

# Technical Documentation - COSTA

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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_M731	CT - COSTA Transactions	Role to have access to transaction below :  <b>ZBW_ADJ_PERIM_COSTA</b> <b>ZBW_BUD_COSTA</b> <b>ZBW_COR_COSTA</b> <b>ZBW_COSTA_SNAP</b> <b>ZBW_CUST_COSTA</b> <b>ZCOSTA_BRIDGE_FILE</b>
ZR_RCS_CA_M73	Cost Transparency	Role menu queries / workbooks
ZP2_RCS_CT_A01	Cost Transparency - End User Role	End user role

## Authorization Objects

List of authorization objects mandatory for the application.

Authorization object	Explanation
CPFCTR1_2	ZR_*_CA_P05
C_COMPPRS	ZR_*_CA_P07
C_AUTHMA	ZR_*_CA_P00

Link to the BW Catalog of role

[https://drive.google.com/open?id=10GEfKYqrT1eeTO\\_uHYAheL1GX7L5y\\_pvH0KQU64qh5I](https://drive.google.com/open?id=10GEfKYqrT1eeTO_uHYAheL1GX7L5y_pvH0KQU64qh5I)

# DataFlow

## Overview

CPCOCT05 data flow

## General presentation

### Objective of the application

The objective of the application is to provide provide a **cost visibility solution** , improving the **transparency** and including:

- External spend (excl. raw materials & energy) and all Labor
- Providing both an Origin and Destination view

**Build a “ZBB-like” foundation** (zero based budgeting)

Supported via a user-friendly and flexible tool to help on decision-making

The application is based on 3 tools

- BW : for merging different source of data , enriching the model with Business rules , providing Destination view of the costs
- QlikSense : for the dashboard
- ANAPLAN : to build the budget

COSTA model provide 2 views of the costs

- the Origin View
- the Destination view

ORIGIN VIEW

DESTINATION VIEW

Tool Leader : Gilles Madjarian + IT leader of the application:

### Usage information

Critical period : Closing period and Dashboard reloading

## History

### Composites providers

CPCOCT05 (uses calculation view CV\_FMCO\_CO\_CT\_UNION\_COSTS\_TRANSPARENCY\_DEST).

Architecture & Data Flow Description for :

- Co\$Ta At Origin : Overall Architecture and concepts
- Co\$Ta At Origin : COOM (CCA, OPA, WBS) Technical specifications
- Co\$Ta At Origin : COPA Technical specifications
- Co\$Ta At Destination :
  - Architecture and concepts
  - Scheduling
  - Technical specifications

## Technical Rules on Workbench

Where used list variables from master data global filter

### Flat files loading - Transaction ZBW\_CUST\_COSTA

#### Adjustment perimeter

- Program: ZBW\_COSTA\_CORRECTIV
- Process Chain: PC\_CT\_CORRECTIVE\_2\_01
- InfoProvider: APCOCT20
- Flat file format:

#### Corrective flow

- Program: ZBW\_CORR\_FLOW
- Process Chain: PC\_CT\_CORREC\_01
- Infoprovder: APCOCT07
- Flat file format:

#### Zero Based Budgeting

- Program: ZBW\_COSTA\_C\_CTSBPKG\_ZBB
- Process chain: PC\_CT\_TR\_05
- Infoprovder: APCOCT13 CPCOCT06
- Query: BW\_QRY\_CPCOCT06\_0003 + QV\_BW\_QRY\_CPCOCT06\_0003
- Flat file format:

#### Resp. Cost Center Determination

- Program: ZBW\_COSTA\_RCC
- Process chain: PC\_CT\_RCC\_01
- Infoprovder: APCOCT15
- Query:
- Flat file format:

## Investment Reason WBS

- Program: ZBW\_COSTA\_INV
- Process chain: PC\_CT\_INV\_REA\_01
- Infoprotocol: APCOCT17
- Query:
- Flat file format:

## Bridge Perimeter

- Program: ZBW\_COSTA\_FILE
- Process chain: PC\_CT\_PERICH\_01
- Infoprotocol: APCOCT23
- Query:
- Flat file format:

## Corrective Flow destination

- Program: ZBW\_CORR\_FLOW\_2
- Process chain: PC\_CT\_CORREC\_02
- Infoprotocol: APCOCT24
- Flat file format:

## Order Capex Opex

- Program: ZBW\_COSTA\_ORDER\_CAPEX\_OPEX
- Process chain: PC\_CT\_TR\_03
- Infoprotocol: APCOCT09 CPCOCT06
- Query: BW\_QRY\_CPCOCT06\_0001 + QV\_BW\_QRY\_CPCOCT06\_0001
- Flat file format:

## Percentage inflation

- Program: ZBW\_COSTA\_INFLATION
- Process chain: PC\_CT\_TR\_04
- Infoprotocol: APCOCT11 CPCOCT06
- Query: BW\_QRY\_CPCOCT06\_0002 + QV\_BW\_QRY\_CPCOCT06\_0002
- Flat file format:

## Cluster GBU

Cluster/SubCluster	APCOCT14	Manage
Costa - BU Cluster SubCluster		Manage
TRSF: DTS_BW_REPO_BU_CLU_SCLU (PRS_020) -> APCOCT14	00HBBV6J270WOOEALO1LPKNOHUM1YDKZ	Change
REPO_BU_CLU_SCLU	DTS_BW_REPO_BU_CLU_SCLU	Change
Data Transfer Processes	APCOCT14	Create Data Tr...
DTP: DTS_BW_REPO_BU_CLU_SCLU (PRS_020) -> APCOCT14	DTP_B1FNYSNDTRTQFIIMPH4W18R06	Change
Data Flow Upwards	_DATAFLOW_UPWARDS	
DTP: APCOCT14 (PRS_020) -> CPFCTR1_2 - Delta	DTP_B1FNYSNDTRTQFIIPSB4NAR6D6	Change
DTP: APCOCT14 (PRS_020) -> C_CLUSTER - Delta - Text	DTP_B1FNYSNDTRTQFIIZMOOPTU0IG	Change
DTP: APCOCT14 (PRS_020) -> C_SUBCLUS - Delta - Attr	DTP_B1FNYSNDTRTQFIJ0JF6DCYL10	Change
DTP: APCOCT14 (PRS_020) -> C_SUBCLUS - Delta - text	DTP_B1FNYSNDTRTQFIJ128RYMGY73	Change
TRSF: APCOCT14 (PRS_020) -> CPFCTR1_2	0P7W0X8D8LFX7FOMP5JC6ZPVY5YLWGF	Change
TRSF: APCOCT14 (PRS_020) -> C_CLUSTER	0KYHTL5PMW1HG128NU1WJJ8346HSNOFV	Change
TRSF: APCOCT14 (PRS_020) -> C_SUBCLUS	0182Q9ZKN5J523E2D3OXMQH8F93PM2VR	Change
TRSF: APCOCT14 (PRS_020) -> C_SUBCLUS	00UVP2IQCW7QFWIPX0S2EYMKNV5Z1J2Z	Change

Clusters and sub clusters come from PF1\_050, datasource DTS\_BW\_REPO\_BU\_CLU\_SCLU. This datasource uses module function ZFM\_BW\_REPO\_BU\_CLU\_SCLU).

We extract data into adso APCOCT14 and then load the attributes and textes in master data CPFCTR1\_2, C\_CLUSTER & C\_SUBCLUS (loadings done in process chain PC\_CT\_MD\_01).

## Group of function

Goal:

Add in master data C\_COSTCTR two attributes: group function and GBU function extracted from hierarchy Z013ZCBS\_GRP (WP1 system). The link between cost center and hierarchy is C\_FUNCT\_2 (attribute from cost center and level 4 in hierarchy Z013ZCBS\_GRP).

Steps:

- 1) Extract Z013ZCBS\_GRP hierarchy in master data C\_FUNCT\_2 where: (done in process chain PC\_CT\_MD\_01).

- C\_FUNCT\_2 = level 4 in Z013ZCBS\_GRP (without controlling area).
- C\_FUNCT\_2\_\_C\_GRPFUNC = Level 3 in Z013ZCBS\_GRP.
- C\_FUNCT\_2\_\_C\_GBUFUNC = Level 2 in Z013ZCBS\_GRP.

2) Load attributes C\_GRPFUNC & C\_GBUFUNC in master data C\_COSTCTR (with look up on C\_FUNCT\_2)

## Cost package derivation from:

### Material Group

In adso APCOCT04 we use data from master data C\_MAT\_GRP to determine cost sub package (C\_CTSBPKG).

This loading is done in process chain PC\_CT\_TR\_01.

### Segment

In adso APCOCT05 we use data from master data C\_SEGT to determine cost sub package (C\_CTSBPKG).

This loading is done in process chain PC\_CT\_TR\_01.

### Cost Element:

In adso APCOCT06 we use data from adso APCOCT16 (only landscape ERPSOLV and ERPRCS) to determine cost sub package (C\_CTSBPKG) associated to cost element.

This loading is done in process chain PC\_CT\_TR\_01.

## Investment Reason for PM Order

Goal: in master data c\_coorder add three new attributes C\_GEN\_REA & C\_INV\_REA & C\_ORD\_TYP

C\_GEN\_REA & C\_INV\_REA come from C\_WBS\_EL2 and C\_WBS\_EL2 comes from dso ABCOCT01 & ABCOCT02.

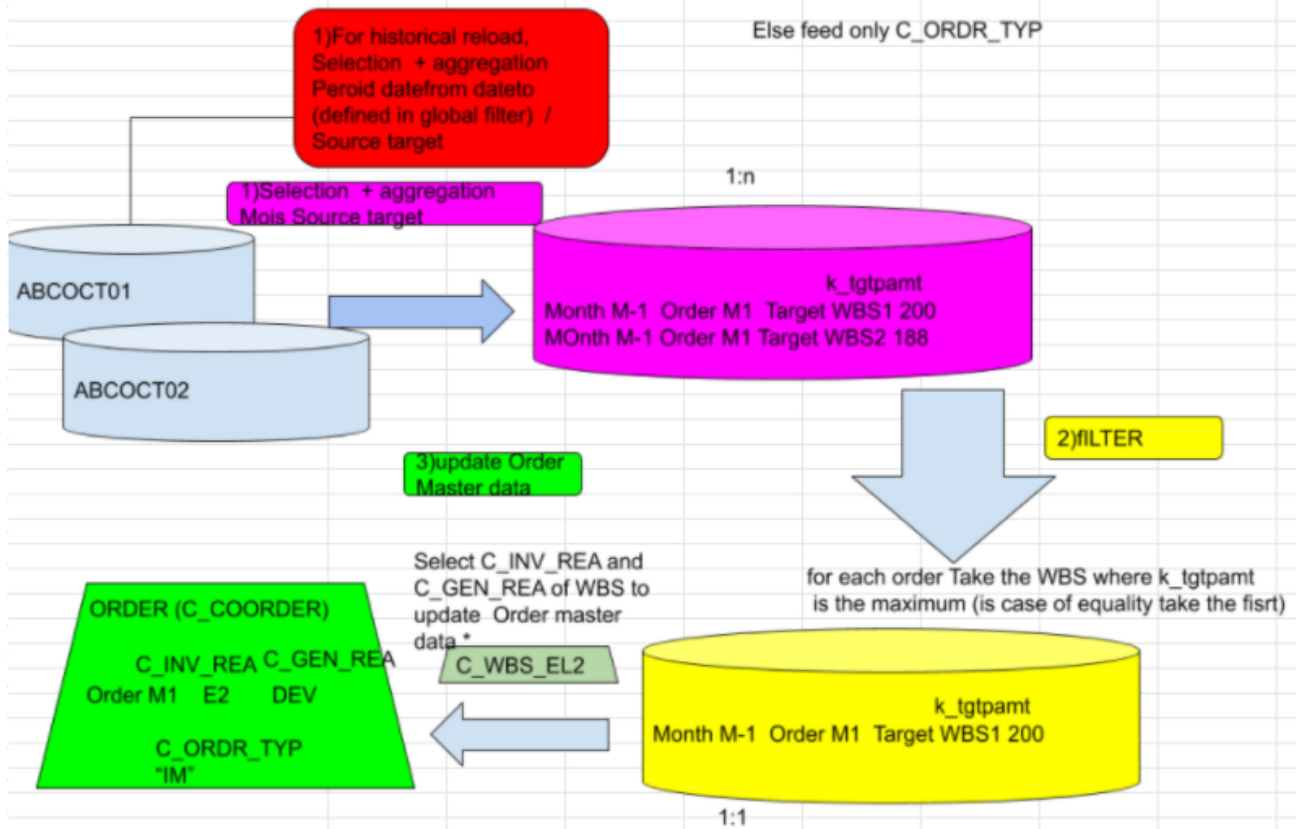
### Main rules:

- Developments are done in transformations:
  - Transf: 0COORDER\_ATTR -> C\_COORDER
  - Transf: 0COORDER\_ATTR -> C\_COORDER Solvay
- The filters used are defined in master data global filter we stream "C\_COORDER".
- By default the period to read adso ABCOCT01 is current month -1. But it's possible to make the look-up with several month with definition of period in master data global filter:

/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C...
C_COORDER	C_ORD_TYP	001	A		C_ORD_TYP value to fill attribute in C_COORDER	I	EQ	IM		Y
C_COORDER	DESTTY	001	A		DESTTY filter to read ABCOCT01 & 2 in routine c_coorder	I	EQ	CAPEX		Y
C_COORDER	ORDERCATEG	001	A		ORDERCATEG to fill gen_rea & inv_rea in routine c_coorder	I	EQ	30		Y
C_COORDER	PERIOD_ORD	001	A		CALMONTH period to read ABCOCT01 & 2 in routine c_coorder	I	BT	201501	201503	N
C_COORDER	PSOBJTY	001	A		PSOBJTY filter to read ABCOCT01 & 2 in routine c_coorder	I	EQ	0COR		Y
C_COORDER	PTOBJTY	001	A		PTOBJTY filter to read ABCOCT01 & 2 in routine c_coorder	I	EQ	0POS		Y

Calendar Year/Month = M-1  
 Partner Source Object Type = 0COR  
 Partner Target Object Type = 0POS  
 Destination Type = CAPEX

\* If C\_COORDER\_\_0ORDCATEG = 30 feed  
 C\_INV\_REA & C\_GEN\_REA &  
 C\_ORDR\_TYP  
 the list of order categ can be changed  
 Else feed only C\_ORDR\_TYP



**Start routine:**

1. Define all filters.
2. Do a select in internal table to take data from adso ABCOCT01 or ABCOCT02 with filters on CALMONTH, C\_PSOBJTY, C\_DESTTY and C\_PTOBJTY.
3. Aggregation with keys LOGSYS /BIC/C\_PSOBJ /BIC/C\_PTOBJ BIC/C\_WBS\_EL2 of data from DSO ABCOCT0\* in internal table sorted by ascending.
4. Search the attributes C\_INV\_REA & C\_GEN\_REA in master data C\_WBS\_EL2 for all entries of internal table.
5. Create new table to have PSOBJ (coorder) and WBS\_EL2 + Attributes in same table.
6. Select current GEN\_REA, INV\_REA, ORD\_TYP from master data C\_COORDER to be able to keep current data if nothing was found in dso ABCOCT01 or C\_WBS\_EL2

**End routine:**

If C\_COORDER\_\_0ORDCATEG = 30 feed C\_INV\_REA & C\_GEN\_REA & C\_ORDR\_TYP

Else feed only C\_ORDR\_TYP

If nothing was found, no change, keep the current attributes in master data C\_COORDER.

**Investment Reason for WBS**

Goal is to determine "General reason for investment"(C\_GEN\_REA) from mapping table APCOCT17 for CO-OM WBS part flow and Corr Flow.

A program has been created ZBW\_COSTA\_INV for upload file as link:

- <https://drive.google.com/file/d/1ebtQM35d5yOMeUnXTsCsrhSqmK3PqS46/view>

aDSO:

- APCOCT17

Process Chain:

- PC\_CT\_INV\_REA\_01

Impacted HANA Views:

- CV\_FMCO\_CO\_CT\_AT\_DEST\_CORR
- CV\_FMCO\_CO\_CT\_CORR\_FLOW
- CV\_FMCO\_CO\_CT\_WBS6\_RHODIA
- CV\_FMCO\_CO\_CT\_WBS6\_SOLVAY

Example for HANA Views CV\_FMCO\_CO\_CT\_WBS6\_RHODIA, left join has been made with 0LOGSYS and C\_INV\_REA and get C\_GEN\_REA:

The screenshot displays the SAP HANA Studio interface. On the left, a scenario diagram shows the data flow between various HANA views. The central pane shows the details of two views: 'J\_GET\_C\_WBS\_EL2\_ATTR' and 'P\_INV\_REAS\_WBS'. The 'J\_GET\_C\_WBS\_EL2\_ATTR' view lists columns such as CO\_RESP\_CC, CO DOC NO, CO AREA, CO ITEM NO, CURTYPR, FISCVARNT, VTYPR, VERSION, COSTELMNT, DB CR IND, PROBSJV, PFOVALUE, PART ACTY, PART COORD, PART WBSL, PART ABCPR, AMOUNT, QUANTITY, CURRENCY, UNIT, BIC C EBELN, BIC C EBELP, LOGSYS, BIC C PROJ 2, BIC C MATNR2, BIC C VENDG2, BIC C WBS EL2, MATL GROUP, BIC C PARTCTR, BIC C PARTORD, BIC C PARTWRS, BIC C COMPCDE, WYDETAIL, WYSTAT, WBSITEP, CHRT ACCTS, CHRT ACCTS, SGL ACCOUNT, SGL ACCOUNT, WBS EL2, BIC C WBSL TPC WBS EL2 BI..., WBS EL2, BIC C INV TYP C WBS EL2 BI..., WBS EL2, BIC C PROJ TP C WBS EL2 BI..., WBS EL2, BIC C PS PRUT C WBS EL2 BI..., WBS EL2, BIC C PROJ 2 C WBS EL2 BI..., BIC C PLANT, BIC C INV\_REA, and BIC C GEN\_REA. The 'P\_INV\_REAS\_WBS' view lists columns: WBSL, BIC C INV\_REA, and BIC C GEN\_REA. On the right, the 'Output' pane shows the columns of the resulting data set, including CO\_DOC\_NO, CO\_AREA, CO\_ITEM\_NO, CURTYPR, FISCVARNT, VTYPR, VERSION, COSTELMNT, DB\_CR\_IND, PROBSJV, PFOVALUE, PART\_ACTY, PART\_COORD, PART\_WBSL, PART\_ABCPR, AMOUNT, QUANTITY, CURRENCY, and UNIT. Below the columns, the 'Properties' pane shows the view name 'J\_GET\_INV\_REAS\_WBS', type 'Join', join type 'Left Outer', and cardinality '1'. Inputs are listed as 'J\_GET\_C\_WBS\_EL2\_ATTR [N...' and 'P\_INV\_REAS\_WBS [Node]'.

