01 Single UI property

Save Cancel

3. Receive message that the job has been submitted.

Messages issued

Status

✔ Job to copy Field Properties is submitted successfully

Close

4. Until the job completes, properties from the two change request types cannot be edited. When completed, a notification will be sent.

Field Properties Configuration

Change Request Type: ▼ Select Rule Type: By Entity ▼

Entities

Search ... ▼

No Entities available for selection

Field Properties

Search Field Pr...

No Field Properties available for selection

Notifications

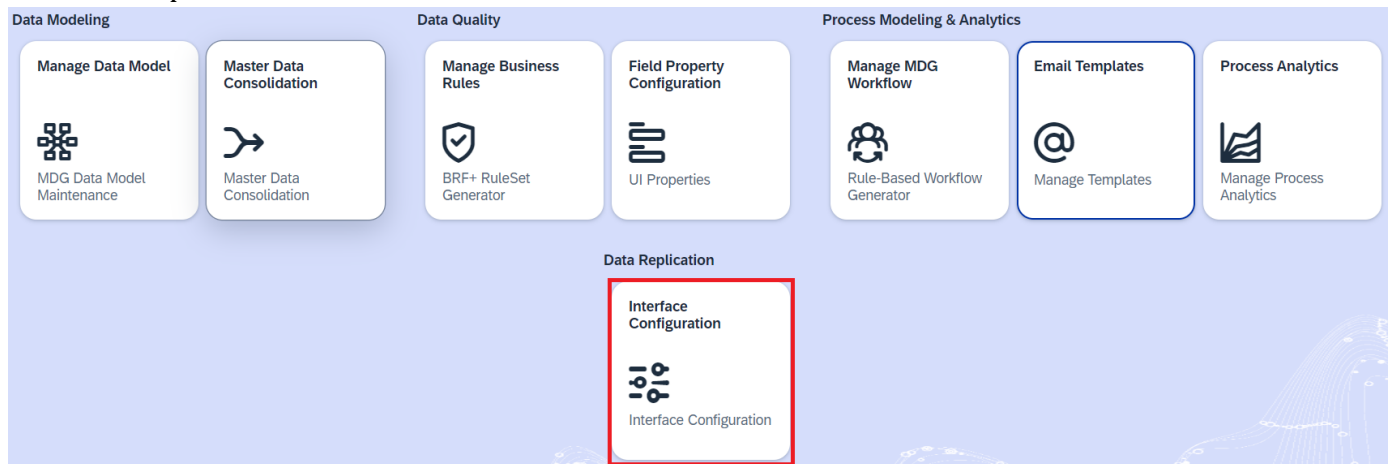
All ✔ 2 i 1

Field Properties

✔ Copy Field Properties details are completed.
 Aug 8, 2024, 9:00:56 PM

Interface Configuration

RDG eases the process of creating and mapping interfaces by automating configuration steps and simplifying the process onto one easy to navigate screen. New business systems can be added, and mapping completed while easily visible to the users. RFC connections must first be established in SAP to complete the interface process. Replication via IDoc or via services (WSDL and SOA) are available and are dependent on the outbound implementation selected.



Create New Replication Model

1. In the home screen, select 'Interface Configuration'
2. Create new Interface by selecting +
3. Enter required data:
 - Replication Model – ZCUST001 (*select or create new*)
 - Description – CUSTOMER REPLICATION
 - Outbound Implementation – 159_2 – CMD (*select from existing connections*)
 - Communication Channel – Defaults from Outbound Implementation setup
 - Data Model
 - Business System – ER9CLNT003 (*select from available systems or add new – see below*)



Two configurations must be completed in MDG for data replication using IDocs.

- Partner profile
- Message type

▼ Interface Details

Replication Model: * ZCUST001

Description: * Customer Replication

Outbound Implementation: * 159_2 - CMD: Send cu... X

Communication Channel: * 2 - Replication via IDoc

Data Model: * BP - Business Partner X

Sequence: 00

Filter Time: X

Business System: * ER9CLNT003 X Manage Business System

Additional data is optional:

- Sequence – Defaults to 00
- Filter Time

If the Business System is not set up it can be added.

New Business System

Manage Business System

1. Select Manage Business System to add a New Business System
2. Enter Business System – follow standard naming convention
3. Additional data is optional.

Business System

Business System *	Logical System	RFC Destination	Logical File Path	Download to PS	Disabled for Replication
ER9CLNT001	▼	▼		<input type="checkbox"/>	<input type="checkbox"/>
Unicode	Unicode Code Page				
<input type="checkbox"/>	▼				

Business Objects + ADD

Business Object Type	System Filter	Output Mode	Comm. Channel *	Key Harmonization	Key Mapping	Storage	Time Dependency	MDC Create Template	MDC Change Template	MDC Reliable
No data										

Save Cancel

4. Select transport and save new interface.



Outbound implementation and business system must be a unique combination. If additional interfaces are created with the same outbound implementation and business system, they will be inactive.



For replication of Financial Accounting Reporting Structure and Financial Consolidation Reporting Structure, different interfaces must be used. The interfaces may not be active at the same time for the replication to work properly.

New Logical System

Manage Business System

1. Select Manage Business System to create a new logical system
2. Select a business system and choose Custom – Custom Logical System from the Logical System drop-down box.

Business System

Business System * ERPCLNT001

Logical System ▼

Unicode

Business Objects

Business Object Type	System Filter	Organization	Key Mapping	Storage	Time Dependency	MDC Create Template	MDC Change Template	MDC Reliable
No data								

+ ADD

Save Cancel



3. Enter the name and description. Click Create.

Create Logical System

Logical System *

ZLOGDEMO

Description

custom logical system

[Create](#) [Cancel](#)

4. The new logical system is created and assigned to the business system. A logical system is unique to each business system.



