

# Cookbook for REA MM Integration for Retail Systems



## Applies to:

SAP Recycling Administration (SAP REA) on EhP6 or higher.

## Summary

The following document is a cookbook on how to make the REA MM integration available to users in a retail system. It will explain what options the REA MM integration offers and what steps are required to realize them. It will also explain how the REA MM integration can be enhanced by using a BAdI and what limitations with for the use of REA MM integration.

**Author:** Christian Lökes

**Company:** SAP AG

**Created on:** 28 December 2011

## Author Bio

Christian Lökes joined COPA in 1997, COPA was then taken over by SAPSI, which in turn was taken over by SAP AG. He works as a developer in the ACI department.

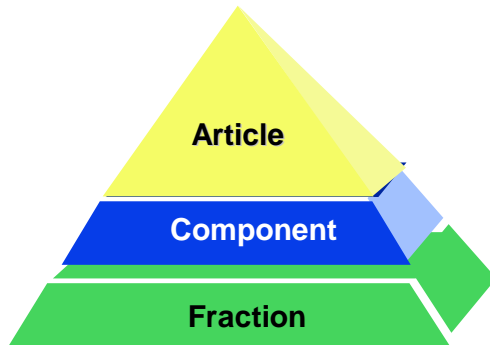
## Table of Contents

Introduction to the REA master data model.....	3
REA Article and Packaging Maintenance in MM.....	5
REA Article in MM Main Screens.....	6
REA Article in MM Secondary Screens.....	9
REA Packaging in MM Main Screens.....	14
REA Packaging in MM Secondary Screens.....	17
Limitations to REA Master Data Maintenance in MM.....	20
Steps to make REA MM Integration Available.....	21
Business Function J_7L_REA_AUTO_CONFIG.....	21
BADI Implementation J7L_BADI_MATERIAL_OD.....	22
Assignment of Screen Sequences.....	22
Use of REA MM Screens in other Screen Sequences.....	22
Use of Packaging and Article Screens in one Screen Sequence.....	22
New Screen Sequence.....	22
Use of Option 'Quick Entry for Packaging'.....	27
Enhancements to REA MM Integration.....	29
Related Content.....	30
Copyright.....	31

## Introduction to the REA master data model

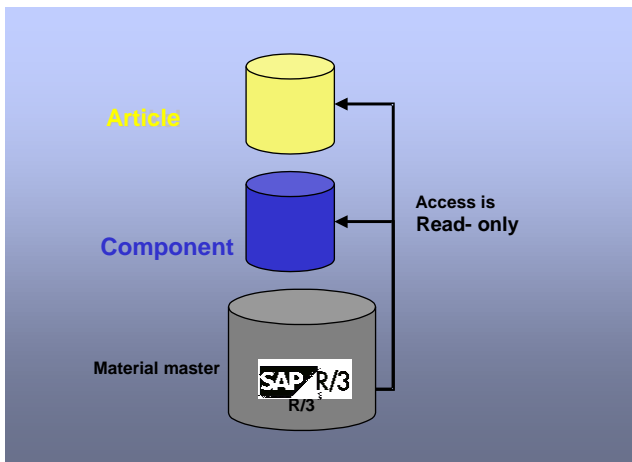
The REA master data consists of two main objects: REA **article** and REA (**packaging**) **component**.

A REA (packaging) component is based on REA **internal fractions**. Figure 1 depicts the master data model schematically. The colors in Figure 1 will be used consistently throughout this document.



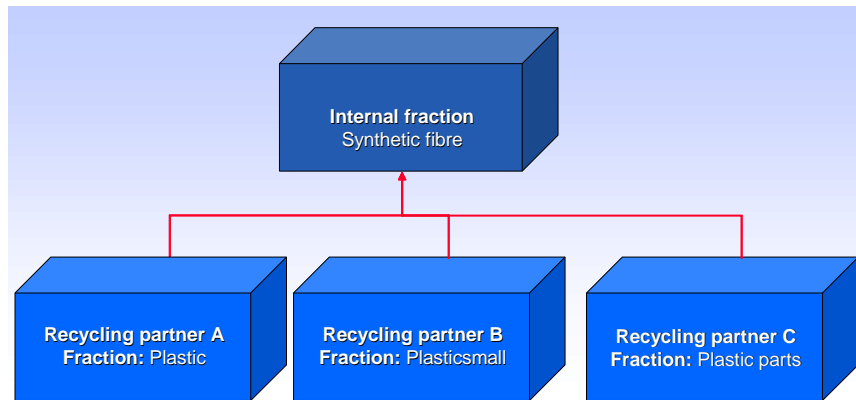
**Figure 1: REA Master data scheme**

REA article and REA components refer to the material number in the ERP Material master (MARA-MATNR). Hence REA article cannot exist without a corresponding MM entry. REA packaging components may exist without a material master entry, if configured appropriately. In addition it also is possible that a REA article and a REA component refer to the identical MM entry (Figure 2).



**Figure 2: Relationship to ERP Material master**

REA internal fractions are maintained in the REA customizing and assigned to one or many recycling partner fractions (Figure 3). It is also possible to assign an internal fraction to a recycling partner fraction without specifying a partner fraction. In this case there is no settlement with this particular recycling partner for that internal fraction. This mechanism is called **cancellation of partner fraction requirement**. This fraction assignment is out of scope for this document.



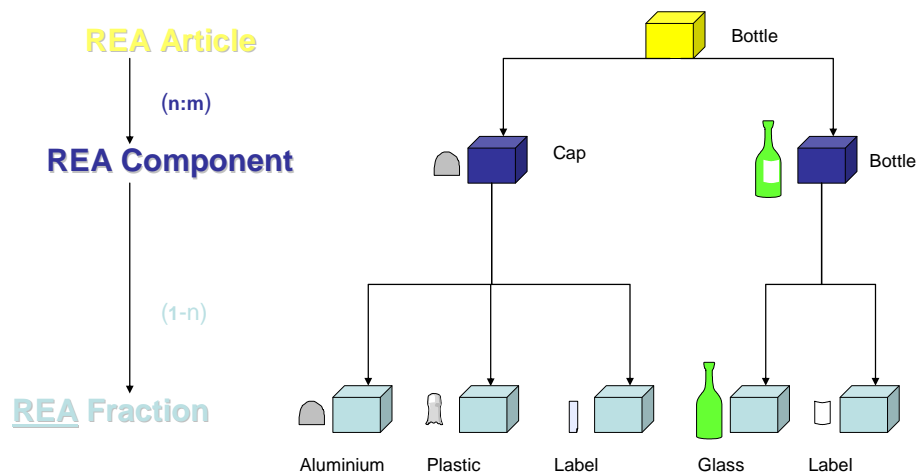
**Figure 3: Assignment internal fraction to recycling partner fraction by Customizing**

An internal fraction in REA is a packaging material that can be assigned 1 to n times to a REA packaging with a defined weight / weight unit.

A REA component consists of one or many internal fractions and that can be settled with one or many recycling partners. Both assignments are time dependent, so that several packaging versions with a non-overlapping timeframes can be created. A REA component can be of type **consumed packaging**, which can be directly identified in material movements by the declaration system, or of type **sales packaging**, which can be assigned to one or many REA articles as a component.

A REA article represents finished product that must be reported to a recycling partner due to the legal obligations of the REA user. In addition to the material number, a REA article is identified by the key values company code, country and sales unit. REA components and recycling partners are assigned to REA articles in a time dependent manner. A REA article is directly identified in billing documents and/or material movements by the declaration system.

Figure 4 depicts the REA master data structuring. The REA article and the REA components are the two main components that form the REA master data. In addition to the keys and relationships explained so far, REA articles and REA components can hold various attribute values that are generally dependent on the assigned recycling partner.



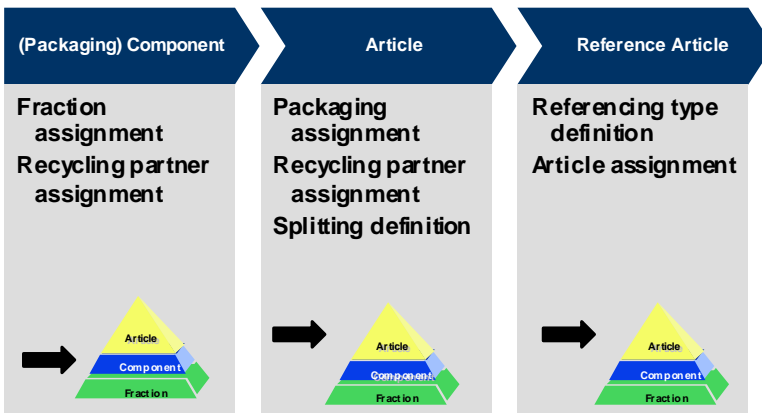
**Figure 4: REA Master data**

REA components are maintained by the transactions J7L5/J7L6/J7L7. The tab **fraction** is used to maintain the internal fraction assignment. The tab **partner** is used to maintain the recycling partner assignment. A REA component can only be settled with partners that are assigned to the packaging in a particular timeframe.