## ANAPLAN/F2G SCOPE

In scope of Costa data, it's necessary to define which data are for COSTA, F2G or ANAPLAN. The idea is to exclude some records not in scope of ANAPLAN or F2G.

To do that, it's necessary to define the rule of exclusion in a table: ZCOSTA\_ANAPLAN

Data Browser: Table ZCOSTA\_ANAPLAN Select Entries 54

CPFCNTRL_2	C_FLGIN01	C_COMPDE	C_CTMCPKG	C_CTPKG	C_FUNCT_2	C_ORD_TYP_C_CTOFLOW	C_GEN_REA	C_INV_REA	C_CTEXR_A	C_CTEXR_F	
IM						A1			C_ORD_TYP_C_INV_REA		
IM						A2			C_ORD_TYP_C_INV_REA		
IM						A3			C_ORD_TYP_C_INV_REA		
IM						C1			C_ORD_TYP_C_INV_REA		
IM						D1			C_ORD_TYP_C_INV_REA		
IM						D2			C_ORD_TYP_C_INV_REA		
IM						E1			C_ORD_TYP_C_INV_REA		
IM						E2			C_ORD_TYP_C_INV_REA		
IM						F1			C_ORD_TYP_C_INV_REA		
IM						G0			C_ORD_TYP_C_INV_REA		
IM						H0			C_ORD_TYP_C_INV_REA		
IM						I1			C_ORD_TYP_C_INV_REA		
IM						I2			C_ORD_TYP_C_INV_REA		
IM						IM	CORR_FLOW	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R		
IM						IM	WBS	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R		
IM						IM	WBS	DEV	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
IM						IM	WBS	HSE	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
IM						IM	WBS	IT	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
IM						IM	WBS	R&I	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
					ENRGL				C_FUNCT_2		
					ERSTR				C_FUNCT_2_C_CTOFLOW		
					ZCBS-FSIS	WBS			C_FUNCT_2		
					ZCBS-ICDX				C_FUNCT_2		
					ZCBS-OTHX				C_FUNCT_2		
					ZCBS-PRJ	WBS			C_FUNCT_2_C_CTOFLOW		
					ZCBS-TSA				C_FUNCT_2		
					P10001					C_CTPKG	
					P10012					C_CTPKG	
					P10080					C_CTPKG	
					P10081					C_CTPKG	
					P10082					C_CTPKG	
					P10089					C_CTPKG	
					P10090					C_CTPKG	
					P00008					C_CTMCPKG	
					P00009					C_CTMCPKG	
					P00010					C_CTMCPKG	
					5985					C_COMPDE	
					6034					C_COMPDE	
					6235					C_COMPDE	
					X					C_FLGIN01	

Types of filter for anaplan or F2G.

The description define the object(s) were the filter should be apply.

If a column has # value, it means "null" value. For example for this line it means we should exclude records with C\_ORD\_TYP = IM, CTOFLOW = WBS and GEN\_REA + INV\_REA = Null.

This table could be maintained with SM30 or transaction ZMAINT\_COSTA\_ANAPLAN.

09/07/2023 : PO2 Project impact : ZCOSTA\_ANAPLAN has been enhanced but adding an New Key : Authorization Scope. Now the flag determination is dependent on the scope (SCO or ECO) . For D1 (06/2023) all business rules has been duplicated are are similar for SOLVAY. ECO or SCO. But in the future , the rules can be independant .

Special case : interco flag

- For SOLVAY we check the SOLVAY INTERCO FLAG (C\_FLGIN01)
- For ECO we check the ECO INTERCO FLAG (C\_FLGIN02)
- For SCO we check the SCO INTERCO FLAG(C\_FLGIN03)

In "J\_FLAG\_1\_R2" in CV\_FMCO\_CO\_CT\_UNION\_COSTS\_TRANSPARENCY\_DEST we added this calculated column to determine which exclusion reason used:

Name:\* C\_CTEXR\_A\_FLGIN01\_CALC

Data Type: NVARCHAR Length: 100 Scale:

Expression

Expression Editor

Validate Syntax

```
IF("C_FLGIN02" = 'X' AND "C_AUTHMA" = 'ECO' AND (NOT ISNULL("C_CTEXR_A_FLGIN01")), 'C_FLGIN02',
IF("C_FLGIN03" = 'X' AND "C_AUTHMA" = 'SCO' AND (NOT ISNULL("C_CTEXR_A_FLGIN01")), 'C_FLGIN03',
IF("PCOMPAN_C_FLGIN01" = 'X' and "C_AUTHMA" = 'SOLVAY' AND (NOT ISNULL("C_CTEXR_A_FLGIN01")), 'C_FLGIN01',
''))
```

If in source of data of the CV the attribute C\_FLGIN02 from C\_PCOMPAN is equal to X and C\_AUTHMA is ECO and the Exclusion reason is not null (it means the join between ZCOSTA\_ANAPLAN table and source of data in CV with C\_FLGIN01 and C\_AUTHMA is working), the C\_CTEXR\_A\_FLGIN01\_CALC = C\_FLGIN02.

Else, if the C\_PCOMPAN\_C\_FLGIN03 (from source of data in CV) = X and C\_AUTHMA is SCO and the Exclusion reason is not null the C\_CTEXR\_A\_FLGIN01\_CALC = C\_FLGIN03.

Else, if the C\_PCOMPAN\_C\_FLGIN01 (from source of data in CV) = X and C\_AUTHMA is SOLVAY and the Exclusion reason is not null the C\_CTEXR\_A\_FLGIN01\_CALC = C\_FLGIN01.

Else C\_CTEXR\_A\_FLGIN01\_CALC is null.

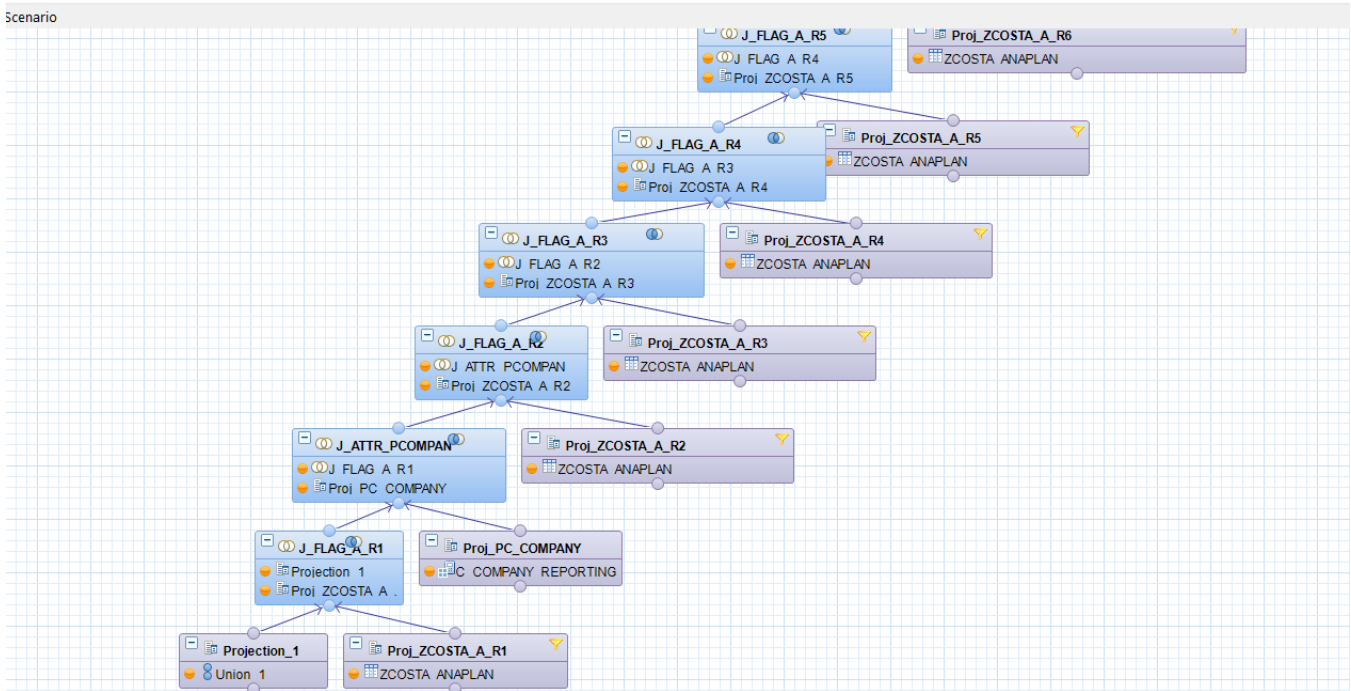
We use this table in calculation view CV\_FMCO\_CO\_CT\_UNION\_COSTS\_TRANSPARENCY\_DEST.

To apply the exclusion flag anaplan or F2G:

- We do a projection of table ZCOSTA\_ANAPLAN, filtered on one type of C\_CTEXR\_A or C\_CTEXR\_F.
- Create a full outer join with costa data and ZCOSTA\_ANAPLAN on the necessary field(s) to find which records match with the filter, if there is a match we add a new column with the C\_CTEXR\_A or F.
- Repeat the join for each type of filter.

Solvay.IA\_FMCO.IA\_FMCO\_CO.IA\_FMCO\_CO\_CT::CV\_FMCO\_CO\_CT\_UNION\_COSTS\_TRANSPARENCY\_DEST WBP (MGIRAUD) 4 Warning(s) found.

Scenario



- At the end we can define a global column for exclusion flag and exclusion reason (anaplan and F2G).

Name:\* C\_TREX\_A

Data Type: NVARCHAR Length: 100 Scale:

Expression

Expression Editor

Validate Syntax

```

IF("CC_FLOW" = 'ADJ_FLOW', IF(not isnull("C_TREX_A_ADJ_FLOW"), "C_TREX_A_ADJ_FLOW", ''),
IF(not isnull("C_TREX_A_CORR_FLOW_DEST"), "C_TREX_A_CORR_FLOW_DEST",
IF(not isnull("C_CTEXR_A_GBU"), "C_CTEXR_A_GBU",
IF("C_CTEXR_A_FLGINT_CALC" != '', "C_CTEXR_A_FLGINT_CALC",
IF(not isnull("C_CTEXR_A_COMPDE"), "C_CTEXR_A_COMPDE",
IF(not isnull("C_CTEXR_A_CTMCPKG"), "C_CTEXR_A_CTMCPKG",
IF(not isnull("C_CTEXR_A_CTPKG"), "C_CTEXR_A_CTPKG",
IF(not isnull("C_CTEXR_A_FUNCT2"), "C_CTEXR_A_FUNCT2",
IF(not isnull("C_CTEXR_A_FUNCT2_FLOW"), "C_CTEXR_A_FUNCT2_FLOW",
IF(not isnull("C_CTEXR_A_GBU_FUNCT2"), "C_CTEXR_A_GBU_FUNCT2",
IF(not isnull("C_CTEXR_A_ORD_TYP"), "C_CTEXR_A_ORD_TYP",
IF(not isnull("C_CTEXR_A_C_ORD_TYP_C_CTFLOW"), "C_CTEXR_A_C_ORD_TYP_C_CTFLOW",
IF(not isnull("C_CTEXR_A_GBU_C_FUNCT_2_C_CTFLOW"), "C_CTEXR_A_GBU_C_FUNCT_2_C_CTFLOW",
IF(not isnull("C_CTEXR_A_C_ORD_TYP_GEN_REA"), "C_CTEXR_A_C_ORD_TYP_GEN_REA",
IF(not isnull("C_CTEXR_A_C_ORD_TYP_INV_REA"), "C_CTEXR_A_C_ORD_TYP_INV_REA",
IF(not isnull("C_CTEXR_A_C_ORD_TYP_C_FLOW_C_INV_REA"), "C_CTEXR_A_C_ORD_TYP_C_FLOW_C_INV_REA",
IF(not isnull("C_CTEXR_A_C_ORD_TYP_C_INV_REA_C_GEN_REA"), "C_CTEXR_A_C_ORD_TYP_C_INV_REA_C_GEN_REA",
IF(not isnull("C_CTEXR_A_C_ORD_TYP_C_CTOFLOW_C_GEN_REA_C_INV_REA"), "C_CTEXR_A_C_ORD_TYP_C_CTOFLOW_C_GEN_REA_C_INV_REA", ''))))))))))))))

```

Name:\* C\_FLAG\_ANAPLAN

Data Type: NVARCHAR Length: 1 Scale:

Expression

**Expression Editor**

Validate Syntax Language: Column Engine

```
IF("CC_FLOW" = 'ANAPL_BUDG' OR "CC_FLOW" = 'ANAPL_EST', 'X', 'X')
```

Name:\* C\_TREX\_F

Data Type: NVARCHAR Length: 100 Scale:

Expression

**Expression Editor**

Validate Syntax

```
IF("CC_FLOW" = 'CORR_DEST', IF(not isnull("CC_TREX_F2G_CORR_FLOW_DEST"), "CC_TREX_F2G_CORR_FLOW_DEST", ' '), IF(not isnull("C_CTEXR_F_C_CTMCPKG"), "C_CTEXR_F_C_CTMCPKG", IF(not isnull("C_CTEXR_F_C_CTPKG"), "C_CTEXR_F_C_CTPKG", IF(not isnull("C_TREX_A_ADJ_FLOW"), "C_TREX_A_ADJ_FLOW", ' '))))
```

Name:\* C\_TREX\_F

Data Type: NVARCHAR Length: 100 Scale:

Expression

**Expression Editor**

Validate Syntax Language: Colu

```
IF(not isnull("C_CTEXR_F_C_CTMCPKG"), "C_CTEXR_F_C_CTMCPKG", IF(not isnull("C_CTEXR_F_C_CTPKG"), "C_CTEXR_F_C_CTPKG", ' '))
```

Name:\* C\_FLAG\_F2G

Data Type: NVARCHAR Length: 1 Scale:

Expression

**Expression Editor**

Validate Syntax Language: Co

```
IF("CC_FLOW"='CORR_DEST',IF(strlen("CC_TREX_F2G_CORR_FLOW_DEST")>1,'X',''),
IF(
strlen("C_TREX_A")>1 OR
strlen("C_TREX_F")>1
,'X'
,''))
```

### Level 5 - Responsible Cost center

Level 5 responsible cost center is retrieved in CV\_FMCO\_CO\_CT\_UNION\_COSTS\_TRANSPARENCY & CV\_FMCO\_CO\_CT\_UNION\_COSTS\_TRANSPARENCY\_DEST.



CV_FMCO_CO_CT_COMPOSITE_RHODIA
CV_FMCO_CO_CT_COMPOSITE_SOLVAY
CV_FMCO_CO_CT_AT_DEST_COR
CV_FMCO_CO_CT_AT_DEST_SAMPLE
CV_FMCO_CO_CT_COST_NON_ERP
CV_FMCO_CO_CT_COPA_COMPO_RHODIA
CV_FMCO_CO_CT_COPA_COMPO_SOLVAY

The global GBU is calculated in function of C\_MAGNITU or C\_RESP\_CC:

If we don't have GBU in attribute of C\_MAGNITU (destination GBU) we use GBU from C\_RESP\_CC (origin GBU).

