

# BW RTR - Asset Optimization (pVelocity)

- General presentation
  - Objective of the application
  - Usage information
  - History
- Roles & Access
- Dataflow overview
- Functional and Technical rules on Workbench + Reporting
  - Rules & Explanations
  - Dependencies with other applications
- Data loadings
  - Info providers and objects loaded
  - Files generated
  - Loading frequency
- Reporting
  - Planned Evolution
- Maintenance

## General presentation

### Objective of the application

This application is not really a BW application, but a collection of DSO to provide data to an external tool named pVelocity.

pVelocity is a tool which helps the Novecare GBU to optimize their Assets.

In BW, we extract the data from RCS and then generate flat files on a WBP folder and it is the pVelocity tool which is transferring the file from BW to pVelo.

IT Leader is now Nathalie Manirakiza in the IS-RtR team

The Tool Leader is in the Novecare GBU.

Old link to google doc about pVelocity :

<https://drive.google.com/drive/folders/1OUYHvBX3YNYTALY1QXgslrtjfZBEyX40>

### Usage information

There is around 50 users on pVelocity tool WW, all working in the Novecare GBU.

They are Asset Manager, Industrial manager and also financial controllers.

### History

This project was launched using BW as Hub because the pVelocity team was not allowed to extract data directly from RCS (WP1).

It was a kind of shadow project.

## Roles & Access

There is no direct usage of the BW infoproviders, so no roles nor authorizations.

## Dataflow overview

The data flow is very simple because in the main cases, it re-uses existing DSO which are already loaded for other applications.

Then an abap program generates the files in a text format.

The naming rule for the files is a prefix representing the content of the file, then "-" and then a timestamp, which is the dateTime (YYYYMMDDHHMMSS)

| File name | File description | BW Source | Type of data |
|-----------|------------------|-----------|--------------|
|-----------|------------------|-----------|--------------|

|           |                                      |             |                     |
|-----------|--------------------------------------|-------------|---------------------|
| CD        | Distribution Channel                 | 0DISTR_CHAN | Text                |
| CDSA      | CD x SA                              | C_CDSA      | Master Data         |
| COAREA    | Controlling Area                     | 0CO_AREA    | Text                |
| COMP      | Companies                            | 0COMP_CODE  | Master data & Text  |
| CURR      | Exchange rate                        | TCURR table | Transactionnal      |
| IECRA     | IECRA                                | 0G_CWWE01   | Master Data         |
| MARM      | Material Alternative unit of measure | ODS_MARM    | Master Data         |
| MATNR     | Material                             | C_MATNR     | Master data & text  |
|           |                                      | C_MATPLNT   |                     |
| PBOM      | Standard production cost             | ODS_PCP1    | Transactionnal      |
| PLANT     | Plant                                | 0PLANT      | Master Data & Text  |
| PROD      | Produced quantity                    | ODS_PP01    | Transactionnal      |
| PROFITCTR | Profit Center                        | 0PROFIT_CTR | Master Data & Text  |
| RAWP      | Raw material costs                   | ODS_PCP3    | Transactionnal      |
| RESOURCE  | Resources Unit price                 | ODS_PCP8    | Transactionnal      |
| RSAL      | Resales of the month                 | ODS_PA06    | Transactionnal      |
| SA        | Division                             | 0DIVISION   | Text                |
| SHIP      | Sales of the month                   | ODS_PA06    | Transactionnal      |
| STDCOST   | Standard cost by cost Elements       | ODS_PCP7    | Transactionnal      |
| TRANSFER  | Transfer movement between plants     | ODS_IC01    | Transactionnal      |
| TVAPT     | Sales documents item category        | 0ITEM_CATEG | Text                |
| TVFKT     | Sales billing type                   | 0BILL_TYPE  | Text                |
| UOM       | Unit of Mesure                       | T006 table  | Master Data         |
| VALSTR    | Value Stream                         | C_VALSTR    | Master Data & Text  |
| VC        | Standard Variable costs              | ODS_PCP3    | Transactionnal      |
| ZSECT     | Global Business Unit                 | C_ZSECT     | Master Data & text  |
| MMSTA     | Material Status                      | C_MATPLNT   | Master Data & Text. |

## Functional and Technical rules on Workbench + Reporting

### Rules & Explanations

#### Text Files:

The text files are using the text of the info object and the target is to provide the description of some master data to pVelocity.

The structure of them is the following one:

**CD:** This file is given the short descriptions of the Distribution Channel

| Interface File Field | Source table         | Field / Data element  | Type | Length | Description          |
|----------------------|----------------------|-----------------------|------|--------|----------------------|
| DISTR_CHAN           | /B10<br>/TDISTR_CHAN | /B10<br>/OIDISTR_CHAN | CHAR | 2      | Distribution Channel |
| TXTSH                | /B10<br>/TDISTR_CHAN | RSTXTSH               | CHAR | 20     | Short Description    |

**COAREA:** This file is given the medium descriptions of the Controlling Area

| Interface File Field | Source table  | Field / Data element | Type | Length | Description        |
|----------------------|---------------|----------------------|------|--------|--------------------|
| CO_AREA              | /B10/TCO_AREA | /B10/OICO_AREA       | CHAR | 4      | Controlling area   |
| TXTMD                | /B10/TCO_AREA | RSTXTMD              | CHAR | 40     | Medium Description |

**SA:** This file is given the short descriptions of the Division

| Interface File Field | Source table    | Field / Data element | Type | Length | Description          |
|----------------------|-----------------|----------------------|------|--------|----------------------|
| DISTR_CHAN           | /BIO /TDIVISION | /BIO /OIDIVISION     | CHAR | 2      | Distribution Channel |
| TXTSH                | /BIO /TDIVISION | RSTXTSH              | CHAR | 20     | Short Description    |

**TVAPT:** This file is given the short descriptions of the Sales document item category

Only English language (=EN) is extracted

| Interface File Field | Source table     | Field / Data element | Type | Length | Description                  |
|----------------------|------------------|----------------------|------|--------|------------------------------|
| LANGU                | /BIO/TITEM_CATEG | LANGU                | LANG | 1      | Language key                 |
| ITEM_CATEG           | /BIO/TITEM_CATEG | /BIO/OITEM_CATEG     | CHAR | 4      | Sales document item category |
| TXTSH                | /BIO/TITEM_CATEG | RSTXTSH              | CHAR | 20     | Short Description            |

**TVFKT:** This file is given the short descriptions of the Billing type

Only English language (=EN) is extracted

| Interface File Field | Source table    | Field / Data element | Type | Length | Description       |
|----------------------|-----------------|----------------------|------|--------|-------------------|
| LANGU                | /BIO/TBILL_TYPE | LANGU                | LANG | 1      | Language key      |
| BILL_TYPE            | /BIO/TBILL_TYPE | /BIO/OIBILL_TYPE     | CHAR | 4      | Billing type      |
| TXTSH                | /BIO/TBILL_TYPE | RSTXTSH              | CHAR | 20     | Short Description |

Master Data files:

**CDSA:** This file will provide the attributes and text of the CDxSA master data. This master data is used as the less level of the organizational sales structure.

Selected description is in English (/BIC/TC\_CDSA LANGU = "E").

