

Technical Documentation - Transfer Price historical sales

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Access Management

Roles & Access

List of application role + menu role and explanation if we have several applications role with specials rules.

Role Code	Role Description	Explanation
ZR_RCS_CA_M67	Transfert Price Historical Sales	Menu Role
ZBI_RCS_CO_A25	TP – Transfert Price Historical Sales - End User role	Application Role

Authorization Objects

List of authorization objects mandatory for the application.

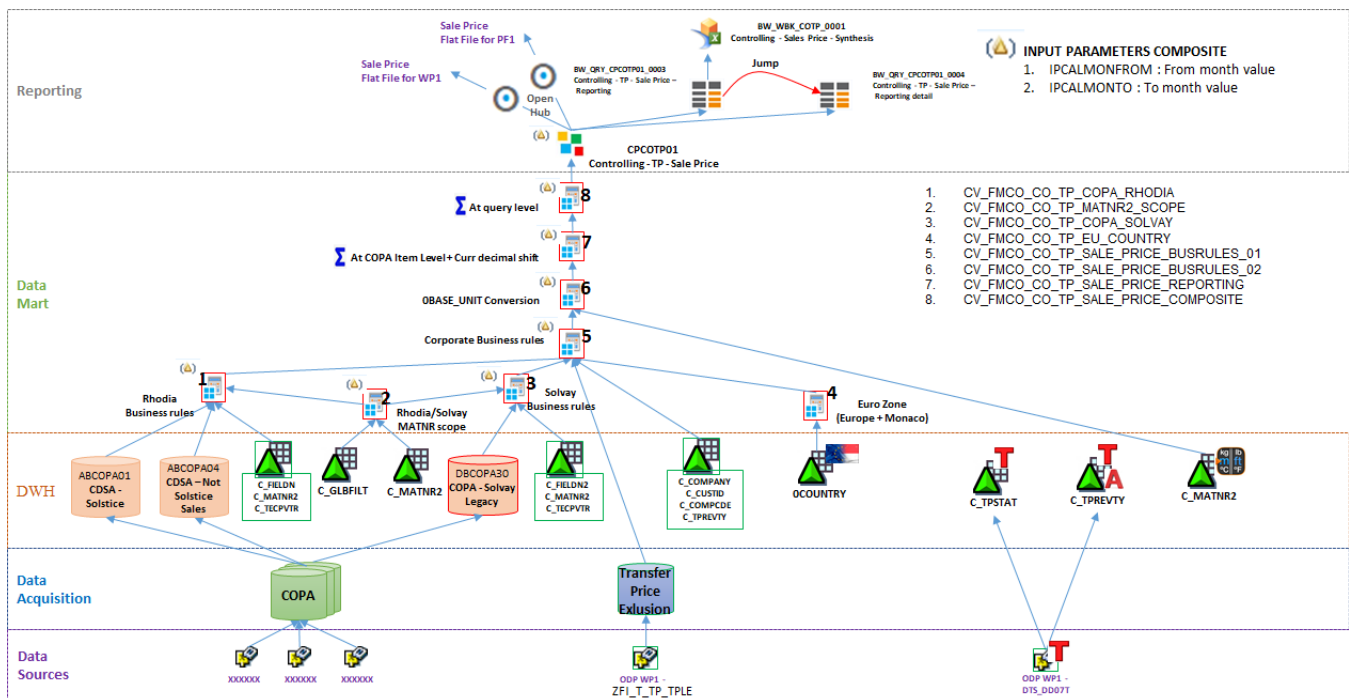
Authorization object	Explanation
CPFCTR1_2	BFC Global Business Unit ZR_*_CA_P05
C_AUTHMA	Authorization Scope ZR_*_CA_P00

See also file maintained by Authorization team :

- BW Catalog of Roles: [Authorization catalog](#)
- BW Authorization: [BW Authorizations](#)

DataFlow

Overview



List of contacts

- Charlotte Rollier (SBS Finance Service Line) : Data and Reporting Manager
- Guillaume Thevenet (SBS Information Services) : BW Coordinator

Technical Rules on Workbench

Systems involved

- Rhodia ERP WP1
- Solvay ERP PF1

Subject

Retrieved data are coming from PF1 and WP1 COPA module.

Data Model

Info providers and objects

InfoAreas

▼ SOLVAY	IA_SOLVAY
> CBS - WBS Cost Analysis	IA_SOLVAY_F_CO_CBS_PS
> Plant Maintenance	IA_S_RTR
▼ Financials Management & Controlling	IA_FMCO
> Financial Accounting	IA_FMCO_FI
▼ Controlling	IA_FMCO_CO
> Controlling - Model S	IA_FMCO_CO_MS
> IMEP-Integrated Manufacturing & Energy Performance	IA_FMCO_CO_IMEP
> Profitability Analysis	IA_FMCO_COPA
> Overhead Cost Controlling	IA_FMCO_CO_OM
> Fixed Costs	IA_FMCO_CO_FC
> Profitability Analysis (Soda Ash)	IA_FMCO_COPA_SD
▼ Controlling - Transfer Price	IA_FMCO_CO_TP
> Controlling - Transfer Price - Master Data	IA_FMCO_CO_TP_MD
> Controlling - Transfer Price - Propagation Layer	IA_FMCO_CO_TP_PROPAGATION
> Controlling - Transfer Price - Virtual Layer	IA_FMCO_CO_TP_VIRTUAL

DSOs / aDSOs

implemented by another project

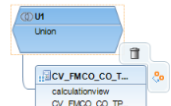
- DBCOPA30 - COPA - Solvay Legacy
- ABCOPA01 - CDSA – Solstice
- ABCOPA04 - CDSA – Not Solstice

Implemented by the Transfer Price project

- APCOTP01 - Transfer price - Entity third party Except

Composite Providers

- CPCOTP01 - Controlling - TP - Sale Price



Calculation View: CV_FMCO_CO_TP_SALE_PRICE_COMPOSITE
Namespace Solvay:IA_FMCO:IA_FMCO_CO:IA_FMCO_CO_TP
CV_FMCO_CO_TP_SALE_PRICE_COMPOSITE

- Source
- [CV_FMCO_CO_TP_SALE_PRICE_COMPOSITE] CV_FMCO_CO_TP_SALE_PRICE_CO
 - [Not Grouped] Non-Grouped Fields (7-19)
 - [AMOUNT] AMOUNT
 - [CC_CLIENT] CC_CLIENT
 - [CC_GBU] CC_GBU
 - [CC_SPEC_UNIT_CONV] CC_SPEC_UNIT_CONV
 - [CC_SRC_UNIT] CC_SRC_UNIT
 - [CC_TGT_UNIT] CC_TGT_UNIT
 - [CC_TP_CALMONTH] CC_TP_CALMONTH
 - [CC_UNIT_PRICE_TXT] CC_UNIT_PRICE_TXT
 - [CKF_AMOUNT_SRC] CKF_AMOUNT_SRC
 - [CKF_NB_OF_ITEM_F] CKF_NB_OF_ITEM_F
 - [CKF_NB_OF_ITEM] CKF_NB_OF_ITEM
 - [CKF_SRC_QTY] CKF_SRC_QTY
 - [CKF_TGT_QTY] CKF_TGT_QTY
 - [CKF_UNIT_PRICE] CKF_UNIT_PRICE
 - [CO_AREA] CO_AREA
 - [CURRENCY] CURRENCY
 - [C_COMPDE_C_AUTHMA] C_COMPDE_C_AUTHMA
 - [C_COMPDE_C_BFCCOMP] C_COMPDE_C_BFCCOMP
 - [C_MATNR2_BASE_UOM] C_MATNR2_BASE_UOM
 - [G_QVVA01] G_QVVA01
 - [G_UVVA01] G_UVVA01
 - [LOGSYS] LOGSYS
 - [L_BIC_C_MATNR2] L_BIC_C_MATNR2
 - [L_BIC_C_PABELNR] L_BIC_C_PABELNR
 - [L_BIC_C_PAPOSNR] L_BIC_C_PAPOSNR
 - [L_BIC_C_TPREVTY] L_BIC_C_TPREVTY
 - [Input Parameters] Input Parameters (1+2)
 - [IPCALMONFROM] IPCALMONFROM
 - [IPCALMONT0] IPCALMONT0
 - [IP_BW_CLIENT] IP_BW_CLIENT

- Target
- [U1] (0+0+21)
 - [DATA_FIELDS] Data Fields (0+0-13)
 - [CALMONTH] CALMONTH (0+1)
 - [LOGSYS] LOGSYS (0+1)
 - [CO_AREA] CO_AREA (0+1)
 - [C_PABELNR] C_PABELNR (0+1)
 - [C_PAPOSNR] C_PAPOSNR (0+1)
 - [C_BFCCOMP] C_BFCCOMP (0+1)
 - [C_MATNR2] C_MATNR2 (0+1)
 - [C_TPREVTY] C_TPREVTY (0+1)
 - [CURRENCY] CURRENCY (0+1)
 - [BASE_UOM] BASE_UOM (0+1)
 - [CC_GBU] CC_GBU (0+1)
 - [C_AUTHMA] C_COMPDE_C_AUTHMA (0+1)
 - [G_UVVA01] G_UVVA01 (0+1)
 - [KEY FIGURES] Key Figures (0+0+6)
 - [AMOUNT] AMOUNT (0+1)
 - [NBR_ITEM] Nbr COPA Items (0+1)
 - [NBR_ITEMF] Nbr COPA Items RecType = F (0+1)
 - [K_VVA01B] K_VVA01B (0+1)
 - [PRICE_UNIT] PRICE_UNIT (0+1)
 - [G_QVVA01] G_QVVA01 (0+1)
 - [INPUT_PARAMS] Input Parameters (0+0+2)
 - [IPCALMONFROM] IPCALMONFROM (0+1)
 - [IPCALMONT0] IPCALMONT0 (0+1)