Rule in calculation view: if(isnull("C\_MAGNITU\_\_CPFCTR1\_2") OR "C\_MAGNITU\_\_CPFCTR1\_2" = "", "C\_RESP\_CC\_\_CPFCTR1\_2", "C\_MAGNITU\_\_CPFCTR1\_2")

## FI - Tab Sample COGS flow ECC WP1

Get ECC Sample COGS table in specific datasource and replicate it in BW part (Bex COSTA):

Field	Descript.	D...	Data type	Lngh	Decim...	Extern...	C..	Key Field	Conv...	SS Conv.	Rout.	cur/unit
BUKRS	Company Code		CHAR	4	0	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
GJAHR	Fiscal Year		NUMC	4	0	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>			GJAHR	
BELNR	Document Nu...		CHAR	10	0	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>			ALPHA	
BUZEI	Line item		NUMC	3	0	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
MONAT	Period		NUMC	2	0	2	<input type="checkbox"/>	<input type="checkbox"/>				
BUDAT	Posting Date		DATS	8	0	8	<input type="checkbox"/>	<input type="checkbox"/>				
BLART	Document type		CHAR	2	0	2	<input type="checkbox"/>	<input type="checkbox"/>				
HKONT	G/L		CHAR	10	0	10	<input type="checkbox"/>	<input type="checkbox"/>			ALPHA	
DMBTR	Amount in LC		CURR	13	2	15	<input type="checkbox"/>	<input type="checkbox"/>				HWAER
HWAER	Local Currency		CUKY	5	0	5	<input type="checkbox"/>	<input type="checkbox"/>				
MENGE	Quantity		QUAN	13	3	15	<input type="checkbox"/>	<input type="checkbox"/>				MEINS
MEINS	Base Unit		UNIT	3	0	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>			CUNIT	
FI_KOSTL	Cost Center		CHAR	10	0	10	<input type="checkbox"/>	<input type="checkbox"/>			ALPHA	
XBLNR	Reference		CHAR	16	0	16	<input type="checkbox"/>	<input type="checkbox"/>				
VBEL2	Sales Document		CHAR	10	0	10	<input type="checkbox"/>	<input type="checkbox"/>			ALPHA	
POSN2	Item		NUMC	6	0	6	<input type="checkbox"/>	<input type="checkbox"/>				
AWTYP	Ref. procedure		CHAR	5	0	5	<input type="checkbox"/>	<input type="checkbox"/>				
KOKRS	CO Area		CHAR	4	0	4	<input type="checkbox"/>	<input type="checkbox"/>				
CO_BELNR	Document Nu...		CHAR	10	0	10	<input type="checkbox"/>	<input type="checkbox"/>			ALPHA	
CO_BUZEI	Posting row		NUMC	3	0	3	<input type="checkbox"/>	<input type="checkbox"/>				
AUART	Sales Doc. Typ.		CHAR	4	0	4	<input type="checkbox"/>	<input type="checkbox"/>			AUART	
SD_KOSTL	Cost Center		CHAR	10	0	10	<input type="checkbox"/>	<input type="checkbox"/>			ALPHA	
MATNR	Material		CHAR	18	0	18	<input type="checkbox"/>	<input type="checkbox"/>			MATN1	
WERKS	Plant		CHAR	4	0	4	<input type="checkbox"/>	<input type="checkbox"/>				
VTWEG	Distr. Channel		CHAR	2	0	2	<input type="checkbox"/>	<input type="checkbox"/>				
SPART	Division		CHAR	2	0	2	<input type="checkbox"/>	<input type="checkbox"/>				
KUNNR	Sold-To Party		CHAR	10	0	10	<input type="checkbox"/>	<input type="checkbox"/>			ALPHA	
TSTMP_IN	Timestamp In		DEC	15	0	15	<input type="checkbox"/>	<input type="checkbox"/>				
UNAME	User Name		CHAR	12	0	12	<input type="checkbox"/>	<input type="checkbox"/>				

Needs column "S" of "Step 1 - Axis , Filters and authorization excel file":

Step 1 - Axis , Filters and authorization

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A	B	S	T
	Technical Object	SAMPLE WP1	
Source		ZTK_SAMPLE_COGS	
Main Filter			
Responsible Cost Center			
Controlling Area	CO_AREA	MISSING	
Responsible CC	C_RESP_CC	BSEG-KOSTL	
Responsible CC - BFC GBU	C_RESP_CC__CPFCTR1_2	C_RESP_CC__CPFCTR1_2	
+ Hierarchy ZCBS	C_RESP_CC__C_FUNCT_0	C_RESP_CC__C_FUNCT_0	
Responsible CC - 1 Organisation	C_RESP_CC__C_FUNCT_1	C_RESP_CC__C_FUNCT_1	
Responsible CC - 2 Function	C_RESP_CC__C_FUNCT_2	C_RESP_CC__C_FUNCT_2	
Responsible CC - 3 Sub-function Grouping	C_RESP_CC__C_FUNCT_3	C_RESP_CC__C_FUNCT_3	
Responsible CC - 4 Sub-function	C_RESP_CC__C_FUNCT_4	C_RESP_CC__C_FUNCT_4	
Responsible CC - BSA group	C_RESP_CC__C_BSAGRP	C_RESP_CC__C_BSAGRP	
Responsible CC - Person Responsible (CCRESP)	C_RESP_CC__C_CCRESP	C_RESP_CC__C_CCRESP	
Responsible CC - Responsible Plant	C_RESP_CC__C_RPLANT	C_RESP_CC__C_RPLANT	
Responsible CC - Authorization scopce (c_authma)	C_RESP_CC__C_AUTHMA	C_RESP_CC__C_AUTHMA	
Responsible CC - Mixed Cost center	C_RESP_CC__C_MIXCC	C_RESP_CC__C_MIXCC	
Cost Center	C_COSTCTR	BSEG-KOSTL	
Site Restated	C_SITER	Use attribiute C_siter of Oplant If attribiute is empty or no plant use 0C	Use attribiute C_... If attribiute is em
COST ELEMENT			

5 MAPPING Hierarchie L5 ANAPLAN/F2G SCOPE 2 GBU DE FACT

FI - Tab Sample COGS	ZFI_SAMPLE_COGS	Change	DataSources	WV1_400
Data Flow Upwards	_DATAFLOW_UPWARDS			
ZFI_SAMPLE_COGS / WV1_400 -> APCOCT08	DTP_B1FNYSNDTRTOOXRRYD1UXJEPP	Change		
Sample WP1	APCOCT08	Manage	InfoProviders	
RSDS ZFI_SAMPLE_COGS WV1_400 -> ADSO APCOCT08	078IY19569FXFBK14M7Z4GECR1VWU31C	Change		
Sample WP1	APCOCT08	Manage	InfoProviders	

aDSO creation has been made :

- APCOCT08 with PK:
  - 0LOGSYS
  - C\_COMPCODE
  - 0CALYEAR
  - 0AC\_DOC\_NO
  - 0ITEM\_NUM

Rules In start routine:

SITER field determination, with dso DPCOMPCD(DSO : Company Code Specific Attributes Purchasing) with company code

and OPLANT master data with plant

```
***$ begin of routine - insert your code only below this line
CALL FUNCTION 'Z_WBW_SOURCE_SYSTEM'
  EXPORTING
    ip_landscape      = 'RCS'
  IMPORTING
    ip_source_system = w_logsys.

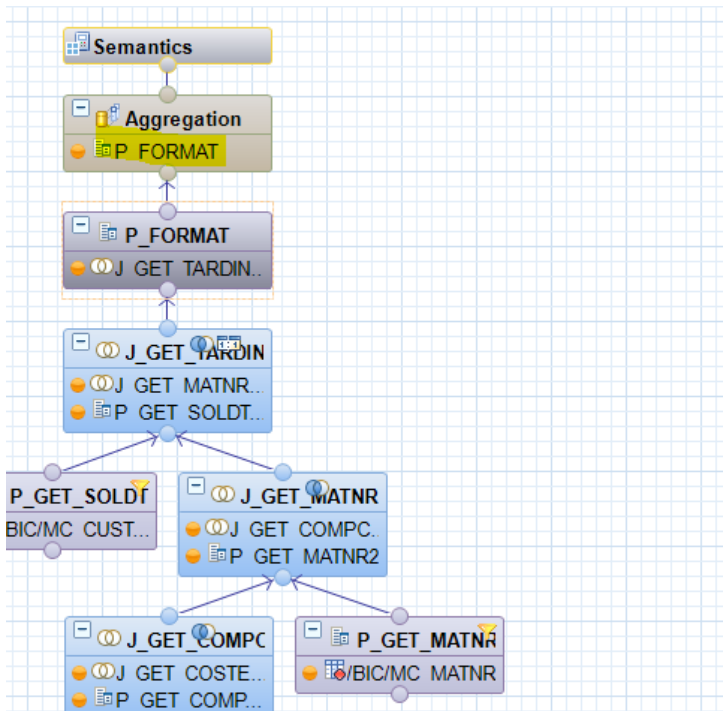
SELECT * FROM /bic/adpcompd00 INTO TABLE it_siter
  FOR ALL ENTRIES IN SOURCE_PACKAGE
  WHERE /bic/c_compcde = SOURCE_PACKAGE-bukrs.
IF sy-subrc = 0.
  SORT it_siter BY logsys /bic/c_compcde.
  DELETE it_siter WHERE logsys <> w_logsys.
  SORT it_siter BY /bic/c_compcde.
ENDIF.

SELECT * FROM /bi0/mplant INTO TABLE it_plant
  FOR ALL ENTRIES IN SOURCE_PACKAGE
  WHERE plant = SOURCE_PACKAGE-werks
  AND objvers = 'A'.
IF sy-subrc = 0.
  SORT it_plant BY plant.
ENDIF.
```

in target part for master data C\_SITER:

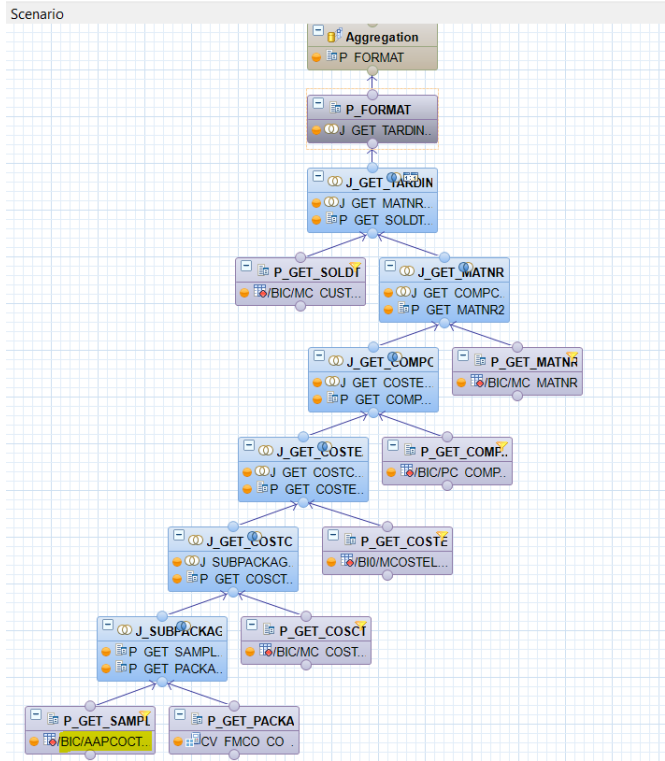
First get C\_SITE data in OPLANT (internal table IT\_PLANT) and if no data get C\_SITER in dso DPCOMPCD (internal table IT\_SITER)





- \_BIC\_C\_SITE:** J\_GET\_TARDING\_PART.\_BIC\_C\_SITE
- PCOMPANY:** J\_GET\_TARDING\_PART.PCOMPANY
- ▼ **Calculated Columns**
  - CC\_FLOW**
  - CC\_VTYPE**
  - CC\_VDETAIL**
  - CC\_METYPE**
  - CC\_SPECPER**
  - CK\_TGT\_CONS\_CURR\_AMOUNT**
  - CK\_LOC\_CONS\_CURR\_AMOUNT**
  - CC\_TGT\_CURRENCY**
  - LASTDAYLASTPERIOD**
  - CC\_CURRCONVDT**
  - CK\_TGT\_CURR\_AMOUNT**
  - FISCVARNT**
  - CC\_EXCH\_RATE**
  - CC\_VERSN2**
  - CC\_CURTYPE**
  - C\_CTRECTY**
- ▼ **Input Parameters**

Solvay.IA\_FMCO.IA\_FMCO\_CO.IA\_FMCO\_CO\_CT:CV\_FMCO\_CO\_CT\_SAMPLE



this calculation view is used in composite provider CPCOCT01.

### Non ERP flow CYTEC CBS

Goal: Load from CYTEC Non ERP data (Bex COSTA) for cost center and cost element to:

- cube CUB\_FC007 (ods ODSBCCA9)
- master data 0C\_COSTCTR
- master data 0COSTELMNT

Needs column "Y" of "Step 1 - Axis , Filters and authorization" excel file:

	A	B	Y
1			NON ERP
2		Technical Object	ODSBCCA9
3	Source		
4	Main Filter		
5			
6	Responsible Cost Center		
7	Controlling Area	CO_AREA	
8	Responsible CC	C_RESP_CC	C_COSTCTR
9	Responsible CC - BFC GBU	C_RESP_CC_CPFCTR1_2	C_RESP_CC_CPFCTR1_2
10	+ Hierarchy ZCBS	C_RESP_CC_C_FUNCNT_0	C_RESP_CC_C_FUNCNT_0
	Responsible CC - 1 Organisation	C_RESP_CC_C_FUNCNT_1	C_RESP_CC_C_FUNCNT_1
	Responsible CC - 2 Function	C_RESP_CC_C_FUNCNT_2	C_RESP_CC_C_FUNCNT_2
	Responsible CC - 3 Sub-function Grouping	C_RESP_CC_C_FUNCNT_3	C_RESP_CC_C_FUNCNT_3
	Responsible CC - 4 Sub-function	C_RESP_CC_C_FUNCNT_4	C_RESP_CC_C_FUNCNT_4
11	Responsible CC - BSA group	C_RESP_CC_C_BSAGRP	C_RESP_CC_C_BSAGRP
12	Responsible CC - Person Responsible (CCRESP)	C_RESP_CC_C_CCRESP	C_RESP_CC_C_CCRESP
13	Responsible CC - Responsible Plant	C_RESP_CC_C_RPLANT	C_RESP_CC_C_RPLANT
14	Responsible CC - Authorization scope (c_authma)	C_RESP_CC_C_AUTHMA	C_RESP_CC_C_AUTHMA
15	Responsible CC - Mixed Cost center	C_RESP_CC_C_MIXCC	C_RESP_CC_C_MIXCC
16	Cost Center	C_COSTCTR	C_COSTCTR
17	Site Restated	C_SITER	Use attribute C_siter of Oplant If attribute is empty or no plant use 0C

Loading is made in program ZBW\_CYTEC\_CBS and download in AL11 directory with csv file:

- /exploit/BW/Cytec/cbs\_function\_costs\_cytec\_NARAUJO.csv

3 process chain are used for load NERP data in cube and 2 master data:

- PC\_FC\_CYTEC\_003
- PC\_FC\_CYTEC\_002
- PC\_FC\_CYTEC\_001

PSA deletion has been made in program with process chain:

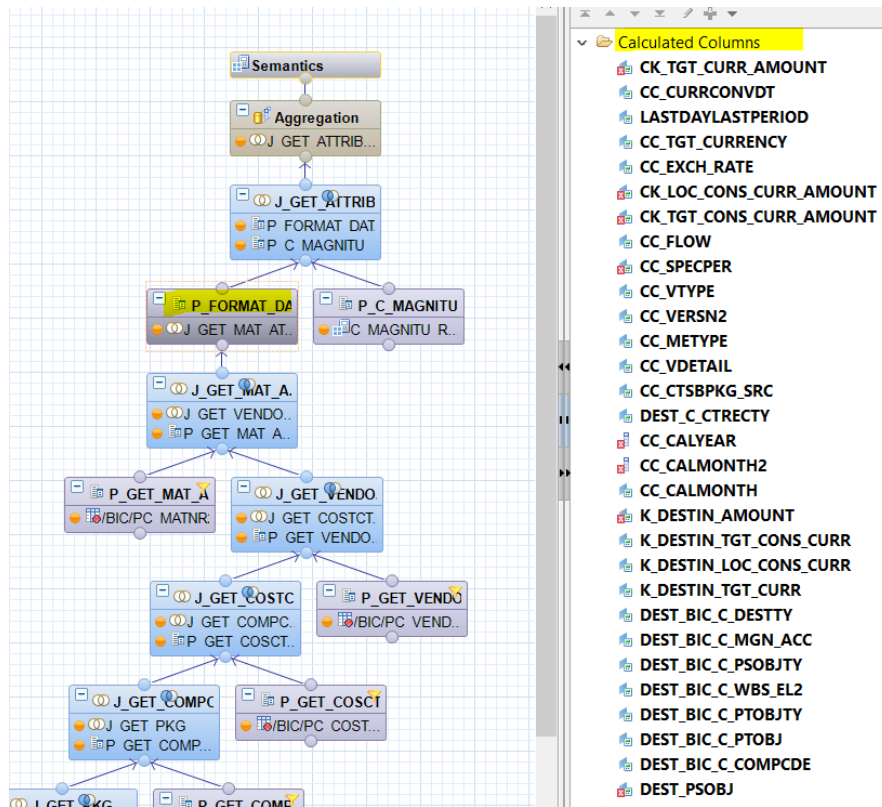
- PC\_FC\_CYTEC\_003A
- PC\_FC\_CYTEC\_002A
- PC\_FC\_CYTEC\_001A

NERP BW Flow:

<ul style="list-style-type: none"> <li>Cost Centers: Actual Costs (External data) <ul style="list-style-type: none"> <li>TRSF: DTS_CC_ACTUAL_COST_EXTERNAL -&gt; ODSBCCA9 (ext.data) <ul style="list-style-type: none"> <li>Cost Centers: Actual Costs - Line Items (external data) <ul style="list-style-type: none"> <li>Copy Infopackage</li> <li>IP: DTS_CC_ACTUAL_COST_EXTERNAL -&gt; ODSBCCA9</li> <li>IP: DTS_CC_ACTUAL_COST_EXTERNAL -&gt; ODSBCCA9 (F.file server)</li> </ul> </li> </ul> </li> <li>Data Transfer Processes <ul style="list-style-type: none"> <li>DTP: DTS_CC_ACTUAL_COST_EXTERNAL -&gt; ODSBCCA9 (ext.data)</li> </ul> </li> <li>Data Flow Upwards <ul style="list-style-type: none"> <li>DTP: ODSBCCA9 -&gt; CUB_FC007 (delta ext.data)</li> <li>TRSF: ODSBCCA9 -&gt; CUB_FC007 (External data)</li> </ul> </li> </ul> </li> </ul>	<pre> ODSBCCA9 0M7PNVR8S02GQCSIU27UH87R0BLH9JZE DTS_CC_ACTUAL_COST_EXTERNAL ZPAK_5NHC11RT2GT8RQ9TUB9WQ8T OF ZPAK_55IR6JLYZXS6S6G5EZ91EHYDRE ZPAK_55PZEC66KJMURCDBGM5WXY90Q ODSBCCA9 DTP_55IR6JLYZXS6S6G5EZ91EHYDRE _DATAFLOW_UPWARDS DTP_55GC7JUHV11OPT418GRXDBV3E 07ICZJO6JY6PDADB98ZH3S3WOC100FQ </pre>
--	---

dso is used in calculation view CV\_FMCO\_CO\_CT\_NERP\_COMPO and get in left join several fields.

