

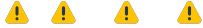
BW RTR - Costa /\ obsolete /\



The new wiki link for this data flow is here:

[Technical Documentation - COSTA](#)

Please update the doc there and no longer here.



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General presentation

Objective of the application

Teh 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 toolto help on decision-making

The application is based on 3 tools

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

Roles & Access

Roles and 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 : ZBW_ADJ_PERIM_COSTA ZBW_BUD_COSTA ZBW_COR_COSTA ZBW_COSTA_SNAP ZBW_CUST_COSTA ZCOSTA_BRIDGE_FILE

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Authorization objects

List of autorisation objects mandatory for the application.

Authorization object	Explanation

Dataflow overview

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

Functional and Technical rules on Workbench + Reporting

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
- Infoprovider: APCOCT07
- Flat file format:

Zero Based Budgeting

- Program: ZBW_COSTA_C_CTSBPKG_ZBB
- Process chain: PC_CT_TR_05
- Infoprovider: APCOCT13 CPCOCT06
- Query: BW_QRY_CPCOCT06_0003 + QV_BW_QRY_CPCOCT06_0003
- Flat file format: https://drive.google.com/file/d/1epqi_HwSrlwa581lyXhaCEkRA9vRec_F/view

Resp. Cost Center Determination

- Program: ZBW_COSTA_RCC
- Process chain: PC_CT_RCC_01

- Infoprovder: APCOCT15
- Query:
- Flat file format: https://drive.google.com/file/d/1IGDkT4e7LFBnwnFci_27u3maKelt4o0r/view

Investment Reason WBS

- Program: ZBW_COSTA_INV
- Process chain: PC_CT_INV_REA_01
- Infoprovder: APCOCT17
- Query:
- Flat file format: <https://drive.google.com/file/d/1gNADLWzmxbcLj8Da0y2I1H29QirzUwxl/view>

Bridge Perimeter

- Program: ZBW_COSTA_FILE
- Process chain: PC_CT_PERICH_01
- Infoprovder: APCOCT23
- Query:
- Flat file format:

Corrective Flow destination

- Program: ZBW_CORR_FLOW_2
- Process chain: PC_CT_CORREC_02
- Infoprovder: APCOCT24
- Flat file format:

Order Capex Opex

- Program: ZBW_COSTA_ORDER_CAPEX_OPEX
- Process chain: PC_CT_TR_03
- Infoprovder: APCOCT09 CPCOCT06
- Query: BW_QRY_CPCOCT06_0001 + QV_BW_QRY_CPCOCT06_0001
- Flat file format: <https://drive.google.com/file/d/1iWbmDE7ZfJS9wFEJDtonNXafW26j5jKL/view>

Percentage inflation

- Program: ZBW_COSTA_INFLATION
- Process chain: PC_CT_TR_04
- Infoprovder: APCOCT11 CPCOCT06
- Query: BW_QRY_CPCOCT06_0002 + QV_BW_QRY_CPCOCT06_0002
- Flat file format: https://drive.google.com/file/d/13r-JdkA6LZShK2wlhydxOc_k8Fjs3ttB/view

Rules & Explanations

Cluster GBU

Costa - BU Cluster SubCluster	APCOCT14	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_B1FNYSNDTRTQFIIMPH4W18RO6	Change
Data Flow Upwards	_DATAFLOW_UPWARDS	
DTP: APCOCT14 (PRS_020) -> CPFCTR1_2 - Delta	DTP_B1FNYSNDTRTQFIIPS84NAR6D6	Change
DTP: APCOCT14 (PRS_020) -> C_CLUSTER - Delta - Text	DTP_B1FNYSNDTRTQFIIZMOOPTU0IG	Change
DTP: APCOCT14 (PRS_020) -> C_SUBCLUS - Delta - Attr	DTP_B1FNYSNDTRTQFD0JF6DCYL1O	Change
DTP: APCOCT14 (PRS_020) -> C_SUBCLUS - Delta - text	DTP_B1FNYSNDTRTQFI128RYMGY73	Change
TRSF: APCOCT14 (PRS_020) -> CPFCTR1_2	0P7W0X8D8LFX7FOMP5JC6ZPVTY5ILWGF	Change
TRSF: APCOCT14 (PRS_020) -> C_CLUSTER	0KYHTL5PMW1HGI28NU1WJ8346HSNOFV	Change
TRSF: APCOCT14 (PRS_020) -> C_SUBCLUS	0182Q9ZKN5J523EZD3OXMQH8F93PM2VR	Change
TRSF: APCOCT14 (PRS_020) -> C_SUBCLUS	0OUVP2IQCW7QFWIPX0S2EYMKNVSZ1J2Z	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

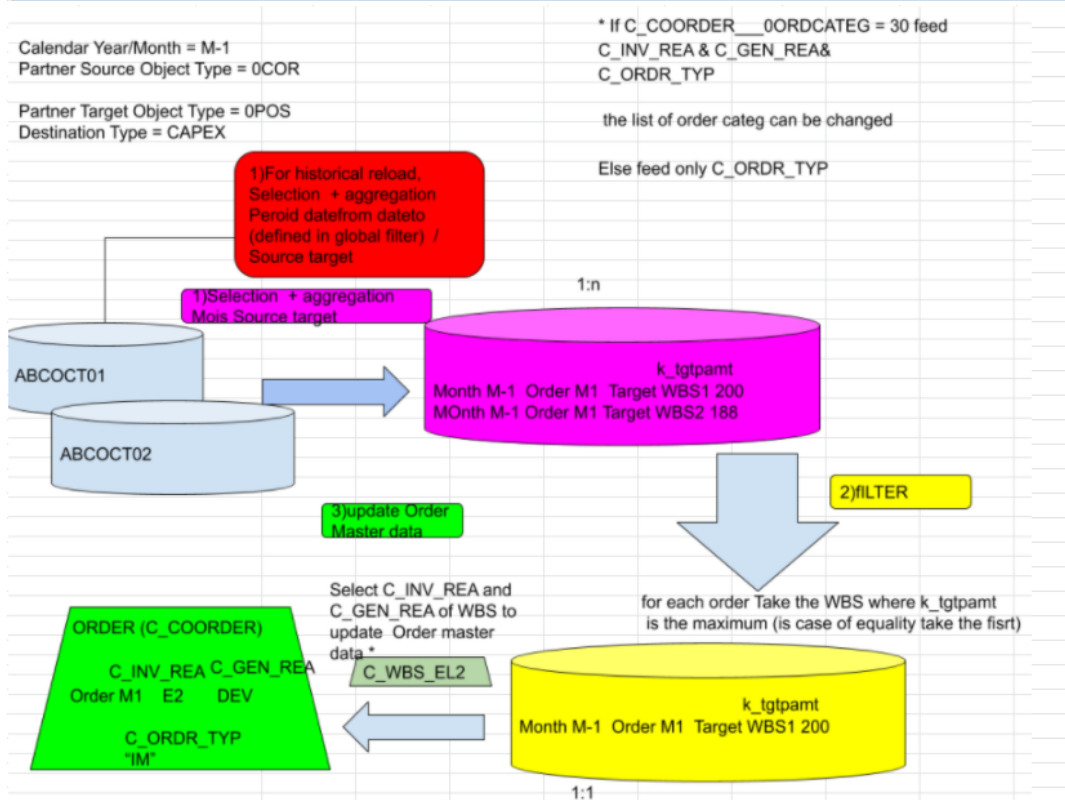
C_GEN_REA & C_INV_REA come from C_WBS_EL2 and C_WBS_EL2 comes from dso ABCOCT01 & ABCOCT02.

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_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



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/1gNADLWzmxbcLj8Da0y2I1H29QirzUwxi/view

aDSO:

Process Chain:

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:

SolveJAI FMCO JAI FMCO COA FMCO CO CT WSBS RHODIA WBVW (BIANCO) 2 Warning(s) found

The screenshot displays the SolveJAI interface with two main panes:

- Semantics Pane (Left):** A hierarchical query graph starting from "Semantics". It branches into "Projection" and "Projection_1". "Projection" leads to "J.GET C.WBS" and "P.INV REAS". "Projection_1" leads to "J.GET INV RE". Further down, it shows joins between "P.INV REAS", "J.GET C.WBS", "J.COSTELMINI", and "P.C.WBS EL2". At the bottom, there are nodes for "P.OUS WBS6", "P.OUS WBS6", "P.COSTELMINI", and "P.FMCO G2".
- Details Pane (Right):** Two tabs showing SQL snippets:
 - J.GET C.WBS EL2 ATTR:** Contains a long list of column definitions such as "C.RESP CC", "CO.DOC.NO", "CO.AREA", "CO.ITEM NO", "CURTYPE", "FISCVARINT", "VTTYPE", "VERSION", "COSTELMINI", "DB.CR.IND", "PIOBJS", "PIOVALUE", "PART.CCTR", "PART.ACTTY", "PART.COORD", "PART.WSSEL", "PART.ABCPR", "AMOUNT", "QUANTITY", "CURRENCY", "UNIT", "BIC.C.BEELN", "BIC.C.BEPL", "LOGSTS", "BIC.C.PROJ 2", "BIC.C.MATNR2", "BIC.C.VENDOR2", "BIC.C.WBS EL2", "MMAL.GROUP", "BIC.C.PARTCTR", "BIC.C.PARTORD", "BIC.C.PARTWS", "BIC.C.COMPCDE", "VTDETAIL", "WTDTAIL", "METYPE", "CHRT.ACCTS", "GL ACCOUNT", "C.WBS EL2", "BIC C WBS6 PT.WBS EL2 BI.", "C.WBS EL2 BIC C INV TP.T WBS EL2 BI.", "C.WBS EL2 BIC C PROJ TP.T WBS EL2 BI.", "C.WBS EL2 BIC C PS PART C WBS EL2 BI.", "C.WBS EL2 BIC C PROJ 2 WBS EL2 BI.", "BIC C PLANT", "BIC C INV REA", "BIC C GEN REA".
 - P.INV REAS WBS:** Contains a shorter list of column definitions like "CO.DOC.NO", "CO.AREA", "CO.ITEM NO", "CURTYPE", "FISCVARINT", "VTTYPE", "VERSION", "COSTELMINI", "DB.CR.IND", "PIOBJS", "PIOVALUE", "PART.CCTR", "PART.ACTTY", "PART.COORD", "PART.WSSEL", "PART.ABCPR", "AMOUNT", "QUANTITY", "CURRENCY", "UNIT".
- Output Pane (Far Right):** Shows the final generated SQL query, which is a complex JOIN statement combining all the columns defined in the previous panes.

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.