REA articles are maintained by transactions J7L1/J7L2/J7L3. The tab **packaging** is used to maintain the REA component assignment. The tab partner is used to maintain the recycling partner assignment. A REA article can only be settled with partners that are assigned to the article in a particular timeframe. In case there are multiple recycling partners assigned in the same timeframe, **license fee splitting** rules enable the user to split the license fee of the packaging between the assigned recycling partners dependent on the business process.

REA articles can alternatively be maintained as **reference articles** by transaction J7L0. Reference articles are settled exactly as their referenced article. Reference articles are not discussed in detail in this document.

Figure 5 summarizes the REA master data maintenance process.



**Figure 5: Process view**

## REA Article and Packaging Maintenance in MM

With REA MM integration it is now possible to include a slimmed down version of the REA maintenance tools for articles and packagings into the retail MM transactions, i.e. it is possible to create, change and display articles and packagings in transactions MM41, MM42 and MM43.

For articles there is one screen for partner assignment and one screen for packaging assignment. For packaging there is one screen for partner assignment and one screen for fraction assignment.

For both article and packaging maintenance there is the option to use either main screens, i.e. additional tabs in MM transactions, or secondary screens, i.e. buttons on existing screens that call the new screens for partner and packagings/fractions assignment.

The technique available for MM integration does not allow for the enhancement of the popup screen for organizational levels. Therefore the organizational data for articles (company codes, country and sales unit) has to be determined in another way. For main screens this is done via a dropdown list that includes all possible combinations of company codes and countries while the sales unit is always taken as the base unit of the material. For secondary screens the organizational data for articles is determined via an own popup where data for the new material and, if applicable, for the 'copy from' material can be entered.

The advantage of using main screens is that it increases the ease of use since entries for article/packaging are included in the view selection screen and additional tabs for article/packaging are available in the MM transactions.

The advantage of secondary screens is that they are more flexible in the selection of organizational data and that they offer wider screens that are better suited for the drag and drop operations in partner/packagings/fractions assignment controls.

## REA Article in MM Main Screens

The pictures below show what article main screens in MM look like.

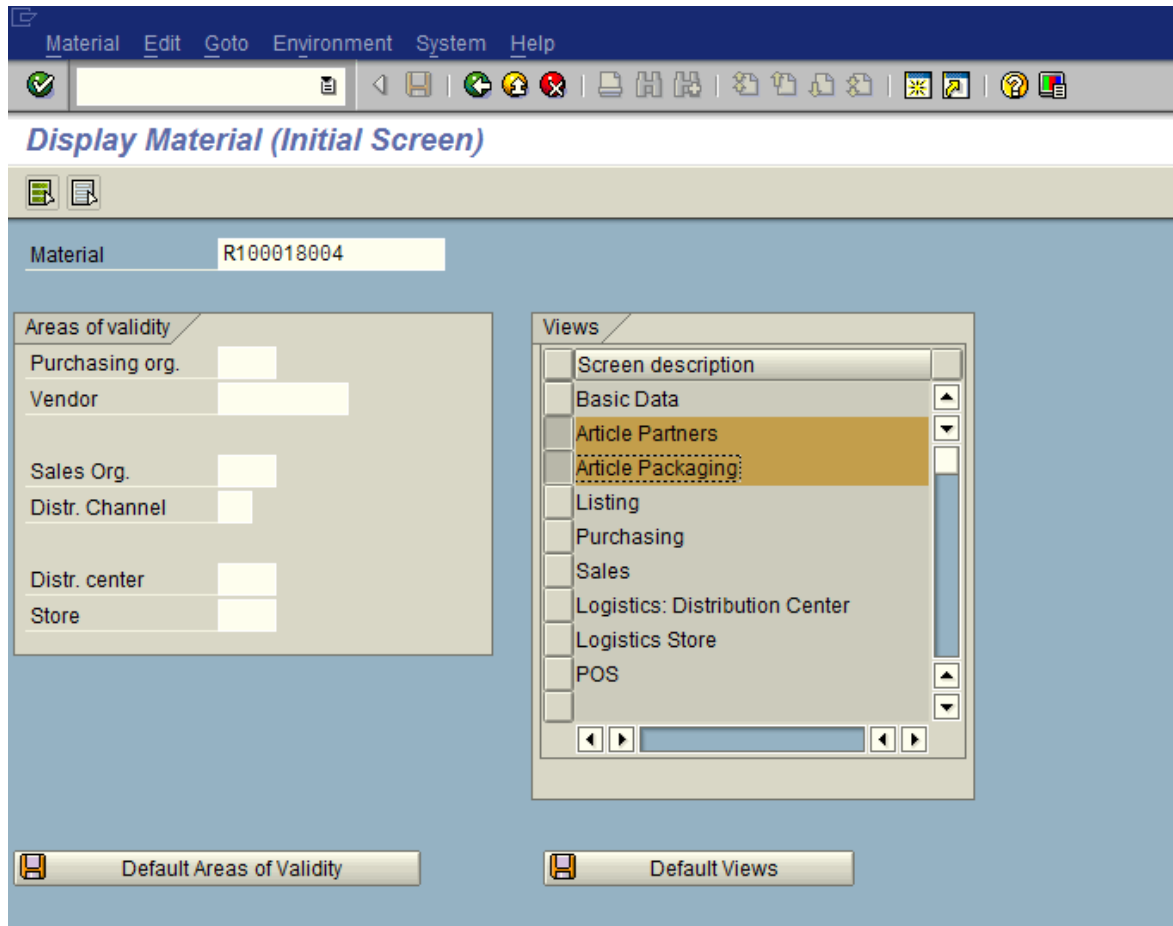


Figure 6: View Selection

Material  Ladies' blouse, linen idoc size Generic ...  
 Variant  Ladies' blouse, linen ido, 38, yellow

Organizational Level  
 Company Code  Country  Sales unit   Reference UoM

R.S.	Con.	Partner	DS	A	MRP	Splitting	Price	PCrpy
		ISD	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100,000...	0,00	EUR

Available Partners

Figure 7: Partner Assignment Screen

The screenshot displays the SAP 'Packaging Assignment' screen for material R100018004. The interface includes a menu bar (Material, Edit, Goto, Environment, System, Help), a toolbar, and a title bar 'Display Material R100018004 (Apparel (seasonal))'. Below the title bar are buttons for 'Material' and 'Additional data'. The main area is divided into several sections:

- Article Partners / Article Packaging / Listing / Purchasing / Sales / L**: Navigation tabs.
- Material Details**: Material R100018, Variant R100018004, Description 'Ladies' blouse, linen idoc size', and 'Ladies' blouse, linen ido, 38, yellow'.
- Organizational Level**: Company Code 0001, Country DE, Sales unit ST.
- Packaging Assignment Table**:
 

Descr.	Variant	Quantity	Comp unit	Level
1		1,000	KG	00
ISD		0,000		
- Available Packaging List**: A list of available packaging materials including R100020 and several REA\_TEST\_PACK entries.
- Summary Table**:
 

Descr.	Quantity	Un	Lv	Remnants
	1	KG		0,00

Figure 8: Packaging Assignment Screen



## REA Article in MM Secondary Screens

The pictures below show what article secondary screens in MM look like.