There are calculated columns in projection P\_FORMAT:





Step 1 - Axis, Filters and authorization

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	A	B	AE	AF
1				BUDGET FLOW
2		Technical Object		
3	Source			
4	Main Filter			
5				
6	Responsible Cost Center			
7	Controlling Area	CO_AREA		CO_AREA if feeded else #
8	Responsible CC	C_RESP_CC	object (s	C_RESP_CC if C_RESP_CC feeded else #
9	Responsible CC - BFC GBU	C_RESP_CC_CPFCTR1_2		C_RESP_CC_CPFCTR1_2 if C_RESP_CC feeded else CPFCTR1_2
10	+ Hierarchy ZCBS	C_RESP_CC_C_FUNCNT_0		C_RESP_CC_C_FUNCNT_0 if C_RESP_CC feeded else ???
	Responsible CC - 1 Organisation	C_RESP_CC_C_FUNCNT_1		C_RESP_CC_C_FUNCNT_1 if C_RESP_CC feeded else ???
	Responsible CC - 2 Function	C_RESP_CC_C_FUNCNT_2		<b>C_RESP_CC_C_FUNCNT_2 if C_RESP_CC feeded else ???</b>
	Responsible CC - 3 Sub-function Grouping	C_RESP_CC_C_FUNCNT_3		C_RESP_CC_C_FUNCNT_3 if C_RESP_CC feeded else ???
	Responsible CC - 4 Sub-function	C_RESP_CC_C_FUNCNT_4		C_RESP_CC_C_FUNCNT_4 if C_RESP_CC feeded else C_FUNCNT_4
11	Responsible CC - BSA group	C_RESP_CC_C_BSAGRP		C_RESP_CC_C_BSAGRP if C_RESP_CC feeded else C_FUNCNT_4_C_BSAGRP
12	Responsible CC - Person Responsible (CCRESP)	C_RESP_CC_C_CCRESP		C_RESP_CC_C_CCRESP if C_RESP_CC feeded else #
13	Responsible CC - Responsible Plant	C_RESP_CC_C_RPLANT		C_RESP_CC_C_RPLANTif C_RESP_CC feeded else #
14	Responsible CC - Authorization scope (c_authma)	C_RESP_CC_C_AUTHMA		<b>C_RESP_CC_C_AUTHMA if C_RESP_CC feeded else SOLVAY</b>
15	Responsible CC - Mixed Cost center	C_RESP_CC_C_MIXCC		C_RESP_CC_C_MIXCC if C_RESP_CC feeded else ???
16	Cost Center	C_COSTCTR		C_RESP_CC if C_RESP_CC feeded else #
17	Site Restated	C_SITER		Use attribiute C_siter of Oplant MP_CC If attribute is empty or no plant use 0COMP_CODE to search in DSO DPCOMPCD

**Template of Budget flat file :**

[https://drive.google.com/file/d/1ZXrDbPIY5rZfbl3YsWGoAZhnJHRtGum\\_/view](https://drive.google.com/file/d/1ZXrDbPIY5rZfbl3YsWGoAZhnJHRtGum_/view)

aDSO has been created for get Budget data from AL11 folder:

- APCOCT12
- /exploit/BW/COSTA/budget\_costa.csv

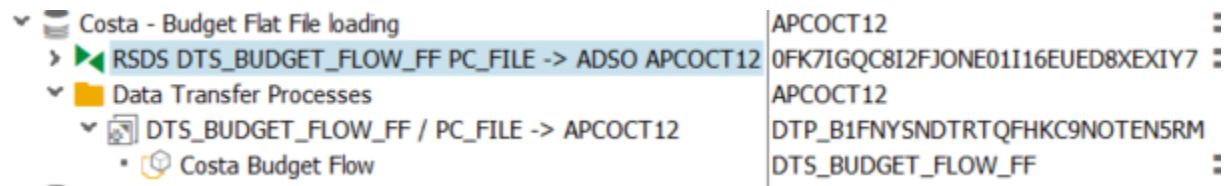
An event have been created for data loading in BW side:

- Z\_EVT\_START\_PC\_CT\_BUDGET\_01

Process chain is:

- PC\_CT\_BUDGET\_01

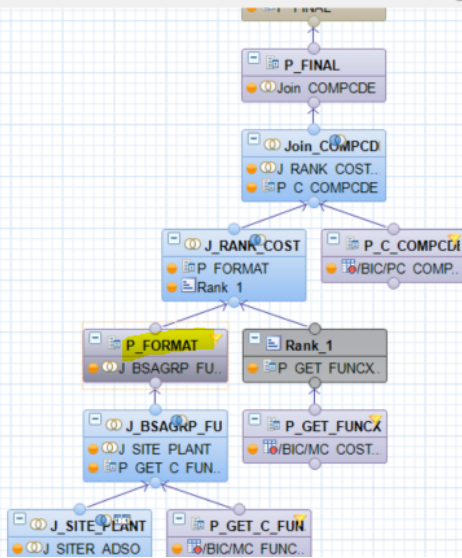
**Budget BW flow:**



aDSO APCOCT12 is used in calculation view CV\_FMCO\_CO\_CT\_BUDGET\_FLOW and get in left join several fields.

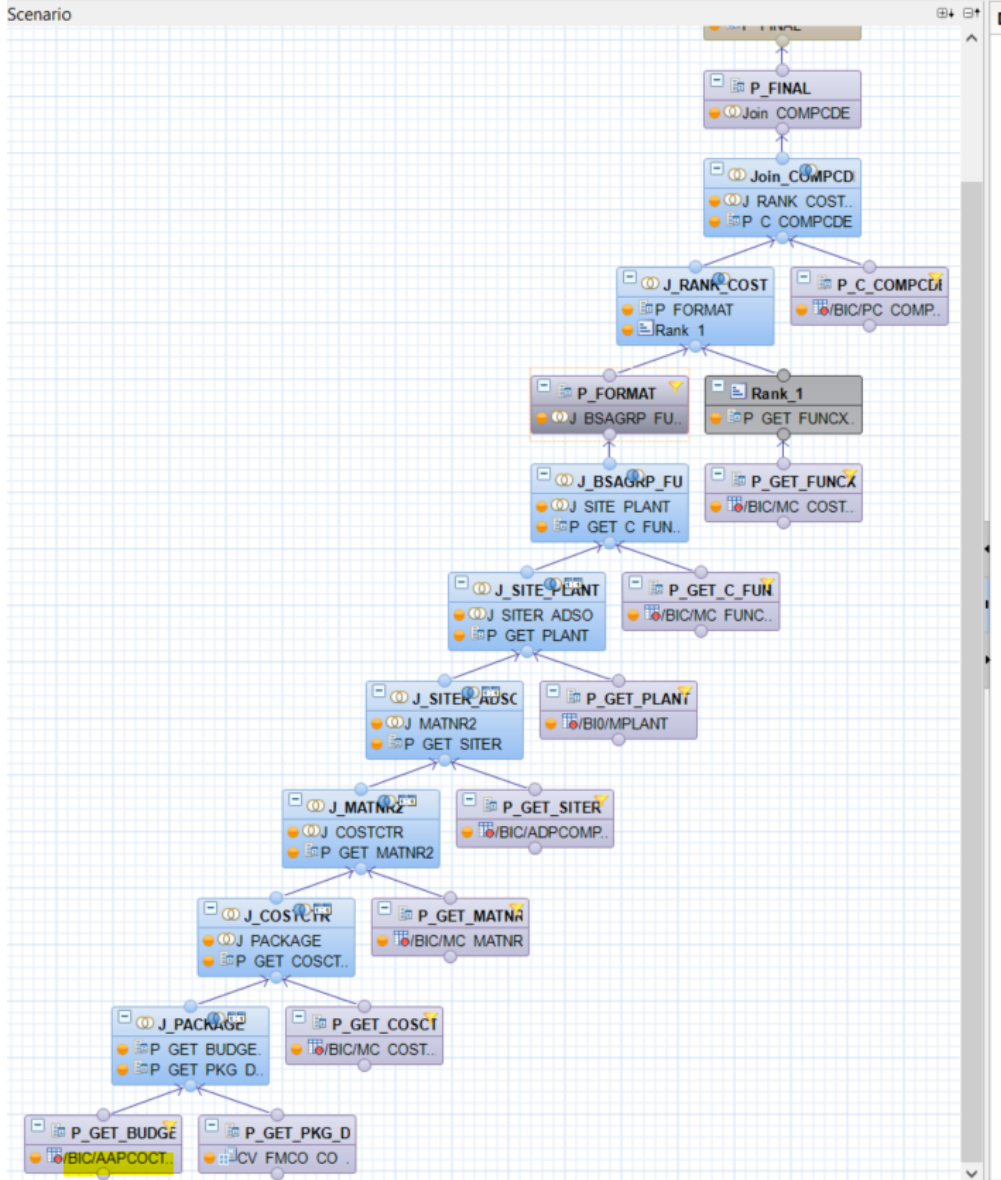
There are calculated columns in projection P\_FORMAT:

scenario



Output

- \_BIC\_C\_COMPCDE: J\_BSAGRP\_FU
- VIEW\_BIC\_C\_FUNCT\_0: J\_BSAGRP
- VIEW\_BIC\_C\_FUNCT\_1: J\_BSAGRP
- VIEW\_BIC\_C\_FUNCT\_2: J\_BSAGRP
- VIEW\_BIC\_C\_FUNCT\_3: J\_BSAGRP
- Calculated Columns
  - C\_SITE
  - CPFCTR1\_2
  - C\_FUNCT\_4
  - C\_AUTHMA
  - C\_BSAGRP
  - K\_INTRAT
  - CC\_VDETAIL
  - CC\_METYPE
  - CC\_VTYPE
- Input Parameters
  - IP\_REF\_DATE
  - IP\_ERP\_SYSLOG
  - IP\_BW\_CLIENT
  - IP\_EXCH\_RATE
  - IP\_TGT\_CUJRR



this calculation view is used in composite provider CPCOCT01.

## IFRS16 FIAP lease Rhodia and Solvay

Goal is to get data in dso DBFIPA10 CAPEX Rhodia - FIAP Lease and DBFIPA11 CAPEX Solvay - FIAP Lease.

There are not specific program but there are calculation view with several left join to get several fields.

Needs column "V" and "W" of "Step 1 - Axis , Filters and authorization" excel file:

Step 1 - Axis, Filters and authorization

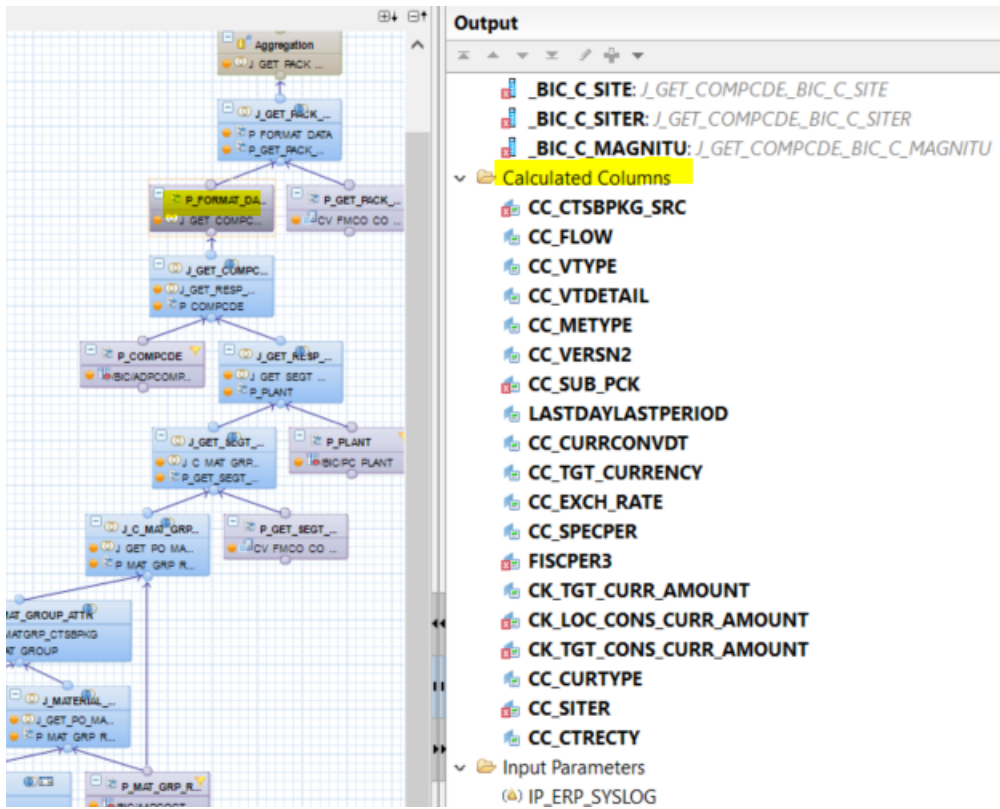
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	A	B	V	W
1			IFRS16	
2		Technical Object		
3	Source		DBFIPA10 CAPEX Rhodia - FIAP Lease	DBFIPA11 CAPEX Solvay - FIAP Lease
4	Main Filter			
5				
6	Responsible Cost Center			
7	Controlling Area	CO_AREA	OCO_AREA	
8	Responsible CC	C_RESP_CC	Cost center du contrat (C_RECONTR__C_COSTCTR)	Cost center du contrat (C_RECONTR__C_COSTCTR) or logsys/co
9	Responsible CC - BFC GBU	C_RESP_CC_CPFCTR1_2	C_RESP_CC_CPFCTR1_2	
10	+ Hierarchy ZCBS	C_RESP_CC_C_FUNCT_0	C_RESP_CC_C_FUNCT_0	
	Responsible CC - 1 Organisation	C_RESP_CC_C_FUNCT_1	C_RESP_CC_C_FUNCT_1	
	Responsible CC - 2 Function	C_RESP_CC_C_FUNCT_2	C_RESP_CC_C_FUNCT_2	
	Responsible CC - 3 Sub-function Grouping	C_RESP_CC_C_FUNCT_3	C_RESP_CC_C_FUNCT_3	
	Responsible CC - 4 Sub-function	C_RESP_CC_C_FUNCT_4	C_RESP_CC_C_FUNCT_4	
11	Responsible CC - BSA group	C_RESP_CC_C_BSAGRP	C_RESP_CC_C_BSAGRP	
12	Responsible CC - Person Responsible (CCRESP)	C_RESP_CC_C_CCRESP	C_RESP_CC_C_CCRESP	
13	Responsible CC - Responsible Plant	C_RESP_CC_C_RPLANT	C_RESP_CC_C_RPLANT	
14	Responsible CC - Authorization scope (c_authma)	C_RESP_CC_C_AUTHMA	C_RESP_CC_C_AUTHMA	
15	Responsible CC - Mixed Cost center	C_RESP_CC_C_MIXCC	C_RESP_CC_C_MIXCC	
16	Cost Center	C_COSTCTR	Cost center du contrat (C_RECONTR__C_COSTCTR)	
17	Site Restated	C_SITER	Use attribute C_siter of Oplant If attribute is empty or no plant use OCOMP_CODE to search in DSO DPC	Use attribute C_siter of Oplant If attribute is empty or no plant use OCOMP_CODE to search in DSC

dso are used in calculation view CV\_FMCO\_CO\_CT\_WCFI\_LEASE\_COMPO\_RHODIA and CV\_FMCO\_CO\_CT\_WCFI\_LEASE\_COMPO\_SOLVAY get in left join several fields.





this calculation view is used in composite provider CPCOCT01.

## Corrective Flow

Goal is to actual and quantity correction in COSTA flow.

Needs column "AD" of "Step 1 - Axis , Filters and authorization" excel file:

Step 1 - Axis , Filters and authorization

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A4 Main Filter

	A	B	AC	AD
1				CORRECTIVE FLOW
2		Technical Object		APCOCT07
13	Responsible CC - Responsible Plant	C_RESP_CC__C_RPLANT		C_RESP_CC__C_RPLANT
14	Responsible CC - Authorization scope (c_authma)	C_RESP_CC__C_AUTHMA		C_RESP_CC__C_AUTHMA
15	Responsible CC - Mixed Cost center	C_RESP_CC__C_MIXCC		C_RESP_CC__C_MIXCC
16	Cost Center	C_COSTCTR		C_COSTCTR
17	Site Restated	C_SITER	tribute Use attribute C_siter of Oplant oute is If attribute is empty or no plant use 0COST	
18	COST ELEMENT			
19				
	Cost Element	0COSTELMNT		0COSTELMNT
20		0COSTELMNT__C_CELTHF1 0COSTELMNT__C_CELTHF2 0COSTELMNT__C_CELTHF3 0COSTELMNT__C_CELTHF4		0COSTELMNT__C_CELTHF1 0COSTELMNT__C_CELTHF2 0COSTELMNT__C_CELTHF3 0COSTELMNT__C_CELTHF4
21	Cost Element - Fixed cost Group xx (cost element hierarchy)			
22	Cost Element - Category	0COSTELMNT__0CSTELMNTYP		0COSTELMNT__0CSTELMNTYP
23	Cost Element-Variable Cost Element	0COSTELMNT__C_VRCOSTL		0COSTELMNT__C_VRCOSTL
24	Company Code			
25	Company code	C_COMPCDE		Company Code Of the Orgin Object (see
26	Company code - Methode de conso	C_COMPCDE__C_CSMETH		C_COMPCDE__C_CSMETH
27	Company code - PRS Compnay Code	C_COMPCDE__C_COMPPRS		C_COMPCDE__C_COMPPRS
28	Company code - Country	C_COMPCDE__0COUNTRY		C_COMPCDE__0COUNTRY
29	Company code - Geography / Zone	C_COMPCDE__C_ZONE		C_COMPCDE__C_ZONE

Template of file for program ZBW\_CORR\_FLOW (transaction ZBW\_COR\_COSTA):

<https://drive.google.com/file/d/1uqEi9r36N6ok6n2n3ob3AfiXuSBJfvRp/view>

Loading is made in program ZBW\_CORR\_FLOW and download in AL11 directory with csv file:

- /exploit/BW/COSTA/CORR/corr\_costa.csv

aDSO have been created:

- APCOCT07

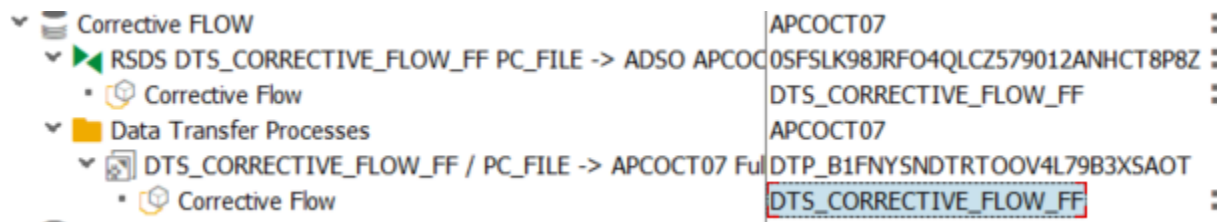
No event have been created for data loading in BW side:

- loading is made on demand

Process chain is:

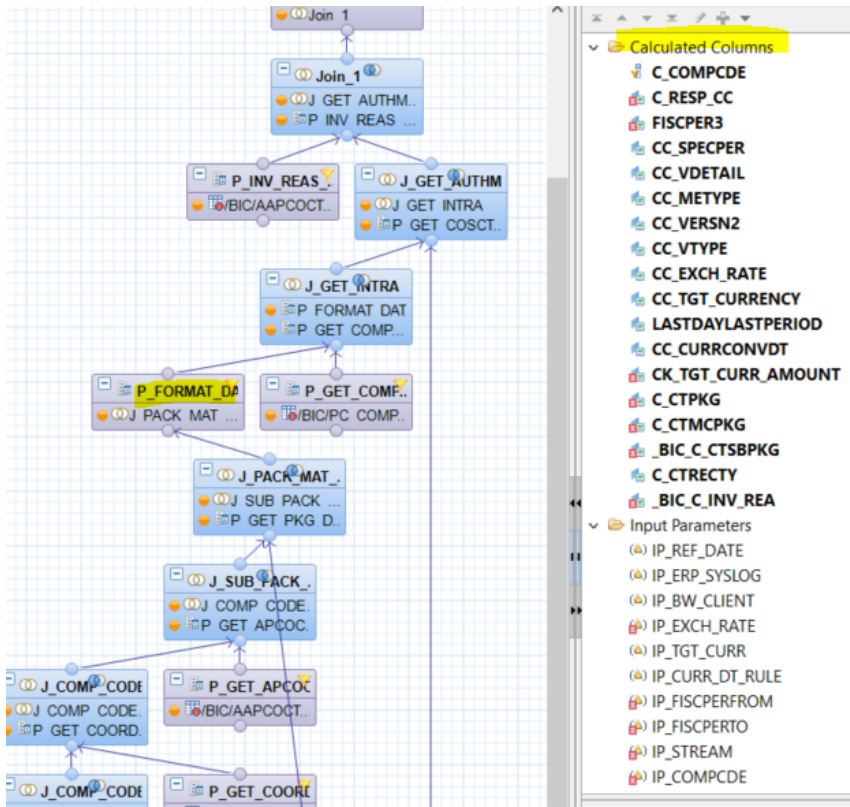
- PC\_CT\_CORREC\_01

Budget BW flow:



aDSO APCOCT07 is used in calculation view CV\_FMCO\_CO\_CT\_CORR\_FLOW and get in left join several fields.