Output: CPCOTP01

Provider Fields

Filter pattern

View Field	Associated Object
<ul style="list-style-type: none"> ▼ [DATA_FIELDS] Data Fields <ul style="list-style-type: none"> ▲ [CALMONTH] CALMONTH ▲ [LOGSYS] LOGSYS ▲ [CO_AREA] CO_AREA ▲ [C_PABELNR] C_PABELNR ▲ [C_PAPOSNR] BIC_C_PAPOSNR ▲ [C_BFCCOMP] C_BFCCOMP ▲ [C_MATNR2] C_MATNR2 ▲ [C_TPREVTY] C_TPREVTY ▲ [CURRENCY] CURRENCY ▲ [BASE_UOM] BASE_UOM ▲ [CC_GBU] CC_GBU ▲ [C_AUTHMA] C_COMPNDE_C_AUTHMA ▲ [G_UVVA01] G_UVVA01 ▼ [KEY_FIGURES] Key Figures <ul style="list-style-type: none"> ▲ [AMOUNT] AMOUNT ▲ [NB_ITEM] Nber COPA Items ▲ [NB_ITEMF] Nber COPA Items RecType = F ▲ [K_VVA01B] K_VVA01B ▲ [PRICE_UNIT] PRICE_UNIT ▲ [G_QVVA01] G_QVVA01 ▼ [INPUT_PARAMS] Input Parameters <ul style="list-style-type: none"> ▲ [IPCALMONFROM] IPCALMONFROM ▲ [IPCALMONTTO] IPCALMONTTO 	<ul style="list-style-type: none"> ▲ OCALMONTH ▲ OLOGSYS ▲ OCO AREA ▲ C_PABELNR ▲ C_PAPOSNR ▲ C_BFCCOMP ▲ C_MATNR2 ▲ C_TPREVTY ▲ OCURRENCY ▲ OBASE UOM ▲ CPFCTR1_2 ▲ C_AUTHMA ▲ OG_UVVA01 ▲ OAMOUNT ▲ K_LINENB ▲ K_LINENBF ▲ K_VVA01B ▲ OPRICE_UNIT ▲ OG_QVVA01 ▲ OCALMONTH ▲ OCALMONTH

Main Master Data

- C_TPREVTY – Revenue Type

Revenue type has been defined in order to segregate the different type of sales, in order to calculate the average sale price for each revenue type.

The revenue type is the combination of 3 components:

IOBJ	Revenu type	Partner type	Geographical Flow	Custom Duty
	C_TPREVY	C_TPPARTY	C_TPGEOFL	C_TPCUSTD
C_TPREVY	ABEURP	RP	ABEU	ID
C_TPREVY	ABEUTP	TP	ABEU	ID
C_TPREVY	ABEXRP	RP	ABEX	ID
C_TPREVY	ABEXTP	TP	ABEX	ID
C_TPREVY	DORP	RP	DOMS	ID
C_TPREVY	DORP_DF	RP	DOMS	DF
C_TPREVY	DOTP	TP	DOMS	ID
C_TPREVY	DOTP_DF	TP	DOMS	DF

- C_TPPARTY - TP Partner Type
- C_TPGEOFL - TP Geographical Flow
- C_TPCUSTD - TP Custom Duty

IOBJ	Code	texte
C_TPPARTY	RP	Related Party
C_TPPARTY	TP	Third Party
C_TPGEOFL	ABEX	Abroad-export
C_TPGEOFL	ABEU	Abroad-Eudel
C_TPGEOFL	DOMS	Domestic
C_TPCUSTD	DF	Duty Free
C_TPCUSTD	ID	Included custom duties

Main Master Data & Business Rules

- **C_TPPARTY - TP Partner Type**

Business Rule : If trading partner (C_PCOMPAN) not empty and consolidation method different from 90 sold and BFC Company of the Trading partner (C_COMPANY__0COMPANY) not found in exception table (!\ Posting date in Valid From and Valid To of exclusion table => Related Party

Else => Third Party

- **C_TPGEOFL - TP Geographical Flow**

Business Rule : We will compare :

- the recipient country (ship to customer country) C_SHIPID_0COUNTRY
- And the country of the selling company (company code country):C_PCOMPRS__0COUNTRY (= C_COMPCDE__0COUNTRY)
- Abroad-export :both countries are different and one of them at least is outside E.U.
- Abroad-EU : both countries are different and inside E.U.
- Domestic (same country)

- **C_TPCUSTD - TP Custom Duty**

The third distinction is only for chinese companies

If the company code is not a chinese company (C_PCOMPRS__0COUNTRY or C_COMPCDE__0COUNTRY <> CN) => domestic included duties

If the company code (C_COMPRS) is a chinese company ; to split the domestic line by "included customs duties" or "duty free", based on:

- the invoicing currency (0DOC_CURRENCY) <> Local company currency(C_COMPRS_0CURRENCY) => domestic duty free
- the invoicing currency = local company currency (CNY), the legal entity is SSP CHANGSHU (5991) and the customer is related party => domestic duty free
- other cases => domestic included duties

- **C_GLBFLT - Global Filter**

The global filter has been used in order to manage some parameters :

Table: /BIC/PC_GLBFILT

/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFILT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE
TP_SP	BWCLIENT	001	A		BW Clein tFor HANA	I	EQ	400		Y
TP_SP	CALCNBPER	001	A		Nb of Calculation period	I	EQ	3		Y
TP_SP	EXTRPERIOD	001	A		Recovery Extract Period	I	EQ			N
TP_SP	MATNR_WX1	001	A		Exclude MATNR2 Z710	E	EQ	Z710		Y
TP_SP	MATNR_WX1	002	A		Exclude MATNR2 ZDIE	E	EQ	ZDIE		Y
TP_SP	MATNR_WX1	003	A		Exclude MATNR2 ZNLA	E	EQ	ZNLA		Y
TP_SP	MATNR_WX1	004	A		Exclude MATNR2 ZUNB	E	EQ	ZUNB		Y
TP_SP	MATNR_XF1	001	A		Exclude MATNR2 Z710	E	EQ	Z710		Y
TP_SP	MATNR_XF1	002	A		Exclude MATNR2 ZR09	E	EQ	ZR09		Y
TP_SP	MATNR_XF1	003	A		Exclude MATNR2 Z709	E	EQ	Z709		Y
TP_SP	OFFSET	001	A		Nb of Month OFFSET	I	EQ	1		Y

- MATNR_WX1 : allows to manage some Material Type exclusion for WP1 line
- MATNR_XF1 : allows to manage some Material Type exclusion for XF1 line
- EXTRPERIOD : allows to manage the recovery period for the file extraction done in PC_FMCO_TP_01
- CALCNBPER : allows to manage the number of used periods during the Average Sale Price Calculation
- OFFSET : allows to manage the number of month take in account by Material, plant and Company type into the "CALCNBPER" selection. IF OFFSET= CALCNBPER, the OFFSET parameter have no impact

CALCNBPER (4) & OFFSET (2) parameters example

Ex 1	Month = 4 (current month = May) / Offset = 2				
Sales	Apr	Mar	Feb	Jan	Result (SUM)
Material					
M1	10	10	10		20
M2		10	10		20
M3			10	10	20
M4				10	10
M5		10		10	10

Main Extractors

Transactional data extractors

- Transactional data was already available in the COPA data model, no new transactional extractor has been activated. More information on AB COPA01, ABCOPA04 and DBCOPA30 in [P&L documentation](#).

Master data extractors

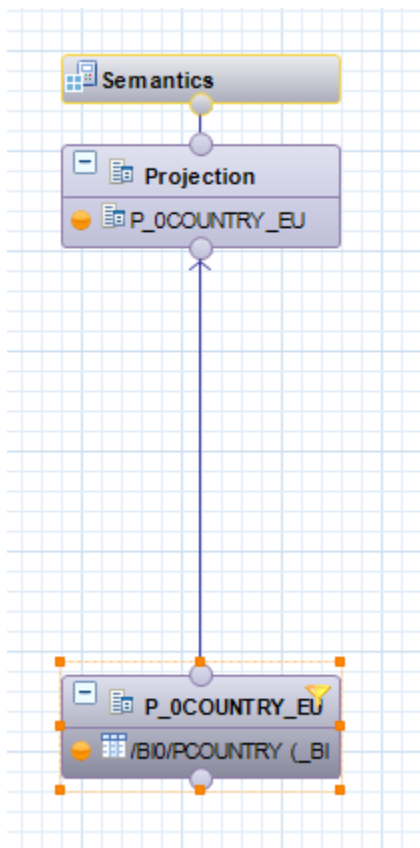
- DTS_DD07T through ODP from WP1 in order to populate info objects' texts like C_TPSTAT and C_TPREVTY

Data Flow

As shown in the architecture schema, the Sale Price application is based on an hybrid achitecture HANA Calculation feeding a BW composite provider. The the composite provider is used for bith extraction and reporting purpose.