For 194 – Product (material replication), it is important that the Output Mode be Direct Output in order for the data to be replicated. This selection can be set in both RDG and MDG.

In the Manage Business System option in each interface in RDG

Business Object Type*	System Filter	Output Mode	Comm. Channel*	Key Harmonization	Key Mapping	Storage	Time Dependency	MDC Create Template
147 - Busine...		- Object-Dependent Default	1 - Replication via Services	- Not Defined		- Not Defined	- Not Defined	
154 - Comp...		- Object-Dependent Default	1 - Replication via Services	- Not Defined		- Not Defined	- Not Defined	
158 - Cost C...		- Object-Dependent Default	2 - Replication via IDoc	- Not Defined		- Not Defined	- Not Defined	
158 - Cost C...		- Object-Dependent Default	1 - Replication via Services	- Not Defined		- Not Defined	- Not Defined	
159 - Custo...		- Object-Dependent Default	1 - Replication via Services	- Not Defined		- Not Defined	- Not Defined	
194 - Product		D - Direct Output	2 - Replication via IDoc	- Not Defined		- Not Defined	- Not Defined	
229 - Profit ...		- Object-Dependent Default	1 - Replication via Services	- Not Defined		- Not Defined	- Not Defined	
266 - Supplier		- Object-Dependent Default	2 - Replication via IDoc	- Not Defined		- Not Defined	- Not Defined	
266 - Supplier		- Object-Dependent Default	1 - Replication via Services	- Not Defined		- Not Defined	- Not Defined	
DRF_0011 - ...		- Object-Dependent Default	2 - Replication via IDoc	- Not Defined		2 - Active Area	- Not Defined	
YA_BO - Ba...		- Object-Dependent Default	2 - Replication via IDoc	- Not Defined		- Not Defined	- Not Defined	

In MDGIMG

Change View "Define Bus. Systems, BOs": Overview

Business System: QKV_421

BO Type	Sys. Fit.	Outp. Mode
147	<input type="checkbox"/>	Object-Dependent Default
154	<input type="checkbox"/>	Object-Dependent Default
158	<input type="checkbox"/>	Object-Dependent Default
194	<input type="checkbox"/>	D Direct Output
229	<input type="checkbox"/>	Object-Dependent Default
892	<input type="checkbox"/>	Object-Dependent Default
897	<input type="checkbox"/>	Object-Dependent Default
898	<input type="checkbox"/>	Object-Dependent Default
899	<input type="checkbox"/>	Object-Dependent Default
900	<input type="checkbox"/>	Object-Dependent Default
901	<input type="checkbox"/>	Object-Dependent Default
983	<input type="checkbox"/>	Object-Dependent Default
985	<input type="checkbox"/>	Object-Dependent Default

For interfaces that involve replication via IDOC, an extension, custom segments, and fields can be added in the Mapping Details table.

Add Extension

1. If an extension is not added to the standard IDOC type, then it can be added by selecting Edit IDOC.



2. Highlight the segment. Click on Edit IDOC and then Add Extension.

Mapping Details

+ Add Extension X Cancel

Segment	Transformation	Table	Table Field	Fixed Value
E1KNA1M				
MSGFN				
VFANIP				

3. Create a new extension, copy from an existing one or add a successor.

Extension Details

1 Select Extension Type

1. Select Extension Type

New
 Copy
 Successor

4. Add the extension name starting with "Z." In case of copy and successor, choose the referencing segment from the list.
5. Give the description. The basic type (Basic IDOC Type) is defaulted already.

Extension Details

CONCENTO™ RDG

1 Select Extension Type 2 Create Extension 3 Create/Edit Segment Step

2. Create Extension

Extension Details

Extension Name: ZFEFDG Description*: IDOC EXTEN Basic Type*: DEBMAS07

Step 3

6. Click on step 3.
 - Choose the parent Segment from the list
 - Give the name of the segment starting with “Z”
 - Choose a relevant referencing table
 - Minimum and maximum can be set per requirements
 - Add the fields to the segment

Extension Details

1 Select Extension Type 2 Extension Details 3 Add Segment

3. Add Segment

Parent Segment: E1SKA1M

Segment Type: ZMAH1

Reference Table: LFA1_FS

Qualified Segment:

Minimum Number: 0

Maximum Number: 1

Fields in Segment + ADD

Field Name	Data Element	ISO Code?	Exp Len
ZLOCATION1	CHAR10	<input type="checkbox"/>	0010
ZLOCATION2	CHAR10	<input type="checkbox"/>	0010

7. Click Save and select the correct TR and package.

Add Segments

If the IDOC type already has an existing extension, then user will only see options to add/edit segments

Custom segments must be added to a parent segment. Multiple custom segments can be added. Only custom segments can be edited.

1. Highlight the parent segment. Click Edit IDOC and then Add Segment.

Mapping Details

+ Add Segment Edit Segment Cancel

Enter Segment Enter Field Select Transformation

Segment	Transformation	Table	Table Field	Fixed Value
▼ E1LFA1M				
MSGFN	▼			
LIFNR	▼			
ANRED	▼			
BAHNS	Mapped Value ▼	BUT000 🔗	BU_SORT1	
BBBNR	▼			
BBSNR	▼			
RFGRII	▼			

- Fill in required information.
 - Give the name of the segment starting with "Z"
 - Choose a relevant referencing table
 - Minimum and maximum can be set per requirements
 - Add the fields to the segment
 - Click Save and select the correct TR and package.

3. Add Segment

Parent Segment: E1SKAJM

Segment Type: ZMAHTJ

Reference Table: LFA1_FS

Qualified Segment:

Minimum Number: 0

Maximum Number: 1

Fields in Segment

Field Name	Data Element	ISO Code?	Exp Len
ZLOCATION1	CHAR10	<input type="checkbox"/>	0010
ZLOCATION2	CHAR10	<input type="checkbox"/>	0010

Edit a Segment

- Highlight a custom segment in the table. Click Edit Segment.