If English description is not available, then French description is to be selected (/BIC/TC\_CDSA LANGU = "F").

| Interface File Field | Source table | Field / Data element | Type | Length | Description              |
|----------------------|--------------|----------------------|------|--------|--------------------------|
| DIVISION             | /BIC/PC_CDSA | /BIO/OIDIVISION      | CHAR | 2      | Division                 |
| C_CDSA               | /BIC/PC_CDSA | /BIC/C_CDSA          | CHAR | 2      | Distribution Channel     |
|                      |              | /BIC/OIC_CDSA        |      |        |                          |
| G_CWWE01             | /BIC/PC_CDSA | BIO/OIG_CWWE01       | CHAR | 10     | IECRA                    |
| C_PFCTR1             | /BIC/PC_CDSA | /BIC/C_PFCTR1        | CHAR | 20     | 1 - Global Business Unit |
|                      |              | /BIC/OIC_PFCTR1      |      |        |                          |
| TXTMD                | /BIC/TC_CDSA | RSTXTMD              | CHAR | 40     | Medium Description       |

**COMP:** This file will provide the attributes and text of the Company master data. This master data is used to do the geographical grouping.

| Interface File Field | Source table | Field / Data element | Type | Length | Description | Comment |
|----------------------|--------------|----------------------|------|--------|-------------|---------|
|----------------------|--------------|----------------------|------|--------|-------------|---------|

|           |                     |                                   |      |    |                                       |                                                                                          |
|-----------|---------------------|-----------------------------------|------|----|---------------------------------------|------------------------------------------------------------------------------------------|
| COMP_CODE | /BIO<br>/PCOMP_CODE | /BIO/OICOMP_CODE                  | CHAR | 4  | Company code                          |                                                                                          |
| TXTMD     | /BIO/TCOMP_CODE     | RSTXTMD                           | CHAR | 40 | Medium description                    | Description starts wit "ZZZZ" for inactive companies                                     |
| COMPANY   | /BIO<br>/PCOMP_CODE | /BIO/OICOMPANY                    | CHAR | 4  | Company                               |                                                                                          |
| COUNTRY   | /BIO<br>/PCOMP_CODE | /BIO/OICOUNTRY                    | CHAR | 3  | Country key                           |                                                                                          |
| CURRENCY  | /BIO<br>/PCOMP_CODE | /BIO/OICURRENCY                   | CHAR | 5  | Currency key                          |                                                                                          |
| C_ZONE    | /BIO<br>/PCOMP_CODE | /BIC/C_ZONE<br>/BIC/OIC_ZONE      | CHAR | 2  | Magnitude Geographie/Zone             |                                                                                          |
| C_STAT_SL | /BIC/C_STAT_SL      | /BIC/OIC_STAT_SL                  | CHAR | 4  | Status of Trading Partner (Accnt doc) | 1=Integrated company<br>2=Equity Company<br>3=Other company or Proportionally Integrated |
| C_FGPTOB  | /BIO<br>/PCOMP_CODE | /BIC/C_FGPTOB /BIC<br>/OIC_FGPTOB | CHAR | 1  | Flag for Obsolete Object              |                                                                                          |
| CO_AREA   | /BIO<br>/PCOMP_CODE | /BIO/OICO_AREA                    | CHAR | 4  | Controlling area                      |                                                                                          |

**IECRA:** This file will provide the attributes and text of the IECRA master data. This master data is used as the second less level of the organizational sales structure, as a grouping of CDxSA.

Selected description is in English (/BIO/TG\_CWWE01 LANGU = "E").

If English description is not available, then French description is to be selected (/BIO/TG\_CWWE01 LANGU = "F").

| Interface File Field | Source table   | Field / Data element          | Type | Length | Description              | Comment                   |
|----------------------|----------------|-------------------------------|------|--------|--------------------------|---------------------------|
| G_CWWE01             | /BIO/PG_CWWE01 | /BIO/OIG_CWWE01               | CHAR | 10     | IECRA                    | Key                       |
| TXTSH                | /BIO/TG_CWWE01 | RSTXTSH                       | CHAR | 20     | Sort Description         |                           |
| C_PFCTR1             | /BIO/PG_CWWE01 | /BIC/C_PFCTR1 /BIC/OIC_PFCTR1 | CHAR | 20     | 1 - Global Business Unit | For information/reference |

**MARM:** This file will provide by material, the different conversion rate to the alternative unit of measure.

| Interface File Field | Source table | Field / Data element | Type | Length | Description                 |  |
|----------------------|--------------|----------------------|------|--------|-----------------------------|--|
| C_MATNR              | ODS_MARM     | C_MATNR              | CHAR | 18     | Material number             |  |
| MEINH                | ODS_MARM     | U_MEINH              | CHAR | 3      | Alternative unit of measure |  |
| UMREZ                | ODS_MARM     | K_UMREZ              | DEC  | 9      | Numerator for conversion    |  |
| UMREN                | ODS_MARM     | K_UMREN              | DEC  | 9      | Denominator for conversion  |  |

**MATNR:** This table provides the relationship between C\_MATNR and DIVISION. A C\_MATNR belongs to only one DIVISION (SA). This table will be used to update/replace the DIVISON in SHIP.txt and RSAL.txt.

Selected description is in English (/BIC/TC\_MATNR LANGU = "E").

If English description is not available, then French description is to be selected (/BIC/TC\_MATNR LANGU = "F").

The size of data can be restricted by selecting only materials belonging to Novocare and Silica CGU by testing of C\_PFCTR1 from C\_MATPLNT:

- Novocare : ZSECT00011
- Silica : ZSECT00067

Then updated DIVISION will permit updating of IECRA and GBU for the key CDSA in these files.

| Interface File Field | Source table  | Field / Data element           | Type | Length | Description          | Comment |
|----------------------|---------------|--------------------------------|------|--------|----------------------|---------|
| C_MATNR              | /BIC/PC_MATNR | /BIC/C_MATNR<br>/BIC/OIC_MATNR | CHAR | 18     | Material code        | key     |
| TXTMD                | /BIC/TC_MATNR | RSTXTMD                        | CHAR | 40     | Medium Description   |         |
| BASE_UOM             | /BIC/PC_MATNR | /BIO/OIBASE_UOM                | CHAR | 3      | Base Unit of Measure |         |

|            |                 |                                  |      |    |                                                  |  |
|------------|-----------------|----------------------------------|------|----|--------------------------------------------------|--|
| BASIC_MATL | /BIC/PC_MATNR   | /BI0/OIBASIC_MATL                | CHAR | 14 | Basic material (basic constituent of a material) |  |
| DIVISION   | /BIC/PC_MATNR   | /BI0/OIDIVISION                  | CHAR | 2  | Division (SA)                                    |  |
| C_PFCSTR1  | /BIC/PC_MATPLNT | /BIC/C_PFCSTR1 /BIC/OIC_PFCSTR1  | CHAR | 20 | 1 - Global Business Unit                         |  |
| G_CWWE01   | /BIC/PC_MATPLNT | /BI0/OIG_CWWE01                  | CHAR | 10 | IECRA                                            |  |
| C_VALSTR   | /BIC/PC_MATPLNT | /BIC/C_VALSTR /BIC/OIC_VALSTR    | CHAR | 10 | Value Stream                                     |  |
| C_PROD     | /BIC/PC_MATNR   | /BIC/C_PROD /BIC/OIC_PROD        | CHAR | 18 | Commercial Product                               |  |
| CO_AREA    | /BIC/PC_MATNR   | /BI0/OICO_AREA                   | CHAR | 4  | Controlling area                                 |  |
| PROFIT_CTR | /BIC/PC_MATNR   | /BI0/OIPROFIT_CTR                | CHAR | 10 | Profit Center                                    |  |
| UNIT_DIM   | /BIC/PC_MATNR   | UNIT_DIM                         | UNIT | 3  | Profit Center                                    |  |
| UNIT_OF_WT | /BIC/PC_MATNR   | /BI0/OIUNIT_OF_WT                | UNIT | 3  | Weight unit                                      |  |
| VOLUME     | /BIC/PC_MATNR   | /BI0/OIVOLUME                    | QUAN | 17 | Volume                                           |  |
| VOLUMEUNIT | /BIC/PC_MATNR   | /BI0/OIVOLUMEUNIT                | UNIT | 3  | Volume unit                                      |  |
| DEL_FLAG   | /BIC/PC_MATNR   | /BI0/OIDEL_FLAG                  | CHAR | 1  | Deletion flag for all material data of a plant   |  |
| C_MATGRP   | BIC/PC_MATPLNT  | /BIC/C_MATGRP<br>/BIC/OIC_MATGRP | CHAR | 10 | Enterprise Material Grouping                     |  |
| C_MATSGRP  | BIC/PC_MATPLNT  | /BIC/C_MATSGRP /BIC/OIC_MATSGRP  | CHAR | 10 | Enterprise Material Sub Grouping                 |  |
| C_MMSTA    | BIC/PC_MATPLNT  | /BIC/OIC_MMSTA                   | CHAR | 2  | Material Status                                  |  |
| PLANT      | BIC/PC_MATPLNT  | /BI0/OPLANT                      | CHAR | 4  | Plant                                            |  |

**PLANT:** PLANT file provides the complete plant list and its correspondent description, zone, Distribution Channel, Controlling Area and etc.