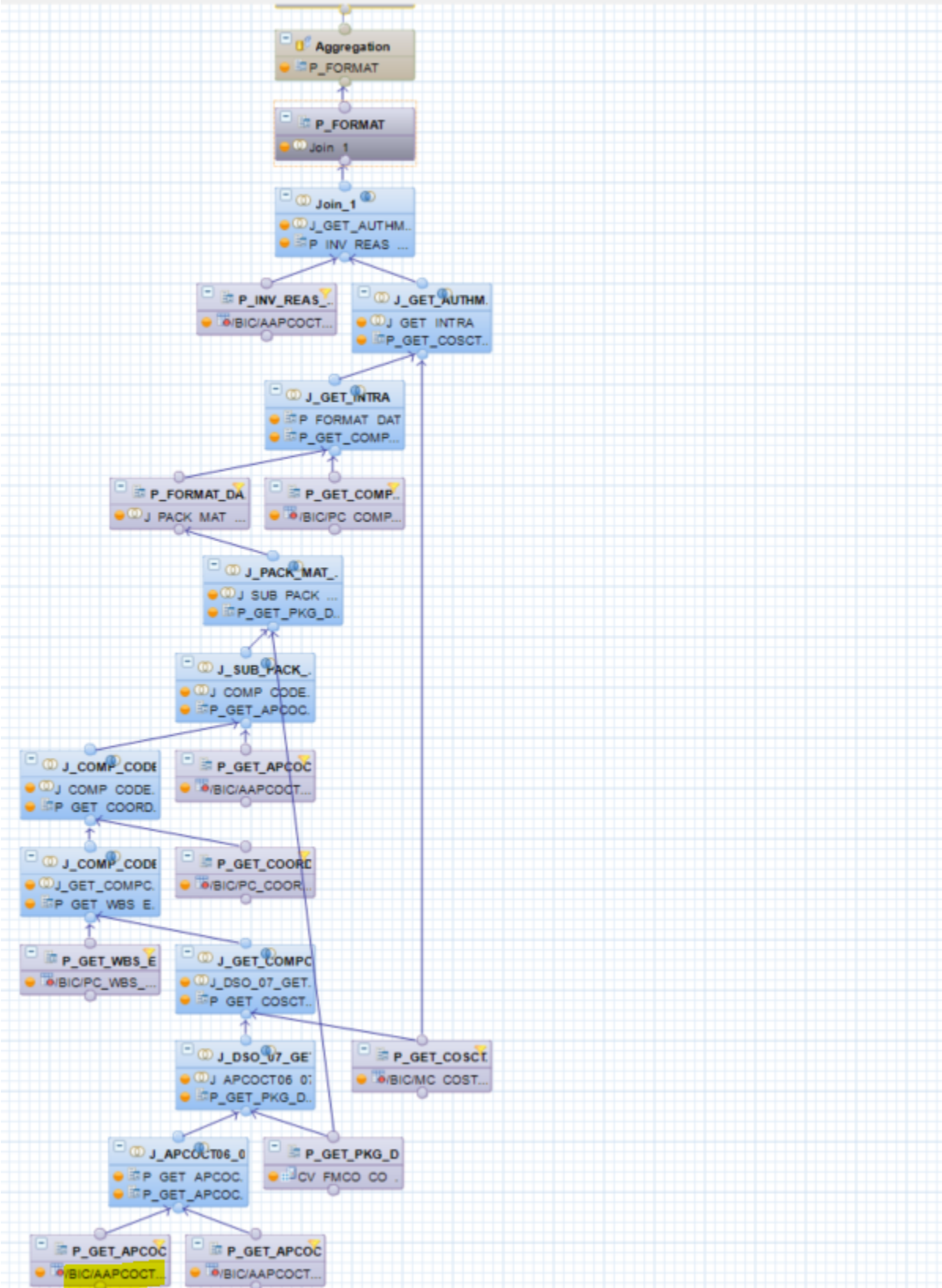
There are calculated columns in projection P\_FORMAT:



- Calculated Columns
  - C\_COMPCDE
  - C\_RESP\_CC
  - FISCPER3
  - CC\_SPECER
  - CC\_VDETAIL
  - CC\_METYPE
  - CC\_VERSN2
  - CC\_VTYPE
  - CC\_EXCH\_RATE
  - CC\_TGT\_CURRENCY
  - LASTDAYLASTPERIOD
  - CC\_CURRCONVDT
  - CK\_TGT\_CURR\_AMOUNT
  - C\_CTPKG
  - C\_CTMCPKG
  - \_BIC\_C\_CTSBPKG
  - C\_CTRECTY
  - \_BIC\_C\_INV\_REA
- Input Parameters
  - IP\_REF\_DATE
  - IP\_ERP\_SYSLOG
  - IP\_BW\_CLIENT
  - IP\_EXCH\_RATE
  - IP\_TGT\_CURR
  - IP\_CURR\_DT\_RULE
  - IP\_FISCPERFROM
  - IP\_FISCPERTO
  - IP\_STREAM
  - IP\_COMPCDE

# Solvay.IA\_FMCO.IA\_FMCO\_CO.IA\_FMCO\_CO\_CT::CV\_FMCO\_CO\_CT\_CORR\_FLOW1

Scenario



this calculation view is used in composite provider CPCOCT01.

## PCARD flow

Goal identify with a flag all CO document (at header level) link to PCARD Flow( COOM flow Solvay and Rhodia).

PCARD GL Account is put in table C\_GLBFILTR for determine relative CO document GL Account for PCARD, GL Account can be changed :

**WBD: Change Master Data of InfoObject C\_GLBFILTR**

Save and Activate | New | Delete Keys | Application Log | Most Recent Versions | Display Values without Master Data

Master data of characteristic C\_GLBFILTR saved  
The master data of characteristic C\_GLBFILTR was activated

**Selection**

Global Filter Stream (Application): FMCO\_CO\_CT To:

Global Filter Rule: GLACCOUNT To:

Global Filter:  To:

Maximum No. of Hits: 200

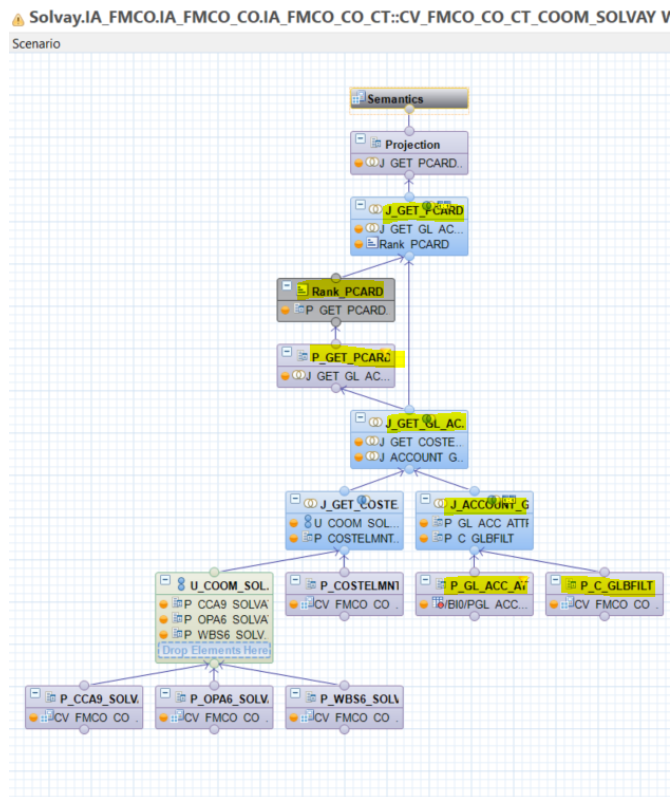
Search | Reset

**Master Data**

Time Independent

Global Filter Stream (App.)	Global Filter Rule	Global Filter	Global Filter Description	Global Filter Sign	Global Filter Option	Global Filter Low Value	Global Fil...	Global
FMCO_CO_CT	GLACCOUNT	001	GLACCOUNT for PCARD		EQ	6649100344		Y
FMCO_CO_CT	GLACCOUNT	002	GLACCOUNT for PCARD		EQ	2740000011		Y

There are 2 HANA views, CV\_FMCO\_CO\_CT\_COOM\_SOLVAY and CV\_FMCO\_CO\_CT\_COOM\_RHODIA for determine PCARD flag:



## Networks substitution by WBS

Goal Before Origin/Destination Process replace the partner Object for 0NWA posting by WBS object.

Only for PF1 Solvay

For do this datasource have been used:

- 0ACTIVITY\_ATTR
- 0NETWORK\_ATTR

2 master data have been created:

- C\_NETACT compounding 0LOGSYS & C\_NETWORK
- C\_NETWORK compounding 0LOGSYS

The image shows two screenshots of the SAP Master Data Compounding configuration interface. The top screenshot is for characteristic C\_NETWORK, and the bottom screenshot is for characteristic C\_NETACT. Both screenshots show the 'Compounding' tab with a table of superior info objects.

**Top Screenshot: C\_NETWORK**

Characteristic: C\_NETWORK  
Long Description: Network (with System ID)  
Short Description: Network (with System)  
Version: Active (Saved) | Object Status: Active

Navigation: General | Business Explorer | Master Data/Texts | Hierarchy | Attributes | **Compounding**

Compounding:  Master Data Locally for Source System

Superior InfoObject	Version	Long Description	Reference Characteristic	Con
0LOGSYS	▲	Source System	0LOGSYS	

**Bottom Screenshot: C\_NETACT**

Characteristic: C\_NETACT  
Long Description: Network Activity (with System ID)  
Short Description: Net Act (with System)  
Version: Active (Saved) | Object Status: Active

Navigation: General | Business Explorer | Master Data/Texts | Hierarchy | Attributes | **Compounding**

Compounding:  Master Data Locally for Source System

Superior InfoObject	Version	Long Description	Reference Characteristic	Con
0LOGSYS	▲	Source System	0LOGSYS	
C_NETWORK	▲	Network (with System ID)	C_NETWORK	

Characteristic	C_NETWORK
Long Description	Network (with System ID)
Short Description	Network (with System
Version	Active

General Business Explorer Master Data/Texts Hierarchy **Attributes** Compounding

Delete Master Data with Orecordmode Navigation Attribute InfoProvider

Attribute	V...	Long Description	Ty.	Ti...	In...	O...	N...	A...	T...	Navigation Att. Desc
0COORD_TYPE		Order type	DIS			15				
0CO_AREA		Controlling area	DIS			4				
0CREATEDON		Date on which the record was	DIS			17				
0DOC_NUMBER		Sales document	DIS			5				
0S_ORD_ITEM		Sales document item	DIS			12				
C_COMPCODE		Company code	DIS			0				
C_PLANT		Plant	DIS			0				
C_WBS_EL2		WBS Element (with System ID)	DIS			0				
0PLANT		Plant	DIS			0				
C_PROJ_2		Project Definition	DIS			0				
0CH_ON		Last changed on	DIS			0				

Characteristic	C_NETACT
Long Description	Network Activity (with System ID)
Short Description	Net Act (with System
Version	Active

General Business Explorer Master Data/Texts Hierarchy **Attributes** Compounding

Delete Master Data with Orecordmode Navigation Attribute InfoProvider

Attribute	V...	Long Description	Ty.	Ti...	In...	O...	N...	A...	T...	Navigation Att. D
0ACTTYPE		Activity Type	DIS			1				
0CO_AREA		Controlling area	DIS			5				
C_PLANT		Plant	DIS			0				
C_WBS_EL2		WBS Element (with System ID)	DIS			0				
0PLANT		Plant	DIS			0				
C_PROJ_2		Project Definition	DIS			0				
0CH_ON		Last changed on	DIS			0				
0CREATEDON		Date on which the record was	DIS			0				

DTP's have been created on ODP.

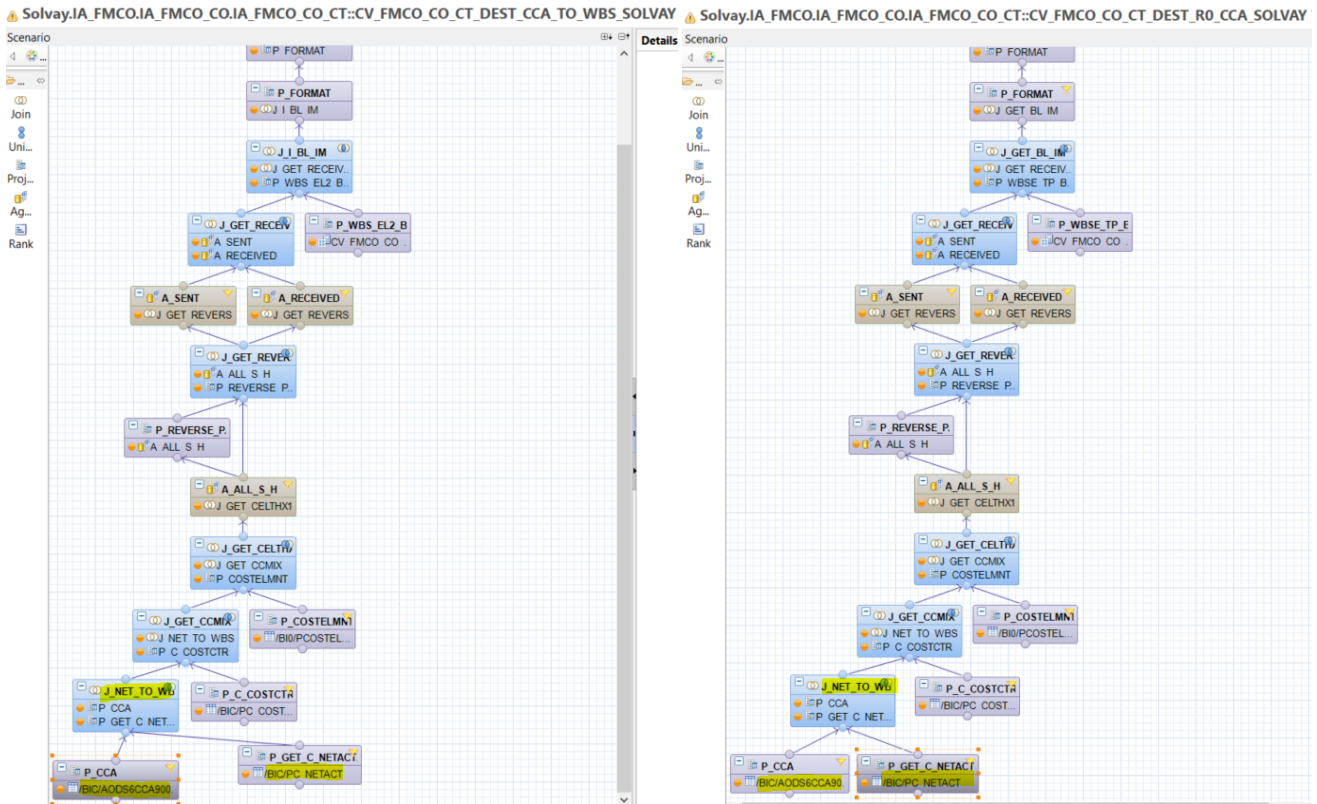
Transformation's are on direct mapping without trasnformation rules.

Activity Number in Network and Standard Network	<b>0ACTIVITY_ATTR</b>
Data Flow Upwards	_DATAFLOW_UPWARDS
DTP: 0ACTIVITY_ATTR -> C_NETACT - Full	DTP_B1FNYSNDRTRT OPHO3PCS GAYRLB
Network Activity (with System ID) (Attributes)	ATTRIBUTES C_NETACT
RSDS 0ACTIVITY_ATTR SF1_020 -> IOBJ C_NETACT	06F08U0YJUHTRQ E9EBDKLEE4GVT6924N
Network Activity (with System ID) (Attributes)	ATTRIBUTES C_NETACT
Activity number in network and standard network	0ACTIVITY_TEXT
Network Number	<b>0NETWORK_ATTR</b>
Data Flow Upwards	_DATAFLOW_UPWARDS
0NETWORK_ATTR / SF1_020 -> C_NETWORK	DTP_B1FNYSNDRTRT OPHO56LQDFVSHP
Network (with System ID) (Attributes)	ATTRIBUTES C_NETWORK
RSDS 0NETWORK_ATTR SF1_020 -> IOBJ C_NETWORK	01SGPEFIDJDU OPUMXK9I06GGA03F1F0L
Network (with System ID) (Attributes)	ATTRIBUTES C_NETWORK

Loading has been made in process chain PC\_CT\_MD\_01 (daily loading)

Impacted HANA views:

- CV\_FMCO\_CO\_CT\_DEST\_R0\_CCA\_SOLVAY
- CV\_FMCO\_CO\_CT\_DEST\_CCA\_TO\_WBS\_SOLVAY



Left join has been made between source table ODS6CCA9 and master data(MD) C\_NETACT join on:

- (SOURCE) LOGSYS = (MD) LOGSYS
- (SOURCE) PIOVALUE = (MD) CC\_PIOVALUE\_MD
- (SOURCE) PIOBSV = (MD) CC\_PIOBSV\_MD

PIOVALUE network value

PIOBSV type of partner (here 0NWA)

Substitution have been made (0NWA "Network" 0POS "WBS") if in source (ODS6CCA9) PIOBSV = "0NWA" and DB\_CR\_IND = "H"

Calculated columns for J\_NET\_TO\_WBS node of view:

### View Calculated Column

Calculated columns are used to derive some meaningful information in the form of columns, from existing columns.