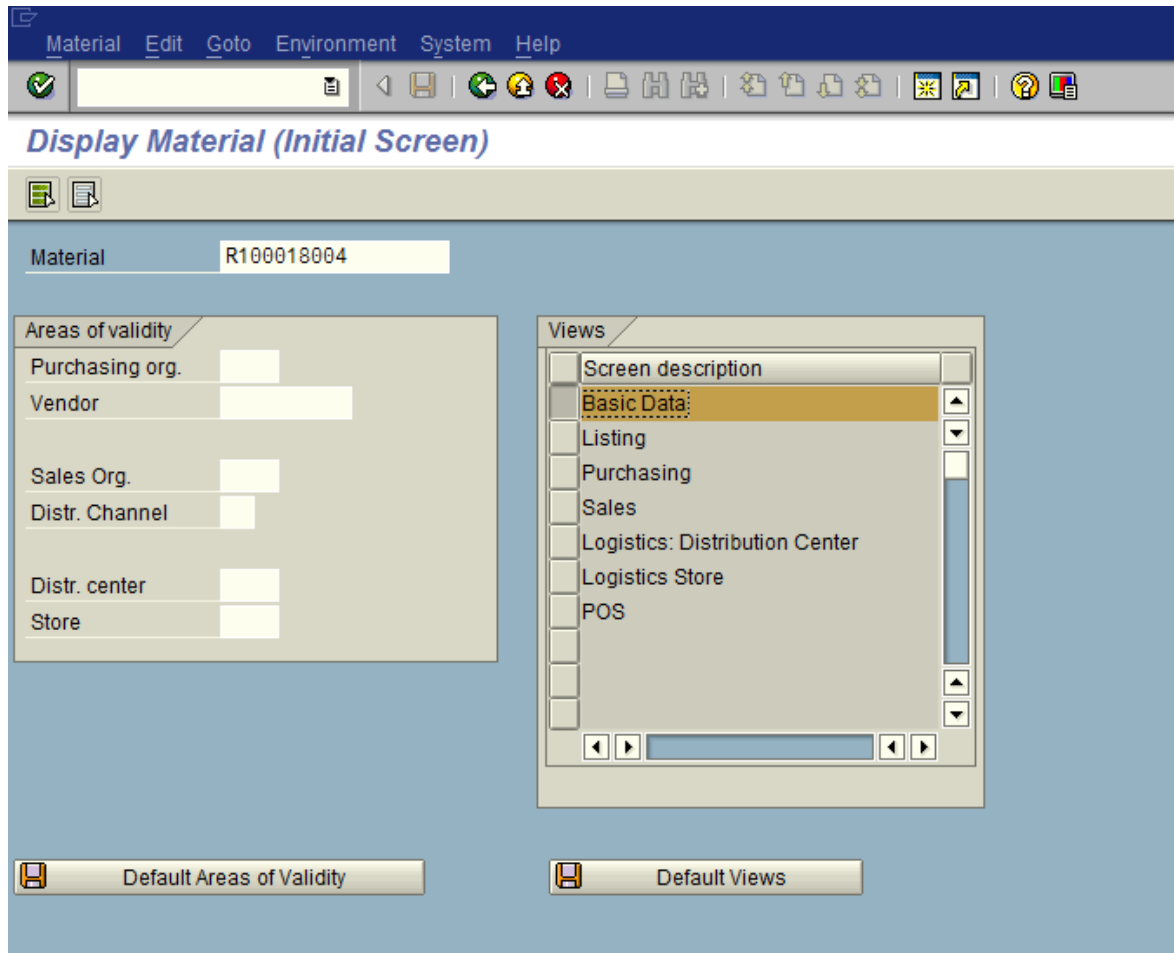


Figure 9: View Selection

The screenshot displays the SAP Basic Data screen with the following sections and fields:

- Navigation Tabs:** Basic Data (selected), Listing, Purchasing, Sales, Logistics: DC, Logistics ...
- Top Fields:**
  - Gross contents: 0,000
  - Comp.price unit: 0
- Validity Section:**
  - Valid From: 19.02.1998
  - Valid to: 31.12.9999
  - X-plant status:
  - X-DChain status:
  - Old matl number:
  - Season: 0001
  - Season Year: 1998
  - Rollout:
- Expiration date Section:**
  - Rem. Shelf Life: 0
  - Tot. Shelf Life: 0
  - Period Ind.: D
  - Rounding rule:
  - Storage %: 0
- Charact. Section:**
  - Size:
  - colour:
- Basic data texts Section:**
  - Languages maintained: 0
  - Basic data text:
- Article Section:**
  - Partners:
  - Packaging:
- Buttons:** More Basic Data

Figure 10: Basic Data Screen

The screenshot shows the SAP Basic Data screen for an article. The main window has tabs for Basic Data, Listing, Purchasing, Sales, Logistics: DC, and Logistics. The main content area is divided into sections: Gross contents (0,000), Comp. price unit (0), Validity (Valid From: 19.02.1998, Valid to: 31.12.9999), X-plant status, X-DChain status, Old matl number, and a popup window titled 'Organisationsebene'. The popup window shows the following data:

Organizational Level	
Company Code	0001
Country	DE
Sales unit	PC

Below the popup, there are buttons for 'OK' (green checkmark) and 'Cancel' (red X). The main window also has sections for Charact. (Size, colour), Basic data texts (Languages maintained: 0, Basic data text), and Article (Partners, Packaging, More Basic Data).

Figure 11: Popup for Organizational Data

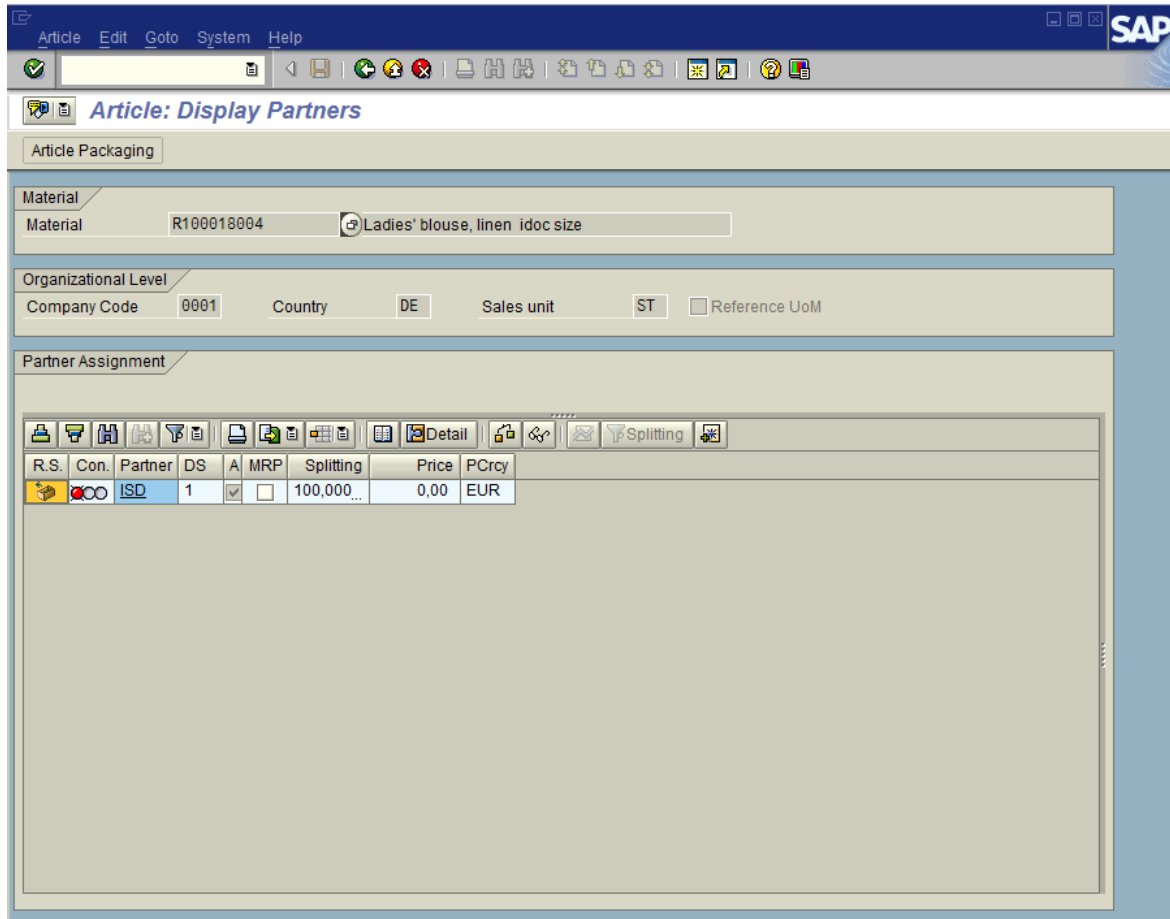


Figure 12: Partner Assignment Screen

Article: Display Packaging

Article Partners

Material  
Material: R100018004 Ladies' blouse, linen idoc size

Organizational Level  
Company Code: 0001 Country: DE Sales unit: ST

Packaging Assignment

Packaging Assignment	Descr.	Variant	Quantity	Comp unit	Level	WghtDepFee	Vol/AreaCl
1			1,000	KG	00		
	ISD		0,000			<input checked="" type="checkbox"/>	

Descr.	Quantity	Un	Lv	Remnants
	1	KG		0,00

Figure 13: Packaging Assignment Screen

## REA Packaging in MM Main Screens

The pictures below show what packaging main screens in MM look like.