<https://drive.google.com/file/d/1hNM9ZWVDHCp4yIVWyOTv46dlfyfFWwgF/view>

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

Types of filter for anaplan or F2G.

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

In 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

FB	CPFCTRL_2	C_FLGINT	C_COMPCDE	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		CL	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	CORR_FLOW	#	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
							IM	WBS	#	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
							IM	WBS	DEV	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
							IM	WBS	HSE	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
							IM	WBS	IT	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
							IM	WBS	R&I	#	C_ORD_TYP_C_CTOFLOW_C_GEN_R	
						ENRGL					C_FUNCT_2	
						ENRST					C_FUNCT_2	
						ZCBS-FSIS		WBS			C_FUNCT_2_C_CTOFLOW	
						ZCBS-ICOX					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						
						P00008					C_CTMCPKG	
						P00009					C_CTMCPKG	
						P00010						C_CTMCPKG
						5985					C_COMPCDE	
						6034					C_COMPCDE	
						6235					C_COMPCDE	
											C_FLGINT	

X

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_FLGINT)
- 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_FLGINT_CALC		
Data Type:	NVARCHAR	Length:	100
Scale:			
Expression			
Expression Editor			
 Validate Syntax			
<pre>IF("C_FLGIN02"='X' AND "C_AUTHMA" = 'ECO' AND (NOT ISNULL("C_CTEXR_A_FLGINT")),'C_FLGINT_ECO', IF("C_FLGIN03"='X' AND "C_AUTHMA" = 'SCO' AND (NOT ISNULL("C_CTEXR_A_FLGINT")),'C_FLGINT_SCO', IF("PCOMPAN__C_FLGINT"='X' and "C_AUTHMA" = 'SOLVAY' AND (NOT ISNULL("C_CTEXR_A_FLGINT")),'C_FLGINT' , '')))</pre>			

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_FLGINT and C_AUTHMA is working), the C_CTEXR_A_FLGINT_CALC = C_FLGINT_ECO.

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_FLGINT_CALC = C_FLGINT_SCO.

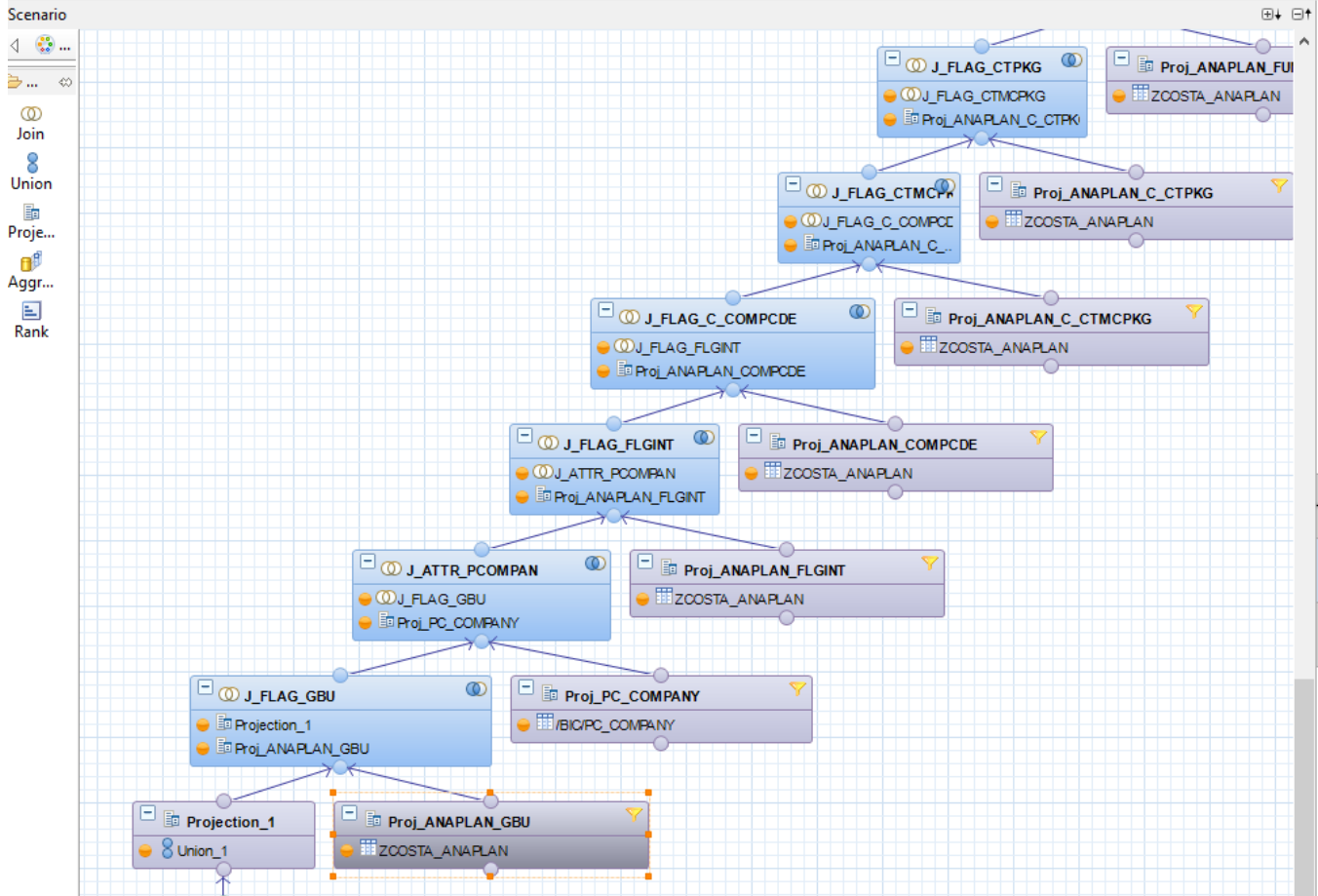
Else, if the C_PCOMPAN__C_FLGINT (from source of data in CV) = X and C_AUTHMA is SOLVAY and the Exclusion reason is not null the C_CTEXR_A_FLGINT_CALC = C_FLGINT.

Else C_CTEXR_A_FLGINT_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.



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

Name:*

Data Type: NVARCHAR Length: Scale:

Expression

Expression Editor

 Validate Syntax

```
IF(not isnull("C_CTEXR_A_GBU"), "C_CTEXR_A_GBU",  
IF(not isnull("C_CTEXR_A_FLGINT"), "C_CTEXR_A_FLGINT",  
IF(not isnull("C_CTEXR_A_COMPCDE"), "C_CTEXR_A_COMPCDE",  
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_FUNC2"), "C_CTEXR_A_FUNC2",  
IF(not isnull("C_CTEXR_A_FUNC2_FLOW"), "C_CTEXR_A_FUNC2_FLOW",  
IF(not isnull("C_CTEXR_A_GBU_FUNC2"), "C_CTEXR_A_GBU_FUNC2",  
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_FUNC2__C_CTFLOW"), "C_CTEXR_A_GBU__C_FUNC2__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_CTFLOW__C_GEN_REA__C_INV_REA"), "C_CTEXR_A_C_ORD_TYP__C_CTFLOW__C_GEN_REA__C_INV_REA", ' '))))))))))
```

Name:*

Data Type: NVARCHAR Length: Scale:

Expression

Expression Editor

 Validate Syntax Language

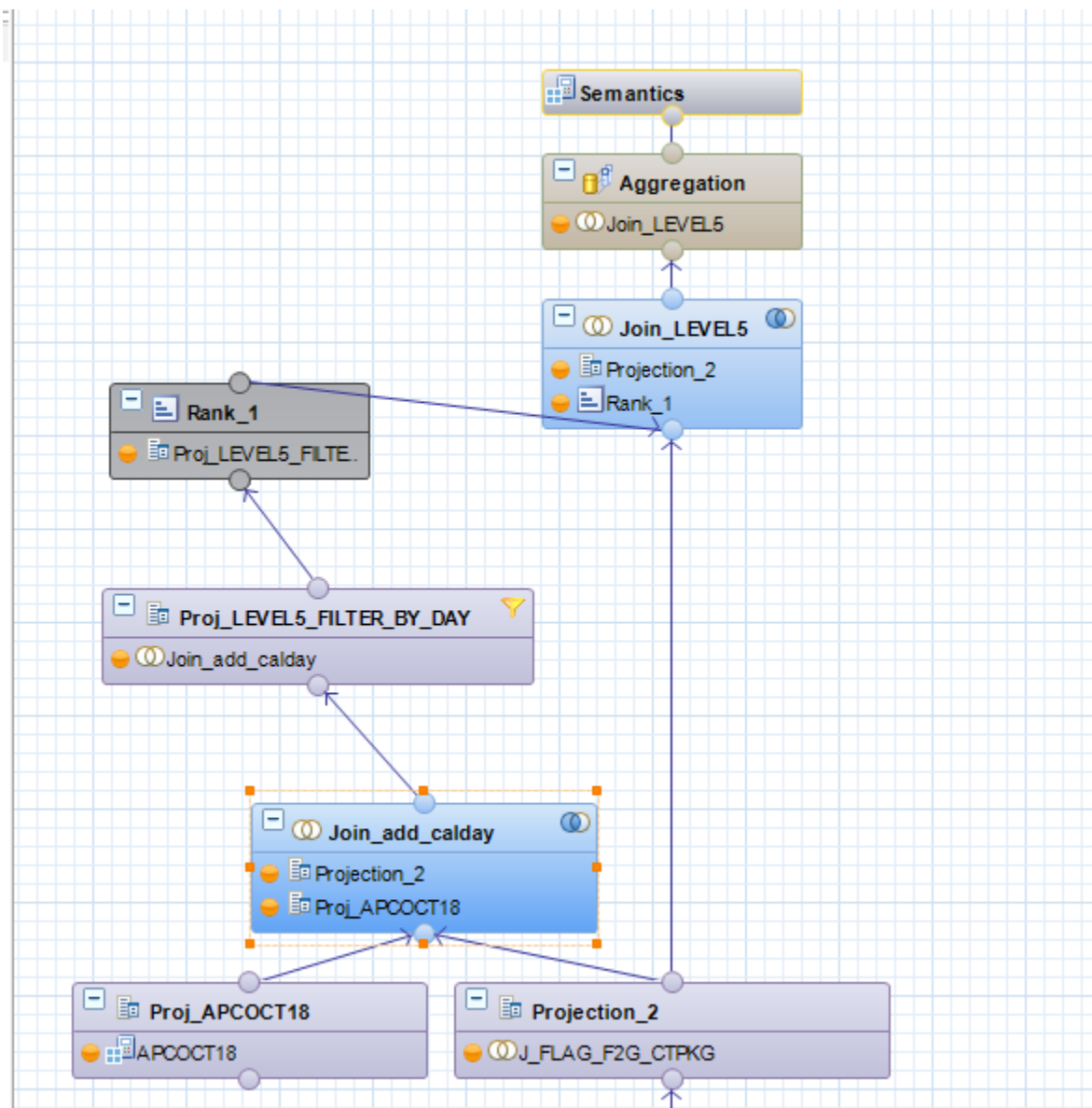
```
IF(strlen("C_TREX_A")>1, 'X', '')
```

Name:*	C_TREX_F		
Data Type:	NVARCHAR	Length: 100	Scale:
Expression			
Expression Editor			
☒ Validate Syntax		Language: Colu	
<pre>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", ''))</pre>			

Name:*	C_FLAG_F2G		
Data Type:	NVARCHAR		
Expression			
Expression Editor			
☒ Validate Syntax			
<pre>IF(strlen("C_TREX_F")>1,'X','')</pre>			

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.



