

DSF Segmenter in BW

Functional informations

The DSF (Purchasing classification) is done in 3 levels : Domain / Segment / Family

There are 7 Domains :

1. General Expenses
- 2 Packaging
- 3 Energy
- 4 Industrial Supplies
- 6 Raw Materials
- 7 Industrial Services
- 8 Logistic

The domains are divided into 113 Segments. Each segment is managed by segment Managers, who can ask for the creation / modification / deletion of suppliers in RCS, on this segment.

The 113 segments are divided into more than 300 Families.

These families are complemented with all the bought RCS materials (Raw Materials in a given packaging).

You can find this breakdown in the +DSF Segmenteur+ (Information Management E-room), for a given zone, each segment is managed by a Buyer called « segment Manager ».

Target of this structure :

- The DSF is found in all the Purchasing Tools (RCS, GSV, BOXI, PEACH and COCKPIT...):

Correct DSF have to be selected upstream to get correct reporting queries.

- Useful for buyers to manage their supplier portfolios

Along with the **SMP** (Supplier Management Program) :

? The segment of the supplier is always requested at supplier creation step through the supplier creation form - The "classification" is mandatory for any supplier in RCS

? The supplier must be classified at least in one of the 113 segments, as Partner, Key or Spot

? The requester of a new supplier is the Buyer/Segment Manager or the request must be (mandatory) validated by the Segment Manager

Spend assignment rules :

The spend assignment rules in GSV allows assignment of spend by Domain and by Segment according to RCS documents (no data mining).

The Spend assignment rules are based on the data 'material group' (matching with Family in DSF) contained in all purchase order (PO).

SMP segmentation in RCS enhances reliability of spend assignment in GSV.

Type of Spend	Type of RCS document	Spend Assignment rules
Spend with Purchase Order	All materials or services orders	The spend is assigned by segment and by domain according to the 'material group' of the purchase order (mat. group = family code in DSF segmenteur)
Raw Materials orders	The spend is assigned by segment and by domain according to the segment of the raw material or according to the 'material code' (if the segment is not assigned in raw material code) of the purchase order (for RM material code = family code in DSF segmenteur)	
Ad-hoc (BIP) orders		

The spend is assigned by segment and by domain according to the material group code of the PO whether this one is validated against the SMP of the supplier.

Otherwise, the spend is assigned by segment and by domain according to the SMP and PKS of the supplier

Spend with Purchase Order	Accounting document
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When an invoice is identified as subsequent debit/credit invoice, the segment of the supplier is assigned according to the PKS status.

Spend without Purchase Order	Accounting document	The spend is assigned by segment and by domain according to both SMP and PKS status
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The Spend Assignment rules details is attached, coming from Purchasing Eroom

Supplier Management Program in BW

Everyday, the SMP is loaded in BW into **ODS_PANT**

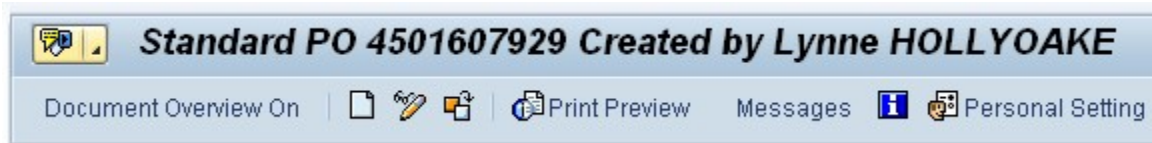
Supplier classification: Panel + KPS Temp.	ODS_PANT
ODS_PANT IFS_PANEL_FOURNISSEUR_ATTR	434CSE6IYKCBVBLBNLWV03QCN
IFS_PANEL_SUPPLIER_ATTR	IFS_PANEL_FOURNISSEUR_ATTR
from DTS_PANEL_FOURNISSEU for WP1 Client 400	DTS_PANEL_FOURNISSEUR_ATTR WP1_400
DTS_PANEL_FOURNISSEUR_ATTR	DTS_PANEL_FOURNISSEUR_ATTR

In RCS, you can also display the SMP with transaction **CL20N** or you can see the result of the extraction with * SA3*

How to display the Material group of a Purchase order item

The Material group is the main information to determine the DSF.