The controlling area is not provided in the monthly extract files. So Controlling Area Code will be updated from this file based on plant because each plant has only one Controlling Area Code.

Plant's short description is a substring of medium description, without the company name an separation character.

For not active plants, short description = complete medium description starting with "ZZZZ", unchanged.

Examples from table '/BI0/TPLANT':

[blocked URL](#)

Remarks: The program P\_Velocity is executed only with a list of plant which are included in the Variant => Data loading chapter.

| Interface File Field | Source table    | Field / Data element | Type | Length | Description        | Comment           |
|----------------------|-----------------|----------------------|------|--------|--------------------|-------------------|
| PLANT                | /BI0<br>/PPLANT | /BI0/OIPLANT         | CHAR | 4      | Plant              | Plant is the key. |
| TXTMD                | /BI0<br>/TPLANT | RSTXTMD              | CHAR | 40     | Medium Description |                   |

|            |                 |                                                |      |    |                                  |                                                                                                                                                                         |
|------------|-----------------|------------------------------------------------|------|----|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TXTSD      |                 |                                                | CHAR | 40 | Short Description                | Calculated, substring from RSTXTMD, starting after the special separation character (/ , 6...)<br><br>Ex.: 3865 / Melle -> Melle<br><br>TXTSD=TXT MD form "ZZZZ" plants |
| COUNTRY    | /BI0<br>/PPLANT | /BI0<br>/OICOUNTRY                             | CHAR | 3  | Country key                      |                                                                                                                                                                         |
| C_ZONE     | /BI0<br>/PPLANT | /BIC/C_ZONE<br>/BIC/OIC_ZONE                   | CHAR | 2  | Magnitude Geography /Zone        |                                                                                                                                                                         |
| DISTR_CHAN | /BI0<br>/PPLANT | /BI0<br>/OIDISTR_CHAN                          | CHAR | 2  | Distribution Channel             |                                                                                                                                                                         |
| FACTCAL_ID | /BI0<br>/PPLANT | /BI0<br>/OIFACTCAL_ID                          | CHAR | 2  | Factory Calendar ID              |                                                                                                                                                                         |
| LOC_CURRCY | /BI0<br>/PPLANT | /BI0<br>/OIOLOC_CURRCY                         | CUKY | 5  | Local currency                   |                                                                                                                                                                         |
| PURCH_ORG  | /BI0<br>/PPLANT | /BI0<br>/OIPURCH_ORG                           | CHAR | 4  | RCS / Purchase Organisation      |                                                                                                                                                                         |
| REGION     | /BI0<br>/PPLANT | /BI0/OIREGION                                  | CHAR | 5  | Region (State, Province, County) |                                                                                                                                                                         |
| SALESORG   | /BI0<br>/PPLANT | /BI0<br>/OISALESORG                            | CHAR | 4  | Sales Organization               |                                                                                                                                                                         |
| C_SITE     | /BI0<br>/PPLANT | /BIC/C_SITE<br>/BIC/OIC_SITE                   | CHAR | 5  | Geography / Geographic site      |                                                                                                                                                                         |
| COMP_CODE  | /BI0<br>/PPLANT | /BI0<br>/OICOMP_CODE                           | CHAR | 4  | Company code                     |                                                                                                                                                                         |
| C_OPE_ENT  | /BI0<br>/PPLANT | /BIC<br>/C_OPE_ENT<br><br>/BIC<br>/OIC_OPE_ENT | CHAR | 2  | Operating Enterprise             |                                                                                                                                                                         |

|          |                 |                                          |      |   |                                |                                                         |
|----------|-----------------|------------------------------------------|------|---|--------------------------------|---------------------------------------------------------|
| CO_AREA  | /BI0<br>/PPLANT | /BI0<br>/OICO_AREA                       | CHAR | 4 | Controlling<br>area            | Each plant has<br>only one<br>Controlling<br>Area code. |
| C_FGPTOB | /BI0<br>/PPLANT | /BIC/C_FGPTOB<br><br>/BIC<br>/OIC_FGPTOB | CHAR | 1 | Flag for<br>Obsolete<br>Object |                                                         |
| C_CPCRCY | /BI0<br>/PPLANT | /BIC/C_CPCRCY<br><br>/BIC<br>/OIC_CPCRCY | CHAR | 5 | Currency of<br>the Company     |                                                         |

**PROFITCTR:** This file provides GBU and values stream info based on a concatenated key Controlling Area + Profit Centre. It will be used to update GBU value.

Profit Center is associated to plant + material.

Selected description is in English (/BI0/TPROFIT\_CTR LANGU = "E").

If English description is not available, then French description is to be selected (/BI0/TPROFIT\_CTR LANGU = "F").

| Interface<br>File Field | Source table         | Field / Data<br>element                      | Typ<br>e | Le<br>ngth | Descript<br>ion           | Co<br>mm<br>ent |
|-------------------------|----------------------|----------------------------------------------|----------|------------|---------------------------|-----------------|
| CO_AREA                 | /BI0<br>/PPROFIT_CTR | /BI0<br>/OICO_AREA                           | CH<br>AR | 4          | Controlli<br>ng area      | Key             |
| PROFIT_<br>CTR          | /BI0<br>/PPROFIT_CTR | /BI0<br>/OIPROFIT_C<br>TR                    | CH<br>AR | 10         | Profit<br>Center          | Key             |
| TXTSH                   | /BI0<br>/TPROFIT_CTR | RSTXTSH                                      | CH<br>AR | 20         | Short<br>descripti<br>on  |                 |
| TXTMD                   | /BI0<br>/TPROFIT_CTR | RSTXTMD                                      | CH<br>AR | 40         | Medium<br>descripti<br>on |                 |
| DATETO                  | /BI0<br>/TPROFIT_CTR | RSDATETO                                     | DA<br>TS | 8          | Valid-to<br>date          |                 |
| C_VALSTR                | /BI0<br>/PPROFIT_CTR | /BIC<br>/C_VALSTR<br><br>/BIC<br>/OIC_VALSTR | CH<br>AR | 10         | Value<br>Stream           |                 |

|           |                      |                                                |          |    |                                   |                                                               |
|-----------|----------------------|------------------------------------------------|----------|----|-----------------------------------|---------------------------------------------------------------|
| C_ZSECT   | /BI0<br>/PPROFIT_CTR | /BIC<br>/C_ZSECT<br><br>/BIC<br>/OIC_ZSECT     | CH<br>AR | 20 | Global<br>Business<br>Unit        |                                                               |
| C_PFCTR1  | /BI0<br>/PPROFIT_CTR | /BIC<br>/C_PFCTR1<br><br>/BIC<br>/OIC_PFCTR1   | CH<br>AR | 20 | 1 -<br>Global<br>Business<br>Unit | <b>For<br/>info<br/>rma<br/>tion<br/>/<br/>refe<br/>rence</b> |
| G_CWWE01  | /BI0<br>/PPROFIT_CTR | /BI0<br>/OIG_CWWE01                            | CH<br>AR | 10 | IECRA                             |                                                               |
| C_TVALSTR | /BI0<br>/PPROFIT_CTR | /BIC<br>/C_TVALSTR<br><br>/BIC<br>/OIC_TVALSTR | CH<br>AR | 4  | Technolo<br>gy<br>Value<br>Stream |                                                               |
| PLANT     | /BI0<br>/PPROFIT_CTR | /BI0<br>/OIPLANT                               | CH<br>AR | 4  | Plant                             |                                                               |
| COMP_CODE | /BI0<br>/PPROFIT_CTR | /BI0<br>/OICOMP_CODE                           | CH<br>AR | 4  | Compan<br>y code                  |                                                               |
| C_OPE_ENT | /BI0<br>/PPROFIT_CTR | /BIC<br>/C_OPE_ENT<br><br>/BIC<br>/OIC_OPE_ENT | CH<br>AR | 20 | Operatin<br>g<br>Enterprise       |                                                               |

**UOM:** This file contains all the attributes of the unit of measure. The target is to provide to the pVelocity tool all the necessary information to convert one unit of measure to another to be able to calculate integrated costs.