Mapping Details

+ Add Segment Edit Segment Cancel

Segment	Transformation	Table	Table Field	Fixed Value
VALID_FROM	▼			
COLL_PROFILE	▼			
▼ ZZBP1012				
TIMESTAMP	▼			
DIFTVAL	▼			
DATE_TO	▼			

- Make required changes. Editable fields include

- Reference Table
- Minimum Number
- Maximum Number
- Qualified Segment indicator
- Existing Fields in Segment
- Adding additional fields
- Removing fields

For data replication involving SOA, enhancements with elements and attributes may be added in the Mapping Details table. An enhancement may have attribute(s) directly under it, or may have element(s) that contain attribute(s).

Add Element and Attribute

1. Highlight the segment. Click on Edit Proxy [Edit Proxy](#) .

The screenshot shows the 'Interfaces' page for business system S41CLNT100. On the left, a list of interfaces includes '986_3' (Outbound Impl. for BP/REL via Services Inactive), 'ZIDOC_VEN' (Outbound Impl. for BP/REL via Services Inactive), 'ZSOA_BP' (Outbound Impl. for BP/REL via Services Active), and 'ZTR_CUSTMR' (Outbound Impl. for BP/REL via Services Inactive). The main area shows 'Mapping Details' for the selected interface. A table lists segments and their fields:

Segment	Transformation	Table	Table Field
MDG_BP_RELSUITERQ_MSG			
BUSINESS_PARTNER_RELATIONSHIP			
BUSINESS_PARTNER_INTERNAL_ID			
REL_BP_INTERNAL_ID			
DEFAULT_INDICATOR			
BUSINESS_PARTNER_UUID			
REL_BP_UUID			
VALIDITY_PERIOD			
CONTACT_PERSON			

2. Click on Add [+ Add](#)

This screenshot is identical to the previous one, but the '+ Add' button in the 'Mapping Details' toolbar is highlighted in blue, indicating it has been clicked.

3. Choose Add Element. Or choose Add Attribute to add the attribute directly under the enhancement and skip to step 8 of these instructions.

The screenshot shows the 'Proxy Enhancement' page with a progress indicator at the top: 1. Select Enhancement Type, 2. Create/Select Enhancement, 3. Create/Edit Element, 4. Create/Edit Attribute. The first step is active. Under '1. Select Enhancement Type', there are two radio buttons: 'Add Element' (which is selected) and 'Add Attribute'. A 'Step 2' button is visible at the bottom left.

4. Enter Enhancement Name starting with Z or Y.

5. Give the description (Optional).

6. Click on step 3.

- Enter the Element Name starting with Z or Y
- Select the value from the list for Max Occurs field
- Select the XSD Type from the list
- Select the ABAP Type from the list

Based on the selections for XSD Type and ABAP Type, other fields may be optional or required. These fields will be made editable or marked required according to the values selected.

7. Click on Step 4
8. Click on Add **+ ADD** to create a new Attribute
 - Enter the Attribute name starting with Z or Y
 - Enter Default Value (optional)
 - Select the XSD Type
 - Select the ABAP Type

Based on the selections for XSD Type and ABAP Type, other fields may be optional or required. These fields will be made editable or marked required according to the values selected.

9. Click Save and select the correct TR and package.
10. Receive a confirmation message that the changes have been submitted and that the details will load when completed. This may take one to two minutes.

11. If you return to the Mapping Details before loading is complete, receive a message that details are still loading. Return to the Mapping Details when complete.

Edit Proxy Enhancement

1. Highlight the custom enhancement, element, or attribute to be edited. Click on Edit Proxy.

The screenshot shows the Syniti web interface. On the left, there is a sidebar with a list of interfaces under the heading 'Interfaces'. The main area displays the 'Mapping Details' for a selected interface. At the top, there is a dropdown for 'Business System for Mapping' set to 'S41CLNT100'. Below this, there are buttons for 'Enter Segment', 'Enter Field', and 'Select Transformation'. The 'Mapping Details' table has columns for Segment, Transformation, Table, Table Field, and Fixed Val. The row for 'ZRDG_MDG_BP_REL_ZAC_EHNCT' is highlighted in blue. In the top right corner of the mapping details area, there are two buttons: 'Edit Proxy' and 'Edit Mapping'.

2. Click on Edit

This is a close-up view of the 'Mapping Details' table. At the top right of the table area, there are buttons for '+ Add', 'Edit', 'Delete', and 'Cancel'. The 'Edit' button is highlighted with a blue border. Below the buttons, there are input fields for 'Enter Segment', 'Enter Field', and a 'Select Transformation' dropdown. The table header shows columns for Segment, Transformation, Table, Table Field, and Fixed Val.

3. Make required changes.

- Editing Enhancement → Add or Edit Attribute(s)
- Editing Element → Add or Edit Attribute(s)
- Edit Attribute

4. Click Save and select the correct TR and package.

5. Receive a confirmation message that the changes have been submitted and that the details will load when completed. This may take one to two minutes.

The screenshot shows a 'Messages issued' dialog box. It contains three messages: a green success message 'Enhancement ZAC_EHNCT activated successfully after modification!', a yellow warning message 'Mapping details will load when completed.', and another yellow warning message 'Proxy structure loading is queued.'. There is a 'Close' button at the bottom right of the dialog.

- If you return to the Mapping Details before loading is complete, receive a message that details are still loading. Return to the Mapping Details when complete.

⚠ Mapping details loading

Proxy structure is still being processed. Please try again in a moment.