You can display the Material group of a Purchase order item using transaction **ME23N** entering the * urchase order number*:

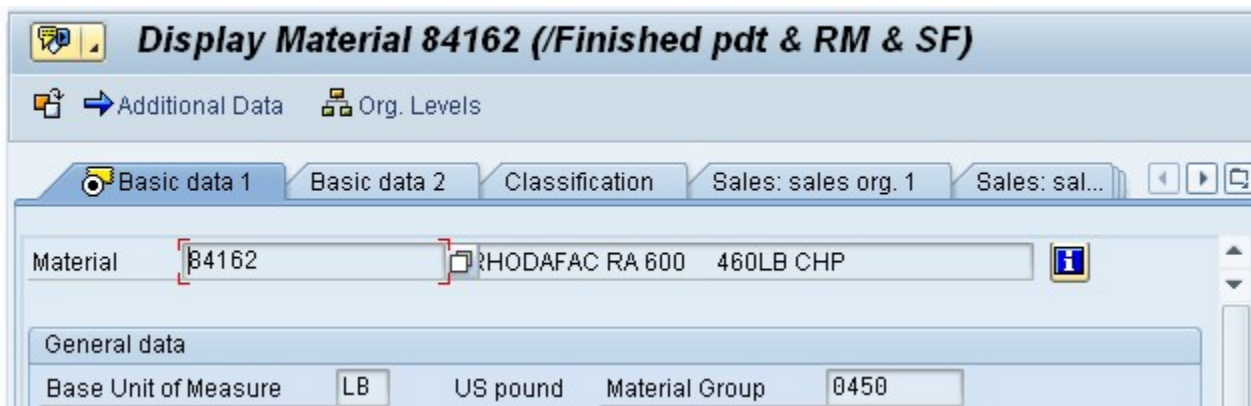


In the **Item part** you pick the Item and in the **tab Material Data** you can see the Material group.



How to display the Material group of a Material

1. Material can also have a Material group.
To display the Material group of a material, you can use **MM03** transaction and the tab * asic data 1*.



Theoretical link Material group - Segment - Domain in BW

There's no way to display the Segment or the Domain of a Material group, **it's strictly a BW notion !**

The "theoretical" link between material group, segment and domain is given by the Purchasing function and loaded by flat file into **OMATL_GROUP** master data and * DS_DCF*

Category, panel and pole of family	ODS_DCF
ODS_DCF IFS_DCF	3ZHYHZJ2MRL68MPOD2D03TU07
<No Text Available in this Language>	IFS_DCF
from IFS_DCF for PC Files	IFS_DCF PC_FILE

Here is example of data in ODS_DCF

DCF / Material group	DCF / Domain	Panel
0276	7	P050
0277	7	P056
0278	7	P056
0279	7	P110
0280	7	P069
0281	7	P069
0283	7	P056
0298	1	P061
0299	1	P061
0300	1	P061
0301	1	P061
0303	1	P061
0303B	1	P061
0304	1	P046
0307	1	P090
0308	1	P090
0308B	1	P090
0310	2	P066
0311	2	P066
0312	2	P066
0313	3	P064
0314	3	P064
0315	4	P026
0316	4	P026
0317	1	P088

DSF in BW

The DSF is calculated in two applications in BW, in Purchasing application when we have a purchase order and also in Account Payables when we have an accounting document.

The DSF (Purchasing classification) is also done in 3 levels :

Domain C_DOMAIN info object
Segment C_PANEL info object
Family 0MATL_GROUP info object

For Raw Material purchase orders, the family will have same value that the material.

DSF in module function 'Z_WBW_SUPPLIER_PANEL'

In BW, we have a module function called '**Z_WBW_SUPPLIER_PANEL**' which gives for a company and a supplier a Segment.

This function will find the corresponding segment in **ODS_PANT** (Cf 'Supplier Management Program in BW' chapter)

Here are the steps of the function

1. With the **company** ode, we get the **zone** f the company from **0COMP_CODE** aster data
2. With the **supplier** we get the **country** rom **C_VENDOR** aster data
3. The country of the supplier will give the **zone of the supplier** 1. Concatenation of 'V001_', zone of the company and we search in **ODS_PANT** he concatenated field, the supplier for **PKS = 'A'** artner
4. If record **found, we keep panel** 1. Else we make same research but with **PKS = 'B'** ey
5. If record **found, we keep panel** 1. Else we make same research but with **PKS = 'C'** pot
6. If record **found, we keep panel** 1. Else we make same research but the **zone of the supplier** ith the 3 steps for each PKS

DSF in Master data

The DSF is calculated in 3 BW master data **0MATL_GROUP** SF/ Material group, **C_MATNR** aterial and **C_ITPO** Purchase Order Item.