| table | field | description                     | example1 | example2 |
|-------|-------|---------------------------------|----------|----------|
| T006  | MANDT | Client                          | 110      | 110      |
| T006  | MSEHI | Int. meas. unit                 | LB       | TOZ      |
| T006  |       |                                 |          |          |
| T006  | KZEX3 | 3-char.ext.unit                 | X        | X        |
| T006  | KZEX6 | 6-char.ext.unit                 | X        | X        |
| T006  | ANDEC | <a href="#">Decimal.pl.rnd.</a> | 3        | 0        |
| T006  | KZKEH | Commercial unit                 | X        | X        |
| T006  | KZWOB | Value bsd cmmt                  |          |          |
| T006  | KZ1EH | (1) unit                        |          |          |
| T006  | KZ2EH | (2) unit                        |          |          |
| T006  | DIMID | Dimension                       | MASS     | MASS     |
| T006  | ZAHL  | Numerator                       | 24445    | 311035   |

|      |            |                 |          |            |
|------|------------|-----------------|----------|------------|
| T006 | NENNR      | Denominator     | 53892    | 10         |
| T006 | EXP10      | Exponent        | 0        | 6-         |
| T006 | ADDKO      | Additive const. | 0        | 0          |
| T006 | EXPON      | fl. pt. exp.    | 0        | 0          |
| T006 | DECAN      | Decimal places  | 0        | 0          |
| T006 | ISOCODE    | ISO code        | LBR      | APZ        |
| T006 | PRIMARY    | Primary code    | X        | X          |
| T006 | TEMP UNIT  | Temperature un. |          |            |
| T006 | FAMUNIT    | Un.of meas.fam. |          |            |
| T006 | PRESS UNIT | Pressure Unit   |          |            |
| T006 | MSEH3      | Commercial      | LB       | TOZ        |
| T006 | MSEH6      | Technical       | lb       | TOZ        |
| T006 | MSEHT      | Meas. unit text | US pound | Troy ounce |
| T006 | MSEHL      | Unit text       | US pound | Troy ounce |

| table | field     | description         | example |
|-------|-----------|---------------------|---------|
| T006D | MANDT     | Client              | 110     |
| T006D | DIMID     | Dimension           | MASS    |
| T006D | LENG      | Length              | 0       |
| T006D | MASS      | Mass                | 1       |
| T006D | TIMEX     | Time                | 0       |
| T006D | ECURR     | elec. current       | 0       |
| T006D | TEMP      | Temperature         | 0       |
| T006D | MOLQU     | Mole quantity       | 0       |
| T006D | LIGHT     | Luminous intensity  | 0       |
| T006D | MSSIE     | SI unit             | KG      |
| T006D | TEMP DEP  | Temperature-Depend. |         |
| T006D | PRESS DEP | Pressure-Dependent  |         |
| T006D | TXDIM     | Dimension text      | Mass    |

Conceptual information :

To use those tables inform the dimension and the unit of measure that you need to convert in T006:

Example1 : mass / LB

In this example,  $1 \text{ lb} = 24445/53893 = 0,453 \text{ kg}$

Example2= mass/TOZ

In this example,  $1 \text{ toz} = 311035/10000000 = 0,031 \text{ kg}$

The base of unit of measure defined in the System International ( kg ) is obtained in the table T006D.

**VALSTR:** This file will provide the attributes and text of the Value Stream.

Selected description is in English (/BI0/TPROFIT\_CTR LANGU = "E").

If English description is not available, then French description is to be selected (/BI0/TPROFIT\_CTR LANGU = "F").

| Interface<br>File<br>Field | Source<br>table    | Field / Data<br>element                        | Ty<br>pe     | Le<br>ng<br>th | Descripti<br>on                          | Co<br>mm<br>ent |
|----------------------------|--------------------|------------------------------------------------|--------------|----------------|------------------------------------------|-----------------|
| C_VALSTR                   | /BIC<br>/PC_VALSTR | /BIC<br>/OIC_VALSTR                            | C<br>H<br>AR | 10             | Value<br>Stream                          | Key             |
| TXTSH                      | /BIC<br>/TC_VALSTR | RSTXTSH                                        | C<br>H<br>AR | 20             | Short<br>Descripti<br>on                 |                 |
| TXTMD                      | /BIC<br>/TC_VALSTR | RSTXTMD                                        | C<br>H<br>AR | 40             | Medium<br>Descripti<br>on                |                 |
| C_TVALSTR                  | /BIC<br>/PC_VALSTR | /BIC<br>/C_TVALSTR<br><br>/BIC<br>/OIC_TVALSTR | C<br>H<br>AR | 4              | Technolo<br>gy Value<br>Stream           |                 |
| PLANT                      | /BIC<br>/PC_VALSTR | /BI0<br>/OIPLANT                               | C<br>H<br>AR | 4              | Plant                                    |                 |
| C_PFCTR1                   | /BIC<br>/PC_VALSTR | /BIC<br>/OIC_PFCTR1                            | C<br>H<br>AR | 20             | 1 -<br>Global<br>Business<br>Unit        |                 |
| CURRENCY                   | /BIC<br>/PC_VALSTR | /BI0<br>/OICURRENCY                            | C<br>U<br>KY | 5              | Currency<br>key                          |                 |
| C_TYPEVS                   | /BIC<br>/PC_VALSTR | /BIC<br>/C_TYPEVS<br><br>/BIC<br>/OIC_TYPEVS   | C<br>H<br>AR | 20             | Value<br>Stream<br>Type                  |                 |
| C_GEOSITE                  | /BIC<br>/PC_VALSTR | /BIC<br>/C_GEOSITE<br><br>/BIC<br>/OIC_GEOSITE | C<br>H<br>AR | 20             | Value<br>Stream<br>Geograph<br>ical site |                 |

**ZSECT:** This file will provide the description and attributes of the Global Business Unit

Selected description is in English (/BIC/TC\_ZSECT LANGU = "E").

If English description is not available, then French description is to be selected (/BIC/TC\_ZSECT LANGU = "F").

| Interface File Field | Source table      | Field / Data element                         | Type | Length | Description              | Comment |
|----------------------|-------------------|----------------------------------------------|------|--------|--------------------------|---------|
| C_ZSECT              | /BIC<br>/PC_ZSECT | /BIC<br>/C_ZSECT<br><br>/BIC<br>/OIC_ZSECT   | CHAR | 20     | Global Business Unit     |         |
| TXMTD                | /BIC<br>/TC_ZSECT | RSTXTMD                                      | CHAR | 40     | Medium description       |         |
| C_FGPTOB             | /BIC<br>/PC_ZSECT | /BIC<br>/C_FGPTOB<br><br>/BIC<br>/OIC_FGPTOB | CHAR | 1      | Flag for Obsolete Object |         |

#### Transactionnal data:

**CURR:** Exchange rate

Select all occurrences in table TCURR with KURST = M and create a file

| table | field | description    | Type | example    |
|-------|-------|----------------|------|------------|
| tcurr | MANDT | Client         | T    | 110        |
| tcurr | KURST | Exch.rate type | T    | M          |
| tcurr | FCURR | From currency  | T    | USD        |
| tcurr | TCURR | To-currency    | T    | CAD        |
| tcurr | GDATU | Valid from     | T    | 30.09.2007 |
| tcurr |       |                |      |            |
| tcurr | UKURS | Exchange Rate  | N    | 1,00404    |
| tcurr | FFACT | Ratio (from)   | N    | 0          |
| tcurr | TFACT | Ratio (to)     | N    | 0          |

To use the exchange rate proceed : inform the FCURR and TCURR and valid date from .

If the valid date is not informed in the file, use the exchange rate of the last date less than the date informed.

**PBOM:** Standard production cost

The file is generated from the ODS\_PCP1 DSO. In addition to the variant, there is no specific selection.