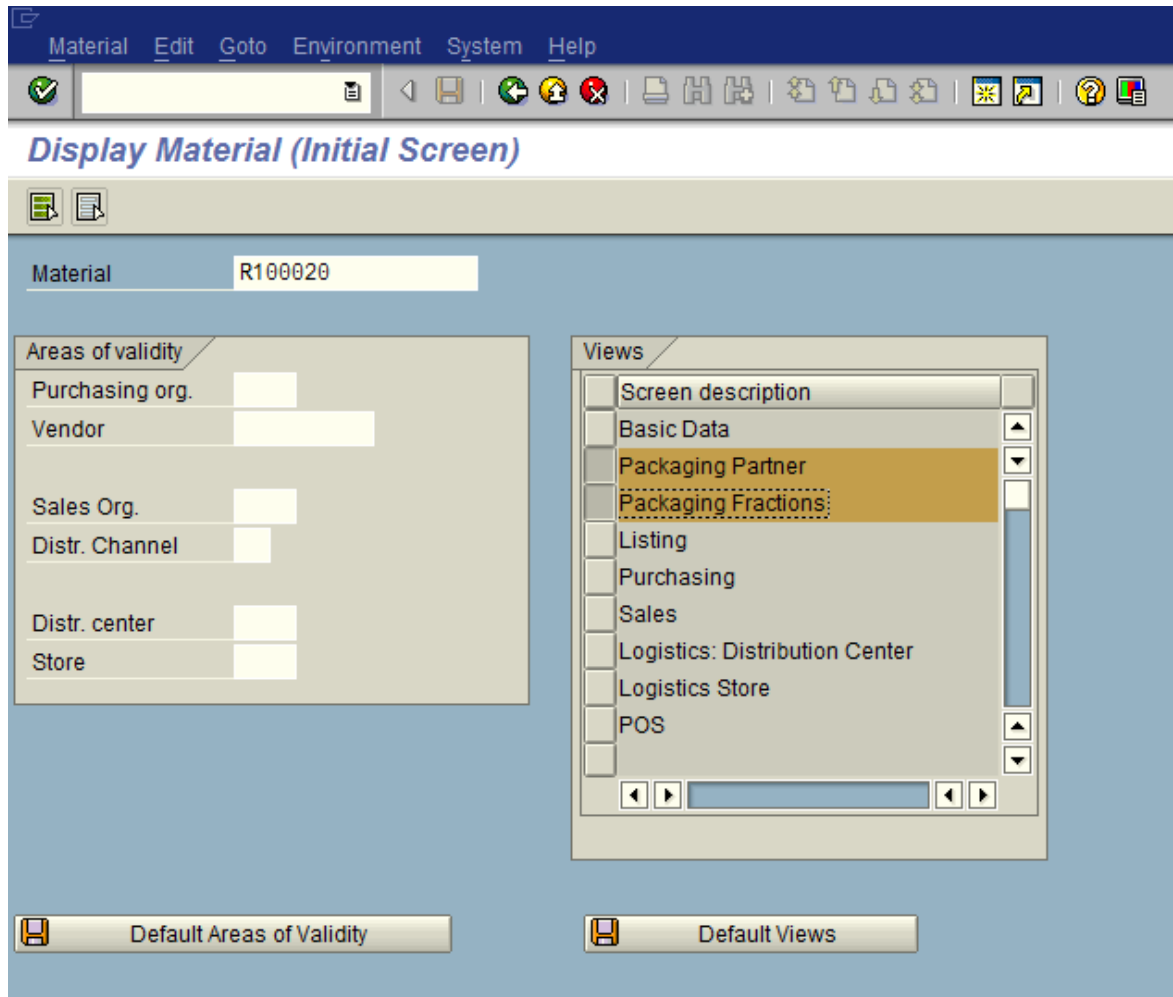


Figure 14: View Selection

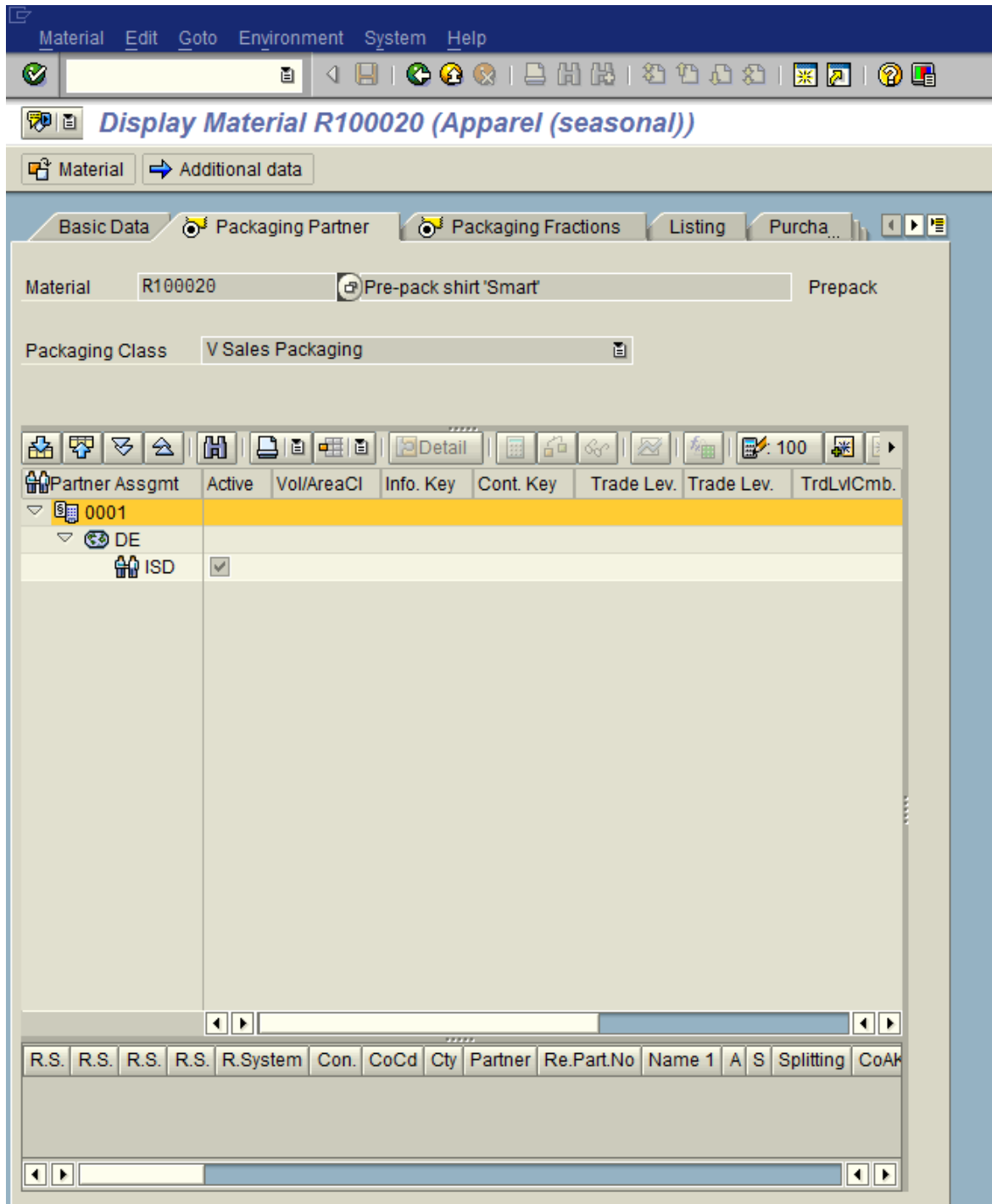


Figure 15: Partner Assignment Screen

Material: R100020, Pre-pack shirt 'Smart', Prepack

Packaging Class: V Sales Packaging

4,415862 LB

Fraction Assgmt	Text	Weight	WeightUnit	Re.Partner	Country	Category	Category	Level
000200	Pap...	2	G					
000300	Tinp...	1	G					
000500	Pla...	1	KG					
000600	Wood	1	KG					

Int.Fra...	Fraction Text	Weight	WUn
000200	Paper/Cardboard	2	G

Figure 16: Packaging Assignment Screen



## REA Packaging in MM Secondary Screens

The pictures below show what packaging secondary screens in MM look like.