Name:*	PIOVALUE			
Data Type:	NVARCHAR	Length: 28	Scale:	
Expression				
<b>Expression Editor</b>				
<input checked="" type="checkbox"/> Validate Syntax				
Language: Column Engine				
<pre>IF(("CC_C_WBS_EL2_MD" != '' and "PIOBJSV_OLD" = '0NWA' and "DB_CR_IND" = 'H'),"CC_C_WBS_EL2_MD","PIOVALUE_OLD")</pre>				

### View Calculated Column

Calculated columns are used to derive some meaningful information in the form of columns, from existing columns.

Name:*	PIOBJSV			
Data Type:	NVARCHAR	Length: 4	Scale:	
Expression				
<b>Expression Editor</b>				
<input checked="" type="checkbox"/> Validate Syntax				
Language: Column Engine				
<pre>IF(("CC_C_WBS_EL2_MD" != '' and "PIOBJSV_OLD" = '0NWA' and "DB_CR_IND" = 'H'),'0POS',"PIOBJSV_OLD")</pre>				

### View Calculated Column

Calculated columns are used to derive some meaningful information in the form of columns, from existing columns.

Name:*	CC_PART_WBS			
Data Type:	NVARCHAR	Length: 24	Scale:	
Expression				
<b>Expression Editor</b>				
<input checked="" type="checkbox"/> Validate Syntax				
Language: Column Engine				
<pre>IF(("CC_C_WBS_EL2_MD" != '' and "PIOBJSV_OLD" = '0NWA' and "DB_CR_IND" = 'H'),"CC_C_WBS_EL2_MD","CC_PART_WBS_OLD")</pre>				

get only PIOBJSV = 0NWA of source table if match with LOGSYS and PIOVALUE(network value) get WBS from C\_NETACT and put 0POS for PIOBJSV

Result after join with C\_NETACT:

RB	PIOBJSV_OLD	RB	CC_PART_WBS_OLD	RB	CC_C_WBS_EL2_MD	RB	PIOVALUE	RB	PIOBJSV	RB	CC_PART_WBS
ONWA		6018250	0010	NHA.PX400	.ISAO	NHA.PX400	.IS...	OPOS		NHA.PX400	.ISAO
ONWA		6018250	0010	NHA.PX400	.ISAO	NHA.PX400	.IS...	OPOS		NHA.PX400	.ISAO
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018620	0010	NHA.PX422	.ISAL-R	NHA.PX422	.IS...	OPOS		NHA.PX422	.ISAL-R
ONWA		6018901	0010	NHA.PX615	.ISAO	NHA.PX615	.IS...	OPOS		NHA.PX615	.ISAO

Result before join with C\_NETACT:

RB	PIOBJSV_Ori	RB	PIOVALUE_ori	RB	LOGSYS	12	AMOUNT	RB	COSTELMNT	RB	PART_CCTR	RB	PIOVALUE	RB	PIOBJSV	RB	CC_PART_WBS
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-556	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-397,04	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-397,04	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-397,04	9161000022					6018620	0010	ONWA		6018620	0010
ONWA		6018620	0010	SF1_020		-397,04	9161000022					6018620	0010	ONWA		6018620	0010

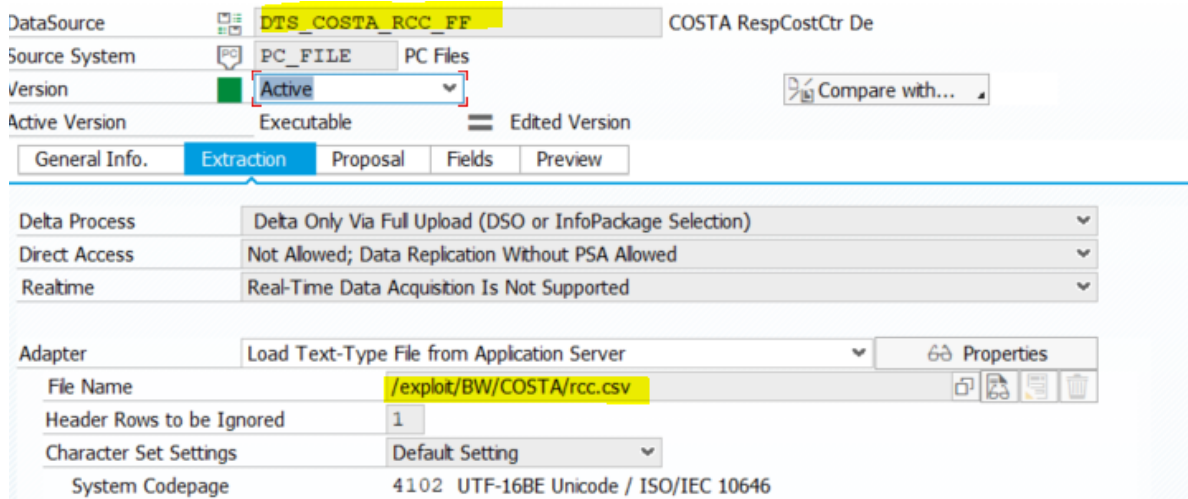
## Default Responsible Cost Center

Goal is to determine Responsible Cost Center with complex condition for CO-PA and FI flow.

This complex condition has been translated into technico-functional algorithm:

ALGO	Mécanisme de priorité	
0	GBU/Cost Package/Controlling Aera/Company/BFC activity 1	PLANT VIDE DANS LA TABLE EXCEPTION
1	GBU/Cost Package/Controlling Aera/Company	PLANT VIDE DANS LA TABLE EXCEPTION
2	GBU/Cost Macro Package/Controlling Aera/Plant	COMPANY VIDE DANS LA TABLE EXCEPTION
3	GBU/Controlling Aera/Plant	COMPANY /ALL PACKAGE VIDES DANS LA TABLE EXCEPTION
4	GBU/Macro Cost Package/Controlling Aera/Company	PLANT VIDE DANS LA TABLE EXCEPTION
5	GBU/Controlling Aera/Company	PLANT /ALL PACKAGE VIDES DANS LA TABLE EXCEPTION
6	"GBU&NC_RCC"	

Datasource with AL11 file link:



File has been created and downloaded with program **ZBW\_COSTA\_RCC** (template <https://drive.google.com/file/d/1o5MW7CEJXh1W-xmpaodjGTM9nj9ZSF/view>) and AL11 file data it's loaded in aDSO **APCOCT15** with process chain **PC\_CT\_RCC\_01**.

Impacted HANA Views:

- CV\_FMCO\_CO\_CT\_COPA\_COMPO\_RHODIA
- CV\_FMCO\_CO\_CT\_COPA\_COMPO\_SOLVAY
- CV\_FMCO\_CO\_CT\_FI\_COMPO\_RHODIA
- CV\_FMCO\_CO\_CT\_FI\_COMPO\_SOLVAY

Example with HANA View CV\_FMCO\_CO\_CT\_COPA\_COMPO\_RHODIA (same development for others HANA Views)



For determine "Responsible Cost Center" there are 6 steps:

**Step 1:**

- Get aDSO(APCOCT15) with uploaded data with program **ZBW\_COSTA\_RCC**
- Aggregation node with source data only with fields of aDSO:

- Columns
- CPFCTR1\_2: J\_COMI
- \_BIC\_C\_COMPDE: J
- CO\_AREA: J\_COMPC
- C\_CTPKG: J\_COMPC
- C\_CTMCPKG: J\_COM
- \_BIC\_C\_PLANT: J\_C
- \_BIC\_C\_MAGNITU:

**Step 2:**

- inner join with 2 nodes on CO\_AREA and CPFCTR1\_2 (GBU) because GBU and CO\_AREA are always in condition.

0	GBU/Cost Package/Controlling Aera/Company/BFC activity1
1	GBU/Cost Package/Controlling Aera/Company
2	GBU/Cost Macro Package/Controlling Aera/Plant
3	GBU/Controlling Aera/Plant
4	GBU/Macro Cost Package/Controlling Aera/Company
5	GBU/Controlling Aera/Company
6	GBU&NC_RCC*

**Step 3:**

- Responsible Cost Center determination with complex condition with priority indicator creation 1 to 7

The screenshot shows the SAP BW Data Warehouse Designer interface. On the left, a data flow diagram is visible with nodes for Aggregation, Join, Projection, and Aggregation. A blue circle with the number '3' is placed around a Projection node. In the center, the 'Details' pane shows the configuration for a 'Join\_1' node, listing various table and column names such as 'TAB CPFCTR1\_2', 'TAB C\_CTMCPKG', 'CO\_AREA', 'C\_CTPKG', 'C\_CTMCPKG', 'BIC\_C\_PLANT', and 'BIC\_C\_MAGNITU'. On the right, the 'Output' pane shows a list of fields including '\_BIC\_C\_PLANT: Join', 'TAB\_C\_MAGNITU:', and 'BIC\_C\_MAGNITU:'. Below the main interface, there is a configuration window for a calculated column named 'CC\_PRIORITY'.

Name: CC\_PRIORITY

Data Type: INTEGER Length: Scale:

Expression Editor

```

if("TAB_C_PLANT"="" and "TAB_CPFCTR1_2"="CPFCTR1_2" and "TAB_C_CTPKG"="C_CTPKG" and "TAB_CO_AREA"="CO_AREA" and ".BIC_C_COMPDE"="TAB_C_COMPDE" and "TAB_C_MAGNITU" = ".BIC_C_MAGNITU",1,
if("TAB_C_PLANT"="" and "TAB_C_MAGNITU" = "" and "TAB_CPFCTR1_2"="CPFCTR1_2" and "TAB_C_CTPKG"="C_CTPKG" and "TAB_CO_AREA"="CO_AREA" and ".BIC_C_COMPDE"="TAB_C_COMPDE",2,
if("TAB_C_COMPDE"="" and "TAB_C_MAGNITU" = "" and "TAB_CPFCTR1_2"="CPFCTR1_2" and "TAB_C_CTMCPKG"="C_CTMCPKG" and "CO_AREA"="TAB_CO_AREA" and "TAB_C_PLANT"="".BIC_C_PLANT",3,
if("TAB_C_COMPDE"="" and "TAB_C_CTPKG"="" and "TAB_C_CTMCPKG"="" and "TAB_C_MAGNITU"="" and "TAB_CPFCTR1_2"="CPFCTR1_2" and "TAB_CO_AREA"="CO_AREA" and "TAB_C_PLANT"="".BIC_C_PLANT",4,
if("TAB_C_PLANT"="" and "TAB_C_MAGNITU" = "" and "TAB_CPFCTR1_2"="CPFCTR1_2" and "TAB_C_CTMCPKG"="C_CTMCPKG" and "TAB_CO_AREA"="CO_AREA" and ".BIC_C_COMPDE"="TAB_C_COMPDE",5,
if("TAB_C_CTPKG"="" and "TAB_C_PLANT"="" and "TAB_C_CTMCPKG"="" and "TAB_C_MAGNITU" = "" and "TAB_CPFCTR1_2"="CPFCTR1_2" and "TAB_CO_AREA"="CO_AREA" and ".BIC_C_COMPDE"="TAB_C_COMPDE",6,
7))))))
  
```

**Step 4:**

- Aggregation node for get min of PRIORITY field (if i have 1 and 4 indicator for same keys i prioritize indicator 1 not 4)
- without cost center and attributs fields

Before aggregation:

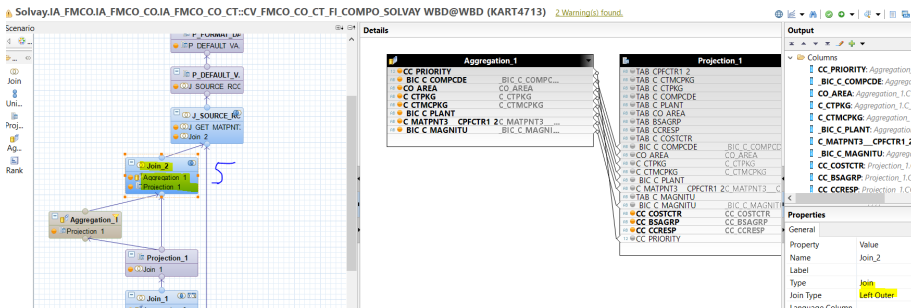
_BIC_C_COMP...	CO_AREA	C_CTPKG	C_CTMCPKG	_BIC_C_PLANT	C_MATPNT3__CPFCR1_2	_BIC_C_MAGNITU	CC_COSTCTR	CC_BSAGRP	CC_CCRES	CC_PRIORITY	CC_COSTCTR
5782	CHEF			MJS	SP	0010	4G1040000		50026590	2	# NC_RCC
5835	CHEF			RCF	SP	0046	B7126003X		FORTUNATO	5	
5782	CHEF	P10027	P00005	MJS	SP	0010	4G1040000		50026590	6	
5835	CHEF	P10031	P00005	SMF	SP	0049	B7126003X		FORTUNATO	2	
4060	CHEF	P10050	P00008	BWF	CH	CH33	2Y1130000		50033074	5	
5835	CHEF	P10050	P00008	SMF	SP	0049	1N1810004		Z.HADDAD	3	
5835	CHEF	P10050	P00008	SMF	SP	0049	B711604793		50032720	1	
5835	CHEF	P10050	P00008	6006	SP	0049	B711604793		50032720	1	
5835	CHEF	P10050	P00008	6006	SP	0049	1N1810009		Z.HADDAD	4	
4060	CHEF	P10051	P00008	BWF	CH	CH33	2Y1130000		50033074	5	
5835	CHEF	P10051	P00008	SMF	SP	0049	1N1810004		Z.HADDAD	3	
4060	CHEF	P10053	P00008	BWF	CH	CH33	2Y1130000		50033074	5	
5835	CHEF	P10053	P00008	SMF	SP	0049	1N1810004		Z.HADDAD	3	
5835	CHEF	P10054	P00008	SMF	SP	0049	1N1810004		Z.HADDAD	3	
5835	CHEF	P10054	P00008	6006	SP	0049	1N1810009		Z.HADDAD	4	
4060	CHEF	P10055	P00008	BWF	CH	CH33	2Y1130000		50033074	5	
5835	CHEF	P10055	P00008	6006	SP	0049	1N1810009		Z.HADDAD	4	
5782	CHEF	P19999	P09999	53ND	SP	0010	4G1040000		50026590	6	
5782	CHEF	P19999	P09999	MJS	SP	0010	4G1040000		50026590	6	
5782	CHEF	P19999	P09999	THF	SP	0049	4G1040000		50026590	6	
5782	CHEF	P19999	P09999	53KD	SP	0010	4G1040000		50026590	6	
5782	CHEF	P19999	P09999	5D30	SP	0010	4G1040000		50026590	6	
5782	CHEF	P19999	P09999	AQS	SP	0010	4G1040000		50026590	6	
5835	CHEF	P19999	P09999	6006	SP	0049	1N1810009		Z.HADDAD	4	

After aggregation:

_BIC_C_COMPDE	CO_AREA	C_CTPKG	C_CTMCPKG	_BIC_C_PLANT	C_MATPNT3__CPFCR1_2	_BIC_C_MAGNITU	CC_PRIORITY
5782	CHEF			MJS	SP	0010	2
5835	CHEF			RCF	SP	0046	5
5782	CHEF	P10027	P00005	MJS	SP	0010	6
5835	CHEF	P10031	P00005	SMF	SP	0049	2
5835	CHEF	P10050	P00008	SMF	SP	0049	1
5835	CHEF	P10050	P00008	6006	SP	0049	5
4060	CHEF	P10050	P00008	BWF	CH	CH33	1
5835	CHEF	P10051	P00008	SMF	SP	0049	3
4060	CHEF	P10051	P00008	BWF	CH	CH33	5
4060	CHEF	P10053	P00008	BWF	CH	CH33	5
5835	CHEF	P10053	P00008	SMF	SP	0049	3
5835	CHEF	P10054	P00008	6006	SP	0049	4
5835	CHEF	P10054	P00008	SMF	SP	0049	3
4060	CHEF	P10055	P00008	BWF	CH	CH33	5
5835	CHEF	P10055	P00008	6006	SP	0049	4
5782	CHEF	P19999	P09999	AQS	SP	0010	6
5835	CHEF	P19999	P09999	6006	SP	0049	4
5782	CHEF	P19999	P09999	53KD	SP	0010	6
5782	CHEF	P19999	P09999	53ND	SP	0010	6
5782	CHEF	P19999	P09999	5D30	SP	0010	6
5782	CHEF	P19999	P09999	THF	SP	0049	6
5782	CHEF	P19999	P09999	MJS	SP	0010	6

**Step 5:**

- Get coster and attributs filesd with left join



**Step 6:**

- left join with source data and step 5 node and get all others source data

Granularity it's the same between source node and semantics nodes

Result:

138 ms

Execute Add filter Sort entire data

CC_EXCLUSION_FLG	CC_EXCLUSION_REASON	CC_BIC_COMPDE	C_CTPNG	C_CTMCPKG	CC_PRIORITY	CC_COSTCTR	CC_C_PLANT	C_COMPDE_C_F
	5835	P19999	P09999		4	1N18100009	6006	
	5835	P10055	P00008		4	1N18100009	6006	
	5835	P10055	P00008		4	1N18100009	6006	
	5835	P10055	P00008		4	1N18100009	6006	
	5835	P10055	P00008		4	1N18100009	6006	
	5835	P19999	P09999		4	1N18100009	6006	
	5835	P19999	P09999		4	1N18100009	6006	
	5835	P19999	P09999		4	1N18100009	6006	
	5835	P10051	P00008		3	1N18100004	SMF	
	5835	P10051	P00008		3	1N18100004	SMF	
	5835	P10054	P00008		3	1N18100004	SMF	
	5835	P10054	P00008		3	1N18100004	SMF	
	5835	P10053	P00008		3	1N18100004	SMF	
	5835	P10053	P00008		3	1N18100004	SMF	
	5835	P10053	P00008		3	1N18100004	SMF	
	5835	P10053	P00008		3	1N18100004	SMF	
	5835	P10053	P00008		3	1N18100004	SMF	
	5782				2	4G10400000	MIS	
	5782				2	4G10400000	MIS	

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CH	SP	SP	SP	SP	SP	SP	SP	SP
	P00008		4060	CHEF	2Y11300000	N	50033074	RCC
			5782	CHEF	1N18100009	N	Z.HADDAD	RCC
		P10031	5835	CHEF	4G10400000	N	50026590	RCC
				CHEF	B72260003K	N	FORUNATO	RCC
		P10050	0049	CHEF	B711604793	N	50032720	RCC
	P00008		5835	SMF	1N18100004	N	Z.HADDAD	RCC

## GBU Billing

Goal is to get user fields in table PRPS in ERP side:

- ZZ\_LANDCSAPE : Partner CO Object Landscape (can be different of syslog)
- ZZ\_CO\_ACC\_ASGN\_TYPE : Acc Asgn Type (type for WBS = 'PR', ORDER = 'OR', COST = 'KS')
- ZZ\_CO\_ACC\_ASGN : WBS, ORDER, COST

Data source are PF1 and WP1:

- ZZ\_PRPS\_USER\_FIELDS : all fields of PRPS have been retrieved.