HANA Calculation views

- CV_FMCO_CO_TP_EU_COUNTRY



This calculation view provide all contries belonging to EU, including Monaco which in not considered as a EU member in ECC T005 table.
 this is done through the folling filter expression :

Edit Filter Expression for P_0COUNTRY_EU

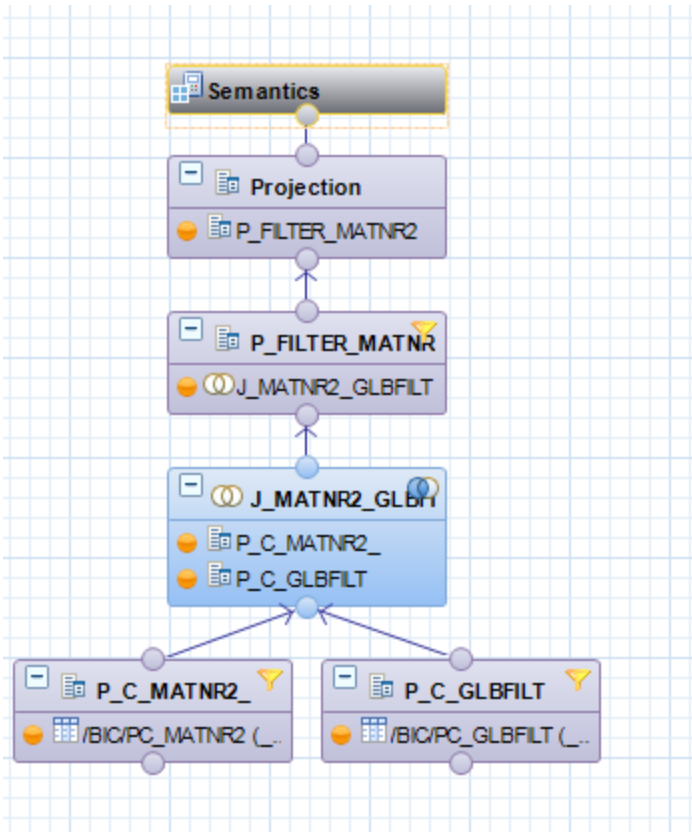
Filters applied on the columns are executed after performing all the operations defined in a view.

Expression Editor

Edit... Language: Column Engine

```
(( "C_XEGLD" = 'X' ) OR ( "COUNTRY" = 'MC' )) AND "OBJVERS" = 'A'
```

- CV_FMCO_CO_TP_MATNR2_SCOPE

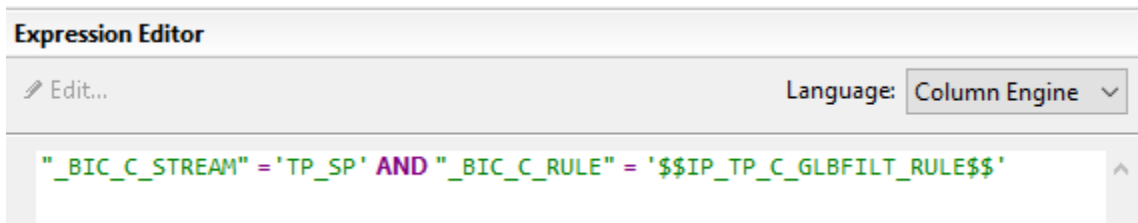


This calculation view provides the scope of MATERIAL that have to be taken into account, after application of the exclusion MATL_TYPE managed through the global filter table.

Table: /BIC/PC_GLBFLT

	/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVE...	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE
	TP_SP	MATNR_WX1		001 A		Exclude MATNR2 Z710	E	EQ	Z710		Y
	TP_SP	MATNR_WX1		002 A		Exclude MATNR2 ZDIE	E	EQ	ZDIE		Y
	TP_SP	MATNR_WX1		003 A		Exclude MATNR2 ZNLA	E	EQ	ZNLA		Y
	TP_SP	MATNR_WX1		004 A		Exclude MATNR2 ZUNB	E	EQ	ZUNB		Y
	TP_SP	MATNR_XF1		001 A		Exclude MATNR2 Z710	E	EQ	Z710		Y
	TP_SP	MATNR_XF1		002 A		Exclude MATNR2 ZR09	E	EQ	ZR09		Y
	TP_SP	MATNR_XF1		003 A		Exclude MATNR2 Z709	E	EQ	Z709		Y

The restriction is done through the following filter expression

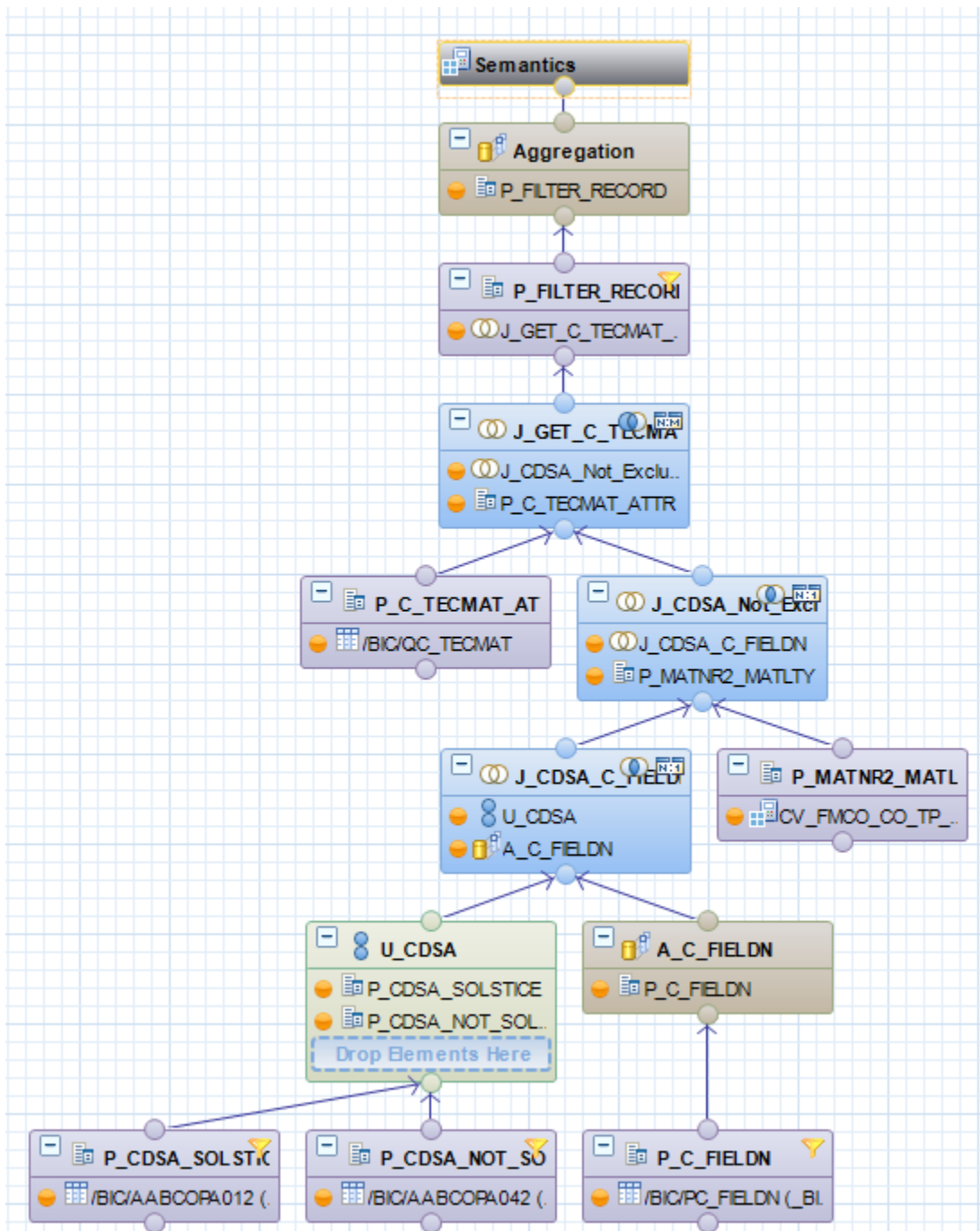


Where IP_TP_C_GLBFLT_RULE is an input parameter populated by the master view which embeds the current view either :

- CV_FMCO_CO_TP_COPA_RHODIA
- CV_FMCO_CO_TP_COPA_SOLVAY

The parameter is populated by a constant in the calculation view input parameter mapping.

- CV_FMCO_CO_TP_COPA_RHODIA :



this Calculation views takes in charge

- all the Rhodia specific business rules in particular
- UNION of data coming from the different SOLSTICE aDSOs
 - Value Field restriction based on C_FIELDN master data
 - GBU recovery using C_TECMAT attributes
 - the restriction on Material scope based on CV_FMCO_CO_TP_MATNR2_SCOPE with the following Input Parameter :

Map Variables/Input Parameters

Map the Data Sources/Views for value help Variables/Input Parameters to the target Variables/Input Parameters

Select Type: Data Sources

Variables/Input Parameters

Filter pattern

- Solvay.IA_FMCO.IA_FMCO_CO.IA_FMCO_CO_TP::CV_FMCO_CO_TP_MATNR2_SCOPE (IP_TP_C_GLBFLT_RULE)

Calculation view Variables/Input Parameters

Filter pattern

- IPCALMONFROM
- IPCALMONTA
- MATNR_WX1

- In addition, there is a restriction on the scope of COPA document based on the following filter :

