

BOM explosion with intermediates (PF1 explanations)

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General presentation

Objective of the application

You can find documentation on the existing data flow [here](#) (solvay link) or [here](#) (syesqo link).

The objective of this new composite provider CPPURM04 "BOM explosion with quantities (intermediates)" is to have in a single data flow the BOM and their intermediates..

He's composed by WP1 data (ABPURM02 - BOM explosion (WP1)) and new adso, explained below, for PF1 data (ABPURM04 - BOM explosion "Intermediates" (PF1)).

Dataflow overview

▼ BOM explosion with quantities (intermediates)	CPPURM04
▼ BOM explosion "Intermediates" (PF1)	ABPURM04
▼ TRSF: APPUPRIC -> ABPURM04	0COK43JHAF4N13UT7SDPQYBFOBEEZGL
▼ Price - Details by RM (PF1)	APPUPRIC
▼ RSDS DTS_CO_PRICE_RM SF1ODPC020 -> ADSO APPUPRIC	0QZ2JG341O4QJCSZY6GPA7WNPV05106
• Price Simulation - Details by RM	DTS_CO_PRICE_RM
▶ Data Transfer Processes	APPUPRIC
▼ Data Transfer Processes	ABPURM04
▶ DTP: APPUPRIC -> ABPURM04 - Delta	DTP_04B9BB0HZDMRBWX15GRMID27M

Functional and Technical rules on Workbench + Reporting

Rules & Explanations

For PF1 aDSO ABPURM04, the data come from aDSO APPUPRIC loaded by datasource DTS_CO_PRICE_RM linked to table ZCO_PRICE_RM in PF1 (this table is generated with program ZCO_PRICE_SIMULATION in PF1).

The DTP DTP: APPUPRIC -> ABPURM04 - Delta contain **semantic group** on LOGSYS, FISCPER, C_PLANT and C_MATNR2.

In transformation TRSF: APPUPRIC -> ABPURM04 some rules are applied:

Start routine:

- Conversion of quantities in KG.

End routine:

- With help of IMEP data (abcopp01) the intermediate product (C_MATNR2) is updated with also others fields: QUS quantity, BOM Component, Level, Exclude Intermediates or Activity/Balancing (C_EXACBMO), Medium Description(C_TXTMD) . You can find an illustration of the code step by step with an example [here](#).

To resume, the logic is: 1) find the intermediate product on imep data (abcopp01) in function of the finished material / plant in BOM data (ABPURM04).

2) Is in intermediates product / plant are found, add them it in BOM data.

3) search again on IMEP data but not with BOM data, but with intermediates product and plant found previously.

- "Finished Material Cost Object" (c_cstobj) and "cost object in raw mat cost object" (c_kstrg4) are calculated from master data C_MATPNT2 with field c_kstrg4 in function of finished material or raw material and associated plants (the cost object for raw material is calculated only if flag intermediate (c_intm) = 'X').
- A lookup is done on EHS: WP1 and PF1 Material x Specification links aDSO (apehs036) to take the product hierarchy (prdha) with help of finished material.

Dependencies with other applications

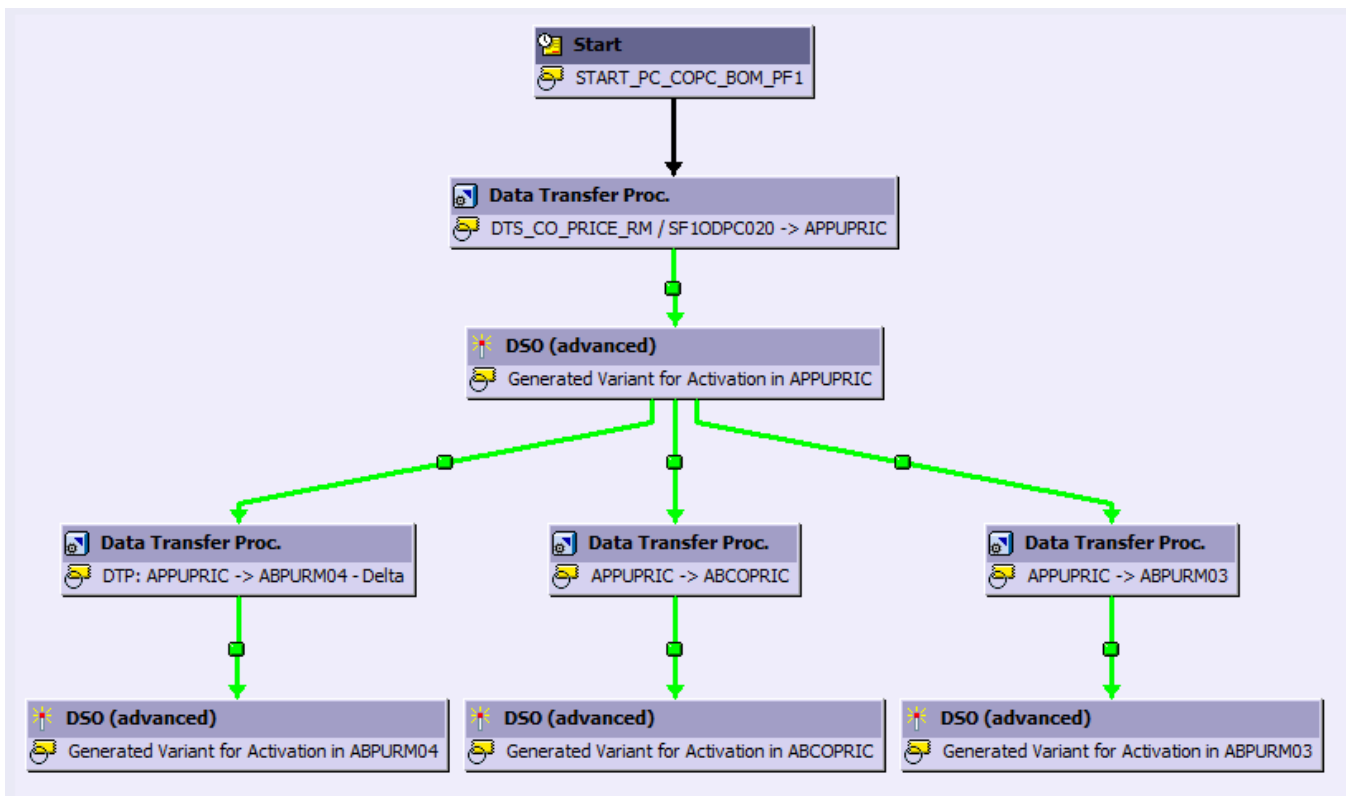
Dependencies with:

- IMEP: abcopp01
- Material x Specification links: apehs036
- Master data C_MATPNT2

Data loadings

Loading frequency

aDSO ABPURM04 is loaded in process chain PC_COPC_BOM_PF1



















Reporting

Query DE_BW_QRY_CPPURM04_0001 "BOM explosion with quantities (Intermediates)" is used by Xtract to build the PCF dashboard.

Filters:

Filter: Fixed Values

- ▼  [0FISCVARNT] Fiscal year variant
 -  [K4] Calendar year, 4 spec. periods
- ▼  [C_PLANT_C_AUTHMA] Authorization Scope
 -  [V_C_PLANT_C_AUTHMA_002] Auth Scope on Plant (Auth with input)
- ▼  [CPFCTR1_2] BFC Global Business Unit
 -  [V_CPFCTR1_2_0006] GBU (Select Optional, Optional, Auth)
- ▼  [C_PLANT] Plant
 -  [V_C_PLANT_0010] Plant (Selection Option, Optional)
- ▼  [C_MATNR2] Finished Material
 -  [V_C_MATNR2_0001] Material (Select option, Optional)
- ▼  [OLOGSYS] Source System
 -  [V_LOGSYS_0006] Source system (Selection option)
- ▼  [0FISCPER] Fiscal year / period
 -  [V_FISCPER_0002] Fiscal year/Period (Selection option)
- ▼  [C_BOMCPT] Raw Material
 -  [#] #

Key figures, rows and free characteristics:

Columns

- Key Figures
 - [K_MENGECK] Quantity
 - [] Raw Mat. Quantity
 - [K_LOT_FP] Lot Size
 - [PERC] CompPercent
 - [K_QUS_QTY] QUS

Rows

- [0LOGSYS] Source System
- [C_PLANT] Plant
- [C_MATNR2] Finished Material
- [C_LVL] Level
- [C_PVPLANT] Interm. Prod. Plant
- [4CPPURM04-C_MATNR2] Intermediate Product
- [C_RWPLT2] Raw Material Plant
- [C_BOMCPT] Raw Material
- [C_INTM] Is It Intermediate?
- [0BASE_UOM] Unit

Free Characteristics

- [C_TOLL] Tolling Fee
- [CPFCTR1_2] BFC Global Business Unit
- [0FISCPER] Fiscal year / period
- [C_TXTMD] Medium Description
- [C_MATNR2_0MSA_USAGE] IP Security
- [C_EXACBMO] Exclude Intermediates or Activity/Balancing mvts?
- [C_KSTRG4] Raw Mat. Cost Object
- [4CPPURM04-C_CSTOBJ] Finished Material Cost Object
- [C_PRODHIE] Product Hierarchy

With "PERC" = $\text{NODIM}([\text{K_MENGECK}] \text{ Quantity} / ([\text{K_LOT_FP}] \text{ Lot Size} * 100))$

Raw material quantity = $\text{NODIM}([\text{K_MENGECK}] \text{ Quantity})$.

Maintenance

Planned Evolution

Finish the calcul of the intermediate product for cases where the plant of the intermediate is not the same as plant from finished material.