OK

Delete Enhancement, Element, or Attribute

- Select the enhancement, element, or attribute to be deleted and click on Edit Proxy [Edit Proxy](#)

The screenshot shows the 'Mapping Details' view for Business System 'S41CLNT100'. On the left, a list of interfaces includes '986_3' (Outbound Impl. for BP/REL via Services Inactive), 'ZIDOC_VEN' (Outbound Impl. for BP/REL via Services Inactive), 'ZSOA_BP' (Outbound Impl. for BP/REL via Services Active), and 'ZTR_CUSTMR' (Outbound Impl. for BP/REL via Services Inactive). The main area displays a table with columns: Segment, Transformation, Table, Table Field, and F. The selected segment is 'ZRDG_MDG_BP_REL_ZAC_ELE1', which has an attribute 'ZAC_ATTR1' highlighted. Other segments include 'VALIDITY_PERIOD', 'CONTACT_PERSON', 'SHARE HOLDER', and 'ZRDG_MDG_BP_REL_ZAC_EHNCT'.

- Click on Delete [Delete](#)
- Select the correct TR and package.



If the only attribute under an element is deleted, the entire element will be deleted.

If all attributes and elements under an enhancement are deleted, the entire enhancement will be deleted.



Edit Mapping

For an interface with any type of communication channel, the mappings can be edited in the Mapping Details table with the following steps.

1. Select the system for Mapping:

Business System for Mapping:

2. Find a segment/field or enhancement/attribute by scrolling or by using the filter at the top of the table. Or filter by selecting the type of transformation. To change the mapping, click Edit Mapping. Then adjust the mapping by selecting fixed, bypass or mapped value transformation.

▼ Mapping Details

[Edit IDOC](#) [Edit Mapping](#)

Enter Segment Enter Field Select Transformation ▼ 🔍 🔍*

Segment	Transformation	Table	Table Field	Fixed Value
▼ E1LFA1M				
MSGFN	▼			
LIFNR	▼			
ANRED	▼			
BAHNS	▼			
BBBNR	▼			
BBSNR	▼			

▼ Mapping Details

Save Cancel

Segment	Transformation	Table	Table Field	Fixed Value
▼ E1LFA1M				
MSGFN	▼			
LIFNR	▼			
ANRED	▼			
BAHNS	Mapped Value ▼	BUT000 🔍	BU_SORT1	
BBBNR				
BBSNR	Bypass			
BEGRU	Mapped Value			
BRSCH	Fixed Value			
BUBKZ	▼			
DATLT	Bypass ▼			
DTAMS	Fixed Value ▼			1 - Single data record ...
DTAWP				


3. Complete the mapping according to the transformation:

- If Fixed value is selected, enter the fixed value.
- Bypass will not require additional information (only available for IDOC)
- Mapped value will require a referencing table to be selected along with the key value. Then map it with the table field.

4. Save mapping, select transport and package to complete.

Delete a Replication Model

1. Choose the replication model to delete from the list on the left side of the screen.

2. In the Interface Details section, click the  **Delete** button.

▼ Interface Details

* Denotes Required Field

Replication Model: * ZIDOC_COST Active

Description: * Cost Center IDOC

Outbound Implementation: * 1102 - Cost Center IDoc

Communication Channel: * 2 - Replication via IDoc

Data Model: * 0G - Financials X

Sequence: 00

Filter Time: 2 - Filter After Change Analysis X

Business System: * SD2CLNT100 X Manage Business System

Parameters: + ADD

Parameter	Mandatory	Value
No data		

Variants: Edit Delete

3. Choose a transport and confirm.

Master Data Consolidation (Process Templates)

Master data consolidation refers to the process of combining and centralizing master data from disparate sources into a single system. It enables organizations to establish and enforce consistent policies, standards, and processes for managing master data. Users with SAP versions before 2022 may experience limited functionality for this feature.

In SAP, process templates are predefined sets of steps and configurations that streamline and standardize the master data consolidation process.

Consolidation can be done on Source and Active records. Source consolidation would generally be used in migration, whereas active record consolidation would be used in keeping data cleansed in day-to-day operations.

Process Steps available depend upon the Business Object Type and Process Goal selected.

- Standardization
- Update
- Matching
- Enrichment
- Best Record Calculations
- Validation
- Filter and Remove
- Evaluation
- Replication
- Activation

In RDG, to configure process templates, choose the Master Data Consolidation tile.



Standard and any existing custom process templates will be shown.



Process Templates

Search Process Templates +

1405 - Business Partner Relationship

SAP_BR_MAS
SAP: Change BP Relationships

SAP_BR_COM
SAP: Cons BP Relshp with Value Mapping

SAP_BR_LOA
SAP: Load BP Relationships

SAP_BR_LOM
SAP: Load BP Relshp with Value Mapping

SAP_BR_BMC
SAP: Mass Maintenance BP Relationships

SAP_BR_CON
SAP: Consolidate BP Relationships

ZUM
FIRST PROCESS TEMPLATE

ZUPD1405
Description updated

ZTEST1234
test

Process Template

Process Template Details

Process Template*
SAP_BR_COM

BO Type*
1405 - Business Partner Relationship

Default Template Delete Source

Save Delete

Process Template Description*
SAP: Cons BP Relshp with Value Mapping

Process Goal*
C - Consolidation of Source Records

Strategy

Process Template Step + ADD DELETE

Step*	Step Type*	Description*	Adapter	Config Id	Check Pt	Action Control	Authorization Group
1	STD - Standardization	Value Mapping	CL_MDC_ADAPTER_...		<input checked="" type="checkbox"/>		
2	VAL - Validation	Initial Check	CL_MDC_ADAPTER_...	SAP_VAL_...	<input checked="" type="checkbox"/>		
3	MTC - Matching	Matching	CL_MDC_ADAPTER_...		<input checked="" type="checkbox"/>		
4	BRC - Best Record ...	Best Record Calculation	CL_MDC_ADAPTER_...		<input checked="" type="checkbox"/>		
5	VAL - Validation	Validation	CL_MDC_ADAPTER_...	SAP_VAL_...	<input checked="" type="checkbox"/>		
6	ACT - Activation	Activation	CL_MDC_ADAPTER_...	SAP_ACT_...	<input type="checkbox"/>		