- **0MATL_GROUP** DSF/ Material group
Cf 'Theoretical link Material group - Segment - Domain in BW' chapter
- **C_MATNR** Material
In the Material master data, we have a material group (Cf 'How to display the Material group of a Material' chapter) and the **extractor 0MATERIAL_ATTR** oads a Segment into the master data. This extractor will find values in the **same tables used by the SMP * C_ITPO** Purchase Order Item
In this master, we load the 3 levels of the DSF

▼ Purchase Order Item	C_ITPO
▼ Purchase Order Item (Attribute)	ATTRIBUTES C_ITPO
▶ Transformation: C_ITPO -> C_ITPO	0Q51NEY2RL1W4W11QUG9WS7L990JR0W
▶ Transformation: DTS_MM_PUORITEM -> C_ITPO	07W3801ZMKFHIT2ZDOQW607SJ5VYCV41
▶ Data Transfer Processes	ATTRIBUTES C_ITPO

- Family: 0MATL_GROUP is coming from the extractor in the field **MATKL**

NB: We also use table ZWPUT042 for Purchase order without material group, more details below. A word document is attached in the page to control data quality in C_ITPO.

- Segment: C_PANEL
First we load a temporary value using field **MATKL** field of the extractor using * MATL_GROUP*master data.
Then we have different cases:
1. Purchase order with material:
 -Material group 0450 SEMI FIN.&FINISH PDT or 0451 RAW MATERIALS
 -Material has a Segment filled (C_MATNR master data) => **Segment of the material**
 -Material without panel => the material group is the material => **Segment of the material group** r if empty use function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP)
 -Other material group => **Segment of the material group** 1. __Purchase order without material and System need origin = 1 (Catalog PO via BIP)
 +=> **Segment of the material group** 1. +Purchase order without material and Item Category h1.9 (Service) and Account Assignment Category = U (Unknown) and Purchasing Org 3008 or 3016 or 3024 or 3032 (Transport Logistic for EU, NA, LA, AP)
 __=> **Segment of the material group** r if empty use function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP)
 2. __Other cases:
 __=> **Segment of the material group** r if empty use function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP)
 3. __System need origin = 2 (Adhoc PO via BIP) and Company and supplier are not empty:
 __We change the first letter of the segment of the material group and replace it by the first letter of the zone (for Europe we keep same segment).
 Then we use a temporary variable 'V001_' and the zone of the company and we search in ODS_PANT for supplier, modified segment and temp variable if we find records.
 If records found in ODS_PANT=>* Segment of the material group*__
 If no records found in ODS_PANT__ => function '**Z_WBW_SUPPLIER_PANEL**' =Segment in SMP)
 +
 If Segment calculated is empty* => Segment of the material group*
 For all cases above, if the first letter of the segment is not 'P', we replace this character by 'P'.

- Domain: C_DOMAIN
We calculate the Domain using field MATKL field of the extractor and 0MATL_GROUP master data.

DSF for a Purchase Order (Purchasing application)

The DSF is calculated in ODS_SCL1 Purchasing Schedules

In a Purchase order item, we have a material group. From this material group, we will have the domain and the segment.

- Purchase order without Material group in RCS

When a Purchase order doesn't have a material group in RCS, we can have one in BW ODS_SCL0 !
It can be the case for Purchase order with shipment.

To find a material group we use the RCS **ZWPUT042**

This table gives for a *Shipment cost type_a* *Shipping type* and a *Transportation Group_a* *Material group*

Table: ZWPUT042
Displayed Fields: 5 of 5 Fixed Columns: [4] List Width 0250

	Client	Ship. cost type	Shipping type	Trans. Group	DCF code
<input type="checkbox"/>	400	9001	01	0001	00433
<input type="checkbox"/>	400	9001	01	0002	00433
<input type="checkbox"/>	400	9001	01	0003	00441
<input type="checkbox"/>	400	9001	01	0004	00443
<input type="checkbox"/>	400	9001	01	0005	00443
<input type="checkbox"/>	400	9001	01	0006	00441
<input type="checkbox"/>	400	9001	01	0007	00449

Ex: Ship cost type **9001** Road direct & Shipping type * 1* Truck & Transportation Group * 001* Packed => Material group * 433*PCK FTL: ROAD EXP SO