This file is used today in P\_Velocity interface in order to inform the standard cost of the product produced in the month.  
(ZBW\_KEKO\_CKIS)

For byproducts/co-products the OI\_MENGE is negative

| Technical field name | Description                                 | Type |
|----------------------|---------------------------------------------|------|
| FISCPER              | Fiscal year / period (Month)                | T    |
| PLANT                | Plant                                       | T    |
| C_MATNR              | Material (Number + Description)             | T    |
| C_PRODVER            | Production Version                          | T    |
| ACTTYPE              | Activity Type (Number + Description)        | T    |
| C_COMPNT             | BOM Component (Number + Description)        | T    |
| WORKCENTER           | Work Center/Resource (Number + Description) | T    |
| BASE_UOM             | Base Unit of Measure                        | T    |
| UNIT                 | Unit of measure                             | T    |
| OI_MENGE             | Quantity                                    | N    |
| LOTSIZE_IT           | Lot Size                                    | N    |
| DIVISION             | Division (code & Desc.) will com from CO-PA | T    |
| PRCTR                | Profit center                               | T    |

**PROD:** Produced quantity

The file is generated from the ODS\_PP01 DSO. In addition to the variant, there is no specific selection.

| Technical field name | Description                                | Type |
|----------------------|--------------------------------------------|------|
| PLANT                | Plant (Number + Description)               | T    |
| PRODORER             | Manufacturing Order                        | T    |
| C_MATNR              | Material                                   | T    |
| BASE_UOM             | Base Unit of Measure                       | T    |
| CALDAY               | Calendar Day                               | T    |
| GR_QTY               | Actual goods receipt quantity              | N    |
| PRCTR                | Profit center                              | T    |
| AUFK-ZZMDV01         | Resource ( production line used in the PO) | T    |

**RAWP:** Raw material price

The file is generated from the ODS\_PCP3 DSO. In addition to the variant, there is no specific selection.

| Technical field name | Description                  | Type |
|----------------------|------------------------------|------|
| PLANT                | Plant                        | T    |
| FISCPER              | Fiscal year / period (Month) | T    |
| C_MATNR              | Material                     | T    |
| CURRENCY             | Currency key                 | T    |
| UNIT                 | Unit of measure              | T    |
| AMOUNT               | Amount                       | N    |

|            |               |   |
|------------|---------------|---|
| LOTSIZE_IT | Lot Size      | N |
| PRCTR      | Profit center | T |

# **RESOURCE:** Resources Unit price

The file is generated from the ODS\_PCP8 DSO. In addition to the variant, there is no specific selection.

Obtain the resource identification OBJID in table CRHD selecting the occurrences by :

- OBJTY = A
- VERWE = 0008 or 0009
- WERKS = informed ( all plants of Z028 CA )

With the OBJID read table CRCO in order to obtain the cost center / activity :

Select every occurrence of OBJID with CA/cost center / activity not equal spaces.

For each occurrence selected of CRCO , read table CSSL with fields KOKRS , KOSTL, LSTAR and GJAHR = year informed ( reference date ) , in order to obtain the OBJNR.

Finally, with OBJNR , GJAHR and VERSN = 0 , obtain the unit price in table COST.

The prices and unit price are informed by month with the Controlling area currency ( in Z028 = USD ).

| table | field  | description                | example               |
|-------|--------|----------------------------|-----------------------|
| CRHD  | OBJTY  | Object type                | A                     |
| CRHD  | OBJID  | Object ID                  |                       |
| CRHD  | ARBPL  | Work center                | ABRERU1               |
| CRHD  | WERKS  | Plant                      | 242                   |
| CRHD  | VERWE  | Work center cat            | 8                     |
| CRTX  | KTEXT  | description                | Regen Furnace Unit1   |
| CRCO  | KOKRS  | CO Area                    | Z028                  |
| CRCO  | KOSTL  | Cost Center                | 0242-1012             |
| CRCO  | LSTAR  | Activity Type              | MACHI                 |
| CSSL  | OBJNR  | Object number              | KLZ0280242-1012 MACHI |
| CSSL  | LEINH  | Activity unit              | H                     |
| COST  | LEDNR  | Ledger                     | 0                     |
| COST  | GJAHR  | Fiscal Year                | 2008                  |
| COST  | WRTTP  | Value Type                 | 1                     |
| COST  | VERSN  | Version                    | 0                     |
| COST  | TARKZ  | Price indicator            | 1                     |
| COST  | PERBL  | Period block               | 16                    |
| COST  | VRGNG  | Bus.Transaction            | RKP2                  |
| COST  | TKG001 | Total price in CA currency | 22                    |
| COST  | TKG002 | Total price in CA currency | 22                    |
| COST  | TKG003 | Total price in CA currency | 22                    |
| COST  | TKG004 | Total price in CA currency | 22                    |
| COST  | TKG005 | Total price in CA currency | 22                    |
| COST  | TKG006 | Total price in CA currency | 22                    |
| COST  | TKG007 | Total price in CA currency | 22                    |
| COST  | TKG008 | Total price in CA currency | 22                    |
| COST  | TKG009 | Total price in CA currency | 22                    |
| COST  | TKG010 | Total price in CA currency | 22                    |
| COST  | TKG011 | Total price in CA currency | 22                    |
| COST  | TKG012 | Total price in CA currency | 22                    |
| COST  | TKG013 | Total price in CA currency | 0                     |
| COST  | TKG014 | Total price in CA currency | 0                     |
| COST  | TKG015 | Total price in CA currency | 0                     |

|      |        |                            |   |
|------|--------|----------------------------|---|
| COST | TKG016 | Total price in CA currency | 0 |
| COST | TKE001 | Price unit in CA currency  | 1 |
| COST | TKE002 | Price unit in CA currency  | 1 |
| COST | TKE003 | Price unit in CA currency  | 1 |
| COST | TKE004 | Price unit in CA currency  | 1 |
| COST | TKE005 | Price unit in CA currency  | 1 |
| COST | TKE006 | Price unit in CA currency  | 1 |
| COST | TKE007 | Price unit in CA currency  | 1 |
| COST | TKE008 | Price unit in CA currency  | 1 |
| COST | TKE009 | Price unit in CA currency  | 1 |
| COST | TKE010 | Price unit in CA currency  | 1 |
| COST | TKE011 | Price unit in CA currency  | 1 |
| COST | TKE012 | Price unit in CA currency  | 1 |
| COST | TKE013 | Price unit in CA currency  | 1 |
| COST | TKE014 | Price unit in CA currency  | 1 |
| COST | TKE015 | Price unit in CA currency  | 1 |
| COST | TKE016 | Price unit in CA currency  | 1 |

**RSAL:** Resales of the month

The file is generated from the ODS\_PA06 DSO.

This file is used today in the P\_Velocity interface in order to inform the resales in the month.

This file was created for Mustang version , selection :

**IF VAL\_CLASS=Z130 or if ITEM\_CATEG=(TAS or TASG or TAB ) => file RSAL otherwise file SHIP.**

| Technical field name | Description                                             | Type |
|----------------------|---------------------------------------------------------|------|
| C_MATNR              | Material                                                | T    |
| REFER_DOC            | Document number of the reference document               | T    |
| SALESORG             | Sales Organization                                      | T    |
| DISTR_CHAN           | Distribution Channel                                    | T    |
| PLANT                | Plant                                                   | T    |
| SHIP_TO              | Ship-To Party (Number + Description + city)             | T    |
| PSTNG_DATE           | Posting date in the document                            | T    |
| DOC_NUMBER           | Sales document                                          | T    |
| Product line 00      | GBR: Product line (Number + Description)                | T    |
| Commercial Product   | GBR: Commercial Product (Number + Description)          | T    |
| G_CWWE13             | Ship-to country                                         | T    |
| G_CWWE10             | Movement type                                           | T    |
| CUSTOMER             | Customer number (Number + Description)                  | T    |
| CURRENCY             | Currency key                                            | T    |
| G_UVVA01             | Un Qty invoice                                          | T    |
| G_AVVB00             | B00 Net Sales                                           | N    |
| G_AVVB20             | B20 Add N.Sales Int                                     | N    |
| G_AVVC00             | C00 Rebates                                             | N    |
| Net Sales Calculated | 'B00 Net Sales' + 'B20 Add N.Sales Int' + 'C00 Rebates' | N    |
| G_AVVC10             | C10 Sales Commission                                    | N    |