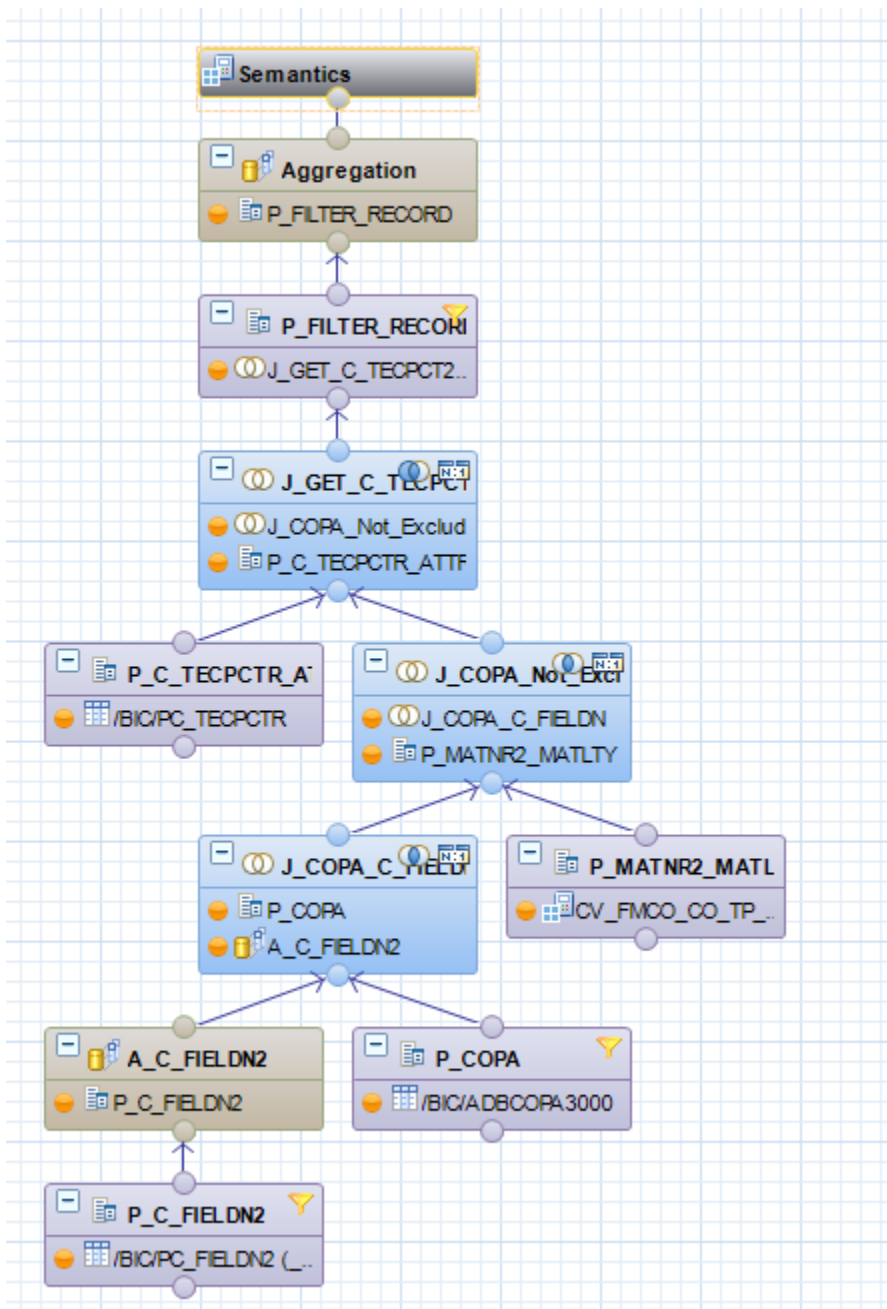
```
("CALMONTH" >= '$$IPCALMONFROM$$' AND "CALMONTH" <= '$$IPCALMONTA$$') and "REC_TYPE" != 'X'
```

where Input parameters are driven either by DTP or Query exit variables and related BADIs

Display View "BI-Utils 001: Variablemaintenance":

Variable Name	Class/Interface	S
V_IPCALMONTA_0001	L_BIU001_V_IPCALMONTA_0001	TI
V_IPCALMONTA_0002	ZCL_BIU001_V_IPCALMONTA_0002	TI

- CV_FMCO_CO_TP_COPA_SOLVAY



this Calculation views takes in charge

- all the Rhodia specific business rules in particular
 - Value Field restriction based on C_FIELDN2 master data
 - GBU recovery using C_TECPCTR attributes
 - the restriction on Material scope based on CV_FMCO_CO_TP_MATNR2_SCOPE with the following Input Parameter :

Manage Mappings

Map Variables/Input Parameters

Map the Data Sources/Views for value help Variables/Input Parameters to the target Variables/Input Parameters

Select Type: Data Sources

Variables/Input Parameters

Filter pattern

- Solvay:IA_FMCO.IA_FMCO_CO.IA_FMCO_CO_TP::CV_FMCO_CO_TP_MATNR2_SCOPE
 - IP_TP_C_GLBFLT_RULE

Calculation view Variables/Input Parameters

Filter pattern

- IPCALMONFROM
- IPCALMONT0
- MATNR_XF1

- In addition, there is a restriction on the scope of COPA document based on the following filter :

```

("CALMONTH" >= '$$IPCALMONFROM$$' AND "CALMONTH" <= '$$IPCALMONT0$$') and
"REC_TYPE" != 'X'

```

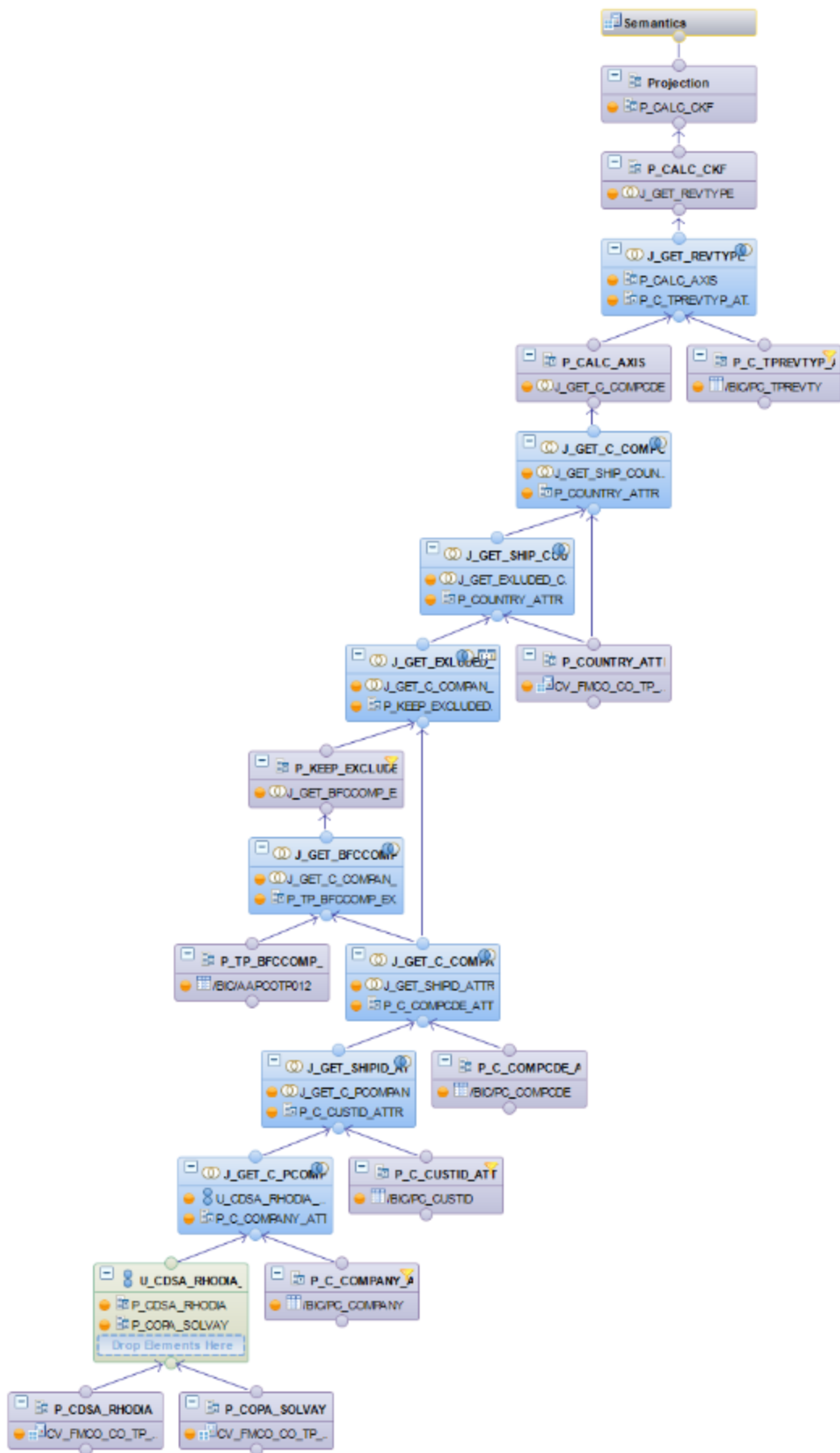
where Input parameters are driven either by DTP or Query exit variables and related BADIs

Display View "BI-Utills 001: Variablemaintenance":