To create a new process template, click +

Manage Master Data Consolidation
CONCENTO RDG

Process Templates

Search Process Templates +

1405 - Business Partner Relationship

SAP_BR_MAS
SAP: Change BP Relationships

SAP_BR_COM
SAP: Cons BP Relshp with Value Mapping

SAP_BR_CON
SAP: Consolidate BP Relationships

SAP_BR_LOA
SAP: Load BP Relationships

SAP_BR_LOM
SAP: Load BP Relshp with Value Mapping

SAP_BR_BMC
SAP: Mass Maintenance BP Relationships

Process Template

Process Template Details

Process Template*

BO Type*

Default Template Delete Source

Save

Process Template Description*

Process Goal*

Strategy

Process Template Step + ADD DELETE

Step*	Step Type*	Description*	Adapter	Config Id	Check Pt	Action Control	Authorization Group
No data							



Enter a name and description for the process template. Names must begin with Y or Z. Then choose a Business Object Type. Available process goals will be filtered based on the BO Type selected. The BO types and process goals available will be dependent on the version of MDG being used.

After BO Type and Process Goal are selected, if Strategy is required, it will show in red. Otherwise, it will be read-only.

Tips

If Process Goal B is selected, steps are not valid and cannot be added to the process template.



Add as many steps as required. RDG ensures that step selection and order are valid and will not create errors. Availability of step types is dependent on the BO Type and Process Goal.

Process Templates

Process Template

Process Template Details

Process Template* ZUSERGUIDE

Process Template Description* user guide example

BO Type* 147 - Business Partner

Process Goal* A - Consolidation of Active Records

Strategy* 1 - Improve Best Record

Step*	Step Type*	Description*	Adapter	Config Id	Check Pt	Action Control	Authorization Group
1							
2							
3							

Add adapters and configurations as required. Creating custom configurations is currently only supported for the Evaluation, Best Record Calculation, Filter and Remove, Matching, and Evaluation steps.

Process Templates

Process Template

Process Template Details

Process Template* ZUSERGUIDE

Process Template Description* user guide example

BO Type* 147 - Business Partner

Process Goal* A - Consolidation of Active Records

Strategy* 1 - Improve Best Record

Step*	Step Type*	Description*	Adapter	Config Id	Check Pt	Action Control	Authorization Group
1	MTC - Matching	matching					
2	BRC - Best Record Calcul...	best record calculation	Custom - Create Adapter				
3	FAR - Filter & Remove	filter and remove	CL_MDBP_ADDR_CMP_ADAPTER_MTC - Multiple address Migration				
4	VAL - Validation	validation	CL_MDC_ADAPTER_BP_IM_MTC - HANA smart data quality				
5	ACT - Activation	activation	CL_MDC_ADAPTER_FUZZY_MTC - HANA fuzzy search				



For example, if Evaluation is selected for the step type, select or create an adapter for that step.

The screenshot shows the 'Process Template' configuration page. On the left is a 'Process Templates' sidebar with a search bar and a list of templates including 'ZACT_TEST', 'ZCUSTOM_EV', 'ZTR_FAR', '986 - Business Partner including Relationships', 'SAP_BX_COM', 'SAP_BX_CON', 'ZTEST3', 'Z12473', 'MDC_147 - Business Partner for Consolidation', 'ZSS_TEST3B', 'ZSS_TEST9', and 'ZTR_EVA'. The main area is titled 'Process Template' and shows details for 'ZTR_EVA'. Fields include 'Process Template Description' (Test Rail EVA testing), 'BO Type' (MDC_147 - Business Partner for Consolidation), and 'Process Goal' (Q - Data Quality Evaluation). Below is a table for 'Process Template Step':

Step*	Step Type*	Description*	Adapter	Config Id	Check Pt	Action Control	Authorization Group
1	EVA - Evaluation	EVA1	-	-	<input type="checkbox"/>	- No action ...	-
2	EVA - Evaluation	EVA2	Custom - Create Adapter	-	<input type="checkbox"/>	- No action ...	-
3	EVA - Evaluation	EVA3	CL_MDQ_RULE_EVALUATION_ADAPTER - Custom EVA adapter	-	<input type="checkbox"/>	- No action ...	-

If creating a custom adapter, enter details. These details can be edited later by selecting it from the box and clicking the pencil button.

The screenshot shows the 'Manage Adapters' dialog box. It contains the following fields:

- BO Type*** (Required): Business Partner Relationship
- Step Type***: EVA - Evaluation
- Adapter***: CL_MDQ_RULE_EVALUATION_AD...
- Description***: Custom EVA adapter
- Usage**: All Processes

Buttons at the bottom: Delete, Update, Close.



Then select or create a configuration.

Step*	Step Type*	Description*	Adapter	Config Id	Check Pt	Action Control	Authorization Group
1	EVA - Evaluation	EVA1	CL_MDQ_RULE_EVALUATI...	-	<input type="checkbox"/>	- No action ...	-
2	EVA - Evaluation	EVA2	-	-	<input type="checkbox"/>	- No action ...	-
3	EVA - Evaluation	EVA3	-	-	<input type="checkbox"/>	- No action ...	-

If creating a custom configuration, enter the details. These details can be edited later by selecting the configuration and clicking the pencil button.