- 1 - Projection of adso APCOCT18 where L5 are stored.
- 2 - Join with costa (co_area, c_resp_cc) to have calday (calculated with the first day of the costa period) from costa data in same line of L5.
- 3 - Projection of L5 with filter on L5 date from and L5 date to with help of calday.
- 4 - Rank to take only one L5 by co_area, c_resp_cc and date.
- 5 - Join to add the L5 in costa table with join on CO_AREA, C_RESP_CC and CALDAY.

GBU Global

In calculations views

CV_FMCO_CO_CT_COOM_DEST_RHODIA
CV_FMCO_CO_CT_COOM_DEST_SOLVAY
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 fuction 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	☐	☒			
GJAHR	Fiscal Year		NUMC	4	0	4	☐	☒		GJAHR	
BELNR	Document Nu...		CHAR	10	0	10	☐	☒		ALPHA	
BUZEI	Line item		NUMC	3	0	3	☐	☒			
MONAT	Period		NUMC	2	0	2	☐	☐			
BUDAT	Posting Date		DATS	8	0	8	☐	☐			
BLART	Document type		CHAR	2	0	2	☐	☐			
HKONT	G/L		CHAR	10	0	10	☐	☐		ALPHA	
DMBTR	Amount in LC		CURR	13	2	15	☐	☐			HWAER
HWAER	Local Currency		CUKY	5	0	5	☐	☐			
MENGE	Quantity		QUAN	13	3	15	☐	☐			MEINS
MEINS	Base Unit		UNIT	3	0	3	☒	☐		CUNIT	
FI_KOSTL	Cost Center		CHAR	10	0	10	☐	☐		ALPHA	
XBLNR	Reference		CHAR	16	0	16	☐	☐			
VBEL2	Sales Document		CHAR	10	0	10	☐	☐		ALPHA	
POSN2	Item		NUMC	6	0	6	☐	☐			
AWTYP	Ref. procedure		CHAR	5	0	5	☐	☐			
KOKRS	CO Area		CHAR	4	0	4	☐	☐			
CO_BELNR	Document Nu...		CHAR	10	0	10	☐	☐		ALPHA	
CO_BUZEI	Posting row		NUMC	3	0	3	☐	☐			
AUART	Sales Doc. Typ...		CHAR	4	0	4	☐	☐		AUART	
SD_KOSTL	Cost Center		CHAR	10	0	10	☐	☐		ALPHA	
MATNR	Material		CHAR	18	0	18	☐	☐		MATN1	
WERKS	Plant		CHAR	4	0	4	☐	☐			
VTWEG	Distr. Channel		CHAR	2	0	2	☐	☐			
SPART	Division		CHAR	2	0	2	☐	☐			
KUNNR	Sold-To Party		CHAR	10	0	10	☐	☐		ALPHA	
TSTMP_IN	Timestamp In		DEC	15	0	15	☐	☐			
UNAME	User Name		CHAR	12	0	12	☐	☐			

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 scope (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 attribute C_siter of Oplant	Use attribute C_siter of Oplant
COSTELEMENT		If attribute is empty or no plant use 00	If attribute is empty or no plant use 00

+ TO DO V2 TODO KT MAPPING Hierarchie L5 ANAPLAN/F2G SCOPE 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 - Sample WP1	DTP_B1FNYSNDTRTOOXRRYD1UXJEPP	Change		
	APCOCT08	Manage	InfoProviders	
- RSDS ZFI_SAMPLE_COGS WV1_400 -> ADSO APCOCT08 - Sample WP1	0781Y19569FXFBK14M7Z4GECR1VWU31C	Change		
	APCOCT08	Manage	InfoProviders	

aDSO creation has been made :

- APCOCT08 with PK:
 - 0LOGSYS
 - C_COMPCDE
 - 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)

```

*$$$ begin of routine - insert your code only below this line      ***
] IF source_fields_rule-bukrs IS NOT INITIAL.
  UNASSIGN <fs_plant>.
  READ TABLE it_plant ASSIGNING <fs_plant> WITH KEY plant =
source_fields_rule-werks BINARY SEARCH.
] IF sy-subrc = 0.
  RESULT = <fs_plant>-/bic/c_site .
  ENDIF.
ENDIF.

] IF ( source_fields_rule-bukrs IS INITIAL OR RESULT IS INITIAL ) AND
source_fields_rule-werks IS NOT INITIAL.
  UNASSIGN <fs_siter>.
  READ TABLE it_siter ASSIGNING <fs_siter> WITH KEY logsys =
w_logsys
/bic/c_compcde = source_fields_rule-bukrs.
] IF sy-subrc = 0.
  RESULT = <fs_siter>-/bic/c_siter .
  ENDIF.
ENDIF.

```

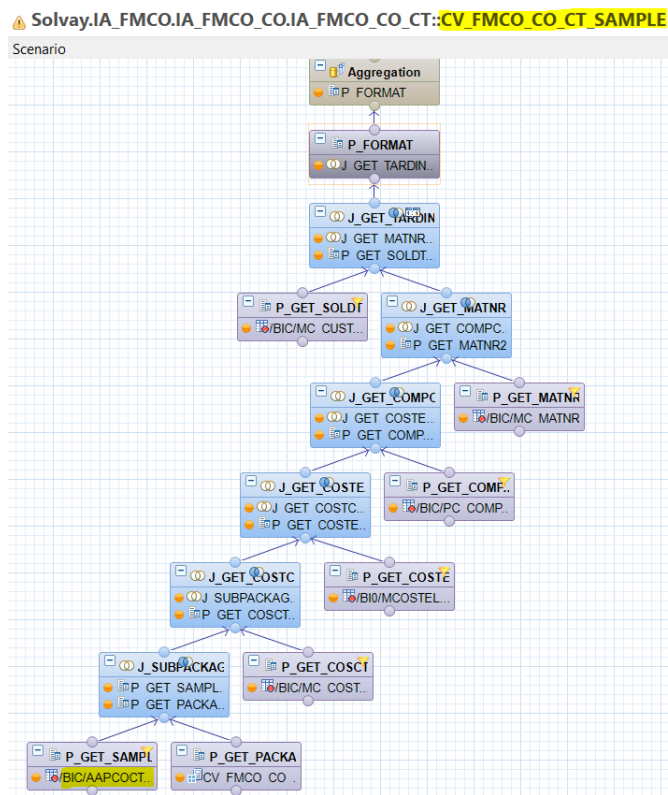
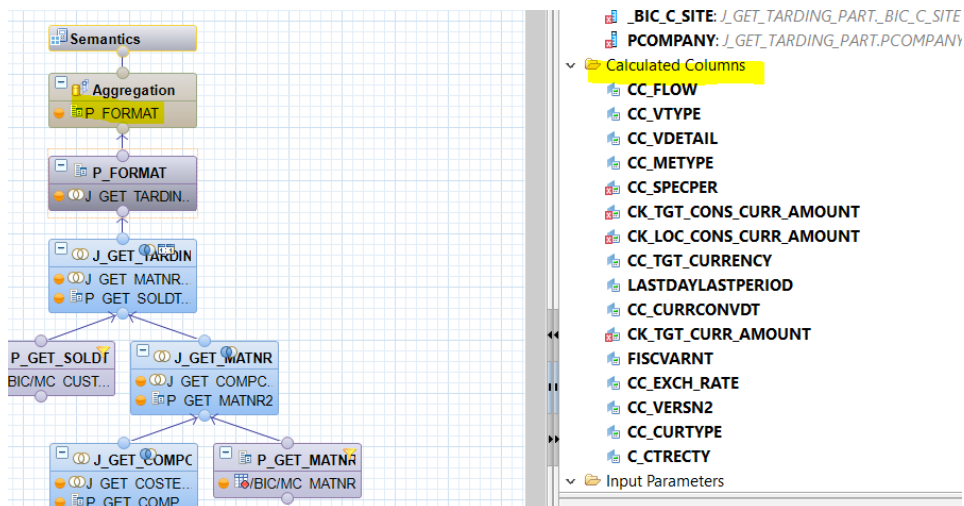
For DTP.: full loading.

Process chain get data to ECC and load the aDSO APCOCT08 - PC_CT_TR_SAMPLE

This process chain has been put in COSTA global Process chain PC_CT_META_01 and load every day.

aDSO is used in calculation view CV_FMCO_CO_CT_SAMPLE and get in left join several fields.