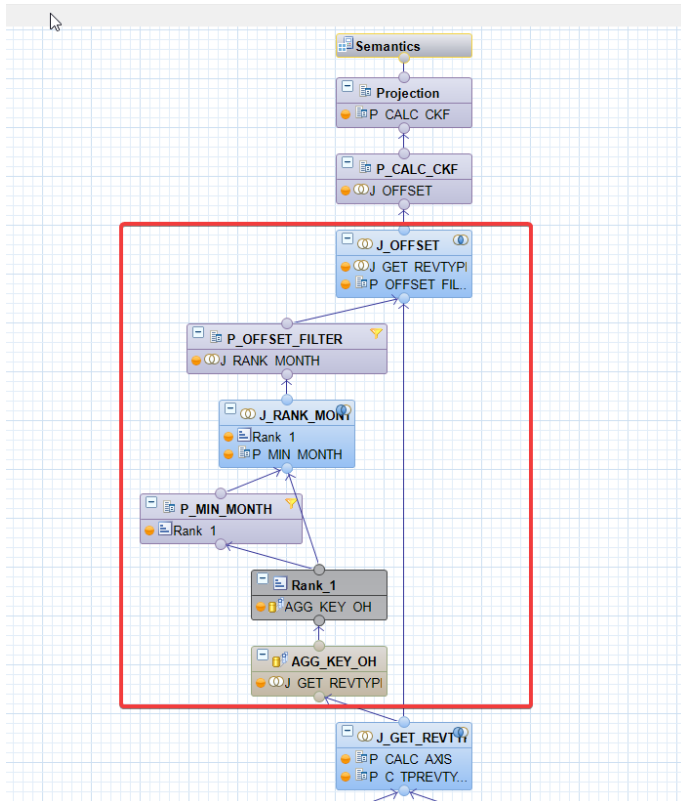
BI-Utills 001: Variablemaintenance

Variable Name	Class/Interface	S
V_IPCALMONT0_0001	L_BIU001_V_IPCALMONT0_0001	TI
V_IPCALMONT0_0002	ZCL_BIU001_V_IPCALMONT0_0002	TI

- CV_FMCO_CO_TP_SALE_PRICE_BUSRULES_01



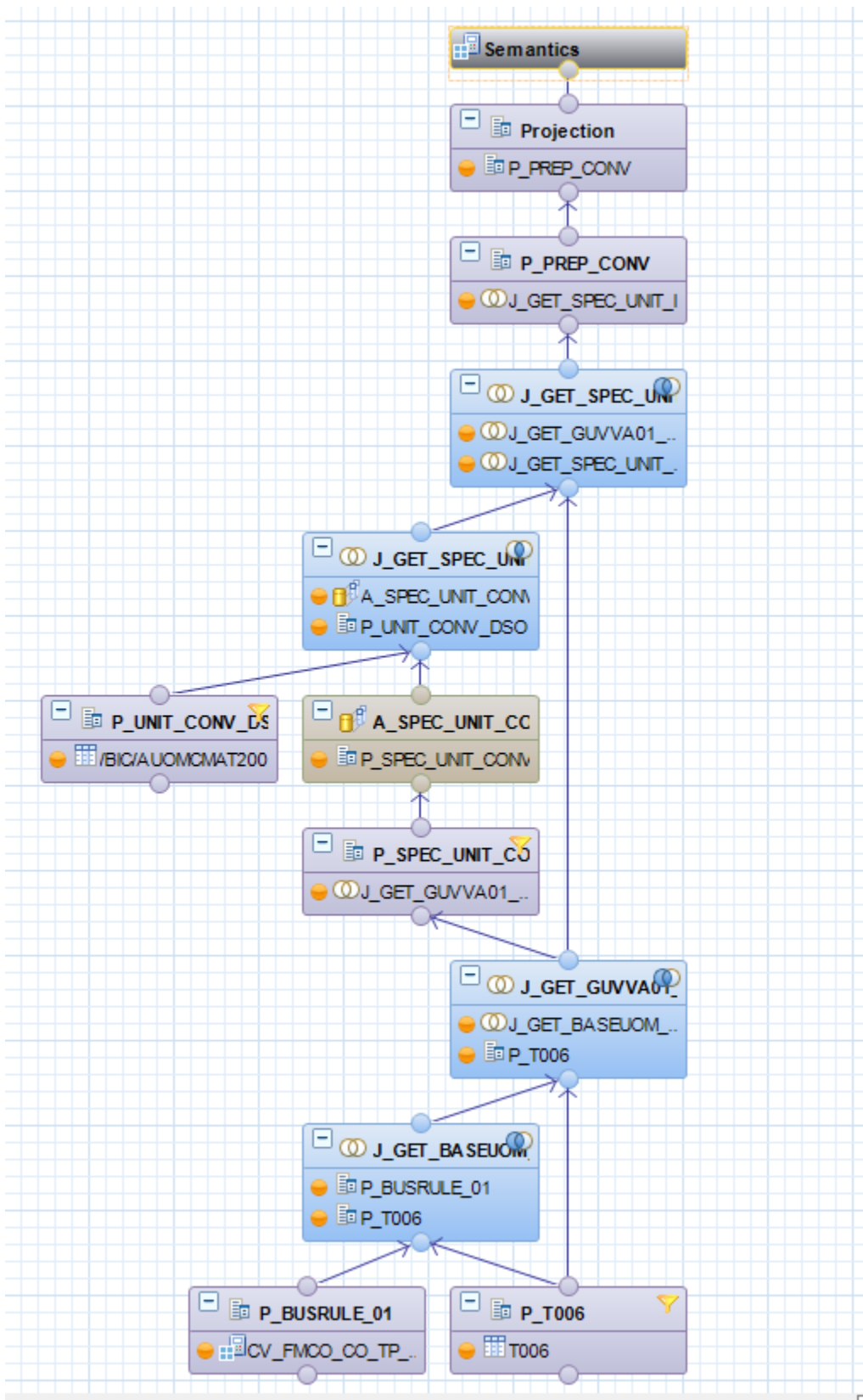
- CV_FMCO_CO_TP_SALE_PRICE_BUSRULES_01 - New block for OFFSET parameter restriction



This calculation view

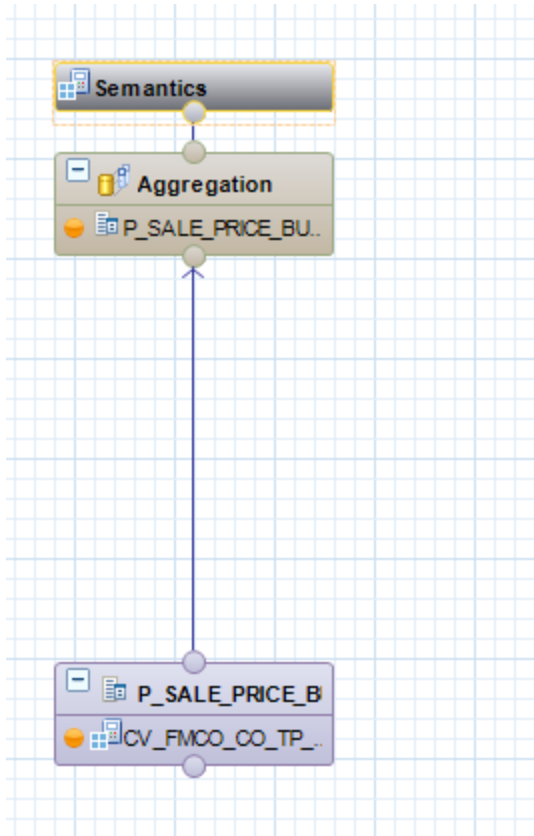
- merges the data RHODIA and SOLVAY data coming from the specific sub views
- enriches the data in order to apply the corporate business rules,
 - Axis of analysis claudation in particular the REVENUE TYPE and its compoundings
 - KPI calculation
- Restrict data by month by keys from the offset parameters

- CV_FMCO_CO_TP_SALE_PRICE_BUSRULES_02



This calculation view takes in charge all the UNIT CONVERSION logic using joins with T006 and UOMCMAT2 DSO.

- CV_FMCO_CO_TP_SALE_PRICE_REPORTING



This view

- manages the aggregation at the COPA item document level, using the KEEP_FLAG option on the relevant fields, in order to insure the consistency of the KPI calculation in the upper level.
- applies the HANA standard conversion function on :
 - UNIT (based on KPI calculated in CV_FMCO_CO_TP_SALE_PRICE_BUSRULES_02
 - CURRENCY in order to manage the Decimal Shift properly

the customizing is done in the semantic layer using semantic functions

Details

Columns(26) View Properties Hierarchies Parameters/Variables(3)

Local

Show: All



Type	Key	Name	Label	Aggregation	Variable	Semantic Type
	<input type="checkbox"/>	AB CC_TP_CALMONTH	CC_TP_C...		▼	
	<input type="checkbox"/>	AB LOGSYS	LOGSYS		▼	
	<input type="checkbox"/>	AB CO_AREA			▼	
	<input type="checkbox"/>	AB C_COMPNDE_C_BFCOMP	C_COMP...		▼	
	<input type="checkbox"/>	AB _BIC_C_MATNR2	_BIC_C_M...		▼	
	<input type="checkbox"/>	AB CURRENCY	CURRENCY		▼	
	<input type="checkbox"/>	AB _BIC_C_TPREVTY	_BIC_C_T...		▼	
	<input type="checkbox"/>	AB C_MATNR2_BASE_UOM	C_MATN...		▼	
	<input type="checkbox"/>	AB _BIC_C_PAPOSNR	_BIC_C_P...		▼	
	<input type="checkbox"/>	AB _BIC_C_PABELNR	_BIC_C_P...		▼	
	<input type="checkbox"/>	AB G_UVVA01	G_UVVA01		▼	
	<input checked="" type="checkbox"/>	12 AMOUNT	AMOUNT	Sum		Amount with Currency Code
	<input type="checkbox"/>	12 G_QVVA01	G_QVVA01	Sum		
	<input type="checkbox"/>	12 CKF_NB_OF_ITEM_F	CKF_NB_...	Sum		
	<input type="checkbox"/>	12 CKF_NB_OF_ITEM	CKF_NB_...	Sum		
	<input type="checkbox"/>	AB CC_GBU	CC_GBU		▼	
	<input type="checkbox"/>	AB CC_UNIT_PRICE_TXT	CC_UNIT...		▼	
	<input type="checkbox"/>	12 CKF_UNIT_PRICE	CKF_UNI...	Avg		
	<input type="checkbox"/>	AB C_COMPNDE_C_AUTHMA	C_COMP...		▼	
	<input type="checkbox"/>	AB CC_SRC_UNIT	CC_SRC_...		▼	
	<input type="checkbox"/>	AB CC_TGT_UNIT	CC_TGT_...		▼	
	<input type="checkbox"/>	12 CKF_SRC_QTY	CKF_SRC_...	Sum		
	<input type="checkbox"/>	AB CC_SPEC_UNIT_CONV	CC_SPEC...		▼	
	<input type="checkbox"/>	12 CKF_TGT_QTY	CKF_TGT_...	Sum		Quantity with Unit Of Measure
	<input type="checkbox"/>	AB CC_CLIENT	CC_CLIENT		▼	
	<input type="checkbox"/>	12 CKF_AMOUNT_SRC	CKF_AM...	Sum		