Step*	Step Type*	Description*	Adapter	Config Id	Check Pt	Action Control	Authorization Group
1	EVA - Evaluation	EVA1	CL_MDQ_RULE_EVALUATI...	ZEVA_CST - C...	<input type="checkbox"/>	- No action ...	-
2	EVA - Evaluation	EVA2	-	-	<input type="checkbox"/>	- No action ...	-
3	EVA - Evaluation	EVA3	-	-	<input type="checkbox"/>	- No action ...	-

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When changes are finished, click Save and select a transport request. RDG will validate the steps and selections added before saving to ensure they are valid. If there are no errors, a success message will be shown.

The screenshot displays the 'Manage Master Data Consolidation' interface. On the left, a sidebar lists various process templates under the '1405 - Business Partner Relationship' category. The main area shows the 'Process Template Details' for 'ZUSERGUIDE', which is a '147 - Business Partner' template. Fields include 'Process Template Description' (user guide example), 'Process Goal' (A - Consolidation of Active Records), and 'Strategy' (1 - Improve Best Record). A 'Messages issued' dialog box is open in the foreground, displaying a green success message: 'Process template ZUSERGUIDE is created successfully'. At the bottom, there are 'Save' and 'Delete' buttons, and a table of process steps.

Step	Type	Code	Adapter	Package	Options	Strategy
4	VAL - Validation	validation				
5	ACT - Activation	activation	CL_MDC_ADAPTER_BP_A...	ZBFACT_CGS ...	<input checked="" type="checkbox"/>	S - Strict 4 ... ZZQA - Quality Mass cha...

Process Analytics

Process analytics provide analytics capability to enable master data specialists to get real-time insights into change request processes, monitor open and completed change requests, identify and fix process gaps and errors. SAP version greater than or equal to 2022 is required.

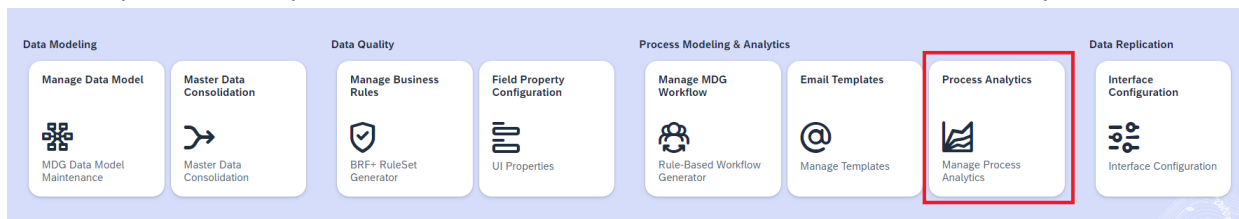
CDS views are used to retrieve the data and display the information in intuitive ways. Data is brought from the master data tables and CDS views are created. Those views will be used to create analytical report apps in Fiori or can be consumed on the SAP analytics cloud.

Configuration Steps

1. Generate the basic CDS views for each data model.
2. Configure and then generate custom analytical views with the entities/attributes desired for the analytical report. For each view that is created, SAP generates an OData service to create the Fiori/analytics cloud report.
3. Configure analytics report.
4. Configure a KPI/ALV report to display the information in a UI5 application, including drill down.

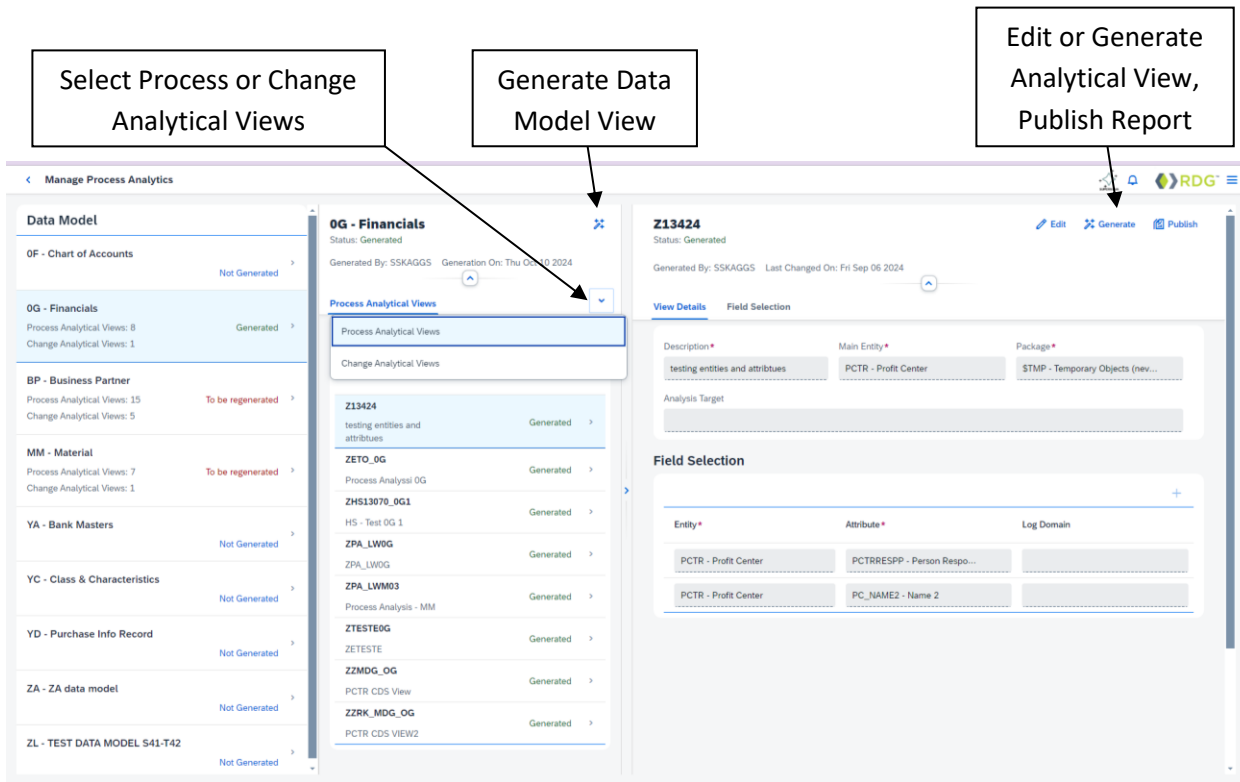
If changes are made to the data model, views should be regenerated.