### BW side:

Source	Target
Costa - GBU Billing	APCOCT19
TRCS IFS_APCOCT19_INBOUND -> ADSO APCOCT19	00QT7CU08A7552FN8V6DCG845JLRWCVT
Inforsource APCOCT19 In	IFS_APCOCT19_INBOUND
RSDS ZZ_PRPS_USER_FIELDS DF1_020 -> TRCS IFS_APCOCT19_INBOUND	0QKR3Z3CK8BDU7W50NDZ23UK4DDIYXV8
PRPS New User Fields	ZZ_PRPS_USER_FIELDS
RSDS ZZ_PRPS_USER_FIELDS WD1_110 -> TRCS IFS_APCOCT19_INBOUND	0C4W2IDCS3VY2HLYYK3FU4F87M07Y0H
PRPS New User Fields	ZZ_PRPS_USER_FIELDS
Data Transfer Processes	APCOCT19
ZZ_PRPS_USER_FIELDS / DF1_020 -> APCOCT19	DTP_B1FNYSNDTRTQFTNLWZ09PIMTB
PRPS New User Fields	ZZ_PRPS_USER_FIELDS
ZZ_PRPS_USER_FIELDS / WD1_110 -> APCOCT19	DTP_B1FNYSNDTRTQFTNI6KU9ODPZZ
PRPS New User Fields	ZZ_PRPS_USER_FIELDS

There are 2 datasources 1 for PF1 and 1 for WP1.

There are 2 transformations 1 for PF1 and 1 for WP1.

There are 2 dtp 1 for PF1 and 1 for WP1.

There is 1 inforsource (1 transformation) for process 2 flow

aDSO APCOCT19

### Rules:

In 2 transformation (PF1 and WP1) i populate:

- C\_WBSBILL : with type ZZ\_CO\_ACC\_ASGN\_TYPE = 'PR' and put ZZ\_CO\_ACC\_ASGN (conversion exit have been made)

- C\_COCBILL : with type ZZ\_CO\_ACC\_ASGN\_TYPE = 'KS' and put ZZ\_CO\_ACC\_ASGN
- C\_ORDBILL : with type ZZ\_CO\_ACC\_ASGN\_TYPE = 'OR' and put ZZ\_CO\_ACC\_ASGN

Transformation: RSDS\_ZZ\_PRPS\_USER\_FIELDS DFI\_020 -> TRCS IFS\_AP... Runtime Status: Only ABAP runtime is supported

Source: PRPS New User Fields (ZZ\_PRPS\_USER\_FIELDS)  
Target: Infosource APCOCT19 In (IFS\_APCOCT19\_INBOUND)  
Version: Active

Active Version: Executable

Pos	Key	InfoObject	Icon	Descrpt.	Data t	Lngh
1		C_WBS_EL2		WBS Element (with System ID)	CHAR	000024
2		LOGSYS		Source System	CHAR	000010
3		ORECORDMODE		BW Delta Process: Update Mode	CHAR	000001
4		OCO_AREA		Controlling area	CHAR	000004
5		C_WBSBILL		WBS Element Billing	CHAR	000024
6		C_COCBILL		Cost Center Billing	CHAR	000010
7		C_ORDBILL		Order Billing	CHAR	000012
8		C_RCCBILL		Partner Responsible Cost Center Billing	CHAR	000020
9		C_GBUBILL		GBU Billing	CHAR	000002
10		C_COABILL		Controlling Area Billing	CHAR	000004
11		OCH_ON		Last changed on	DATS	000008
12		C_SYPARCO		Syslog Partner CO	CHAR	000010
13		OCREATEDON		Date on which the record was created	DATS	000008
14		OPLANT		Plant	CHAR	000004
15		C_ACCOTYP		CO Account Partner Object type	CHAR	000002
16		C_ACCCO		CO Account Partner Object	CHAR	000024

Infosource:

InfoSource Display: Overview

InfoSource: IFS\_APCOCT19\_INBOUND Infosource APCOCT19 In

Key	InfoObject	Field	Short Description	I...	T...	Check object	Unit	Type	Lng...	De...	Conv...	Item	Se...
	C_WBS_EL2	/BIC/C_WBS...	WBS Element Syst ID			C_WBS_EL2		CHAR	24	WBS...		1	1
	LOGSYS	LOGSYS	Source System					CHAR	10	ALPHA		2	1
	ORECORDMODE	RECORDMODE	Update Mode					CHAR	1			3	1
	OCO_AREA	CO_AREA	Controlling Area			OCO_AREA		CHAR	4			4	1
	C_WBSBILL	/BIC/C_WBSBI...	WBS Element Billing			C_WBSBILL		CHAR	24	WBS...		5	1
	C_COCBILL	/BIC/C_COCBI...	Cost Center Billing			C_COCBILL		CHAR	10	ALPHA		6	1
	C_ORDBILL	/BIC/C_ORDBI...	Order Billing			C_ORDBILL		CHAR	12			7	1
	C_RCCBILL	/BIC/C_RCCBILL	Partner Responsible			C_RCCBILL		CHAR	20			8	1
	C_GBUBILL	/BIC/C_GBUBI...	GBU Billing			C_GBUBILL		CHAR	2	ALPHA		9	1
	C_COABILL	/BIC/C_COABI...	Controlling Area Bil			C_COABILL		CHAR	4			10	1
	OCH_ON	CH_ON	Changed on					DATS	10			11	1
	C_SYPARCO	/BIC/C_SYPAR...	Syslog Partner CO			C_SYPARCO		CHAR	10	ALPHA		12	1
	OCREATEDON	CREATEDON	Created on					DATS	10			13	1
	OPLANT	PLANT	Plant			OPLANT		CHAR	4			14	1
	C_ACCOTYP	/BIC/C_ACCO...	CO Account Partner O			C_ACCOTYP		CHAR	2	ALPHA		15	1
	C_ACCCO	/BIC/C_ACCCO	CO Account Partner O			C_ACCCO		CHAR	24	ALPHA		16	1

in infosource transformation a process have been made for populate fields C\_RCCBILL, C\_GBUBILL, C\_COABILL for WP1 and PF1 together.

Transformation: TRCS IFS\_APCOCT19\_INBOUND -> ADSO APCOCT19 Runtime Status: Only ABAP runtime is supported

Source: Infosource APCOCT19 In (IFS\_APCOCT19\_INBOUND)  
Target: Costa - GBU Billing (APCOCT19)  
Version: Active

Active Version: Executable

Pos	Key	InfoObject	Icon	Descrpt.	Data t	Lngh
1		C_WBS_EL2		WBS Element (with System ID)	CHAR	000024
2		LOGSYS		Source System	CHAR	000010
3		ORECORDMODE		BW Delta Process: Update Mode	CHAR	000001
4		OCO_AREA		Controlling area	CHAR	000004
5		C_WBSBILL		WBS Element Billing	CHAR	000024
6		C_COCBILL		Cost Center Billing	CHAR	000010
7		C_ORDBILL		Order Billing	CHAR	000012
8		C_RCCBILL		Partner Responsible Cost Center Billing	CHAR	000020
9		C_GBUBILL		GBU Billing	CHAR	000002
10		C_COABILL		Controlling Area Billing	CHAR	000004
11		OCH_ON		Last changed on	DATS	000008
12		C_SYPARCO		Syslog Partner CO	CHAR	000010
13		OCREATEDON		Date on which the record was created	DATS	000008
14		OPLANT		Plant	CHAR	000004
15		C_ACCOTYP		CO Account Partner Object type	CHAR	000002
16		C_ACCCO		CO Account Partner Object	CHAR	000024

3 select has been made in start routine:

- /bic/mc\_costctr
- /bic/mc\_coorder
- /bic/Pc\_wbs\_el2

Read table has been made in C\_WBS\_EL2 target field and used in appropriate fields.

Loading has been made in daily PC\_CT\_MD\_01 proces chain.

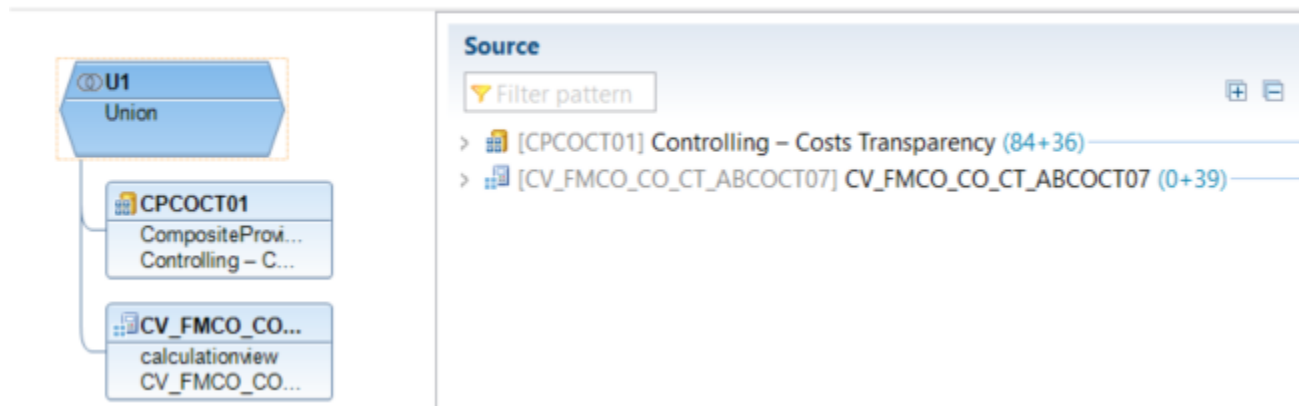
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LOGSYS	RECORDMODE	CO_AREA	/BIC/C_WBSBILL	/BIC/C_COCBILL	/BIC/C_ORDBILL	/BIC/C_RCCBILL	/BIC/C_GUBILL	/BIC/C_COABILL	CH_ON	/BIC/C_SYPARCO	CREATEDON	PLANT	/BIC/C_ACCOTYP	/BIC/C_ACCO
E04274NBTO	WD1_110	N								27.08.2020	DF1_020	13.08.2020	7822	
E08090NBTO1	WD1_110	N								15.10.2020	WD1_110	12.08.2020	7851	
E38652GAZ.CARGILLA	WD1_110	N		7418-9991						16.06.2021	DF1_020	27.08.2020	7584	KS 7418-9991
I00192CBCB111	WD1_110	N		7728-5991						20.05.2021	DF1_020	20.05.2021	8918	KS 7728-5991
I04274CBEX74249-01	WD1_110	N		0249-5715						02.11.2020	DF1_020	02.11.2020	7925	KS 0249-5715
I07723CBCBWTMX01	WD1_110	N								12.04.2021	DF1_020	12.04.2021	8356	
I08090CBCB02FR3 SERVICES	WD1_110	N								03.06.2020	DF1_020	21.05.2020	7851	KS
I08090CBCB2FR3D_SERV01	WD1_110	N		7682-1050						31.07.2020	DF1_020	16.06.2020	7851	KS 7682-1050
I08090CBCB2FR3D_SERV02	WD1_110	N		4514110000						17.06.2020	WD1_110	16.06.2020	7851	KS 4514110000
I08090CBCB2FR3E_SERV01	WD1_110	N		7682-1050						31.07.2020	DF1_020	17.06.2020	7851	KS 7682-1050
I08090CBCB2FR3E_SERV02	WD1_110	N		7682-1050						31.07.2020	DF1_020	17.06.2020	7851	KS 7682-1050
I08090CBCB2FR3E_SERV03	WD1_110	N		7682-1050						31.07.2020	DF1_020	31.07.2020	7851	KS 7682-1050
I38652GYUT00001-GAZ01	WD1_110	N		SM162JFR00						12.10.2020	WD1_110	07.08.2020	7584	KS SM162JFR00
I38652GYUT00001-LG01	WD1_110	N		SM162JFR00						12.10.2020	WD1_110	14.10.2020	7584	KS SM162JFR00
I38652GYUT04274-GAZ00001	WD1_110	N		7682-1050						26.05.2020	DF1_020	25.05.2020	7584	KS 7682-1050
I38652GYUT04274-GAZ00002	WD1_110	N		7682-1050						12.10.2020	DF1_020	13.08.2020	7584	KS 7682-1050
I38652GYUT04274-LG01	WD1_110	N		7682-1050						12.10.2020	DF1_020	14.10.2020	7584	KS 7682-1050
I38652GYUT04274-LG03	WD1_110	N		7682-1050						12.10.2020	DF1_020	27.10.2020	7584	KS 7682-1050
TEST_2CES_WBS	WD1_110	N		4514110000						31.07.2020	WD1_110	19.05.2020	7851	KS 4514110000

### Snapshots for Control Check

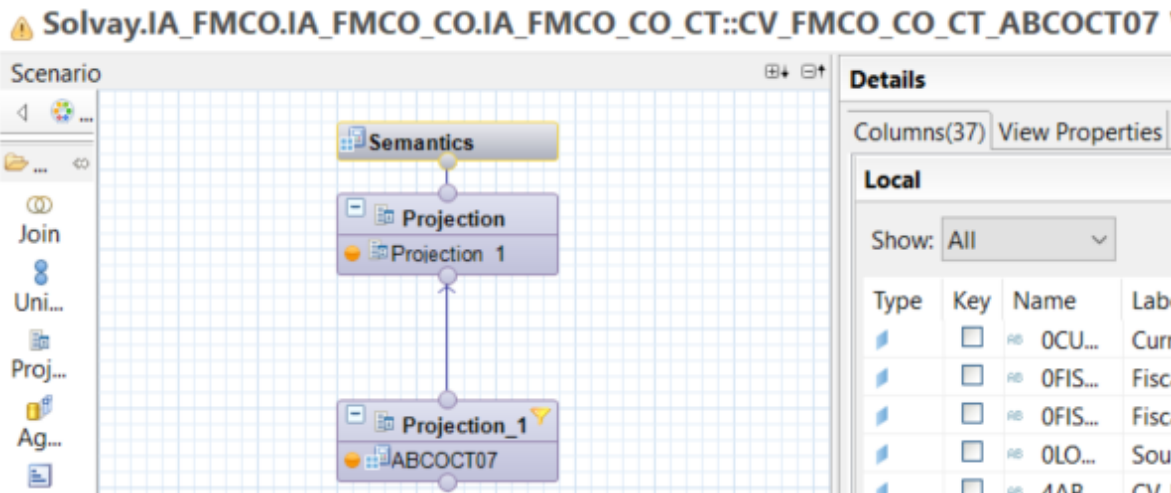
Composite Provider CPCOCT08 allows users to compare current data with weekly/on demand snapshot saved in ADSO ABCOCT07.

#### Scenario: CPCOCT08



ABCOCT07 is loaded from Composite Provider CPCOCT09, copy of CPCOCT01 without Input Parameters. The Input Parameters "Fiscal Period From" and "Fiscal Period To" are restored in Calculation View CV\_FMCO\_CO\_CT\_ABCOCT07, to facilitate union between Snapshot data and Current data.

Costa At Destination - Snapshots	ABCOCT07	=
TRSF: HCPR CPCOCT09 -> ADSO AB	0EBV6FAMLWPYWE732...	=
Controlling - Cost Transparency for	CPCOCT09	=
Controlling - Costs Transparency	CPCOCT01	=
Data Transfer Processes	ABCOCT07	
DTP: CPCOCT09 -> ABCOCT07 -	DTP_04B9BB0HZDMR3...	



Each Snapshot is timed and dated, and named following the pattern "Pyyymmdd". Snapshots past a certain time (in months, stored in C\_GLBFLT 001 for Stream COSTA and Rule SNAPSHOT) are deleted from history.

A snapshot is taken every Saturday though Process Chain PC\_CO\_CT\_01, but one can also be taken manually through Transaction ZBW\_COSTA\_SNAP.

Users can access the data through query BW\_QRY\_CPCOCT08\_0001 "COSTA - Snapshot vs Current Comparison (Core Query)"

Should snapshot data appear to be doubled/tripled, display C\_TIMEP (Snapshot Time) to check that multiple snapshots were not taken the same day, which would explain that result in the query.

*Note: Data should be loaded through DTP without "SAP HANA Extraction" checked. That check changes the way data is extracted from CPCOCT09 and generates erroneous totals for K\_INTRAT.*

## Anaplan Budget & BE Import

Anaplan sends its Budget and Best Estimate data, both for Origin and Bridge Destination, to a folder on Application Server: /export/BW/Anaplan\_inbound.

Origin data is collected through ADSOs APCOCT21 and ABCOCT08.