There are calculated columns in projection P_FORMAT:



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:

Step 1 - Axis , Filters and authorization

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	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 Responsible CC - 1 Organisation Responsible CC - 2 Function Responsible CC - 3 Sub-function Grouping Responsible CC - 4 Sub-function	C_RESP_CC_C_FUNCT_0 C_RESP_CC_C_FUNCT_1 C_RESP_CC_C_FUNCT_2 C_RESP_CC_C_FUNCT_3 C_RESP_CC_C_FUNCT_4	C_RESP_CC_C_FUNCT_0 C_RESP_CC_C_FUNCT_1 C_RESP_CC_C_FUNCT_2 C_RESP_CC_C_FUNCT_3 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 scopce (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 attribuite C_siter of 0plant 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:

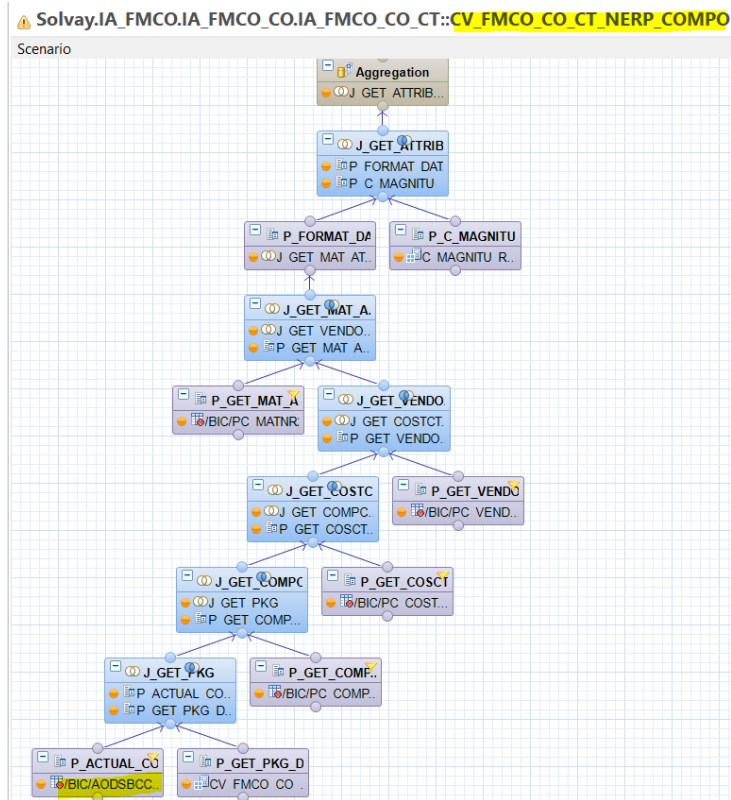
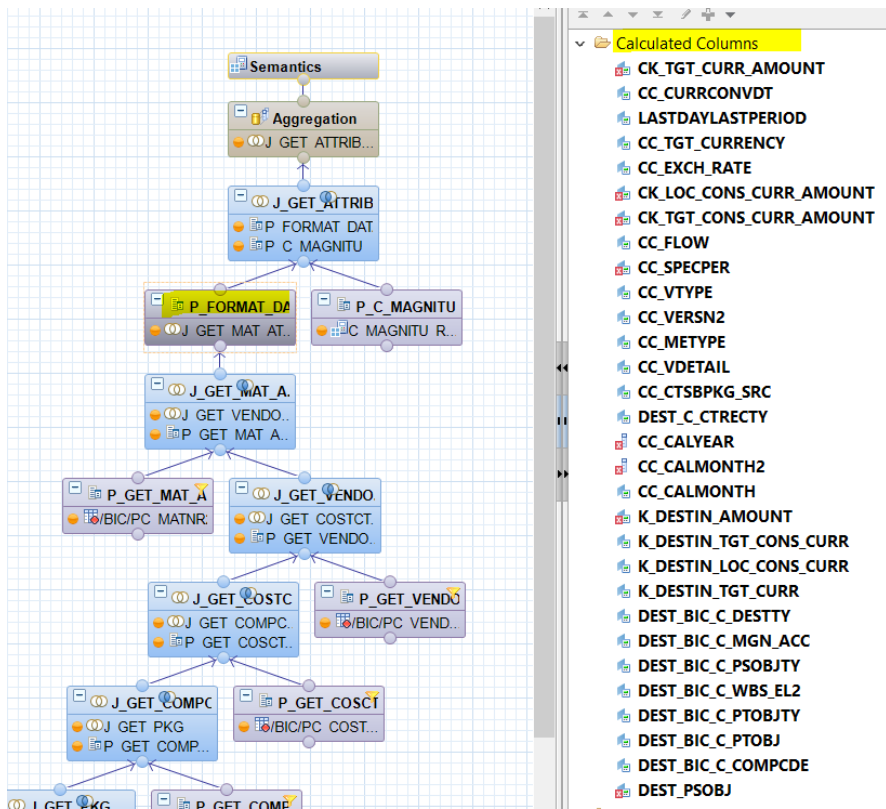
- PC_FC_CYTEC_003A
- PC_FC_CYTEC_002A
- PC_FC_CYTEC_001A

NERP BW Flow:

Cost Centers: Actual Costs (External data)	ODSBCCA9
TRSF: DTS_CC_ACTUAL_COST_EXTERNAL -> ODSBCCA9 (ext.data)	0M7PNVR8502GQCSIU27UH87R0BLH9JZE
Cost Centers: Actual Costs - Line Items (external data)	DTS_CC_ACTUAL_COST_EXTERNAL
Copy Infopackage	ZPAK_5NHC11RT2GT8RQ9TUB9WQ8TOF
IP: DTS_CC_ACTUAL_COST_EXTERNAL -> ODSBCCA9	ZPAK_55IR6JLYXS6SG5EZ91EHYDRE
IP: DTS_CC_ACTUAL_COST_EXTERNAL -> ODSBCCA9 (F.file server)	ZPAK_55PZEC66KJMURCDBGM5WXY90Q
Data Transfer Processes	ODSBCCA9
DTP: DTS_CC_ACTUAL_COST_EXTERNAL -> ODSBCCA9 (ext.data)	DTP_55IR7GW95VURI4FG9J6M2GTGQ
Data Flow Upwards	_DATAFLOW_UPWARDS
DTP: ODSBCCA9 -> CUB_FC007 (delta ext.data)	DTP_55GC7JUHVI1OPT418GRXDBV3E
TRSF: ODSBCCA9 -> CUB_FC007 (External data)	07ICZJO6JY6PDADB98ZH35J3WOC100FQ

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:



this calculation view is used in composite provider CPCOCT01.

Budget flow loading by flat file

Goal is to upload with flat file budget COSTA data and import it in BW (Bex COSTA) from program ZBW_COSTA_BUDGET

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

Step 1 - Axis , Filters and authorization			
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17	fx		
	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 Responsible CC - 1 Organisation Responsible CC - 2 Function Responsible CC - 3 Sub-function Grouping Responsible CC - 4 Sub-function	C_RESP_CC__C_FUNCT_0 C_RESP_CC__C_FUNCT_1 C_RESP_CC__C_FUNCT_2 C_RESP_CC__C_FUNCT_3 C_RESP_CC__C_FUNCT_4	C_RESP_CC__C_FUNCT_0 if C_RESP_CC feeded else ??? C_RESP_CC__C_FUNCT_1 if C_RESP_CC feeded else ??? C_RESP_CC__C_FUNCT_2 if C_RESP_CC feeded else ??? C_RESP_CC__C_FUNCT_3 if C_RESP_CC feeded else ??? C_RESP_CC__C_FUNCT_4 if C_RESP_CC feeded else C_FUNCT_4
11	Responsible CC - BSA group	C_RESP_CC__C_BSAGRP	C_RESP_CC__C_BSAGRP if C_RESP_CC feeded else C_FUNCT_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_RPLANT if C_RESP_CC feeded else #
14	Responsible CC - Authorization scopce (c_authma)	C_RESP_CC__C_AUTHMA	C_RESP_CC__C_AUTHMA if C_RESP_CC feeded else SOLVAY
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 attribuite C_siter of Oplant MP_CC If attribute is empty or no plant use OCOMP_CODE to search in DSO DPCOMPCD

Template of Budget flat file :

https://drive.google.com/file/d/12_rgc58981MmPmEnRO-rpk7hThCFSudz/view

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

- APCOCT12
- /exploit/BW/COSTA/budget_costa.csv

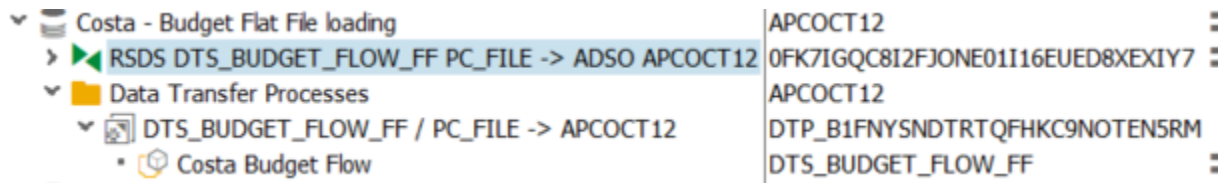
An event have been created for data loading in BW side:

- Z_EVT_START_PC_CT_BUDGET_01

Process chain is:

- PC_CT_BUDGET_01

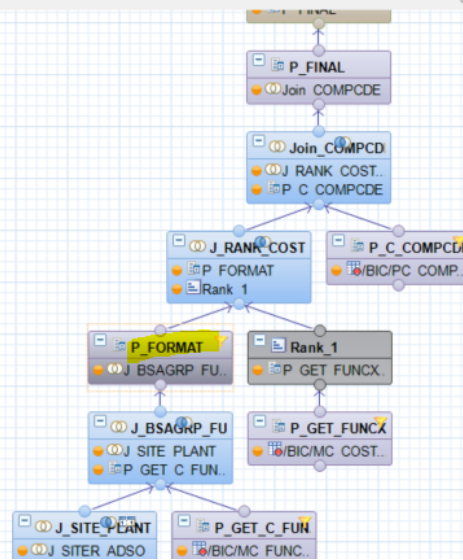
Budget BW flow:



aDSO APCOCT12 is used in calculation view CV_FMCO_CO_CT_BUDGET_FLOW and get in left join several fields.