Assign Semantics

Assign a suitable semantic type and maintain additional properties depending on the chosen semantic type

Semantic Type: Amount with Currency Code

Currency: CURRENCY

Decimal shift Conversion Rounding Decimal shift back

Conversion

Schema for currency conversion:* ABAP (SAPSR3)

Client for currency conversion:* Session Client

Source Currency:*

Target Currency:*

Exchange Type:*

Conversion Date:*

Exchange Rate:*

Data Type:* DECIMAL Length: 17 Scale: 2

Generate result currency column:

Upon Conversion Failure: Fail

Semantics for CKF_TGT_QTY

Assign Semantics

Assign a suitable semantic type and maintain additional properties depending on the chosen semantic type

Semantic Type: Quantity with Unit Of Measure

Unit:

Conversion

Conversion

Schema for unit conversion:

Client for unit conversion:

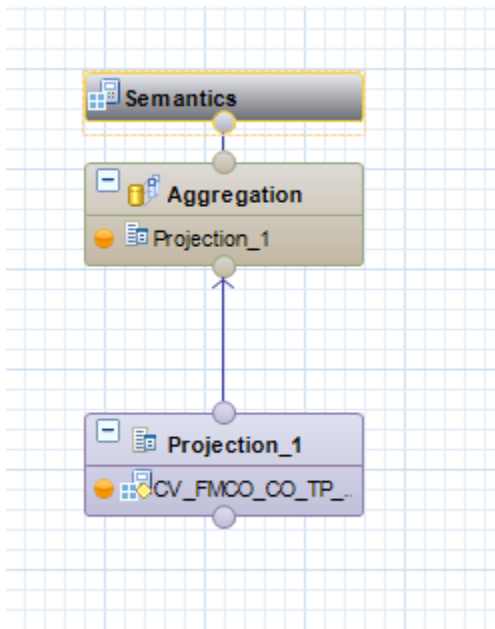
Source Unit:

Target Unit:

Generate result unit column:

Upon Conversion Failure:

- CV_FMCO_CO_TP_SALE_PRICE_COMPOSITE



This view insures the pushdown HANA of the aggregation at the level requested by the reporting layer.

Columns(26) | View Properties | Hierarchies | Parameters/Variables(3)

Local

Show: All

Type	Key	Name	Label	Aggregation	Variable
RB	<input type="checkbox"/>	CC_TP_CALMONTH	CC_TP_CALMONTH		▼
RB	<input type="checkbox"/>	LOGSYS	LOGSYS		▼
RB	<input type="checkbox"/>	CO_AREA			▼
RB	<input type="checkbox"/>	C_COMPDCDE_C_BFCCOMP	C_COMPDCDE_C_BFCCOMP		▼
RB	<input type="checkbox"/>	_BIC_C_MATNR2	_BIC_C_MATNR2		▼
RB	<input type="checkbox"/>	CURRENCY	CURRENCY		▼
RB	<input type="checkbox"/>	_BIC_C_TPREVTY	_BIC_C_TPREVTY		▼
RB	<input type="checkbox"/>	C_MATNR2_BASE_UOM	C_MATNR2_BASE_UOM		▼
RB	<input type="checkbox"/>	_BIC_C_PAPOSNR	_BIC_C_PAPOSNR		▼
RB	<input type="checkbox"/>	_BIC_C_PABELNR	_BIC_C_PABELNR		▼
RB	<input type="checkbox"/>	G_UVVA01	G_UVVA01		▼
12	<input type="checkbox"/>	AMOUNT	AMOUNT	Sum	
12	<input type="checkbox"/>	G_QVVA01	G_QVVA01	Sum	
12	<input type="checkbox"/>	CKF_NB_OF_ITEM_F	CKF_NB_OF_ITEM_F	Sum	
12	<input type="checkbox"/>	CKF_NB_OF_ITEM	CKF_NB_OF_ITEM	Sum	
RB	<input type="checkbox"/>	CC_GBU	CC_GBU		▼
RB	<input type="checkbox"/>	CC_UNIT_PRICE_TXT	CC_UNIT_PRICE_TXT		▼
12	<input type="checkbox"/>	CKF_UNIT_PRICE	CKF_UNIT_PRICE	Sum	
RB	<input type="checkbox"/>	C_COMPDCDE_C_AUTHMA	C_COMPDCDE_C_AUTHMA		▼
RB	<input type="checkbox"/>	CC_SRC_UNIT	CC_SRC_UNIT		▼
RB	<input type="checkbox"/>	CC_TGT_UNIT	CC_TGT_UNIT		▼
12	<input type="checkbox"/>	CKF_SRC_QTY	CKF_SRC_QTY	Sum	
RB	<input type="checkbox"/>	CC_SPEC_UNIT_CONV	CC_SPEC_UNIT_CONV		▼
12	<input type="checkbox"/>	CKF_TGT_QTY	CKF_TGT_QTY	Sum	
RB	<input type="checkbox"/>	CC_CLIENT	CC_CLIENT		▼
12	<input type="checkbox"/>	CKF_AMOUNT_SRC	CKF_AMOUNT_SRC	Sum	

Reporting

Queries End User Documentation

Queries

Query	Description
BW_QRY_CPCOTP01_0001	Controlling - TP - Sale Price - ECC RCS Extract
BW_QRY_CPCOTP01_0002	Controlling - TP - Sale Price - ECC SOLVAY Extract
BW_QRY_CPCOTP01_0003	Controlling - TP - Sale Price – Reporting
BW_QRY_CPCOTP01_0004	Controlling - TP - Sale Price – Reporting detail

Workbooks

Workbook	Description
BW_WBK_COTP_0001	Controlling - Sales Price - Synthesis
BW_WBK_COTP_0002	Controlling - Sales Price - Detail

The query BW_QRY_CPCOTP01_0003 has been embedded in the BW_WBK_COTP_0001, in order to both :

- manage the layout respecting the finance corporate identity.

Month/Year	Logic System	BFC Company	Global Business Unit	Material	Revenue Type	Currency	Base UOM	Total Sales Amount	Qty In Material Base UOM	Unit Sale Price	Price unit	Nber COPA Items	Nber COPA Items RecType = F
04 2019	DF1 Client 020	1	SOLVAY (SCH)	PEROXIDES	22517 DIBC 'DV	ABEURP	EUR KG	472 366,08 EUR	54 678 KG	8 639,000	1 000	3	3
04 2019	DF1 Client 020	1	SOLVAY (SCH)	PEROXIDES	22517 DIBC 'DV	ABEXRP	EUR KG	2 396 683,20 EUR	281 155 KG	8 525,127	1 000	17	17
04 2019	DF1 Client 020	1	SOLVAY (SCH)	PEROXIDES	22517 DIBC 'DV	DOBP	EUR KG	1 119 855,83 EUR	129 640 KG	8 639,000	1 000	7	7
04 2019	DF1 Client 020	1	SOLVAY (SCH)	PEROXIDES	102959 E0.ETHYL ANTHRAQUINONE *BB600	ABEURP	EUR KG	305 604,00 EUR	12 800 KG	23 417,000	1 000	1	1
04 2019	DF1 Client 020	1	SOLVAY (SCH)	PEROXIDES	102967 2-MCHA *GR	ABEURP	EUR KG	98 816,64 EUR	23 040 KG	4 292,111	1 000	2	2
04 2019	DF1 Client 020	1	SOLVAY (SCH)	PEROXIDES	102967 2-MCHA *GR	ABEXRP	EUR KG	284 619,53 EUR	75 120 KG	3 788,865	1 000	4	4

- provide some technical information, in case of off line broadcast

A	B	C	D	E	F	G
	Variable			Technical Name		
	Current Calmonth Pre-filled (Exit Single mandatory)	APR 2019		Nom source données	Controlling - TP - Sale Price - Reporting	
	TP - SP - Reporting Calmonth From	JAN 2019		Nom technique de la requête	BW_QRY_CPCOTP01_0003	
	TP - SP - Reporting Calmonth To	MAR 2019		Nom technique InfoProvider	CPCOTP01	

Jump

A query jump has been customized from the Synthesis Query to the detailed one, in order to allow the user to get the detail at the Item COPA document level for a specific record of the synthesis.