Costa - Anaplan Origin Budget & BE	ABCOCT08
ADSO ABCOCT08 -> ADSO ABCOCT08	05NL40D8HRRMLM250IA...
TRSF: APCOCT21 -> ADSO ABCOCT08	0KJZ9V4GBXJ7XOB2X1...
Costa - Anaplan Origin Budget & BE	APCOCT21
TRSF: APCOCT21 -> APCOCT21	0DYI424LXFIC15VGZSW...
TRSF: DTS_ANAPLAN_BESTIMATE_ADJ -> ADSO APCOCT21	0HM335SKULFDT6VZH...
TRSF: DTS_ANAPLAN_BUDGET_BASE -> ADSO APCOCT21	082IPEDRSH8IHWANK...
TRSF: DTS_ANAPLAN_BUDGET_OOS -> ADSO APCOCT21	0F5XGZPE6TP138H9UF...
TRSF: DTS_ANAPLAN_BUD_BOT_L3 -> ADSO APCOCT21	007IRLFZ5SRVJ3VI3YU...
TRSF: DTS_ANAPLAN_BUD_BOT_L4 -> ADSO APCOCT21	05D97HSX5ZIRZXIX8O...
TRSF: DTS_ANAPLAN_BUD_BOT_L5 -> ADSO APCOCT21	0K62HP1RHTNZ6KW4S...
TRSF: DTS_ANAPLAN_BUD_TOP_L1 -> ADSO APCOCT21	0JB093TB3MB96C889U...
TRSF: DTS_ANAPLAN_BUD_TOP_L2 -> ADSO APCOCT21	08U24C0P4KDV3KESXB...
TRSF: DTS_ANAPLAN_BUD_TOP_L3 -> ADSO APCOCT21	0TAISGVT09DGNAE0M...
TRSF: DTS_ANAPLAN_BUD_TOP_L4 -> ADSO APCOCT21	0C4PG9K8A81BE5CIQB...
TRSF: DTS_ANAPLAN_BUD_TOP_L5 -> ADSO APCOCT21	0PXJXL0OYFQII62JKS...
TRSF: DTS_ANAPLAN_ESTIMATE_OOS -> ADSO APCOCT21	0E2TLCU12L06WWWQP...
TRSF: DTS_ANAPLAN_ESTIMATE_TRAN -> ADSO APCOCT21	0G5Y259ZHCK501HHH...

Bridge Destination data is collected through ADSOs APCOCT22 and ABCOCT09.

Costa - Bridge destination Budget & BE	ABCOCT09
‣ ADSO ABCOCT09 -> ADSO ABCOCT09	0KCXX3S700MZ8W3S2...
‣ TRSF: ADSO APCOCT22 -> ADSO ABCOCT09	0D2BU6LTWWWJADQB...
‣ Costa - Bridge destination Budget & BE	APCOCT22
‣ TRSF: APCOCT22 -> APCOCT22	0PWJTJZ8LJQ7EMHE22...
‣ TRSF: DTS_ANAPLAN_BRG_BEST -> ADSO APCOCT22	0OPLIB5UXYB4M3CHH...
‣ TRSF: DTS_ANAPLAN_BRG_BUDGET -> ADSO APCOCT22	0J1GINUDF4FMQ9ACN...

Both dataflows are loaded in parallel using the same Process Chains, one for Budget data and one for Best Estimate

Process Chain	Process Chain Description	Period
PC_CO_CT_05	COSTA - TD - Anaplan Best Estimate Destination	Monthly on 13th workday of the month in Calendar 50
PC_CO_CT_06	COSTA - TD - Anaplan Budget Destination	Yearly on 13th workday of July in Calendar 50

Users can request to have either chain running in addition to these default periods.

For Budget, initial load is done in July, with corrective/definitive values entered between September and November (daily updates required during that period).

Each source Flat File is assigned to a C\_SRC\_ANA (Source Anaplan) value, which is used to identify the dataflow, and offers a single KF for the Propagation ADSO associated.

For example, DTS\_ANAPLAN\_BESTIMATE\_ADJ, DTS collecting adjustments for Origin Best Estimate, initiates KF K\_ADJ\_BESTIM in APCOCT21, with C\_SRC\_ANA = 'SRC\_ADJ\_BESTIM'.

Most important line of code at this level is this, identical in all transformations to APCOCT21/22, except for the name of the KF and the values of C\_SRC\_ANA (see above) and C\_VERSN2 (F01 for BE and 000 for Budget):

```

LOOP AT ITB_TIME ASSIGNING <FS_TIME>.
  UPDATE /BIC/AAPCOCT212 SET K_ADJ_BESTIM = 0
                          C_FLG_OBS      = 'X'
  WHERE C_TIME = <FS_TIME>-C_TIME
  AND /BIC/C_SRC_ANA = 'SRC_ADJ_BESTIM'
  AND C_VERSN2 = 'F01'.
ENDLOOP.
IF SY-SUBRC = 0.
  COMMIT WORK.
ENDIF.

```

Key	Value	Field	Description	Data Type	Length
SRC_ADJ_BESTIM	9	C_SRC_ANA	/BIC/C_SRC_ANA	Source Anaplan	CHAR 000020
F01	10	C_VERSN2		Version	CHAR 000003
ANAPL_EST	12	C_FLOW		C_flow	CHAR 000016
Empty	13	C_FLG_OBS		Flag Obsolete	CHAR 000001
K_BESTIMATE	14	K_BESTIMATE		Best Estimate	FLTP 000016
K_ADJ_BESTIM	15	K_ADJ_BESTIM		Adj B. Estimate	FLTP 000016

This code sets all existing entries from the same source to Flag Obsolete = 'X', while the transformation loads actual data with Flag Obsolete = ". Thus, all data deleted from the source file are marked as obsolete in the Propagation ADSO once the transport is complete. The transformation of the ADSO on itself (APCOCT21 APCOCT21 and APCOCT22 APCOCT22) set RECORDMODE = D to all obsolete entries, so they are removed from Business level when the Delta load runs.

The quarters of the period to be flagged as obsolete in Propagation layer (and then to be deleted) are manually maintained in the Global Filter : one for Budget (COSTA/PERIOD\_000) and one for BE (COSTA/PERIOD\_F01).

**These values must be manually adapted when changing the loaded year.**

Global Filter Stream...	Global Filter Rule	Global Filter	Global Filter Description	Global Filter Sign	Global Filter Option	Global Filter Low Value	Global Filter Hight Value	Global Filter Active
COSTA	PERIOD_000	001	Delete Quarters 000 data in APCOCT21/22 before reload	I	EQ	Q1 FY22		Y
COSTA	PERIOD_000	002	Delete Quarters 000 data in APCOCT21/22 before reload	I	EQ	Q2 FY22		Y
COSTA	PERIOD_000	003	Delete Quarters 000 data in APCOCT21/22 before reload	I	EQ	Q3 FY22		Y
COSTA	PERIOD_000	004	Delete Quarters 000 data in APCOCT21/22 before reload	I	EQ	Q4 FY22		Y
COSTA	PERIOD_F01	001	Delete Quarters F01 data in APCOCT21/22 before reload	I	EQ	Q1 FY22		Y
COSTA	PERIOD_F01	002	Delete Quarters F01 data in APCOCT21/22 before reload	I	EQ	Q2 FY22		Y
COSTA	PERIOD_F01	003	Delete Quarters F01 data in APCOCT21/22 before reload	I	EQ	Q3 FY22		Y
COSTA	PERIOD_F01	004	Delete Quarters F01 data in APCOCT21/22 before reload	I	EQ	Q4 FY22		Y

Master Data

Time Independent

Add Line Withdraw Changes Change all records Details Where-Used Document Browser

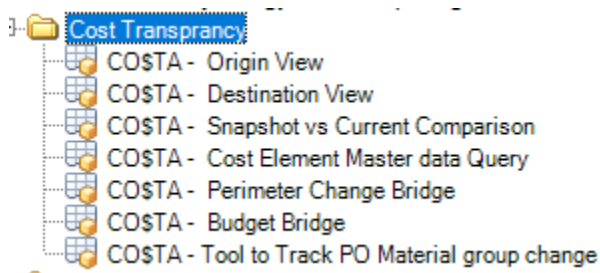
Global Filter Stream (App...	Global Filter Rule	Glob...	Global Filter Description	Global Filter Sign	Global Filter Option	Global Filter Low Value	Global Filt...	Global...
COSTA	RELOAD_F02	000	Reload F02 data in ABCOCT08/09? Y/N	I	EQ	N		Y

For each monthly run, Best Estimate history is saved by moving existing data from version F01 to F02. Whether this save is done or not depends on the value of Global Filter COSTA/RELOAD\_F02 above. Low Value should be 'Y' by default, changed to 'N' when manually reloading Best Estimate data.

## Reporting

Query	Description
BW_QRY_CPCOCT05_0001	Cost Transparency - A destination View (POC)
BW_QRY_CPCOCT05_0002	COSTA - Cost Transparency - Destination view
BW_QRY_CPCOCT05_1001	COSTA - Cost Transparency - Origin view
BW_QRY_CPCOCT05_1002	COSTA - Tool to track PO Material Group change
BW_QRY_CPCOCT05_1004	COSTA - Cost Transparency Actual Origin for OpenHub
BW_QRY_CPCOCT05_1010	COSTA - F2G Anaplan - Region Country
BW_QRY_CPCOCT05_1011	COSTA - F2G Anaplan - BSA
BW_QRY_CPCOCT05_1012	COSTA - F2G Anaplan - GBU
QV_BW_QRY_CPCOCT05_1001	COSTA - QV Cost Transparency - Origin view
QV_BW_QRY_CPCOCT05_1002	QV - Cost Transparency - Origin - Perimeter Change
QV_QRY_CPCOCT05_0001	QV Cost Transparency - A destination View (POC)

## Workbook



ZR\_RCS\_CA\_M73  
 BW\_WBK\_COSTA\_0001  
 BW\_WBK\_COSTA\_0002  
 BW\_WBK\_COSTA\_0003  
 BW\_WBK\_COSTA\_0004  
 BW\_WBK\_COSTA\_0005  
 BW\_WBK\_COSTA\_0006  
 BW\_WBK\_COSTA\_0007

## Dependencies with other applications

We should have the information where the application is sending or receiving information (e.g. APD open hub)

# Data Loading

## Info Providers and objects loaded

Detail of process chain, list + link between or special event done for the loading

Main Process Chain	Final Provider Loading	Frequency																								
PC_CT_CO RRECTIVE _2_01  COSTA - Adjustment Perimeter Flow	APCOCT20	On demand (event Z_EVT_START_CT_CORRECTIVE_2_01)																								
PC_CT_DE ST_SCHE_ 02  COSTA - At Destination Alloc Matrix Loading	ABCOCT03 / ABCOCT04	Event Z_EVT_START_PC_CT_DEST_SCHE_02  Daily - 9am - but full process chain only between 3rd and 7th day of month.  Table: /BIC/PC_GLBFLT  <table border="1"> <thead> <tr> <th>EP</th> <th>/BIC/C_STRE...</th> <th>/BIC/C_RULE</th> <th>/BIC/C_GLBFLT</th> <th>OBJVERS</th> <th>CHANGED</th> <th>/BIC/C_DESC</th> <th>/BIC/C_SIGN</th> <th>/BIC/C_OPTION</th> <th>/BIC/C_LOW</th> <th>/BIC/C_HIGH</th> <th>/BIC/C_ACTIVE</th> </tr> </thead> <tbody> <tr> <td></td> <td>COSTA_DEST</td> <td>RANGE_DAY</td> <td>001</td> <td>A</td> <td></td> <td>Work. Day for PC_CT_DEST_SCHE_01</td> <td>I</td> <td>BT</td> <td>3</td> <td>7</td> <td>Y</td> </tr> </tbody> </table>	EP	/BIC/C_STRE...	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE		COSTA_DEST	RANGE_DAY	001	A		Work. Day for PC_CT_DEST_SCHE_01	I	BT	3	7	Y
EP	/BIC/C_STRE...	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE															
	COSTA_DEST	RANGE_DAY	001	A		Work. Day for PC_CT_DEST_SCHE_01	I	BT	3	7	Y															
PC_CT_BU DGET_01  COSTA - Budget Flow	APCOCT12	On demand  Event Z_EVT_START_PC_CT_BUDGET_01																								
PC_CT_DE ST_SCHE_ 01  COSTA - At Destination scheduling process	APCOCT19  ABCOCT05	Daily  Detail here:  <a href="https://drive.google.com/file/d/1RD0T0IHovfg_hi7hAR8VQ4GM8YMvgv9XSf3eT3D2-kU/view">https://drive.google.com/file/d/1RD0T0IHovfg_hi7hAR8VQ4GM8YMvgv9XSf3eT3D2-kU/view</a>																								
PC_CT_CO RREC_01  COSTA - CORRECTI VE Flow	APCOCT07	On demand  Event PC_CT_CORREC_01																								
PC_CT_CO RREC_02  COSTA - CORRECTI VE Flow 2 - Destination	APCOCT14	On demand  Event PC_CT_CORREC_02																								
PC_CT_RC C_01  COSTA - Cost Center Determinati on	APCOCT15	Sub chain, meta chain is PC_CT_META_01																								
PC_CT_TR _05  COSTA - Costs Sub- Package - ZBB	APCOCT13 / C_CTSBPKG	On demand  Event Z_EVT_START_PC_CT_TR_05																								

PC_CO_CT_03 COSTA - F2G Anaplan - Extraction	OH_COCT05 / OH_COCT06 / OH_COCT07 / OH_COCT08	Daily
PC_CT_LEVEL5_HIER COSTA - Hierarchy Level 5 - Responsible Cost center	C_LEVEL* Text	Not scheduled
PC_CT_TR_04 COSTA - Inflation	APCOCT11	On demand Event Z_EVT_START_PC_CT_TR_04
PC_CT_INV_REA_01 COSTA - Investment Reason WBS	APCOCT17	On demand Event Z_EVT_START_PC_CT_INV_REA_01
PC_CT_MD_01 COSTA - Mater Data 01	APCOCT14 / APCOCT19	Daily
PC_CT_TR_03 COSTA - Order Group OPEX / CAPEX	APCOCT09	On demand Event Z_EVT_START_PC_CT_TR_03
PC_CT_PERICH_01 COSTA - Perimeter Changes Bridge flow	ABCOCT10	On demand Event Z_EVT_START_PC_CT_PERICH_01
PC_CT_TR_SAMPLE COSTA - SAMPLE Flow	APCOCT08	Meta chain: PC_CT_META_01 Daily not weekend
PC_CO_CT_06 COSTA - TD - Anaplan Budget Destination	ABCOCT08 / APCOCT21 ABCOCT09 / APCOCT22	Yearly on 13th workday of July in Calendar 50
PC_CT_TR_01 COSTA - Transactional Data 01	APCOCT06 APCOCT05 APCOCT04 APCOCT02	Daily not weekend Meta chain: PC_CT_META_01
PC_CT_TR_02 COSTA - Transactional Data 02 (Screen Pckg)	ABSCPK01	Daily not weekend

PC_CT_ME TA_01  COSTA Metachain 01		Daily 1:30 am
PC_CO_CT _04  COSTA: TD - M - Anaplan Origin Costs Extraction	OH_COCT11	1 per month: 8th working day
PC_CO_CT _02  COSTA: TD - T - Manual Snapshots	ABCOCT07	On demand with ZBW_COSTA_FLAT_FILES event Z_EVT_PC_CO_CT_02
PC_CO_CT _01  COSTA: TD - W - Snapshots	ABCOCT07	Each wenesday

## Destination manually loading

There is a decision in process chain PC\_CT\_DEST\_SCHE\_01 to not load data outside a range of day, so if necessary change the range of day in master data global filter:

Table: /BIC/PC\_GLBFLT

/BIC/C_STRE...	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE
COSTA_DEST	RANGE_DAY	001	A		Work. Day for PC_CT_DEST_SCHE_01	I	BT	3	7	Y

1) Update TVARV table

SM30 TVRAV

In parameter, check current run is equal to 0, macimum number run equal 7 and put X to init mode.

### Edit Table TVARVC: Selection Variables

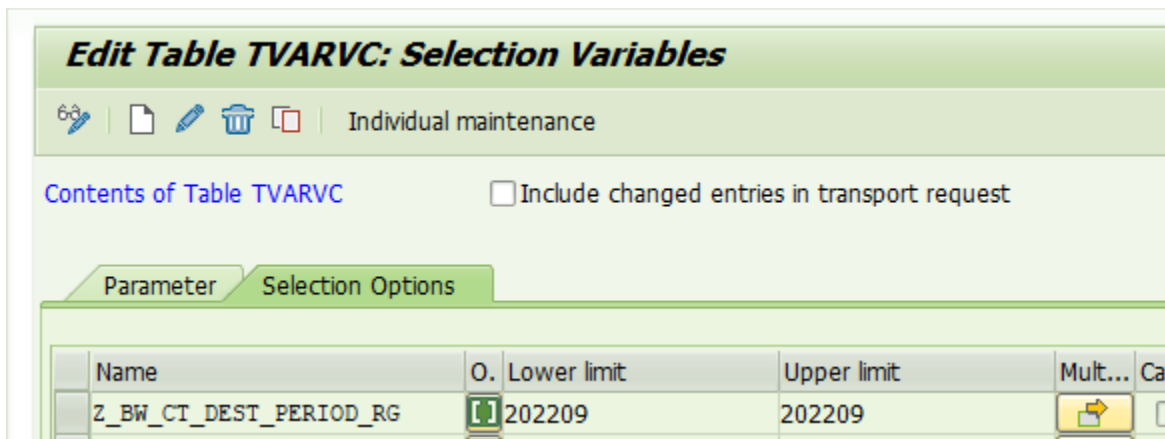
Individual maintenance

Contents of Table TVARVC  Include changed entries in transport request

Parameter    Selection Options

Name	Val.
Z_BW_CT_DEST_CURRENT_RUN	0
Z_BW_CT_DEST_INIT_MODE	X
Z_BW_CT_DEST_MAX_NB_RUN	7

In selection option, if necessary change the date (by default is the current month - 1):



2) Execute process chain PC\_CT\_DEST\_SCHE\_01 (with transaction se37 RSPC\_API\_CHAIN\_START).

## Data Quality Control

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

## Operational Documentation

### Procedures

<Describe the recurring procedures needed to operate the application (eg. start/pause/terminate/restart the app processes, data preparation, data ingestion, ETL, data visualization, data export, other manual activities)>

### 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

### Anaplan Budget & BE Import

1) Process Chain Budget will likely be modified to run daily, with test process to either execute dummy program or complete PC run depending on a Global Filter to be set manually OR through event when new file is added to AL11.

2) The way Budget adjustments are handled, with Top-Down and Bottom-Up adjustments on multiple levels, will be updated and simplified later this year (2022).