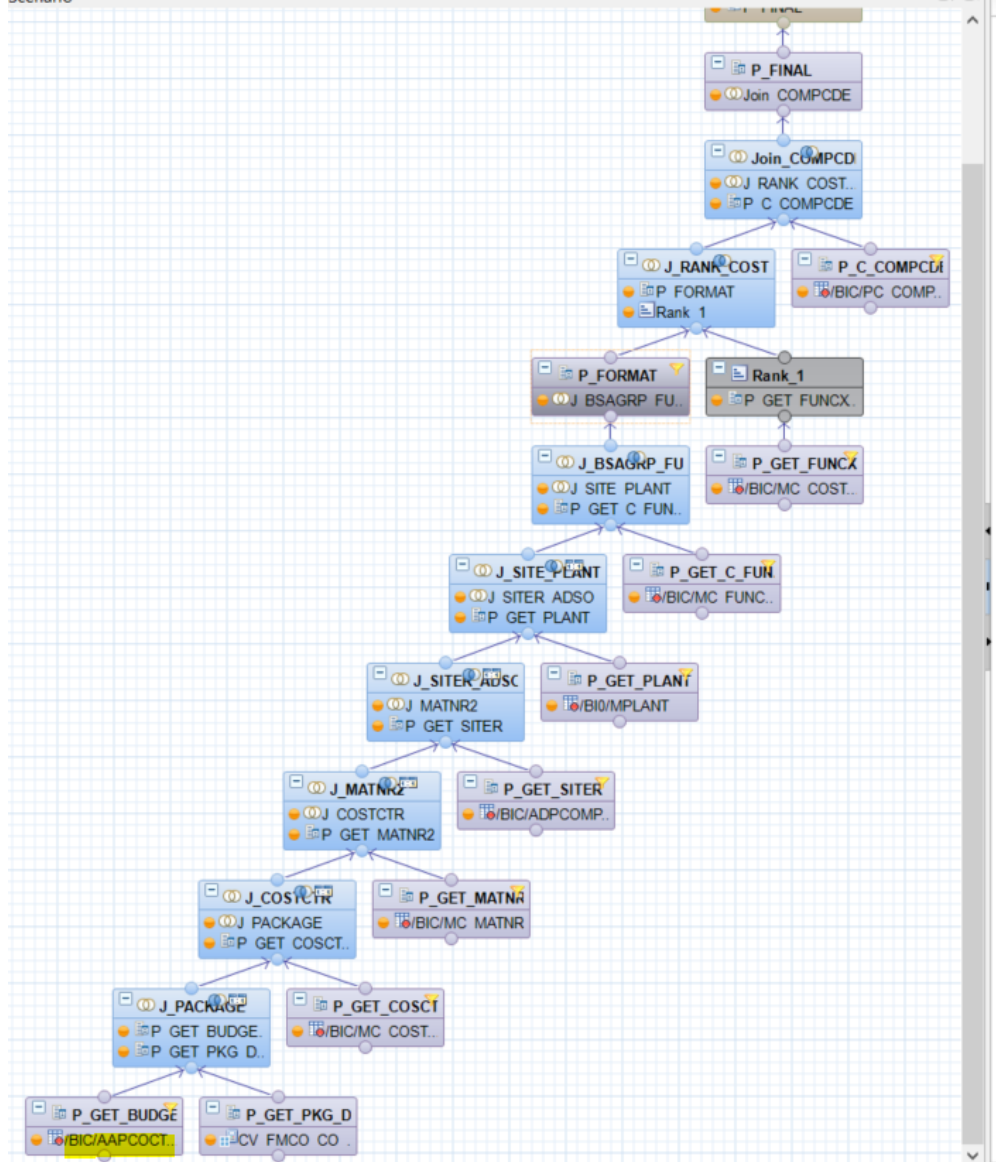
There are calculated columns in projection P_FORMAT:

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_CURR



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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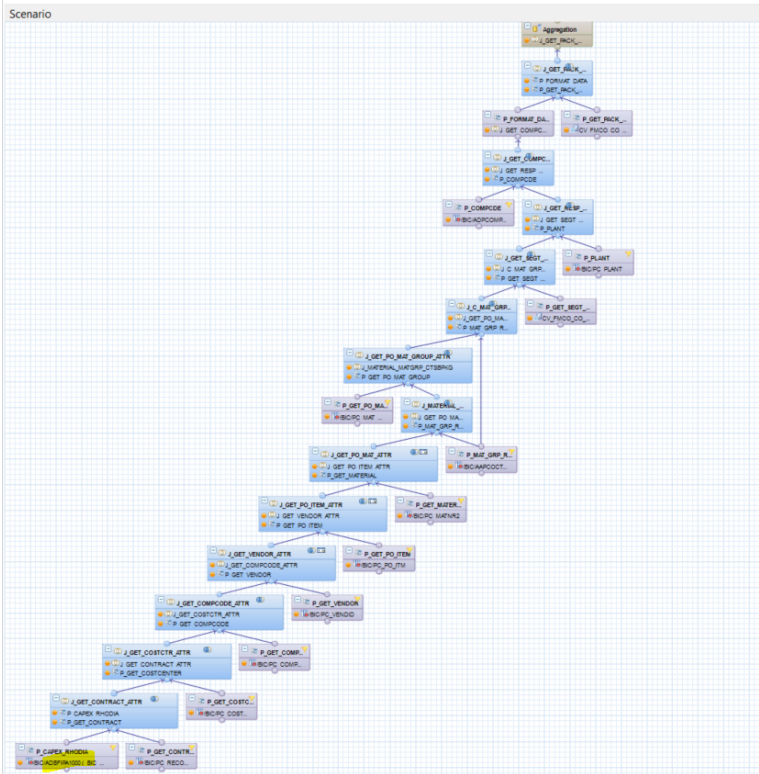
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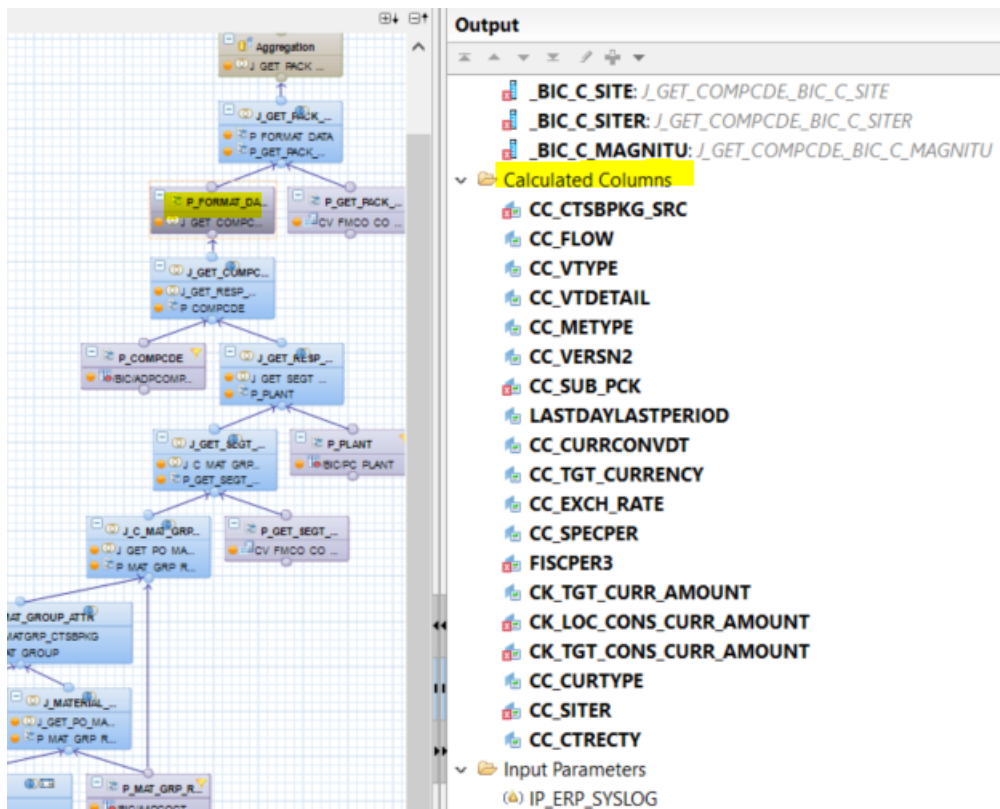
fx Main Filter

	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 logs/sco
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 scopce (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.



There are calculated columns in projection P_FORMAT:



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 OCO
18	COST ELEMENT			
19				
	Cost Element	OCOSTELMNT		OCOSTELMNT
20		OCOSTELMNT__C_CELTHF1 OCOSTELMNT__C_CELTHF2 OCOSTELMNT__C_CELTHF3 OCOSTELMNT__C_CELTHF4		OCOSTELMNT__C_CELTHF1 OCOSTELMNT__C_CELTHF2 OCOSTELMNT__C_CELTHF3 OCOSTELMNT__C_CELTHF4
21	Cost Element - Fixed cost Group xx (cost element hierarchy)			
22	Cost Element - Category	OCOSTELMNT__OCSTELMNTYP		OCOSTELMNT__OCSTELMNTYP
23	Cost Element-Variable Cost Element	OCOSTELMNT__C_VRCOSTL		OCOSTELMNT__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__OCOUNTRY		C_COMPCDE__OCOUNTRY
29	Company code - Geography / Zone	C_COMPCDE__C_ZONE		C_COMPCDE__C_ZONE
30		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/1A9cxFofRBGiyUNW9_97p2u_NJItUQCE1/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

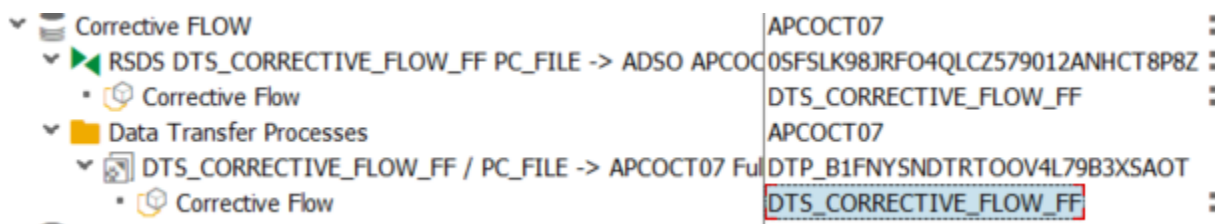
No event have been created for data loading in BW side:

- loading is made on demand

Process chain is:

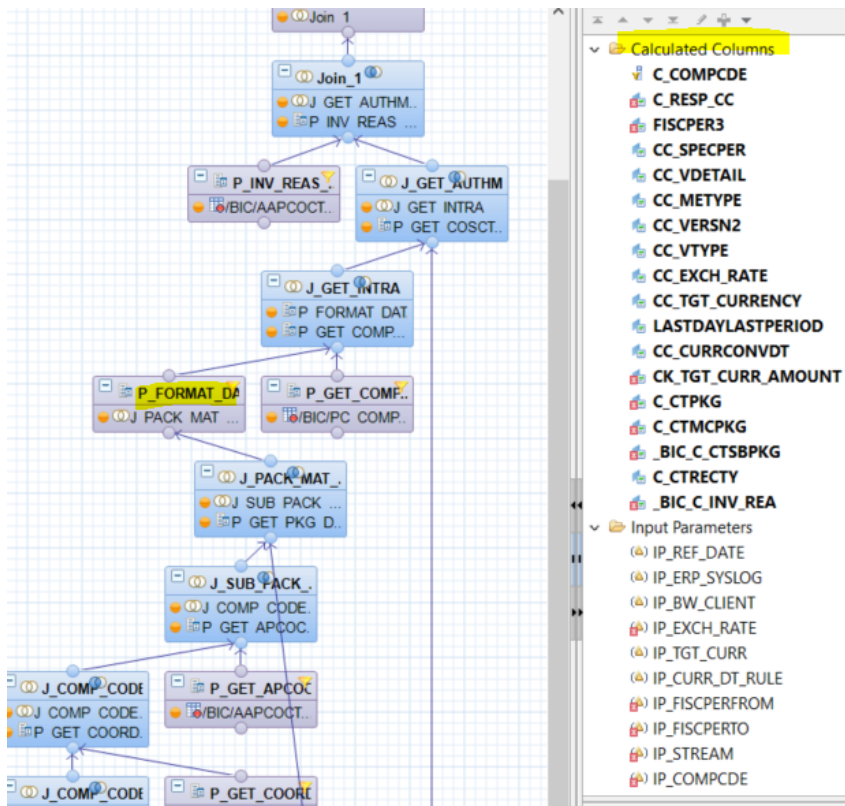
- PC_CT_CORREC_01

Budget BW flow:

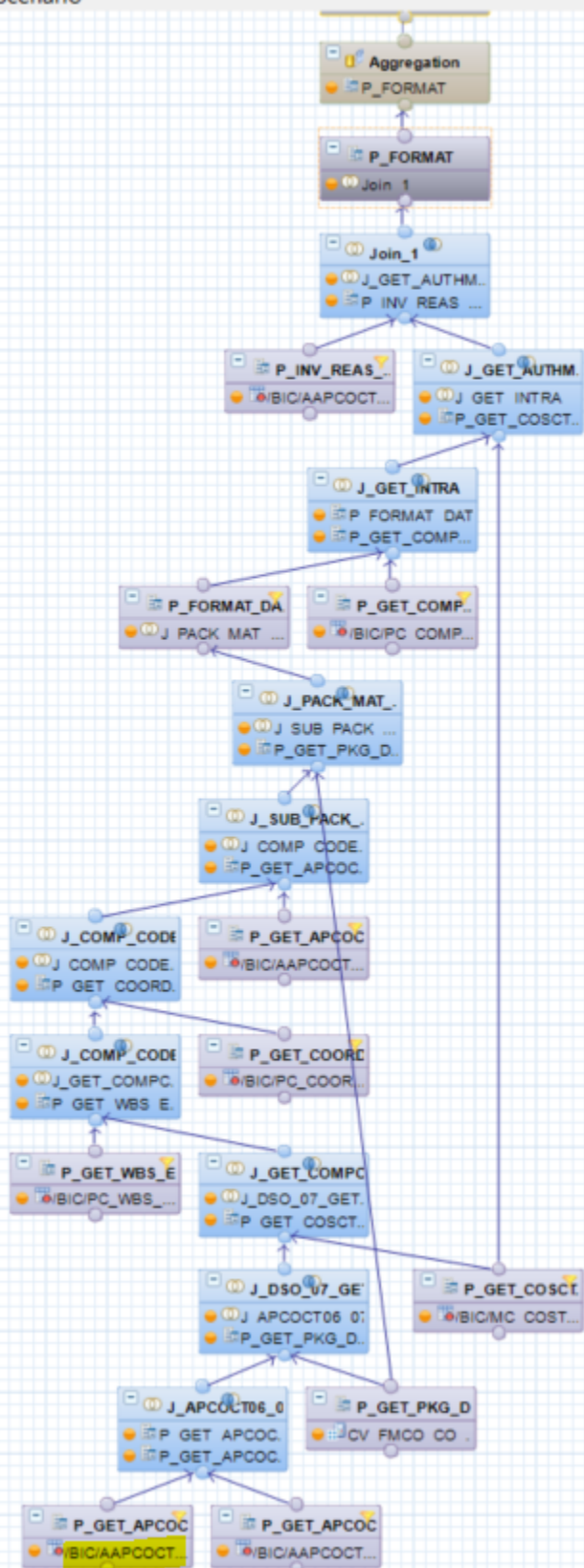


aDSO APCOCT07 is used in calculation view CV_FMCO_CO_CT_CORR_FLOW and get in left join several fields.

There are calculated columns in projection P_FORMAT:



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_GLBFLT for determine relative CO document GL Account for PCARD, GL Account can be changed :

WBD: Change Master Data of InfoObject C_GLBFLT

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

Master data of characteristic C_GLBFLT saved

The master data of characteristic C_GLBFLT 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

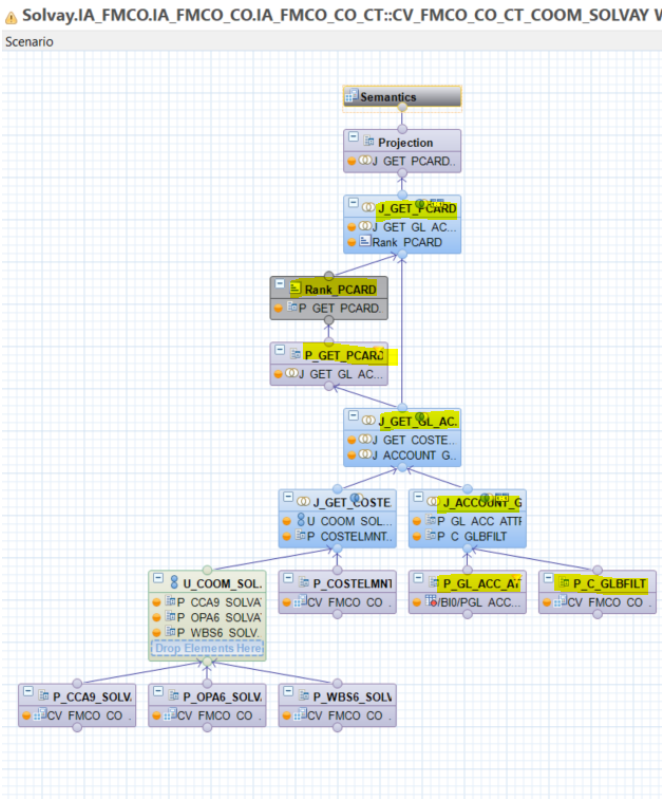
Master Data

Time Independent

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

Global Filter Stream (App)	Global Filter Rule	Global Filter	Global Filter Description	Global Filter Sign	Global Filter Option	Global Filter Low Value	Global Filter High Value	Global Filter Status
FMCO_CO_CT	GLACCOUNT	001	GLACCOUNT for PCARD	I	EQ	0040100344		Y
FMCO_CO_CT	GLACCOUNT	002	GLACCOUNT for PCARD	I	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 ONWA 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

CharacteristicC_NETWORK

Long DescriptionNetwork (with System ID)

Short DescriptionNetwork (with System

Version

Active

Saved

Object Status

GeneralBusiness ExplorerMaster Data/TextsHierarchyAttributesCompounding

Compounding

Superior InfoObject

Version

Long Description

Reference Characteristic

Con

0LOGSYS

Source System

0LOGSYS

CharacteristicC_NETACT

Long DescriptionNetwork Activity (with System ID)

Short DescriptionNet Act (with System

Version

Active

Saved

Object Status

GeneralBusiness ExplorerMaster Data/TextsHierarchyAttributesCompounding

Compounding

Superior InfoObject

Version

Long Description

Reference Characteristic

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

Saved

Object Status

General

Business Explorer

Master Data/Texts

Hierarchy

Attributes

Compounding

☐ Delete Master Data with Recordmode

Navigation Attribute InfoProvider

Attributes: Detail/Navigation Attributes

Attribute	V...	Long Description	Ty.	TL...	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_COMPDE		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	Saved	Object Status							
GeneralBusiness ExplorerMaster Data/TextsHierarchyAttributesCompounding										
☐ Delete Master Data with Recordmode		Navigation Attribute InfoProvider								
										
Attributes: Detail/Navigation Attributes										
☒ Attribute	V...	Long Description	Ty.	TL...	In...	O...	N...	A...	T...	Navigation Att.
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 transformation rules.

Activity Number in Network and Standard Network	0ACTIVITY_ATTR
Data Flow Upwards	_DATAFLOW_UPWARDS
DTP: 0ACTIVITY_ATTR -> C_NETACT - Full	DTP_B1FNYSNDTRTOPHO3PCSGAYRLB
Network Activity (with System ID) (Attributes)	ATTRIBUTES C_NETACT
RSDS 0ACTIVITY_ATTR SF1_020 -> IOBJ C_NETACT	06F08U0YJUHTRQE9EBDKLEE4GVT6924N
Network Activity (with System ID) (Attributes)	ATTRIBUTES C_NETACT
Activity number in network and standard network	0ACTIVITY_TEXT
Network Number	0NETWORK_ATTR
Data Flow Upwards	_DATAFLOW_UPWARDS
0NETWORK_ATTR / SF1_020 -> C_NETWORK	DTP_B1FNYSNDTRTOPHO56LQDFVSHN
Network (with System ID) (Attributes)	ATTRIBUTES C_NETWORK
RSDS 0NETWORK_ATTR SF1_020 -> IOBJ C_NETWORK	0ISGPEFIDJDUOPUMXK9106GGA03F1F0L
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

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			
Expression Editor			
✓ Validate Syntax		Language: Column Engine	
<pre>IF(("CC_C_WBS_EL2_MD" != '' and "PIOBSV_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:*	PIOBSV		
Data Type:	NVARCHAR	Length: 4	Scale:
Expression			
Expression Editor			
✓ Validate Syntax		Language: Column Engine	
<pre>IF(("CC_C_WBS_EL2_MD" != '' and "PIOBSV_OLD" = '0NWA' and "DB_CR_IND" = 'H'), '0POS', "PIOBSV_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			
Expression Editor			
✓ Validate Syntax		Language: Column Engine	
<pre>IF(("CC_C_WBS_EL2_MD" != '' and "PIOBSV_OLD" = '0NWA' and "DB_CR_IND" = 'H'), "CC_C_WBS_EL2_MD", "CC_PART_WBS_OLD")</pre>			

get only PIOBSV = 0NWA of source table if match with LOGSYS and PIOVALUE(network value) get WBS from C_NETACT and put 0POS for PIOBSV
Result after join with C_NETACT:

RB	PIOBSV_OLD	RB	CC_PART_WBS_OLD	RB	CC_C_WBS_EL2_MD	RB	PIOVALUE	RB	PIOBSV	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	PIOBSV_Ori	RB	PIOVALUE_ori	RB	LOGSYS	12	AMOUNT	RB	COSTELMNT	RB	PART_CCTR	RB	PIOVALUE	RB	PIOBSV	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 activity1	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:

DataSource: **DTS_COSTA_RCC_FF** COSTA RespCostCtr De

Source System: **PC_FILE** PC Files

Version: **Active** Compare with...