|                         |                                                                                                 |   |
|-------------------------|-------------------------------------------------------------------------------------------------|---|
| G_AVVC20                | C20 Freight (Prov)                                                                              | N |
| G_AVVD00                | D00 VC Variable Cost                                                                            | N |
| Contribution Calculated | 'Net Sales Calculated' - 'C10 Sales Commission' - 'C20 Freight (Prov)' - 'D00 VC Variable Cost' | N |
| G_AVVF00                | F00 DEP Depreciation                                                                            | N |
| G_AVVE00                | E00 FC Fixed Costs                                                                              | N |
| G_QVVA01                | Qty invoice                                                                                     | N |
| G_AVVB10                | B10 Net Sales Corr.                                                                             | N |
| G_AVVC05                | C05 Cash dis cust SD                                                                            | N |
| G_AVVC06                | C06 Cash dis cust FI                                                                            | N |
| G_CWWE01                | IECRA (Number + Description)                                                                    | T |
| C_MATNR                 | Only Description of the material                                                                | T |
| REGION                  | State (attribute of the customer)                                                               | T |
| CITY                    | City of the customer (attribute)                                                                | T |
| SALES_GRP               | Sales Group (Code and description)                                                              | T |
| DIVISION                | Division (code & Desc.) will com from<br>CO-PA                                                  | T |
| PRCTR ( from COPA)      | Profit center                                                                                   | T |
| VBAK-ERNAM              | Sales order's responsible person                                                                | T |
| AUFNR (From COPA)       | Sales order number                                                                              | T |
| PSTYV (From COPA)       | Sales document item category                                                                    | T |
| FKART (From COPA)       | Billing type                                                                                    | T |

#### SHIP: Sales of the month

The file is generated from the ODS\_PA06 DSO.

This file will contain only the sales without the resales since they will be in the new RSAL file.

Conceptual information for P-Velocity : Identification of freight costs in the late differentiation flow : select PSTYV =TAPS , and qty = 0. ( not select qty # zero ).

PLANT – is the distribution plant.

Plant Code from the PRCTR (1 st four characters) – is the plant where the transaction will be grouped under for profit analysis and the plant code showed in the plant-list in the pV. This is also the plant code to link with the PBOM

Here the list of sales document item category table TVAPT ( 341 items ) :

| table | field | description   | Type | example             |
|-------|-------|---------------|------|---------------------|
| TVAPT | MANDT | Client        | T    | 110                 |
| TVAPT | SPRAS | Language      | T    | EN                  |
| TVAPT | PSTYV | Item category | T    | AES                 |
| TVAPT | VTEXT | Description   | T    | Atn from serv.order |

Here the list of sales billing type table (92 items ):

| table | field | description  | Type | example            |
|-------|-------|--------------|------|--------------------|
| TVFKT | MANDT | Client       | T    | 110                |
| TVFKT | SPRAS | Language     | T    | EN                 |
| TVFKT | FKART | Billing Type | T    | B1                 |
| TVFKT | VTEXT | Description  | T    | Rebate Credit Memo |

| Technical field name    | Description                                                                                     | Type |
|-------------------------|-------------------------------------------------------------------------------------------------|------|
| C_MATNR                 | Material                                                                                        | T    |
| REFER_DOC               | Document number of the reference document                                                       | T    |
| SALESORG                | Sales Organization                                                                              | T    |
| DISTR_CHAN              | Distribution Channel                                                                            | T    |
| PLANT                   | Plant                                                                                           | T    |
| SHIP_TO                 | Ship-To Party (Number + Description + city)                                                     | T    |
| PSTNG_DATE              | Posting date in the document                                                                    | T    |
| DOC_NUMBER              | Sales document                                                                                  | T    |
| Product line 00         | GBR: Product line (Number + Description)                                                        | T    |
| Commercial Product      | GBR: Commercial Product (Number + Description)                                                  | T    |
| G_CWWE13                | Ship-to country                                                                                 | T    |
| G_CWWE10                | Movement type                                                                                   | T    |
| CUSTOMER                | Customer number (Number + Description)                                                          | T    |
| CURRENCY                | Currency key                                                                                    | T    |
| G_UVVA01                | Un Qty invoice                                                                                  | T    |
| G_AVVB00                | B00 Net Sales                                                                                   | N    |
| G_AVVB20                | B20 Add N.Sales Int                                                                             | N    |
| G_AVVC00                | C00 Rebates                                                                                     | N    |
| Net Sales Calculated    | 'B00 Net Sales' + 'B20 Add N.Sales Int' + 'C00 Rebates'                                         | N    |
| G_AVVC10                | C10 Sales Commission                                                                            | N    |
| G_AVVC20                | C20 Freight (Prov)                                                                              | N    |
| G_AVVD00                | D00 VC Variable Cost                                                                            | N    |
| Contribution Calculated | 'Net Sales Calculated' - 'C10 Sales Commission' - 'C20 Freight (Prov)' - 'D00 VC Variable Cost' | N    |
| G_AVVF00                | F00 DEP Depreciation                                                                            | N    |
| G_AVVE00                | E00 FC Fixed Costs                                                                              | N    |
| G_QVVA01                | Qty invoice                                                                                     | N    |
| G_AVVB10                | B10 Net Sales Corr.                                                                             | N    |
| G_AVVC05                | C05 Cash dis cust SD                                                                            | N    |
| G_AVVC06                | C06 Cash dis cust FI                                                                            | N    |
| G_CWWE01                | IECRA (Number + Description)                                                                    | T    |
| C_MATNR                 | Only Description of the material                                                                | T    |
| REGION                  | State (attribute of the customer)                                                               | T    |
| CITY                    | City of the customer (attribute)                                                                | T    |
| SALES_GRP               | Sales Group (Code and description)                                                              | T    |
| DIVISION                | Division (code & Desc.) will com from CO-PA                                                     | T    |
| PRCTR (From COPA)       | Profit center                                                                                   | T    |
| VBAK-ERNAM              | Sales order's responsible person                                                                | T    |
| AUFNR (From COPA)       | Sales order number                                                                              | T    |
| PSTYV (From COPA)       | Sales document item category                                                                    | T    |
| FKART (From COPA)       | Billing type                                                                                    | T    |

**STDCOST:** Standard cost by cost Elements

The file is generated from the ODS\_PCP7 DSO.

This file is used to provide the split of COGS in raw material cost, variable utilities , fix utilities , labor , maintenance , toll manufacturing, overhead and depreciation.

The cost elements of the material represents the split of the cost of raw materials , intermediates products , utilities and fixed costs and depreciation consumed until this production phase.

In order to obtain the cogs split by cost element , the link with the table SHIP and RSAL need to be done by : cocode / shipping plant / material code.

Do not forget to convert the standard cost estimate calculated by production lot size to the standard cost by qty sold.

For billing type IV the cost is informed in the SHIP file only ( the inter company cost is composed by standard cost + management fees + freight costs which are informed in the pricing procedure ).

For item category TAS the cost is informed in the RSAL file only ( the origin is the price purchase ).

Use always the fields KST001 , 3 , 5 , 7 , 9 , 11 , 13 , 15 , 17.

Mapping of the KSTxxx item to the P&L rows

| P&L Item     | Mapping to KSTxxx                                     | Deducted from source file  |
|--------------|-------------------------------------------------------|----------------------------|
| Sales Kg     | G_QVVA01                                              | SHIP                       |
| Sales Value  | NET_SALES_CALCULATED + G_AVVB10 + G_AVVC05 + G_AVVC06 | SHIP                       |
| Freight      | G_AVVC20                                              | SHIP                       |
| Net Sales    | NET_SALES_CALCULATED - G_AVVC20                       | SHIP                       |
| Raw Mat      | KST001 / LOSGR * G_QVVA01                             | STDCOST & InvoiceQty(SHIP) |
| Var OH       | (KST003+KST005) / LOSGR * G_QVVA01                    | STDCOST & InvoiceQty(SHIP) |
| Packaging    | KST009 / LOSGR * G_QVVA01                             | STDCOST & InvoiceQty(SHIP) |
| T.Variable   | Raw Mat + Var OH + Packaging                          | Calculation                |
| CM           | Net Sales - T.Variable                                | Calculation                |
| Direct Labor | KST007 / LOSGR * G_QVVA01                             | STDCOST & InvoiceQty(SHIP) |
| Depreciation | KST017 / LOSGR * G_QVVA01                             | STDCOST & InvoiceQty(SHIP) |
| Fixed OH     | (KST011+KST013+KST015) / LOSGR * G_QVVA01             | STDCOST & InvoiceQty(SHIP) |
| T.Fixed      | Direct Labor + Depreciation + Fixed OH                | Calculation                |
| GM           | CM - T.Fixed                                          | Calculation                |