Month	Year	Global Business Unit	Material	Revenue Type	Currency	Base UOM	Total Sales Amount	Qty In Material Base UOM	Unit Sale Price	Price unit	Nber COPA Items	Nber COPA Items RecType = F
04	2019	PEROXIDES	22517	DIBC *DIV	ABEURP	KG	472.366,08 EUR	64.678 KG	8.639,000	1.000		1
04	2019	SOLVAY (SCH)	22517	DIBC *DIV	ABEXRP	EUR	2.396.883,28 EUR	281.155 KG	8.525,127	1.000	17	17
04	2019	SOLVAY (SCH)	22517	DIBC *DIV	DORP	EUR	1.119.955,93 EUR	129.640 KG	8.639,000	1.000	7	7
04	2019	SOLVAY (SCH)	102969	EQ ETHYL ANTHRACQUINONE * BB500	ABEURP	EUR	305.004,00 EUR	12.000 KG	25.417,000	1.000	1	1
04	2019	SOLVAY (SCH)	102967	2-MICHA * GR	ABEURP	EUR	96.816,64 EUR	23.040 KG	4.202,111	1.000	2	2
04	2019	SOLVAY (SCH)	102967	2-MICHA * GR	ABEXRP	EUR	294.619,53 EUR	75.120 KG	3.789,865	1.000	4	4
04	2019	SOLVAY CHEM INT	14886	Chlorure Al reads *LH	ABEUTP	EUR	29.701,61 EUR	1.129.340 KG	26,300	1.000	51	51
04	2019	SOLVAY CHEM INT	19944	CH Na 98 *PO	ABEUTP	EUR	1.833.768,62 EUR	4.053.860 KG	452,351	1.000	168	168
04	2019	SOLVAY CHEM INT	35027	H2O2 ST-300	ABEUTP	EUR	11.999,62 EUR	49.180 KG	244,000	1.000	5	5
04	2019	SOLVAY CHEM INT	35027	H2O2 ST-300	ABEXTP	EUR	2.275,20 EUR	14.220 KG	160,000	1.000	1	1
04	2019	SOLVAY CHEM INT	35028	H2O2 ST-350	ABEUTP	EUR	868.584,49 EUR	3.228.640 KG	266,921	1.000	155	155
04	2019	SOLVAY CHEM INT	35028	H2O2 ST-350	ABEXTP	EUR	481.196,24 EUR	1.967.960 KG	238,558	1.000	93	93
04	2019	SOLVAY CHEM INT	35028	H2O2 ST-350	DORP	EUR	44.282,18 EUR	218.300 KG	202,860	1.000	9	9
04	2019	SOLVAY CHEM INT	35028	H2O2 ST-350	DOTP	EUR	93.141,27 EUR	457.680 KG	203,597	1.000	26	26
04	2019	SOLVAY CHEM INT	35029	H2O2 ST-500	ABEUTP	EUR	11.119.091,13 EUR	37.418.688 KG	297,153	1.000	1.214	1.214
04	2019	SOLVAY CHEM INT	35029	H2O2 ST-500	ABEXTP	EUR	2.391.803,57 EUR	7.648.576 KG	312,712	1.000	330	330
04	2019	SOLVAY CHEM INT	35029	H2O2 ST-500	DOTP	EUR	712.594,38 EUR	2.558.940 KG	276,472	1.000	159	159
04	2019	SOLVAY CHEM INT	35030	H2O2 ST-600	ABEUTP	EUR	1.023.709,80 EUR	3.029.771 KG	337,994	1.000	80	80
04	2019	SOLVAY CHEM INT	35030	H2O2 ST-600	ABEXRP	EUR	540.789,48 EUR	870.139 KG	609,951	1.000	49	49
04	2019	SOLVAY CHEM INT	35030	H2O2 ST-600	ABEUTP	EUR	2.167.685,75 EUR	7.784.833 KG	278,458	1.000	371	367
04	2019	SOLVAY CHEM INT	35031	H2O2 ST-700	ABEURP	EUR	216.615,00 EUR	618.900 KG	350,000	1.000	25	25
04	2019	SOLVAY CHEM INT	35031	H2O2 ST-700	ABEUTP	EUR	175.217,66 EUR	391.100 KG	448,012	1.000	16	16
04	2019	SOLVAY CHEM INT	35031	H2O2 ST-700	ABEXTP	EUR	2.944.634,02 EUR	5.192.620 KG	451,571	1.000	250	250

Of course, the number of retrieved records and overall results are in aligned with the synthesis source record

Logic System	CO_AREA	BFC Company	Global Business Unit	Material	Revenue Type	COPA Document	COPA Item	Currency	Base UOM	Total Sales Amount	Qty In Material Base UOM	Unit Sale Price	Price unit	Nber COPA Items	Nber COPA Items RecType = F
DPI Client 020	CHEF	ERP SOLVAY	SOLVAY (SCH)	PEROXIDES	22517	DIBC *DIV	ABEXRP	EUR	KG	170.706,50	19.566	8.715,797	1.000	1	1
								EUR	KG	140.692,93	18.000	7.816,274	1.000	1	1
								EUR	KG	159.005,35	18.089	8.799,949	1.000	1	1
								EUR	KG	158.925,62	18.080	8.799,949	1.000	1	1
								EUR	KG	140.237.230,27	18.000	7.790.957,237	1.000	1	1
								EUR	KG	-140.237.230,27	-18.000	7.790.957,237	1.000	1	1
								EUR	KG	140.136,09	18.000	7.785,905	1.000	1	1
								EUR	KG	155.502,00	18.000	8.639,000	1.000	1	1
								EUR	KG	180.280,29	20.513	8.788,400	1.000	1	1
								EUR	KG	141.188,91	18.000	7.843,828	1.000	1	1
								EUR	KG	162.774,56	18.934	8.582,994	1.000	1	1
								EUR	KG	167.873,71	19.114	8.782,993	1.000	1	1
								EUR	KG	175.671,75	19.994	8.786,076	1.000	1	1
								EUR	KG	141.176,47	18.000	7.843,137	1.000	1	1
								EUR	KG	166.027,35	18.997	8.786,076	1.000	1	1
								EUR	KG	164.991,17	18.779	8.786,076	1.000	1	1
								EUR	KG	171.925,58	19.568	8.786,076	1.000	1	1
								EUR	KG	2.396.883,28	281.155	8.525,127	1.000	17	17

Dependencies with other applications

Data extract (BW)

Only 2 data flows which take in charge through Open Hub of the extract of 2 Sale price's files likely to be copied respectively in WP1 and PF1.

- ◆ Controlling - Transfer Price - Virtual Layer
 - ⊙ OH Extract TP Sale Price Rhodia
 - CPCOTP01 -> OH_COTP01 Full on Ref Month
 - HCPR CPCOTP01 -> DEST OH_COTP01
 - Controlling - TP - Sale Price
 - ⊙ OH Extract TP Sale Price SOLVAY
 - CPCOTP01 -> OH_COTP02 Full on Ref Month
 - HCPR CPCOTP01 -> DEST OH_COTP02
 - Controlling - TP - Sale Price

```
IA_FMCO_CO_TP_VIRTUAL
OH_COTP01
DTP_B1FNYSNDTMCV5BBMZ1OSS9HF6
0FGA2AINA9G05XRLQH2670Q0AK1NFAC6
CPCOTP01
OH_COTP02
DTP_B1FNYSNDTMCV5BC4B7HC2POXE
0OCU5EK1F09MK0ZJLWAOF683QU THECNR
CPCOTP01
```

The DTP extract data in full mode with some restriction

The file location is /exploit/BW/TP/

fsl_tpdata_from_bw_to_erp.csv
fsl_tpdata_from_bw_to_rcs.csv

20/06/2023 : PO2 project .

In SAP Transfer Price process will be split in ECO and SCO and will take place at SPIN OFF ECO/SCO (not D1)

4 new Open hub has been added to produce the new files (1 ECO , 1 SCO per SAP system)

Controlling - Transfer Price - Virtual Layer	IA_FMCO_CO_TP_VIR	Change	InfoProviders
OH Extract TP Sale Price Rhodia	OH_COTP01	Change	
OH Extract TP Sale Price Rhodia ECO	OH_TP1_EC	Change	
OH Extract TP Sale Price Rhodia SCO	OH_TP1_SC	Change	
OH Extract TP Sale Price SOLVAY	OH_COTP02	Change	
OH Extract TP Sale Price SOLVAY ECO	OH_TP2_EC	Change	
OH Extract TP Sale Price SOLVAY SCO	OH_TP2_SC	Change	

The structure of the files has been modified compared to SOLVAY one : Authorization object has been added.