These steps can be completed in RDG. From the home screen, choose the Process Analytics tile.



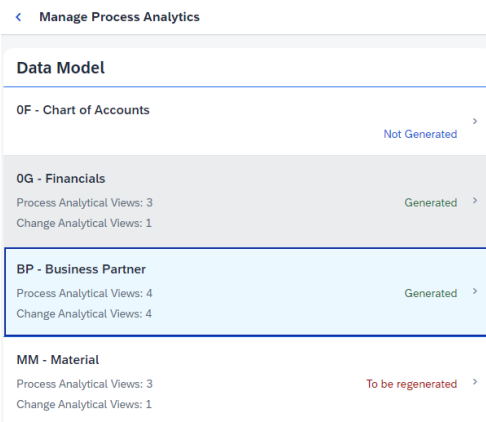
The first panel lists all the data models available in the system. Each data model will show the status of the view, whether Generated, Not Generated, or To be regenerated. In the second panel, there is a button to generate the data model view for the data model selected. Select from either Process or Change Analytical views. If a view is selected, the details will be displayed in the third panel, and can be edited, generated, or report published.

If a data model view or analytical view is generated, this process can take several minutes to complete. Refresh the screen to see the updated status.

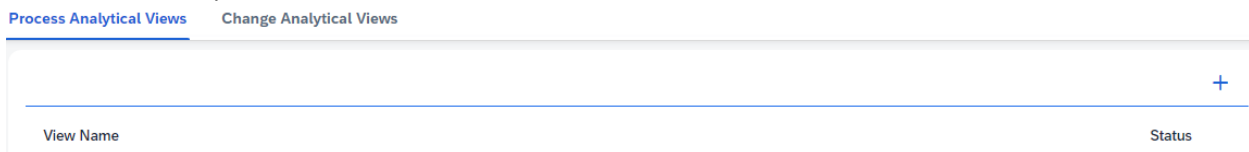


Adding a New Analytical View

1. From the first panel, select a data model.



2. From the second panel, click +



3. Provide the required details for the view. Save. After Save, click Generate. Generation may take several minutes.

ZPA_BP Save Cancel Edit

[View Details](#) [Field Selection](#)

Name* Description* Main Entity*

Package* Analysis Target



Field Selection

Entity*	Attribute*	Log Domain
<input type="text" value="AD_POSTAL - Physical Ad..."/>	<input type="text" value="DEFLTCOMM - Comm. Metho"/>	<input type="text" value=""/>

4. To generate the Fiori report, click Publish.

AI Assistant

The RDG AI assistant can be used to access Help information for any screen in RDG, create help desk tickets, and create business rules based on data from a spreadsheet.

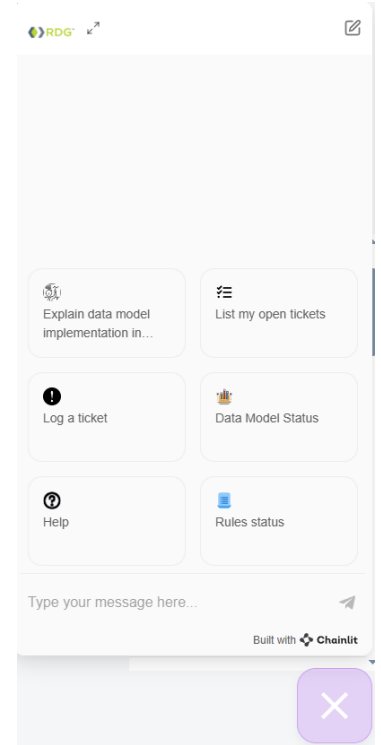
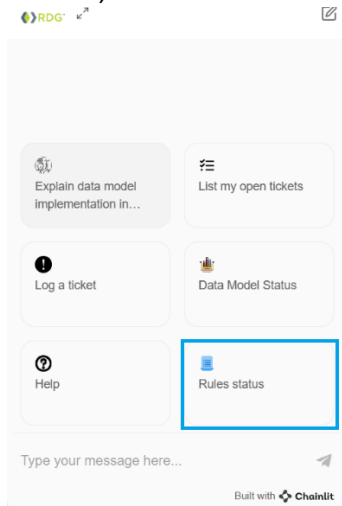
The AI assistant can be accessed by clicking the Supernova link  at the top right of the screen. This will display the AI icon  at the bottom right side of the screen.

A pop-up window with tile options will display.

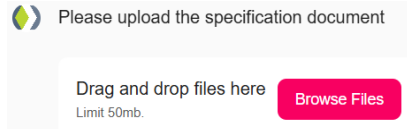
Business Rules Creation

Business rules can be created by AI when read from an uploaded spreadsheet. Rules can be created by AI for entities and attributes in BP, MM, and OG data models only.

To start, select Rules Status.



A prompt to upload the specification document containing the Business Rules to be created by the AI will be displayed.





Editing the upload file for AI Business Rules

The uploaded spreadsheet should have this format.