Structure of the file:

| table | field | description       | detail | example    |
|-------|-------|-------------------|--------|------------|
| KEKO  | MANDT | Client            |        | 260        |
| KEKO  | BZOBJ | Reference Obj.    |        | 0          |
| KEKO  | KALNR | ProdCostEst.No.   |        | 100103934  |
| KEKO  | KALKA | Costing Type      |        | 1          |
| KEKO  | KADKY | Costing Date      |        | 01.10.2007 |
| KEKO  | TVERS | Costing Version   |        | 1          |
| KEKO  | BWVAR | Valuation Variant |        | ZFO        |
| KEKO  | KKZMA | Additive Costs    |        |            |
| KEKO  | MATNR | Material          |        | 38771      |
| KEKO  | WERKS | Plant             |        | 294        |
| KEKO  | KOKRS | CO Area           |        | Z028       |
| KEKO  | KADAT | Cstg Date From    |        | 30.10.2007 |
| KEKO  | BIDAT | Costing Date To   |        | 31.12.9999 |
| KEKO  | KADAM | Cstg Date From    |        |            |
| KEKO  | BIDAM | Costing Date To   |        |            |

|      |           |                 |                                           |            |
|------|-----------|-----------------|-------------------------------------------|------------|
| KEKO | BWDAT     | Valuation Date  |                                           | 30.10.2007 |
| KEKO | ALDAT     | Qty Struc. Date |                                           | 30.10.2007 |
| KEKO | BEDAT     | Requiremts Date |                                           |            |
| KEKO | VERID     | Prod. Version   |                                           |            |
| KEKO | STNUM     | BOM             |                                           |            |
| KEKO | STLAN     | Usage           |                                           |            |
| KEKO | STALT     | Alternative     |                                           |            |
| KEKO | STCNT     | 0 Counter       |                                           | 0          |
| KEKO | PLNNR     | Group           |                                           |            |
| KEKO | PLNTY     | Task List Type  |                                           |            |
| KEKO | PLNAL     | Group Counter   |                                           |            |
| KEKO | PLNCT     | 0 Counter (PLN  |                                           | 0          |
| KEKO | LOEKZ     | Deletion Indic. |                                           |            |
| KEKO | LOSGR     | Cstg Lot Size   | lot size used in the std cost calculation | 39.682,800 |
| KEKO | MEINS     | Base Unit       |                                           | LB         |
| KEKO | FEH STA   | Costing Status  |                                           | FR         |
| KEKO | FREIG     | Release         |                                           | X          |
| KEKO | SOBSL     | SpecProcuremKey |                                           | CY         |
| KEKO | SOBES     | Spec. procuremt |                                           | 7          |
| KEKO | SOWRK     | SpclPrcmntPlant |                                           | 7315       |
| KEKO | PRCTR     | Profit Center   |                                           | 7424-10449 |
| KEKO | KURST     | Exch. Rate Type |                                           | M          |
| KEKO | HWAER     | Local Currency  |                                           | USD        |
| KEKO | FWAER KPF | Currency        |                                           | USD        |
| KEPH | KST001    | Cost Field      | Raw Materials TOT                         | 31.855,52  |
| KEPH | KST002    | Cost Field      | Raw Materials FC                          | 0          |
| KEPH | KST003    | Cost Field      | Toll Manufacturing TOT                    | 71,52      |
| KEPH | KST004    | Cost Field      | Toll Manufacturing FC                     | 0          |
| KEPH | KST005    | Cost Field      | Utilities - TOT ( variable )              | 1.128,47   |
| KEPH | KST006    | Cost Field      | Utilities - FC                            | 0          |
| KEPH | KST007    | Cost Field      | Labor Costs TOT                           | 1.138,44   |
| KEPH | KST008    | Cost Field      | Labor Costs FC                            | 1.138,44   |
| KEPH | KST009    | Cost Field      | Supplies & Misc. TOT                      | 0          |
| KEPH | KST010    | Cost Field      | Supplies & Misc. FC                       | 0          |
| KEPH | KST011    | Cost Field      | Maintenance TOT                           | 7.327,81   |
| KEPH | KST012    | Cost Field      | Maintenance FC                            | 7.327,81   |
| KEPH | KST013    | Cost Field      | Overheads TOT                             | 0          |
| KEPH | KST014    | Cost Field      | Overheads FC                              | 0          |
| KEPH | KST015    | Cost Field      | Utilities -TOT ( fixed )                  | 0          |
| KEPH | KST016    | Cost Field      | Utilities -FC                             | 0          |
| KEPH | KST017    | Cost Field      | Depreciation TOT                          | 2.579,16   |
| KEPH | KST018    | Cost Field      | Depreciation FC                           | 2.579,16   |
| KEPH | KST019    | Cost Field      | not used                                  | 0          |
| KEPH | KST020    | Cost Field      | not used                                  | 0          |

#### TRANSFER: Transfer movement between plants

The file is generated from the ODS\_PCP8 DSO is used to analyse the flow of products between plants.

The extraction will take in to account the MM movements detailed in the next steps and theirs reverse movements :

##### INTRACO:

- for the month informed ( use for select the documents in MKBF ) , select the transfer movements in table MSEG : 301, 302, 303, 351, 641, 642, 647, 648, 671, 672, 677, 678, 833, 861, 862 with XAUTO = space

##### INTERCO:

- For the month informed ( use for select the documents in MKBF) , select the next movements in table MSEG , considering all the occurrences with the same material document code : 645, 646, 675, 676

( for every one there are 2 occurrences with the same material document number : 645 + 101 , 646 + 102 , 675 + 161 , 676 + 162 , 643 +101 , 673+ 161 , 644 + 674, 102 + 162 )

Save the table with the movements :

| table | field      | description                      | Type | Example    |                          |
|-------|------------|----------------------------------|------|------------|--------------------------|
| mseg  | MANDT      | Client                           | T    | 110        |                          |
| mseg  | MBLNR      | Material Doc.                    | T    | 4900005052 |                          |
| mseg  | MJAHR      | Mat. Doc. Year                   | T    | 2002       |                          |
| mseg  | ZEILE      | Item                             | T    | 1          |                          |
| mkpf  | BUDAT      | posting date                     | T    |            |                          |
| mseg  | LINE ID    | Line ID                          | T    | 1          |                          |
| mseg  | PARENT ID  | Parent ID                        | T    | 0          |                          |
| mseg  | LINE DEPTH | Level                            | T    | 0          |                          |
| mseg  | BWART      | Movement Type                    | T    | 301        |                          |
| mseg  | XAUTO      | Auto. created                    | T    |            |                          |
| mseg  | MATNR      | Material                         | T    | 36015      |                          |
| mseg  | WERKS      | Plant                            | T    | 2299       |                          |
| mseg  | SHKZG      | Debit/Credit                     | T    | H          | H=credit S=debit         |
| mseg  | MENGE      | Quantity                         | N    | 1.000      |                          |
| mseg  | MEINS      | Base Unit                        | T    | KG         |                          |
| mseg  | ERFMG      | Quantity in UnE                  | N    | 1.000      |                          |
| mseg  | ERFME      | Unit of Entry                    | T    | KG         |                          |
| mseg  | BUKRS      | Company Code                     | T    | 7388       |                          |
| mseg  | UMMAT      | Receiving mat.                   | T    | 36015      |                          |
| mseg  | UMWRK      | Receiving plant                  | T    | 212        | is empty for mov INTERCO |
| mseg  | LIFNR      | Vendor                           | T    |            |                          |
| mseg  | KUNNR      | Customer                         | T    |            |                          |
| mseg  | WEMPF      | Goods recipient                  | T    |            |                          |
| mseg  | PRCTR      | Profit center                    | T    |            |                          |
| mseg  | PPRCTR     | Partner Profit center            | T    |            |                          |
| mseg  | EBELN      | Purchase order                   | T    |            |                          |
| mseg  | EBELP      | Item number of purchase document | T    |            |                          |

For Intraco :

- when the debit/credit = H : werks is the sending plant and umwrk is the receiving plant
- when the debit/credit = S : werks is the receiving plant and umwrk is the sending plant

For Interco :

Work with the 2 occurrences with the same material document number :

- Mov 645, 675 , 101, 161 and their reverses 646, 676, 102, 162 :
- when the debit/credit = H : werks is the sending plant
- when the debit/credit = S : werks is the receiving plant

Work with the 2 occurrences with the same purchase order / item number :

- Mov 643, 101 , 673, 161 and their reverses 644, 674, 102, 162 :
- when the debit/credit = H : werks is the sending plant
- when the debit/credit = S : werks is the receiving plant

## Dependencies with other applications

Of course this application is very dependant of the others, because it uses a lot of DSO which already loaded by other applications.