Moreover , we apply a filter on the Authorization scope (C_COMPDE_C_AUTHMA) when files are generated (filter in the DTP)

The file location is also /exploit/BW/TP/

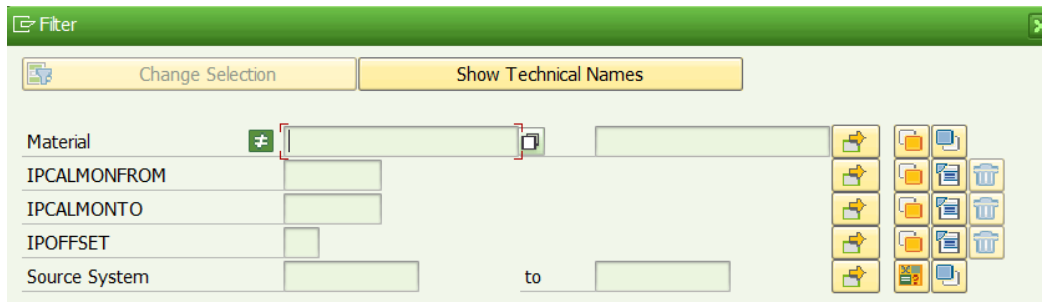
fsl_tpdata_from_bw_to_erp_eco.csv

fsl_tpdata_from_bw_to_erp_sco.csv

fsl_tpdata_from_bw_to_rcs_eco.csv

fsl_tpdata_from_bw_to_rcs_sco.csv

The loading is scheduled by PC_PC_FMCO_TP_01 on 3rd working day each month at 5:30



MATERIAL : must be different the **Initial**

SOURCE SYSTEM :

- For Rhodia is driven by the following OLAP variable **V_0LOGSYS_0011**
- For Solvay is driven by the following OLAP variable **V_0LOGSYS_0012**

INPUT PARAMETERS IPCALMONFROM & IPCALMONTTO :

- Are calculated using global filters parameters EXTRPERIOD and CALCNBPER.
- if EXTRPERIOD is active (ACTIVE = Y) we are in recovery process and the LOW field value is taken into account for the calculation
- if EXTRPERIOD is inactive (ACTIVE <>Y) we are in recurring process and the current period is taken into account for the calculation
- if CALCNBPER is active (ACTIVE = Y) the calculation take is into account,
- if CALCNBPER is inactive (ACTIVE <>Y) the calculation use the default value = 3
- if OFFSET is active (ACTIVE = Y) the calculation take is into account,
- if OFFSET is inactive (ACTIVE <>Y) the calculation use the default value = 3

Data Loading

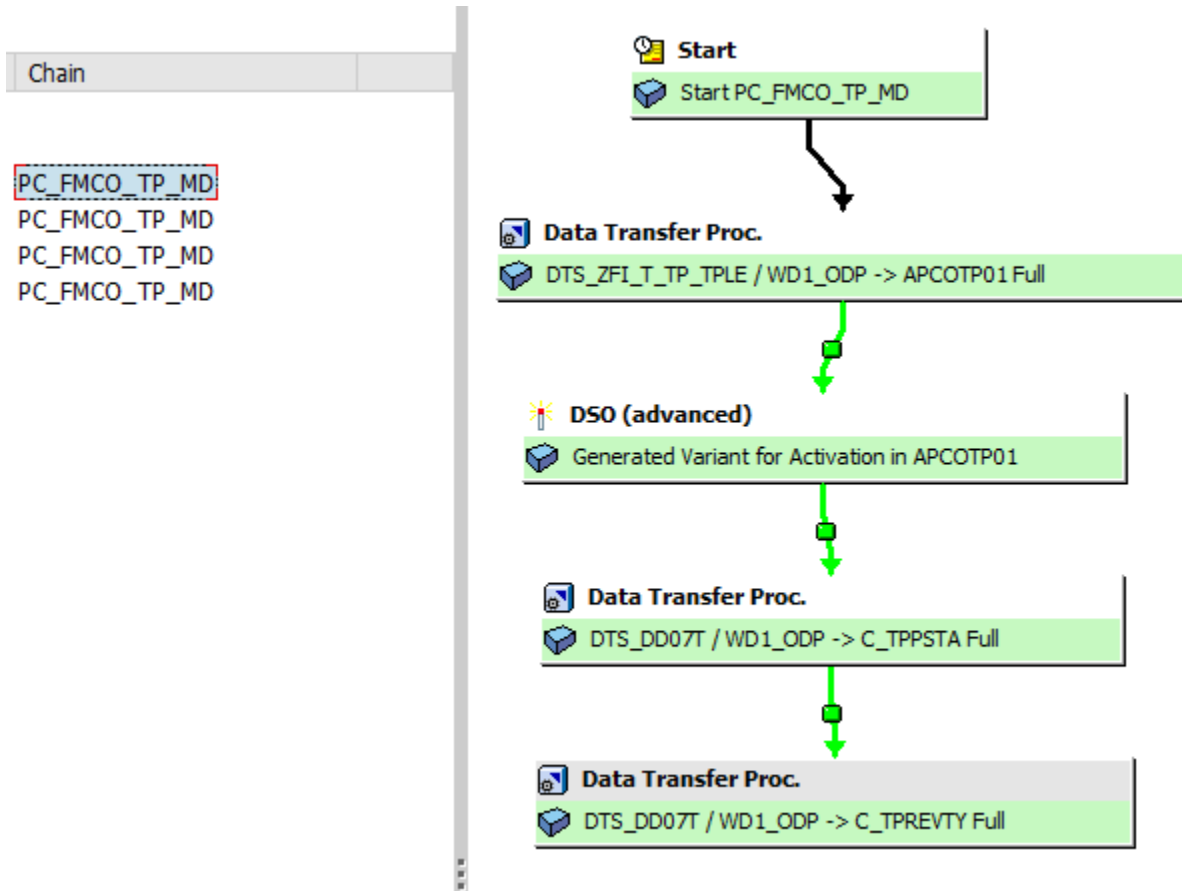
Info Providers and objects loaded

Process Chain

Main Process Chain	Final Provider Loading	Frequency	Time start	Duration
PC_FMCO_TP_MD	C_TPREVTY C_TPPSTA	Daily (not weekend)	2 am	1 min
PC_FMCO_TP_01	Open hub: OH_COTP02 & OH_COTP01 & OH_TP2_EC & OH_TP2_SC & OH_TP1_EC & OH_TP1_SC	Third working day of each month	5:30 am	2 min

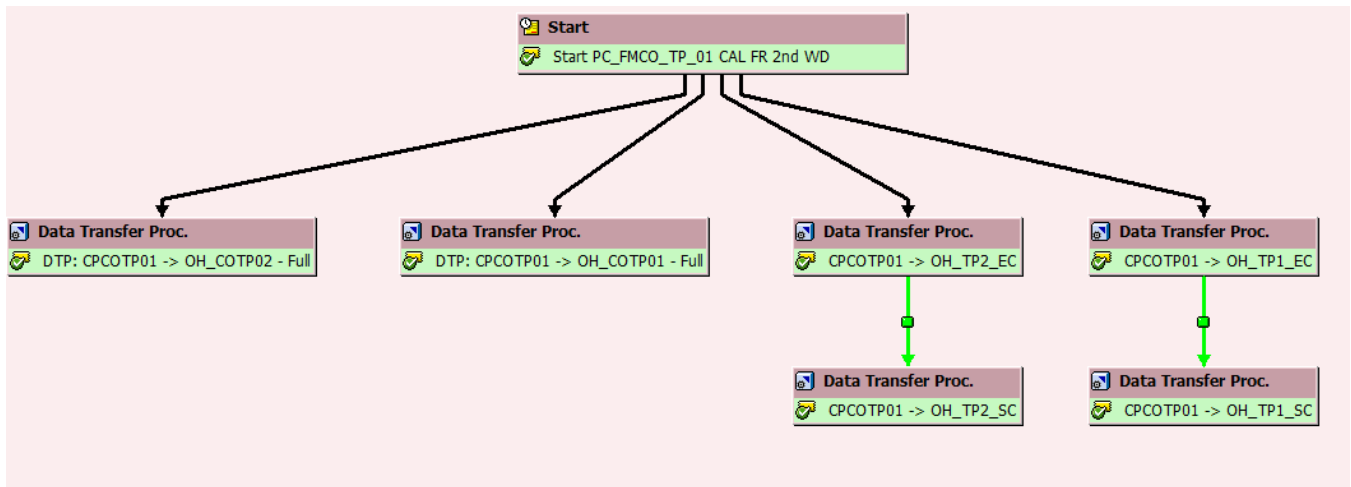
About the loading for dso ABCOPA01, ABCOPA04 and DBCOPA30 see in [P&L documentation](#).

PC_FMCO_TP_MD : Controlling - TP - Master data



PC_FMCO_TP_01 : Controlling - TP - Sale Price Extracts

This process chain extracts launch the extract through Open Hub.



Data Quality Control

Data come from SAP system. To compare data between BW and sources systems, check propagation layers.

Operational Documentation

Procedures

Init/Recovery procedure

By init/recovery procedure we mean manage the reference period which drives the extraction of the 2 files in process chain : PC_FCMO_TP_01 .

The common parameter that have to be managed is located in the C_GLBFLT master data attributes

For the following key

Global Filter Stream (Application)	"Global Filter Rule"	"Global Filter"
TP_SP	EXTRPERIOD	1

You have to set :

- Global Filter Active = Y
- Global Filter Low Value = the wished month (ie 201904)

Global Filter Stream (Application)	"Global Filter Rule"	"Global Filter"	Global Filter Active	Global Filter Description	Global Filter Hight Value	Global Filter Low Value	Global Filter Option	Global Filter Sign
TP_SP	EXTRPERIOD	1	Y	Recovery Extract Period		201904	EQ	I

Once the recovery process is over, do not forget to inactive the parameter for the recurring process which takes into account the current month.

You have to set :

- Global Filter Active = N
- Global Filter Low Value = the wished month (ie 201904)

Global Filter Stream (Application)	"Global Filter Rule"	"Global Filter"	Global Filter Active	Global Filter Description	Global Filter Hight Value	Global Filter Low Value	Global Filter Option	Global Filter Sign
TP_SP	EXTRPERIOD	1	N	Recovery Extract Period		201904	EQ	I

Scheduling

<Describe the scheduling in place for the application (eg. existing jobs, trigger time/event based, dependencies)>

Monitoring

<Describe the monitoring checks to confirm the application is performing well (eg. check the overall status, check performance metrics like runtime /data volume/memory/disk/CPU, maintain and react to alerts/notifications)>

Error Handling

<Describe how to handle errors (eg. error codes, description and respective resolution, alert users)>

Known Bugs

<List the existing bugs, its criticality, workarounds and resolution plan.>

Roadmap

<List past & future evolutions for the application (including links to MED/FSD/TSD)>