Seq	Data model	Entity	Attribute	Condition	Rule Type	ZAI_TEST	ZAI_MM	ZAI_0G
1	MM	MATERIAL	BISMT	Old Material Number is a required field	1	X		
2	BP	BP_CENTRL	BU_SORT2	If search term 2 in not between 10 and 20, give the user a warning message "Check the search term value"	2	X		
3	BP	BP_CENTRL	BU_SORT2, BU_SORT1	If search term 2 in not equal to 100, derive the value of search term 1 as 150	3	X		
4	BP	AD_POSTAL	RFE_POST, CITY1	If state is TX and city is Plano, then create an information message with message class ZRDG_MSG_CLASS and message number 002	4	X		
5	BP	BP_CENTRL	FOUND_DAT, LIQUID_DAT	If Liquidation date of organization is Current Date, derive Date organization founded to be Current Date also	5	X		
6	MM	MATERIAL, MARAPURCH	MTART, BSTME, MBRSH	If material type equals BUND and Purchase Order Unit of Measure equals 'KGK - Kilogram/Kilogram' then derive value for Industry sector to be 'P'. No cross entity.	5	X		

- **Sequence:** unique identifier for the rule in the file
- **Data Model:** data model within which the rule is being created
- **Entity:** listed entities that are referenced in the rule, separated by a comma
- **Attribute:** listed attributes of the entities that are referenced in the rule, separated by a comma
- **Condition:** written description of the rule
 - Description of the attribute(s), with any driving and deriving values
 - For validation rules, indicate whether the message is from a Message Class or Custom Message
 - For Message Classes, indicate the message class and message number
 - Indicate the message type: Information, Warning, or Error message
 - Include values for placeholders in messages if required
 - For derivation rules, if using string concatenation or mathematical formula, provide all the required values
 - For multivalued derivation rules, indicate whether cross-entity (with keys/non keys or with non keys) is required
- **Rule Type:** rule type being created by the AI. Enter 1, 2, 3, 4, or 5 only.
 - 1: Mandatory Rule
 - 2: Single Value Validation Rule
 - 3: Single Value Derivation Rule
 - 4: Multi Value Validation Rule
 - 5: Multi Value Derivation Rule
- **Change Request Types:**
 - List applicable change request types in column headers
 - Indicate which change request type(s) are applicable for that specific rule by entering "X"

Uploading and AI Analysis of Rules Template File

Select Browse Files and navigate to the local directory where upload file is located. Once uploaded the AI will analyze the contents of the file and generate a report with the following:

- **Total Rules from Document:** total number of rules in the document
- **Rules with Validated Entries in the System:** identifies number of rules once the AI generated rule has been created, validated and activated by the user in RDG
- **Rules Crafted by AI but Not Yet Validated:** number of rules in the document that have already been created by the AI
- **Rules Without Entry in the System:** number of rules in the document that have yet to be created by the AI

Displaying Rules in the Uploaded Template

In the message prompt, ask the AI to display rules filtered by the upload template parameters like data model, change request type, entity, rule type, etc.

RDG

What are the multivalue derivation rules in the document?

Here are the Multi Value Derivation rules from the document:

Change Request	Data Model	Entity	Attribute	Rule Type	Condition	Match Count	Rule Name	Dra Co
ZAI_MM	MM	MATERIAL, MARAPURCH	MTART, BSTME, MBRSH	Multi Value Derivation	If material type equals BUND and Purchase Order Unit of Measure equals 'KGK - Kilogram/Kilogram' then derive value for Industry sector to be 'P'. No cross entity	0		
ZCENOV1	BP	BP_CENTRL	FOUND_DAT, LIQUID_DAT	Multi Value Derivation	If Liquidation date of organization is Current Date, derive Date organization founded to be Current Date also	0		

These rules have not been validated or have entries in the system. If you need further assistance

Type your message here...

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Creating AI Rules

In the message prompt ask the AI to create the desired rule(s).

RDG

Create the first of these rules

We have started creating the rule for you based on the provided parameters. This process might take a while. Please wait while we generate the rule.

This process is taking longer than expected. Please continue with other tasks; we'll notify you when it's complete.

Here is the generated payload for the rule:

```

json
{
  "AppName": "",
  "UserRuleName": "",
  "BadiImpl": "",
  "NewBadi": "",
  "CrossEntity": "",
  "UsmdCreqType": "ZAI_MM",
  "UsmdEntity": "MATERIAL",
}
    
```

Type your message here...

Built with Chainlit



Saving AI Created Rules

Ask the AI to save the rule(s).



```
"UsmdAttribute": "MBSH",  
"ColNum": "4",  
"Attrdatatype": "CHAR",  
"Lengthtype": "000001"  
}  
],  
"MODELMESSAGE": [],  
"DraftAI": "X"  
}
```

Would you like to save this rule? ●

Yes

The rule has been successfully saved with the following details:

- **Change Request:** ZAI_MM
- **Data Model:** MM
- **Rule Type:** Multi Value Derivation
- **Entity:** MATERIAL

If you need further assistance or have any other requests, feel free to ask! ●

[Type your message here...]

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Displaying AI generated rules in RDG

Select the AI Generated checkbox in Business Rules of RDG to view only the AI generated rules which will be indicated with a Supernova icon in the AI column.

[Home / Manage Business Rules /](#)

Manage Business Rules

Business Rules List

By Entity By Step Type

Data Model: CR Type: Entity: Rule Type: AI Generated

Data Model	CR Type	Entity	Rule Type	Business Rule	AI	Active
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D02		<input type="checkbox"/>
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D03		<input type="checkbox"/>
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D04		<input type="checkbox"/>
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D09		<input type="checkbox"/>
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D13		<input type="checkbox"/>
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D14		<input type="checkbox"/>
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D16		<input type="checkbox"/>
MM Material	ZAI_MM ai testing - MM	MATERIAL Basic Data	5 Multi Value Derivation	ZAP_MM_MATERIAL_ZAI_MM_D15		<input type="checkbox"/>
MM	ZAI_MM	MATERIAL	5			<input type="checkbox"/>

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