Master data and texts are shared with all the other application.

Here are the dependance of the other applications:

- PROD file from ODS\_PP01 used in the Production reporting application
- PBOM file from ODS\_PCP1 used in the CO-PC (Cost production) reporting

- RAWP file from ODS\_PCP3 used in the CO-PC (Cost production) reporting
- SHIP and RSAL files from ODS\_PA06 used in the RCS KPIs dashboard
- STDCOST file from ODS\_PCP7 used in the integrated margin solution
- RESSOURCE file from ODS\_PCP8 used in the integrated margin solution
- TRANSFER file from ODS\_IC01 used in the stock and working Capital applications

#### MMSTA: Material Status

The file is generated from the C\_MATPLNT will display the status of the Material with respective to plant.

1. Leading zeros are removed only from the "MAT PLANT" column
2. only values where "MMSTA" column are filled are material and plant combinations that are deactivated. Therefore, Rows removed where MMSTA are empty.
3. Rows extracted only where MARC-LVORM = X.
4. This extract will be restricted to Novecare scope means ERP GBU = CS OR ZSECT00011 OR ZSECT00078.

Structure of the file:

| table     | field       | description     | detail | example           |
|-----------|-------------|-----------------|--------|-------------------|
| C_MATPLNT | PLANT       | Plant           |        | 0087              |
| C_MATPLNT | MAT_PLANT   | Material Plant. |        | 00000000000011830 |
| C_MATPLNT | MATL_STATUS | Material status |        | Z5                |

## Data loadings

### Info providers and objects loaded

Info providers which are loaded are shared with other applications.

Once they are loaded, the big abap report Z\_PVELOCITY is launched 3 times with the 3 different variants to generate 3 sets of files for the 3 different periods.

### Files generated

The files which are generated are for the current month, the previous month and even month -2 in order to have all the cost corrections.

The specific folder is visible in AL11 transaction and is /exploit/BW/CIS

**Directory: /exploit/BW/CIS**

| Useable | View... | Chang... | Length   | Owner  | Lastchange | Lastchan... | File Name                    |
|---------|---------|----------|----------|--------|------------|-------------|------------------------------|
| X       |         |          | 2721890  | wbpadm | 04.07.2016 | 08:45:08    | VC--20160704083239.txt       |
| X       |         |          | 39082    | wbpadm |            | 08:44:52    | COMP--20160704083239.txt     |
| X       |         |          | 14509519 | wbpadm |            |             | MATNR--20160704083239.txt    |
| X       |         |          | 44455    | wbpadm |            | 08:43:22    | IECRA--20160704083239.txt    |
| X       |         |          | 1012596  | wbpadm |            | 08:43:21    | PROFITCTR--20160704083239... |
| X       |         |          | 49102    | wbpadm |            |             | VALSTR--20160704083239.txt   |
| X       |         |          | 237889   | wbpadm |            | 08:43:18    | CDSA--20160704083239.txt     |
| X       |         |          | 1818     | wbpadm |            |             | COAREA--20160704083239.txt   |
| X       |         |          | 7549     | wbpadm |            | 08:43:15    | CD--20160704083239.txt       |
| X       |         |          | 820059   | wbpadm |            |             | MARM--20160704083239.txt     |
| X       |         |          | 203598   | wbpadm |            |             | PLANT--20160704083239.txt    |
| X       |         |          | 13104    | wbpadm |            |             | SA--20160704083239.txt       |
| X       |         |          | 5867     | wbpadm |            |             | ZSECT--20160704083239.txt    |
| X       |         |          | 387283   | wbpadm |            | 08:43:11    | CURR--20160704083239.txt     |
| X       |         |          | 10561    | wbpadm |            |             | TVAPT--20160704083239.txt    |
| X       |         |          | 1369     | wbpadm |            |             | TVFKT--20160704083239.txt    |
| X       |         |          | 142965   | wbpadm |            |             | UOM--20160704083239.txt      |
| X       |         |          | 380634   | wbpadm |            | 08:43:10    | TRANSFERS--20160704083239... |
| X       |         |          | 922426   | wbpadm |            | 08:40:34    | RESOURCE--20160704083239.txt |
| X       |         |          | 6705434  | wbpadm |            |             | STDCOST--20160704083239.txt  |
| X       |         |          | 2388469  | wbpadm |            | 08:40:32    | RAWP--20160704083239.txt     |
| X       |         |          | 14889310 | wbpadm |            | 08:38:25    | PBOM--20160704083239.txt     |
| X       |         |          | 848277   | wbpadm |            | 08:38:09    | PROD--20160704083239.txt     |
| X       |         |          | 1897417  | wbpadm |            | 08:37:58    | RSAL--20160704083239.txt     |
| X       |         |          | 19050067 | wbpadm |            |             | SHIP--20160704083239.txt     |
| X       |         |          | 2733985  | wbpadm |            | 08:32:38    | VC--20160704081507.txt       |
| X       |         |          | 39082    | wbpadm |            | 08:32:21    | COMP--20160704081507.txt     |

There is 3 processes which will launch the same abap report (Z\_PVELOCITY) with 3 different variants:

- Z\_NOVE\_PER
- Z\_NOVE\_PER-1
- Z\_NOVE\_PER-2

**Process Display: ABAP Program**

Variant:  MAJ Novecare current period

Last Changed By:  Changed On:  At:

|                                                                                    |                                                                                                  |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Call Mode                                                                          | Called From                                                                                      |
| <input checked="" type="radio"/> Synchronous<br><input type="radio"/> Asynchronous | <input checked="" type="radio"/> Local<br><input type="radio"/> Destination <input type="text"/> |

Program to Call

☒ Program

Program Name:

Program Variant:

☐ Scheduled Program

Event:

Parameters:

For each Variant, we have the following information to set:

**Programme de création de fichiers pour PVelocity/Ospiate**

Selection Parameters

Parameters

Plant

Beginning fiscal period : ☒

Ending fiscal period : ☒

Materials to Delete PBOM

Materials to Delete Others

**Beginning fiscal period** and **Ending fiscal period** are automatically set to the correct value via a variable.

**Plant:** They are the plant belonging to Novecare GBU, some of them are shared with other GBUs

**Material to Delete PBOM:** They are material which are not extracted to the PBOM file

**Material to Delete Others:** They are material which are not extracted to the SHIP and RSAL files

All the values of the variant are also included in this GSheet: [https://drive.google.com/drive/folders/1\\_h23A4P8kaLgiT1gV1R-hck4ReDKp\\_fs](https://drive.google.com/drive/folders/1_h23A4P8kaLgiT1gV1R-hck4ReDKp_fs)

## Loading frequency

There is a dedicated process chain to load specific data or to update the target where we need to generate the files and it generated the file launching a big abap report.

| 040 - TRANSVERSE - Chains for interfaces - file: INTERFACES |                    |                   |   | Change |
|-------------------------------------------------------------|--------------------|-------------------|---|--------|
| •                                                           | GENERATE EHS FILES | EHS_FILES         | = | Change |
| ▶                                                           | Integrated Margin  | RSP_COPCP_MONT... | = | Change |
| ▶                                                           | PVELOCITY          | RSP_PVELOCITY     | = | Change |

The process chain is launched once a month, the second working day at 07:00 CET.

Workday/time

Factory calendar

Workday

Time

Do not execute before

Workday relative to

☒ Beginning of month

☐ End of month

Period

Months

## Reporting

No direct reporting on this application, just a hub to generate flat files

## Planned Evolution

Nothing is planned as evolution

# Maintenance

This application is not requested a lot of maintenance, it is stable.

Once a year, we have to delete the historical files because they are consuming space in the folder.