- ODS_SCL1 Purchasing Schedules

▼ Purchasing Schedules	ODS_SCL1
▼ Transf. ODS_SCL0 -> ODS_SCL1	0M58KQ9C9G03JOSL73F7GFJETXFFJ28R
▶ Purchasing schedule	ODS_SCL0
▶ ODS_SCL1 80DS_SCL0	3Z4LHIEIHDTW2WJEHPTKQJYNB
▶ ODS_SCL1 80DS_SCL1	47LMHP51H6CFQ373MJXZAYZVR
▶ Data Transfer Processes	ODS_SCL1

- Family: 0MATL_GROUP is coming from ODS_SCL0

If Material group h1.'0009' => Material group'0301'
 If Material group h1.'0013' => Material group'0011'
 If Material group h1.'0014' => Material group'0010'
 If Material group h1.'0042' => Material group'0308'
 If Material group h1.'0306' => Material group'0308'
 If Material group h1.'0032' => Material group'0021'
 If Material group h1.'0379' => Material group'0380'
 If Material group h1.'0389' => Material group'0483'
 If Material group h1.'0484' => Material group'0483'
 If Material group h1.'0302' => Material group'0498'
 If Material group h1.'0034' => Material group'0021'
 If Material group h1.'0036' => Material group'0497'
 If Material group h1.'0305' => Material group'0496'
 If Material group h1.'0044' => Material group'0500'
 If Material group h1.'0254' => Material group'0501'
 If Material group h1.'0309' => Material group'0499'
 If Material group h1.'0026' => Material group'0494'
 If Material group h1.'0268' => Material group'0451'
 If Material group h1.'0219' => Material group'0079'
 If Material group h1.'0450' or '0451' and Material type = 'ZMAT' => Material group material code

- Segment: C_PANEL is loaded from C_ITPO master data
- Domain: C_DOMAIN is loaded from C_ITPO master data
- CUB_PUR01 Purchasing Data

Same values as in ODS_SCL1

DSF for an Invoice (Account Payables application)

The DSF is calculated in the **ODSFIAP4** FIAP : Line item by profit center

FIAP : Line item by profit center	ODSFIAP4
ODSO ODSFIAP4 -> ODSO ODSFIAP4 (Full)	0PPXN01BSGNE8EP6FNCWCZYCK4ZA3V...
Transformation: ODSFIAP1 -> ODSFIAP4	0FAOM7M2CTN8G3L9QE0F9F0R8HVNK7RS
FIAP: Line Item	ODSFIAP1

The Domain doesn't exist in ODSFIAP4

- ODSFIAP4 FIAP : Line item by profit center
- Family: 0MATL_GROUP

1. __Invoice without Purchase order:

++Supplier is not empty:___ => **Material group from ODS_PANT for the supplier** (=Segment in SMP)

-Supplier is empty and Material is not empty: => **Material group of the material 1.** __Invoice with Purchase order:

If records found in ODS_SCL1 for Doc number, item and company => **Material group of ODS_SCL1**

If calculated Family is empty => **Material group from ODS_PANT for the supplier** (=Segment in SMP)

- Segment: C_PANEL

1. __Invoice without Purchase order:

__=> function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP)

2. Invoice with Purchase order:

If records found in ODS_HPO2 for Doc number, item, company, Reference doc number and PO history category h1.N => function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP) and if function gives empty segment,> **Material group of ODS_SCL1**

If calculated Segment is empty => function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP)

If the first letter of the segment is not 'P', we replace this character by 'P'.

- In case of reloading of ODSFIAP4 from Itself

- Family: 0MATL_GROUP

1. __Invoice without Purchase order:

++Supplier is not empty:___ => **Material group from ODS_PANT for the supplier**

-Supplier is empty and Material is not empty: => **aterial group of the material**

2. __Invoice with Purchase order:

If records found in ODS_SCL1 for Doc number, item and company => **Material group of ODS_SCL1__**

If calculated Family is empty => **Material group from ODS_PANT for the supplier** (=Segment in SMP)

- Segment: C_PANEL

1. __Invoice without Purchase order:

__=> function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP)

2. Invoice with Purchase order:

If records found in ODS_HPO2 for Doc number, item, company, Reference doc number and PO history category h1.N => function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP) and if function gives empty segment,> **Material group of ODS_SCL1**

If calculated Segment is empty => function '**Z_WBW_SUPPLIER_PANEL**' (=Segment in SMP)

If the first letter of the segment is not 'P', we replace this character by 'P'.

- CUB_FIAP1 FIAP : Line item

- Family: 0MATL_GROUP: Same as ODSFIAP4

- Segment: C_PANEL: Same as ODSFIAP4

- Domain: C_DOMAIN: We search in **ODS_DCF** he domain for the Segment of ODSFIAP4