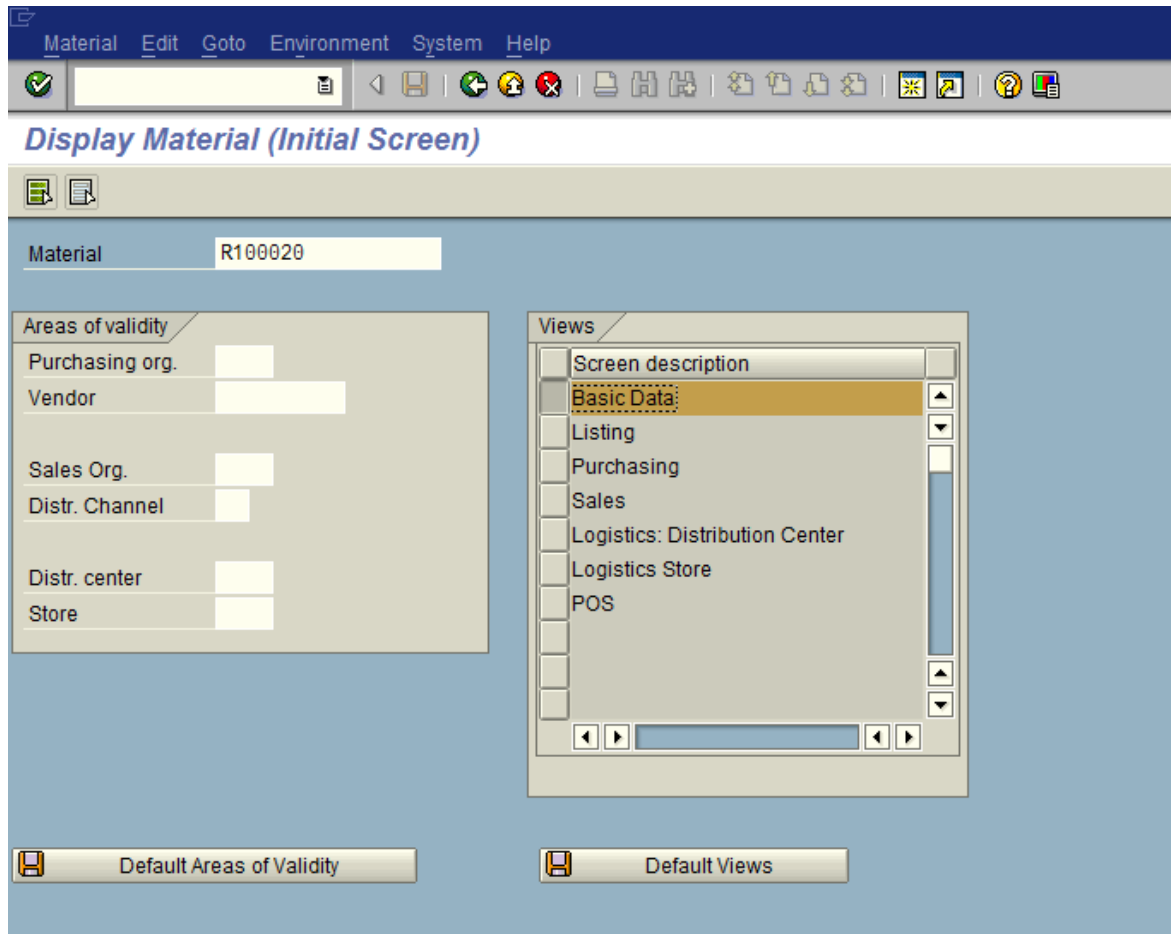


Figure 17: View Selection

Basic Data		Listing	Purchasing	Sales	Logistics: DC	Logistics Store	POS
Gross contents	0,000	Comp.price unit		0			
<b>Validity</b>							
Valid From	19.02.1998	Valid to	31.12.9999				
X-plant status	<input type="checkbox"/>	Valid from	<input type="text"/>				
X-DChain status	<input type="checkbox"/>	Valid from	<input type="text"/>				
Old matl number	<input type="text"/>						
Season	<input type="text"/>	Season Year	<input type="text"/>				
Rollout	<input type="checkbox"/>						
<b>Expiration date</b>							
Rem. Shelf Life	0	Tot. Shelf Life	0				
Period Ind.	D	Rounding rule	<input type="text"/>				
Storage %	0						
<b>Charact.</b>							
Bottle Size	<input type="text"/>						
<b>Basic data texts</b>							
Languages maintained	0	Basic data text		<input type="text"/>			
<b>Packaging</b>							
Partners				Fractions			
More Basic Data							

Figure 18: Basic Data Screen

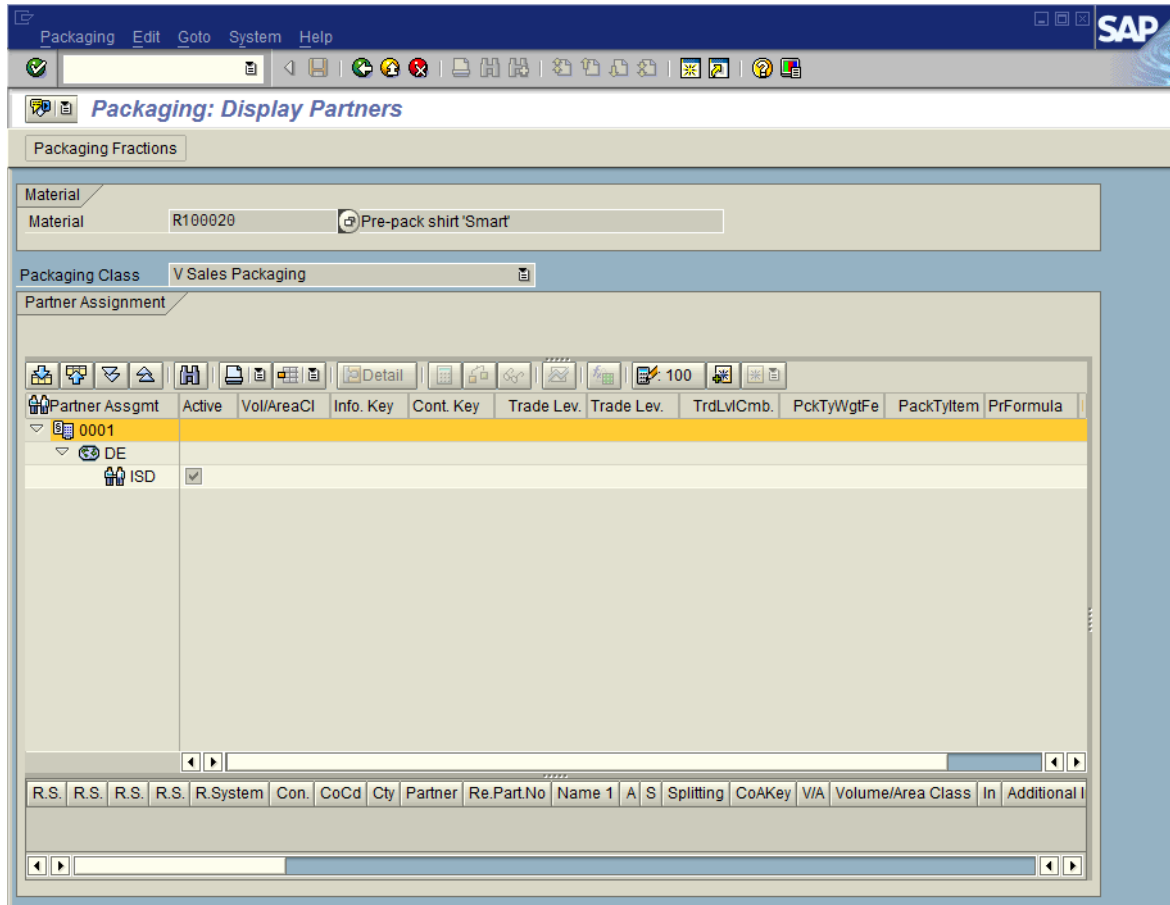
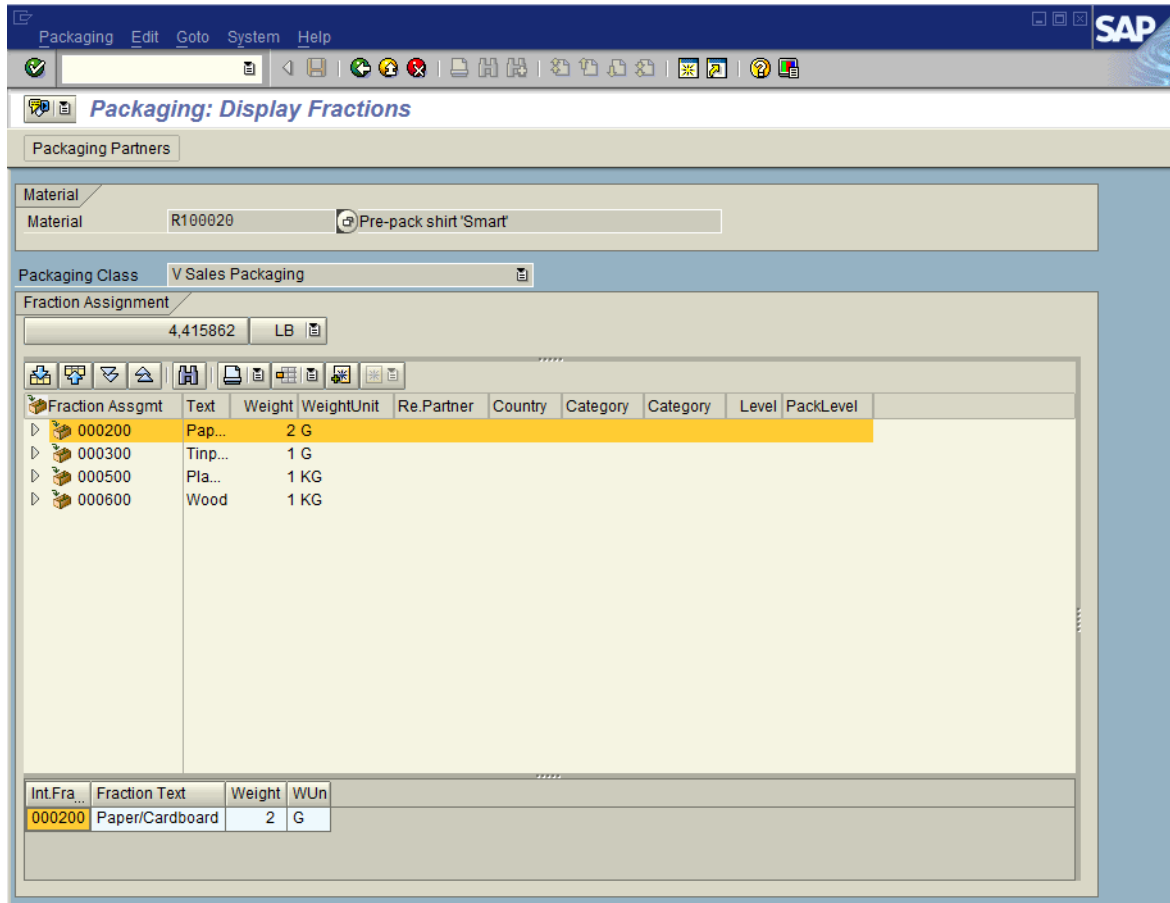