Active Version: Executable Edited Version

General Info. **Extraction** Proposal Fields Preview

Delta Process: Delta Only Via Full Upload (DSO or InfoPackage Selection)

Direct Access: Not Allowed; Data Replication Without PSA Allowed

Realtime: Real-Time Data Acquisition Is Not Supported

Adapter: Load Text-Type File from Application Server Properties

File Name: **/exploit/BW/COSTA/rcc.csv**

Header Rows to be Ignored: **1**

Character Set Settings: Default Setting

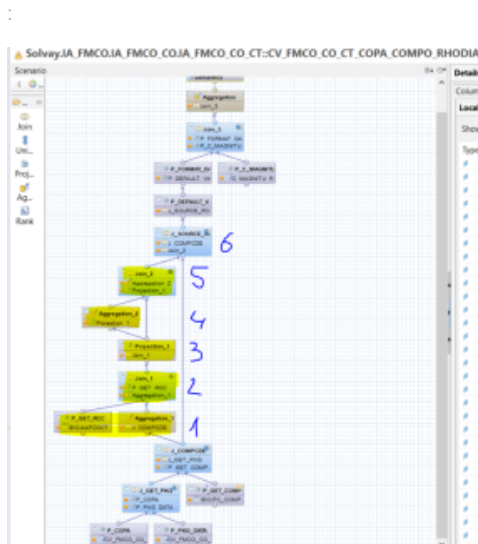
System Codepage: 4102 UTF-16BE Unicode / ISO/IEC 10646

File has been created and downloaded with program **ZBW_COSTA_RCC** (template https://drive.google.com/file/d/1IGDkT4e7LFBnwnFci_27u3maKelt4o0r/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_COM
_BIC_C_COMPCDE: J
CO_AREA: J_COMPC
C_CTPKG: J_COMPC
C_CTMCPKG: J_COM
_BIC_C_PLANT: J_C
_BIC_C_MAGNITU: J

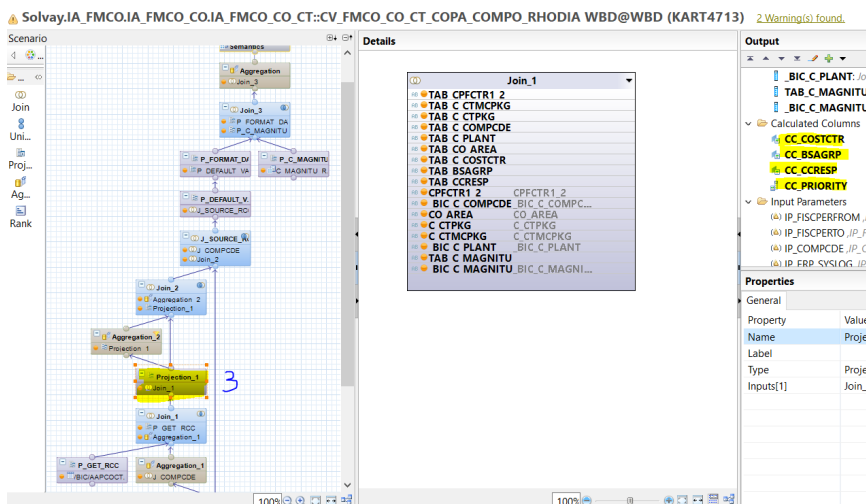
Step 2:

- 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



Name: CC_PRIORITY

Data Type: INTEGER Length: Scale:

Expression

Expression Editor

Validate Syntax

```

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_COMPCDE"="TAB_C_COMPCDE" 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_COMPCDE"="TAB_C_COMPCDE",2,
IF("TAB_C_COMPCDE"="" 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_COMPCDE"="" 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_COMPCDE"="TAB_C_COMPCDE",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_COMPCDE"="TAB_C_COMPCDE",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:

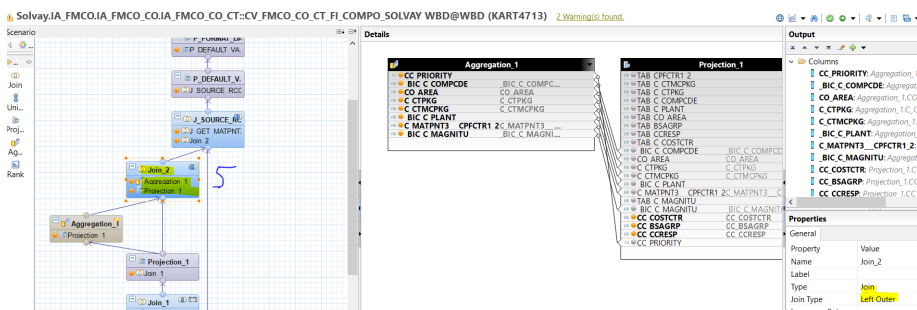
_BIC_C_COMPC...	CO_AREA	C_CTPKG	C_CTMCPKG	_BIC_C_PLANT	C_MATPNT3__CPCTR1_2	_BIC_C_MAGNITU	CC_COSTCTR	CC_BSAGRP	CC_CCRES	CC_PRIORITY	CC_COSTCTR
5782	CHEF			MJS	SP	0010	4G10400000		50026590	2	# NC_RCC
5835	CHEF			RCF	SP	0046	871260003X		FORTUNATO	5	
5782	CHEF	P10027	P00005	MJS	SP	0010	4G10400000		50026590	6	
5835	CHEF	P10031	P00005	SMF	SP	0049	871260003X		FORTUNATO	2	
4060	CHEF	P10050	P00008	BWF	CH	CH33	2Y11300000		50033074	5	
5835	CHEF	P10050	P00008	SMF	SP	0049	1N18100004		Z.HADDAD	3	
5835	CHEF	P10050	P00008	SMF	SP	0049	8711604793		50032720	1	
5835	CHEF	P10050	P00008	6006	SP	0049	8711604793		50032720	1	
5835	CHEF	P10050	P00008	6006	SP	0049	1N18100009		Z.HADDAD	4	
4060	CHEF	P10051	P00008	BWF	CH	CH33	2Y11300000		50033074	5	
5835	CHEF	P10051	P00008	SMF	SP	0049	1N18100004		Z.HADDAD	3	
4060	CHEF	P10053	P00008	BWF	CH	CH33	2Y11300000		50033074	5	
5835	CHEF	P10053	P00008	SMF	SP	0049	1N18100004		Z.HADDAD	3	
5835	CHEF	P10054	P00008	SMF	SP	0049	1N18100004		Z.HADDAD	3	
5835	CHEF	P10054	P00008	6006	SP	0049	1N18100009		Z.HADDAD	4	
4060	CHEF	P10055	P00008	BWF	CH	CH33	2Y11300000		50033074	5	
5835	CHEF	P10055	P00008	6006	SP	0049	1N18100009		Z.HADDAD	4	
5782	CHEF	P19999	P09999	53ND	SP	0010	4G10400000		50026590	6	
5782	CHEF	P19999	P09999	MJS	SP	0010	4G10400000		50026590	6	
5782	CHEF	P19999	P09999	THF	SP	0049	4G10400000		50026590	6	
5782	CHEF	P19999	P09999	53KD	SP	0010	4G10400000		50026590	6	
5782	CHEF	P19999	P09999	5D30	SP	0010	4G10400000		50026590	6	
5782	CHEF	P19999	P09999	AQS	SP	0010	4G10400000		50026590	6	
5835	CHEF	P19999	P09999	6006	SP	0049	1N18100009		Z.HADDAD	4	

After aggregation:

Analysis Distinct values Raw Data										
Filter pattern: 22 rows retrieved - 1 sec, 935 ms										
_BIC_C_COMPCDE	CO_AREA	C_CTPKG	C_CTMCPKG	_BIC_C_PLANT	C_MATPNT3__CPCTR1_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	1			
4060	CHEF	P10050	P00008	BWF	CH	CH33	5			
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 filed 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:

- 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 DF1_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

Edited Version

Rule Group: Standard Group

Pos	Key	InfoObject	Icon	Descrpt.	Data t	Lang
1		C_WBS_EL2		WBS Element (with System ID)	CHAR	000
2		OLOGSYS		Source System	CHAR	000
3		ORECORDMODE		BW Delta Process: Update Mode	CHAR	000
4		OCO_AREA		Controlling area	CHAR	000
5		C_WBSBILL		WBS Element Billing	CHAR	000
6		C_COCBILL		Cost Center Billing	CHAR	000
7		C_ORDBILL		Order Billing	CHAR	000
8		C_RCCBILL		Partner Responsible Cost Center Billing	CHAR	000
9		C_GBUBILL		GBU Billing	CHAR	000
10		C_COABILL		Controlling Area Billing	CHAR	000
11		OCH_ON		Last changed on	DATS	000
12		C_SYPARCO		Syslog Partner CO	CHAR	000
13		OCREATEDON		Date on which the record was created	DATS	000
14		OPLANT		Plant	CHAR	000
15		C_ACCOTYP		CO Account Partner Object type	CHAR	000
16		C_ACCCO		CO Account Partner Object	CHAR	000

Infosource:

InfoSource Display: Overview

InfoSource: IFS_APCOCT19_INBOUND Infosource APCOCT19 In

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

Start Routine

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

Edited Version

Rule Group: Standard Group

Pos	Key	InfoObject	Icon	Descrpt.	Data t	Lang
1		C_WBS_EL2		WBS Element (with System ID)	CHAR	000024
2		OLOGSYS		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

Costa - GBU Billing (APCOCT19) Rule Group: Standard Group

Rule	Rule Name	Pos	Key	InfoObject	Icon	Descrpt.
1	C_WBS_EL2	1		C_WBS_EL2		WBS Element (with System ID)
2	OLOGSYS	2		OLOGSYS		Source System
4	OCO_AREA	4		OCO_AREA		Controlling area
5	C_WBSBILL	5		C_WBSBILL		WBS Element Billing
6	C_COCBILL	6		C_COCBILL		Cost Center Billing
7	C_ORDBILL	7		C_ORDBILL		Order Billing
8	C_RCCBILL	8		C_RCCBILL		Partner Responsible Cost Center Billing
9	C_GBUBILL	9		C_GBUBILL		GBU Billing
10	C_COABILL	10		C_COABILL		Controlling Area Billing
11	OCH_ON	11		OCH_ON		Last changed on
12	C_SYPARCO	12		C_SYPARCO		Syslog Partner CO
13	OCREATEDON	13		OCREATEDON		Date on which the record was created
14	OPLANT	14		OPLANT		Plant
15	C_ACCOTYP	15		C_ACCOTYP		CO Account Partner Object type
16	C_ACCCO	16		C_ACCCO		CO Account Partner Object

- /bic/mc_costctr
- /bic/mc_coorder
- /bic/Pc_wbs_el2

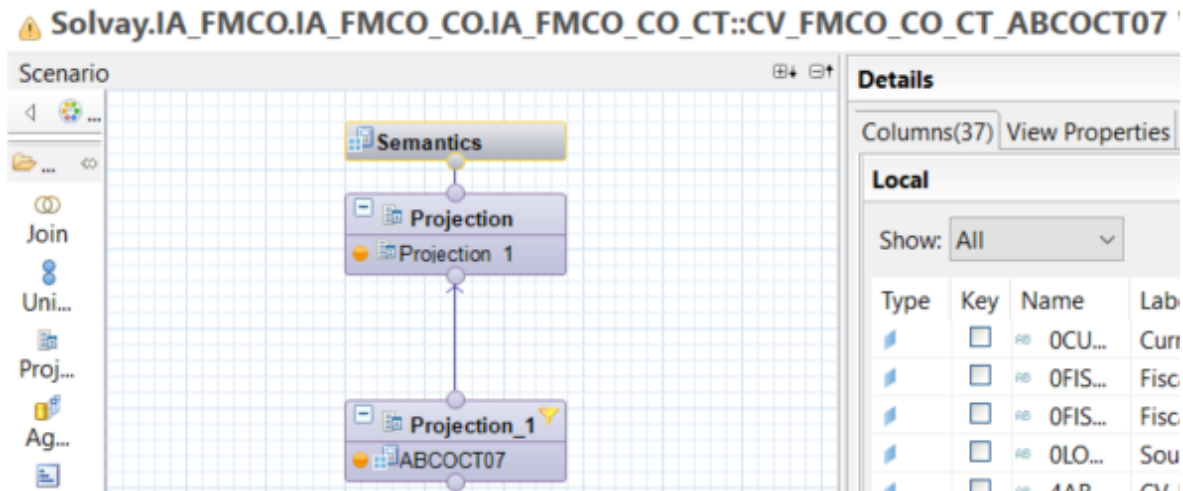
Loading has been made in daily PC_CT_MD_01 procces chain.

Snapshots for Control Check

 Scenario: CPCOCT08



Costa At Destination - Snapshots	ABCOCT07
TRSF: HCPR CPCOCT09 -> ADSO AB0EBV6FAMLWPYWE732...	
Controlling - Cost Transparency for CPCOCT09	
Controlling - Costs Transparenc CPCOCT01	
Data Transfer Processes	ABCOCT07
DTP: CPCOCT09 -> ABCOCT07 - DTP_04B9BB0HZDMR3...	



Each Snapshot is timed and dated, and named following the pattern "Pyymmdd". 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	05NL40D8HRRMLMZ50IA...
▼ TRSF: APCOCT21 -> ADSO ABCOCT08	0KJZ9V4GBXJ7XOB2X1...
Costa - Anaplan Origin Budget & BE	APCOCT21
▶ TRSF: APCOCT21 -> APCOCT21	0DYI424LXFCISVGZSW...
▶ TRSF: DTS_ANAPLAN_BESTIMATE_ADJ -> ADSO APCOCT21	0HM335SKULFDT6VZH...
▶ TRSF: DTS_ANAPLAN_BUDGET_BASE -> ADSO APCOCT21	082IPEDRSH8IHWANK...
▶ TRSF: DTS_ANAPLAN_BUDGET_OOS -> ADSO APCOCT21	0FSXGZPE6TP138H9UF...
▶ TRSF: DTS_ANAPLAN_BUD_BOT_L3 -> ADSO APCOCT21	007IRLFZZSRVJ3V13YU...
▶ TRSF: DTS_ANAPLAN_BUD_BOT_L4 -> ADSO APCOCT21	05D97HSX5ZIRZXIX8O...
▶ TRSF: DTS_ANAPLAN_BUD_BOT_L5 -> ADSO APCOCT21	0K62HPIRHTN26KW4S...
▶ 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	0PXJXL00YFQII62JKS...
▶ TRSF: DTS_ANAPLAN_ESTIMATE_OOS -> ADSO APCOCT21	0E2TLCU12L06WWKQP...
▶ TRSF: DTS_ANAPLAN_ESTIMATE_TRAN -> ADSO APCOCT21	0G5YZ59ZHCK501HHH...

Bridge Destination data is collected through ADSOs APCOCT22 and ABCOCT09.

Costa - Bridge destination Budget & BE	ABCOCT09
▶ ADSO ABCOCT09 -> ADSO ABCOCT09	0KCXX35700MZ8W352...
▼ TRSF: ADSO APCOCT22 -> ADSO ABCOCT09	0D2BU6LTWWVJADQB...
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.