Figure 19: Partner Assignment Screen



**Figure 20: Fraction Assignment Screen**

## Limitations to REA Master Data Maintenance in MM

In MM REA only offers the views on partner and packaging for articles and on partner and fractions for packagings. All other views included in the REA specific master data transactions are not available.

REA master data in MM does not offer the use of (REA-) variants or versions for articles or packagings. Variants and versions can neither be maintained nor displayed in MM.

When using the main screens for REA MM integration, the sales unit used to define an article is always the base unit of measure. Only with the secondary screen can other sales units be used for the article. When an article is created with a 'copy from' material as template using main screens the data of the template material is taken from the same organizational level (i.e. company code, country and sales unit) the new material is defined for.

The archiving for materials has not been enhanced to include article or packaging data. Archiving and deleting a material still requires prior deletion of the article or packaging using the REA functions.

BAPIS and Idocs for the material master have also not been enhanced to include article or packaging data. No article or packaging data can be imported or exported using standard BAPIs or Idocs for materials.

REA MM integration does not allow the copying of article or packaging data from generic materials to the variants of this material. This data has to be maintained individually for each variant of a generic material. When article or packaging data of a generic material is changed, the user is informed by message that the variants are not changed.

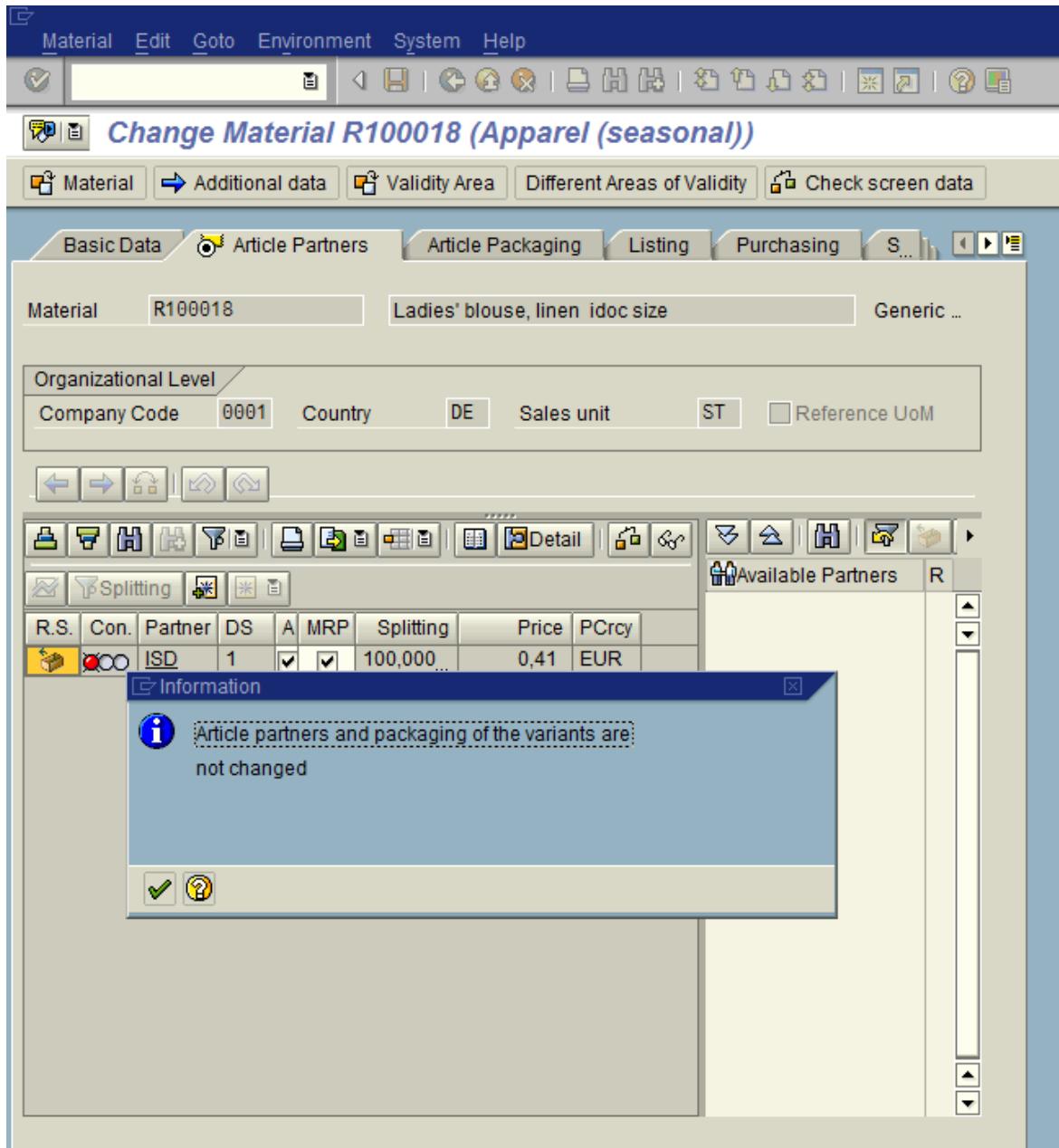


Figure 21: Update Message for Generic Materials

## Steps to make REA MM Integration Available

To make the REA MM integration functions available to users the following steps have to be taken:

### Business Function J\_7L\_REA\_AUTO\_CONFIG

REA MM integration will be delivered with enhancement package 6. In order to make it available business function J\_7L\_REA\_AUTO\_CONFIG has to be switched on via transaction SFW5.

## BADI Implementation J7L\_BADI\_MATERIAL\_OD

To utilize the functions of REA MM integration, implementation J7L\_BADI\_MATERIAL\_OD of BADI\_MATERIAL\_OD has to be activated in customizing under: SAP customizing implementation guide → logistics – general → material master → enhancements → integration of new objects (industry and retail).

### Assignment of Screen Sequences

Four new screen sequences have been created for the REA MM integration in retail systems. The screen sequences are for article maintenance in main ('RE') and secondary ('RF') screens and for packaging maintenance in main ('RG') and secondary ('RH') screens.

This screen sequences can be assigned to users under: SAP customizing implementation guide → logistics – general → material master → configuring the material master → assign screen sequences to user/material type/transaction/Industry sector (or transaction OMT3E).

### Use of REA MM Screens in other Screen Sequences

If the delivered new screen sequences do not match the customer's needs the new REA screens can also be used in customer specific screen sequences. Under: SAP customizing implementation guide → logistics – general → material master → configuring the material master → define structure of data screens for each screen sequence own screen sequences can be defined (preferably as copy of existing ones).

The following screens for use in MM are available in the new function group /J7L/REA\_MM\_RT:

- 110 Article partner main screen
- 120 Article packaging main screen
- 210 Article partner secondary screen
- 220 Article packaging secondary screen
- 230 Push button for secondary screens for articles
- 310 Packaging partner main screen
- 320 Packaging fractions main screen
- 410 Packaging partner secondary screen
- 420 Packaging fractions secondary screen
- 430 Pushbutton for secondary screens for packagings

Under: SAP customizing implementation guide → logistics – general → material master → configuring the material master → here's how (quick guide using an example) an explanation is given on how to integrate the new screens into screen sequences ( the main program for function group /J7L/REA\_MM\_RT is /J7L/SAPLREA\_MM\_RT).

When main screen for partners (screens 110 and 120) are to be used in customer specific screen sequences, new entries (via transaction SM30) for functions codes '/J7L/ORGLEVEL\_R1' and '/J7L/ORGLEVEL\_R1' are required in views 'V\_T133D' and 'V\_T133E'.

### Use of Packaging and Article Screens in one Screen Sequence

#### New Screen Sequence

If you want to use a screen sequence that includes both the screens for articles and for packagings, you will have to create a new screen sequence of your own. To do so, you should copy one of the existing screen sequences for articles or packagings, add the data screens for the respective other entity and copy the data for the subscreens of these new data screens from the existing screen sequence for that entity. (SAP customizing implementation guide → logistics – general → material master → configuring the material master → define structure of data screens for each screen sequence or transaction OMT3)

SSq	Scrn	Screen description	T	SC	Maint. status	GUI status	TT	Ret.maint.status	Alt. screen descrip.
ZZ	⊕	Additional	2	4300	ABCDEFGLPQSVXZ	ADD2001	1	0	Additional
ZZ	97	Requirement Groups	2	4300	ABCDEFGLPQSVXZ	ADD2001	1	0	Requirement Groups
ZZ	98	QM Inspection Data: Store	2	0001	Q		3		QM Insp. Data: Store
ZZ	99	QM Inspection Data: Distr. Ctr	2	0001	Q		3		QM Insp. Data: DC
ZZ	KL	Costing (Current)	2	0001	EDVALBQPSZXFG		3		Costing (Current)
ZZ	KV	Costing (Past)	2	0001	EDVALBQPSZXFG		3		Costing (Past)
ZZ	KZ	Costing (Future)	2	0001	EDVALBQPSZXFG		3		Costing (Future)
ZZ	P1	Work Scheduling: DC	2	3000	A	ADD2002	3	5	Work Scheduling: DC
ZZ	P2	Product Costing: DC	2	3000	G	ADD2002	3	5	Product Costing: DC
ZZ	R1	Article Partners	1	4040	K	DATE00	2	0	Article Partners
ZZ	R2	Article Packaging	1	4040	K	DATE00	2	0	Article Packaging
ZZ	R5	Packaging Partner	1	4040	K	DATE00	2	0	Packaging Partner
ZZ	R6	Packaging Fractions	1	4040	K	DATE00	2	0	Packaging Fractions

Figure 22: Data Screens for Articles and Packagings

SSq	Scrn	Ss	Program	Scr.
ZZ	⊕	1	SAPLMGD2	1010
ZZ	R5	2	/J7L/SA...	0310

View...

View data screen

View subscreen

Move subscreen

⬆ ⬇ ⬆ ⬇

Figure 23: Subscreens for Data Screens

Finally you should set the data screens in the desired order under (SAP customizing implementation guide → logistics – general → material master → configuring the material master → maintain order of main and additional screens).

Sc...	Screen description	No.
04	Basic Data	10
R5	Packaging Partner	20
R6	Packaging Fractions	30
R1	Article Partners	40
R2	Article Packaging	50
05	Listing	60
06	Purchasing	70
07	Sales	80
08	Logistics: Distribution Center	90
09	Logistics Store	100
10	POS	110

**Figure 24: Sequence of New Screens**

If the new screen sequence is assigned to a user as described in paragraph **Error! Reference source not found.**, both article and packaging data can be accessed in the same transaction.



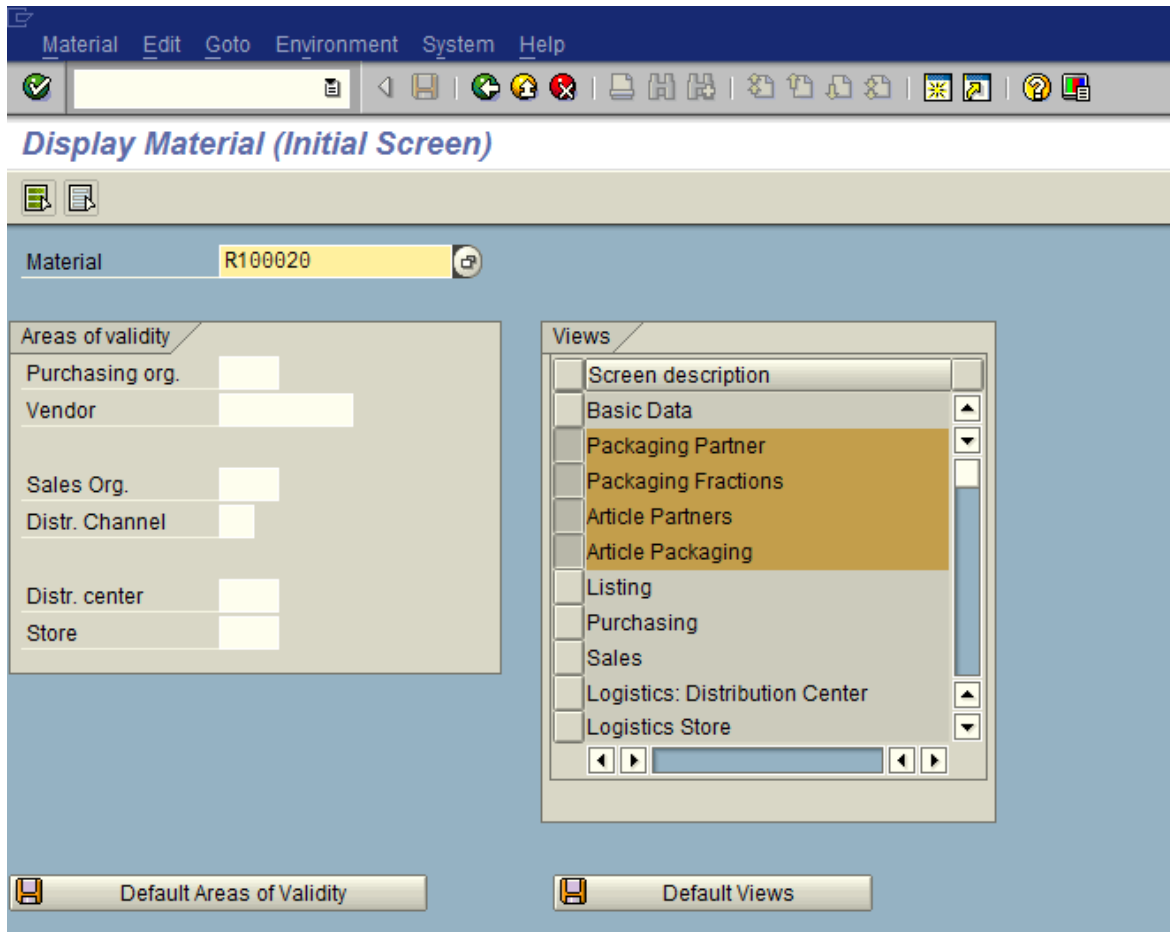


Figure 25: View Selection

The screenshot displays the SAP Material R100020 (Apparel (seasonal)) in the 'Display' view. The main area shows the 'Packaging Partner' tab selected, with the following details:

- Material: R100020
- Pre-pack shirt 'Smart'
- Prepack
- Packaging Class: V Sales Packaging
- Weight: 4,415862
- Unit of Measure: LB

Below this information is a table of 'Fraction Assgmt' (Packaging Fractions) with the following data:

Fraction Assgmt	Text	Weight	WeightUnit	Re.Partner	Country	Category	Category	Level
000200	Pap...	2	G					
000300	Tinp...	1	G					
000500	Pla...	1	KG					
000600	Wood	1	KG					