```

9	SRC_ADJ_BESTIM	C_SRC_ANA	/BIC/C_SRC_ANA	Source Anaplan	CHAR	000020
10	F01	C_VERSN2		Version	CHAR	000003
12	ANAPL_EST	C_FLOW		C_flow	CHAR	000016
13	Empty	C_FLG_OBS		Flag Obsolete	CHAR	000001
14	K_BESTIMATE	K_BESTIMATE		Best Estimate	FLTP	000016
15	K_ADJ_BESTIM	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.

Dependencies with other applications

Data loadings

List of process chain

P r o c e s s c h a i n d e s c r i p t i o n	P r o c e s s c h a i n t e r n a l m	Starter
C O S T A - A d j u s t m e n t P e r i m e t e r F l o w	P C - C T - C O R R E C T I V E - 2 - 0 1	ZBW_COSTA_CORRECTIV

COSTA - At Destination Allocation Matrix Loading	PCCTDESTSCHE02	Sub Chain from PC_CT_DEST_SCHE_01																																				
COSTA - At Destination scheduling process		Daily - 9am - but full process chain only between 3rd and 7th day of month. Table: /BIC/PC_GLBFLT<table><tr><td>EP</td><td>/BIC/C_STRE...</td><td>/BIC/C_RULE</td><td>/BIC/C_GLBFLT</td><td>OBJVERS</td><td>CHANGED</td><td>/BIC/C_DESC</td><td colspan="5">*****</td></tr><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>/BIC/C_SIGN</td><td>/BIC/C_OPTION</td><td>/BIC/C_LOW</td><td>/BIC/C_HIGH</td><td>/BIC/C_ACTIVE</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>I</td><td>BT</td><td>3</td><td>7</td><td>Y</td></tr></table>	EP	/BIC/C_STRE...	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CHANGED	/BIC/C_DESC	*****						COSTA_DEST	RANGE_DAY	001	A		Work. Day for PC_CT_DEST_SCHE_01	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE								I	BT	3	7	Y
EP	/BIC/C_STRE...	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CHANGED	/BIC/C_DESC	*****																															
	COSTA_DEST	RANGE_DAY	001	A		Work. Day for PC_CT_DEST_SCHE_01	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE																											
							I	BT	3	7	Y																											
COSTA - Budget Flow	PCCTBUDGET01	ZBW_COSTA_BUDGET																																				

C O S T A - C O R R E C T I V E F I O W	P C - C T - C O R R E C - 0 1	ZBW_CORR_FLOW
C O S T A - C O R R E C T I V E F l o w 2 - D e s t i n a t i o n	P C - C T - C O R R E C - 0 2	ZBW_CORR_FLOW_2
C O S T A - C o s t C e n t e r D e t e r m i n a t i o n	P C - C T - R C C - 0 1	ZBW_COSTA_RCC

C O S T A - C o s t S u b- P a c k a g e - Z B B	P C - C T - T R - 0 5	ZBW_COSTA_C_CTSBPKG_ZBB
C O S T A - F 2 G A n a p l a n - E x t r a c t i o n	P C - C O - C T - 0 3	Daily - 5 am

C O S T A - H i e r a r c h y L e v e l 5 - R e s p o n s i b l e C o s t c e n t e r	P C - C T - L E V E L 5 - H I E R	When necessary
C O S T A - I n f l a t i o n s	P C - C T - T R - 0 4	ZBW_COSTA_INFLATION
C O S T A - I n v e s t m e n t R e a s o n W B S	P C - C T - I N V - R E A - 0 1	ZBW_COSTA_INV

C O S T A - M a t e r i a l s	P C C T M D 0 1	Daily 1:30 am
C O S T A - O r d e r G r o u p O P E X / C A P E X	P C C T T R 0 3	ZBW_COSTA_ORDER_CAPEX_OPEX
C O S T A - P e r i m e t e r s B r i d g e f l o w	P C C T P E R I C H 0 1	ZBW_COSTA_FILE
C O S T A - S A M P L E F l o w	P C C T T R S A M P L E	Daily 1:30 am

C O S T A - T D - A n a p l a n B e s t E s t i m a t e D e s t i n a t i o n	P C C O C T 0 5	Monthly on 13th workday of the month in Calendar 50
C O S T A - T D - A n a p l a n B u d g e t D e s t i n a t i o n	P C C O C T 0 6	Yearly on 13th workday of July in Calendar 50

C O S T A - T r a n s a c t i o n n a l D a t a 0 1	P C - C T - T R - 0 1	Daily 1:30 am
C O S T A - T r a n s a c t i o n n a l D a t a 0 2 (S c r e e n P c k g)	P C - C T - T R - 0 2	Daily 6:30 am
C O S T A M e t a c h a i n 0 1	P C - C T - M E T A - 0 1	Daily 1:30 am

C O S T A : T D - M - A n a p l a n O r i g i n C o s t s E x t r a c t i o n	P C C O C T 0 4	When necessary
C O S T A : T D - T - M a n u a l S n a p s h o t s	P C C O C T 0 2	ZBW_COSTA_FLAT_FILES
C O S T A : T D - W - S n a p s h o t s	P C C O C T 0 1	Each wenesday at 9am

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

BP	/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):

Edit Table TVARVC: Selection Variables

Individual maintenance

Contents of Table TVARVC

☐ Include changed entries in transport request

Parameter

Selection Options

Name	O.	Lower limit	Upper limit	Mult...	Ca.
Z_BW_CT_DEST_PERIOD_RG	1	202209	202209		

2) Execute process chain PC_CT_DEST_SCHE_01 (with transaction se37 RSPC_API_CHAIN_START).

Info providers and objects loaded

Loading frequency

Average performance

Key Figure	Estimation
------------	------------

~ Average Process Chain Runtime	
~ Average nb of rows loaded per load	
~ Total nb of rows loaded (if full)	
~ Average Runtime for 10k lines	

Record Keeping

Reporting

Queries End User Documentation

Main queries

BW_QRY_CPCOCT05_0001: Cost Transparency - A destination View
 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
 QV_BW_QRY_CPCOCT05_0002: QV Cost Transparency
 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)

Main functionalities

Broadcast

Maintenance

Known bugs

Recurring procedure

Planned Evolution

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).