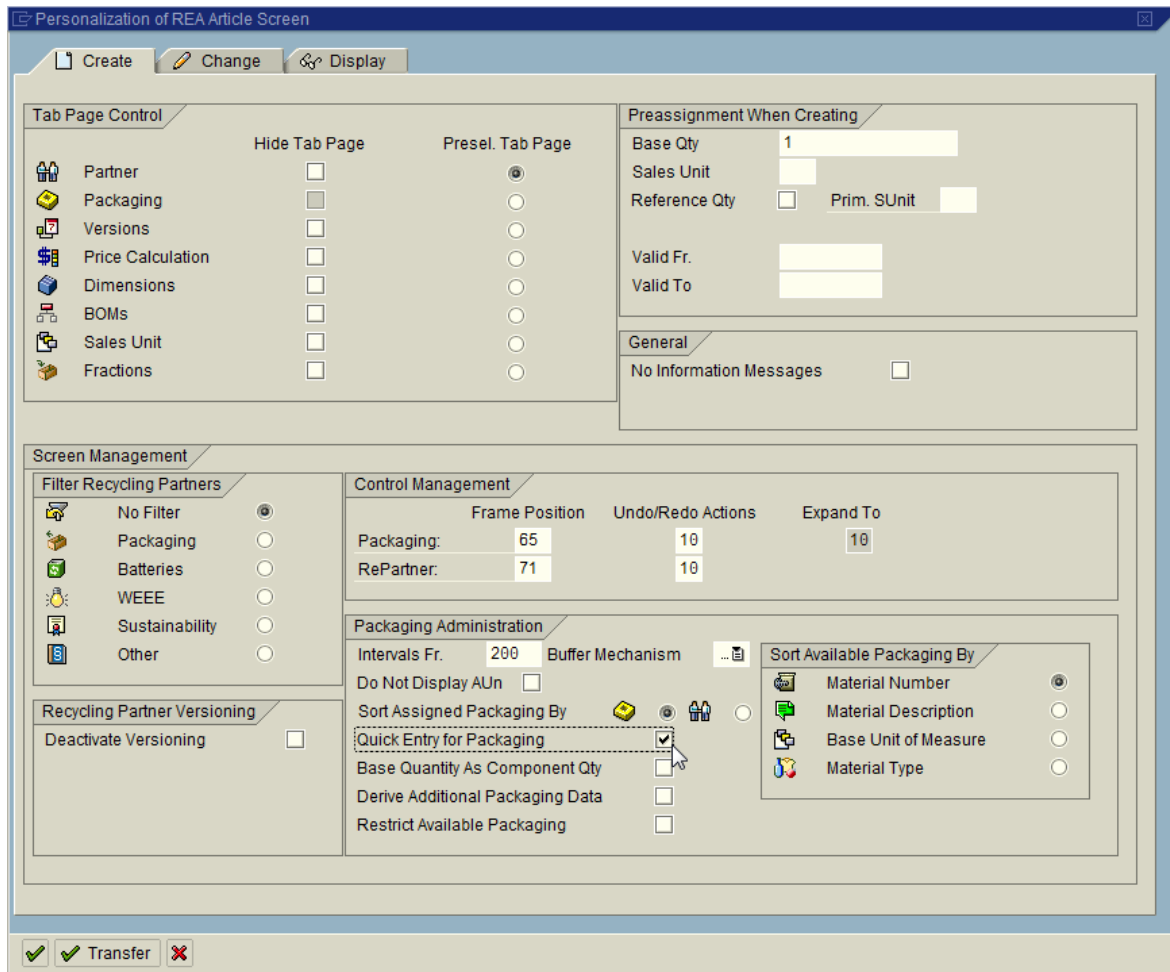
At the bottom of the screen, a summary table provides details for the selected fraction (000200):

IntFrc	Fraction Text	Weight	WUn
0002...	Paper/Cardboard	2	G

Figure 26: Views for Packaging and Article

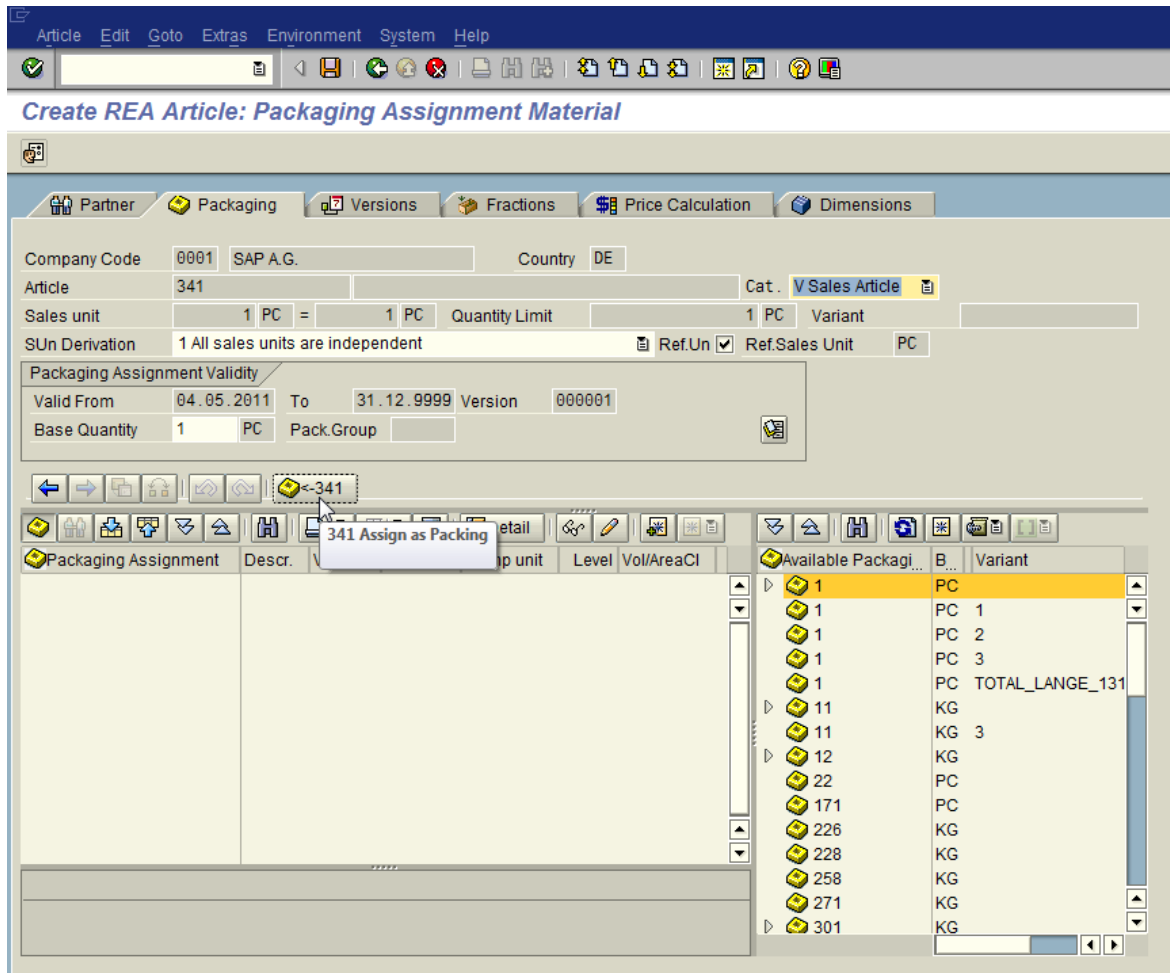
## Use of Option 'Quick Entry for Packaging'

In 'personalization' for the creation of an article you can select the option 'quick entry for packaging'.



**Figure 27: Personalization**

If that option is tagged and you create an article (TA: J7L1) for using a material for which a packaging has already been created, you will see a button that allows you to assign the packaging to the article with a single click.



**Figure 28: Quick Entry for Packaging**

However, this button is not available when you create the article using material master transaction.

Implementing a similar function into the material master transactions is possible, but requires a considerable effort. These are the steps necessary to achieve this goal for a screen sequence using primary screens:

- Do not activate the delivered BAdI Implementation as described in paragraph **Error! Reference source not found.** or deactivate it if already done
- Copy the function group /J7L/REA\_MM to your own function group in the customer name space
- In your copy of function '/J7L/REA\_MM\_SET\_PROGRAM' set the correct program according to your new function group.
- In your copies of the other functions replace the calls to functions of function group /J7L/REA\_MM with calls to the corresponding functions of the new function group.
- In your copy of function '/J7L/REA\_MM\_PREPARE\_POST\_DATA' modify tables gt\_m04\_new and gt\_m09\_new to include the assignment of the newly created packaging to the likewise newly created article.
- Create your own implementation for BADI BADI\_MATERIAL\_OD and copy the methods from implementation J7L\_BADI\_MATERIAL\_OD. Replace the function calls with calls for the corresponding functions from your new function group.
- Activate your own BAdI implementation

- Create a new screen sequence for both articles and packagings as described in paragraph 0 and exchange the program stated in the definition of subscreens with the program name of your new function group.
- Assign the new screen sequence to your user(s).

## Enhancements to REA MM Integration

The new enhancement spot J\_7L\_ES\_REA\_MM has been created with BAdI definition /OSJ7L/ES\_REA\_MM and interface /J7L/IF\_REA\_MM\_INT.

This new BAdI has two methods, one for setting default values for the article maintenance and one for setting default values for the packaging maintenance. The methods are called when an (REA-) article or packaging are created via MM and allows to default values like valid-from and valid-to dates.

The BAdI can be implemented under: SAP customizing implementation guide → sales and distribution → billing → recycling administration → adjustment → business add-Ins (BAdIs) → BAdI: Default values for master data (material master)

## Related Content

- [1] [Cookbook REA MM integration for industry systems](#)
- [2] [Cookbook\\_Rpartner](#)

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