

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 : ZBW_ADJ_PERIM_COSTA ZBW_BUD_COSTA ZBW_COR_COSTA ZBW_COSTA_SNAP ZBW_CUST_COSTA ZCOSTA_BRIDGE_FILE
ZR_RCS_CA_M73	Cost Transprancy	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

DataFlow

Overview

CPCOCT05 data flow

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 tool to 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

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
- Infoprovider: APCOCT17
- Query:
- Flat file format:

Bridge Perimeter

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

Corrective Flow destination

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

Order Capex Opex

- Program: ZBW_COSTA_ORDER_CAPEX_OPEX
- Process chain: PC_CT_TR_03
- Infoprovider: 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
- Infoprovider: APCOCT11 CPCOCT06
- Query: BW_QRY_CPCOCT06_0002 + QV_BW_QRY_CPCOCT06_0002
- Flat file format:

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_B1FNYSNDTRTQFIIMPH4W18R06	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_B1FNYSNDTRTQFIJ0JF6DCYL10	Change
DTP: APCOCT14 (PRS_020) -> C_SUBCLUS - Delta - text	DTP_B1FNYSNDTRTQFIJ128RYMGY73	Change
TRSF: APCOCT14 (PRS_020) -> CPFCTR1_2	0P7W0X8D8LFX7FOMP5JC6ZPVTY5ILWGF	Change
TRSF: APCOCT14 (PRS_020) -> C_CLUSTER	0KYHTL5PMW1HGI28NU1WJJ8346HSNOFV	Change
TRSF: APCOCT14 (PRS_020) -> C_SUBCLUS	0182Q9ZKN5J523EZD3OXMQH8F93PM2VR	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

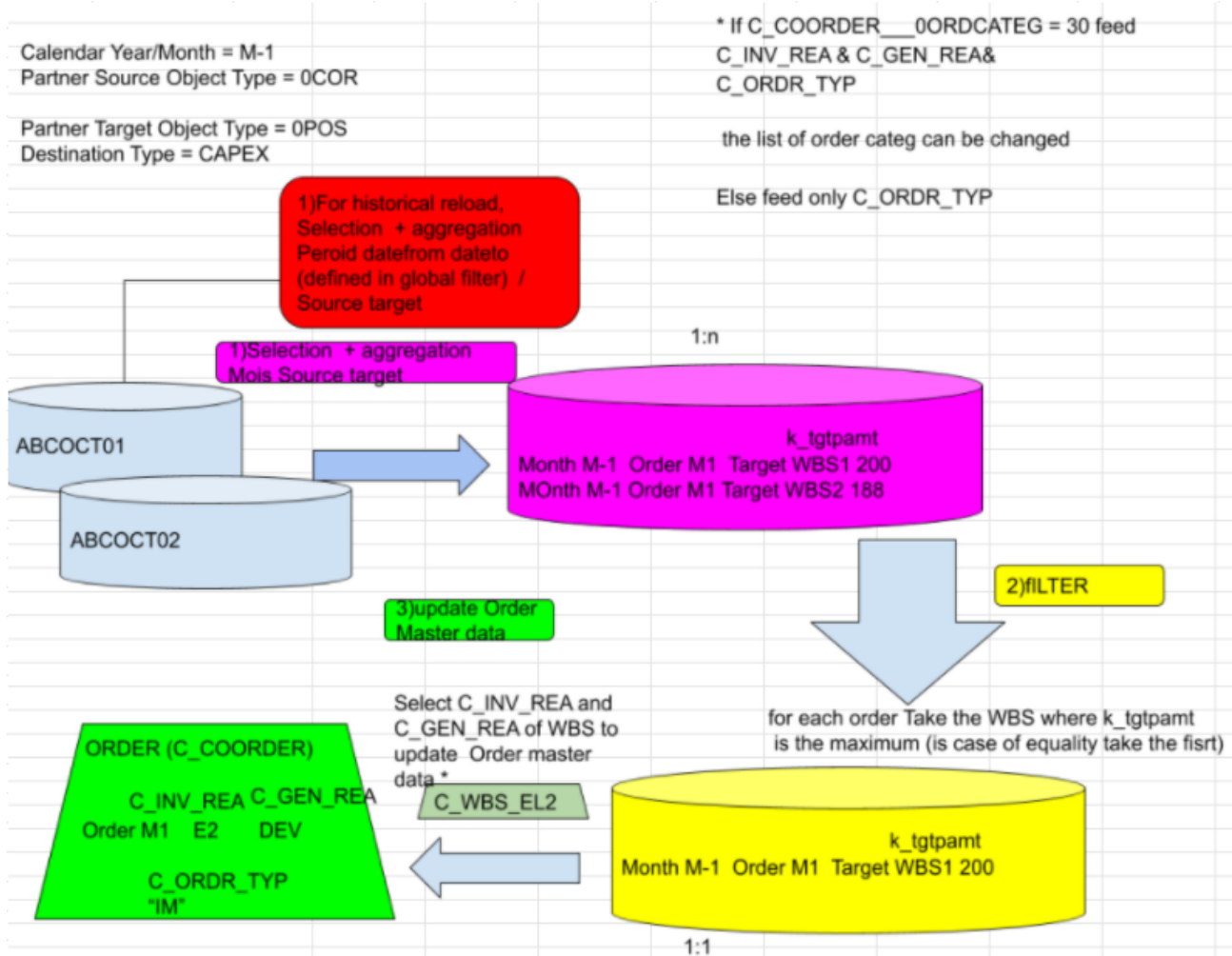
Goal: in master data c_coorder add three new attributes C_GEN_REA & C_INV_REA & C_ORD_TYP

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_HIGH
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

A program has been created ZBW COSTA INV for upload file as link:

- 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:

[illegible]

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**

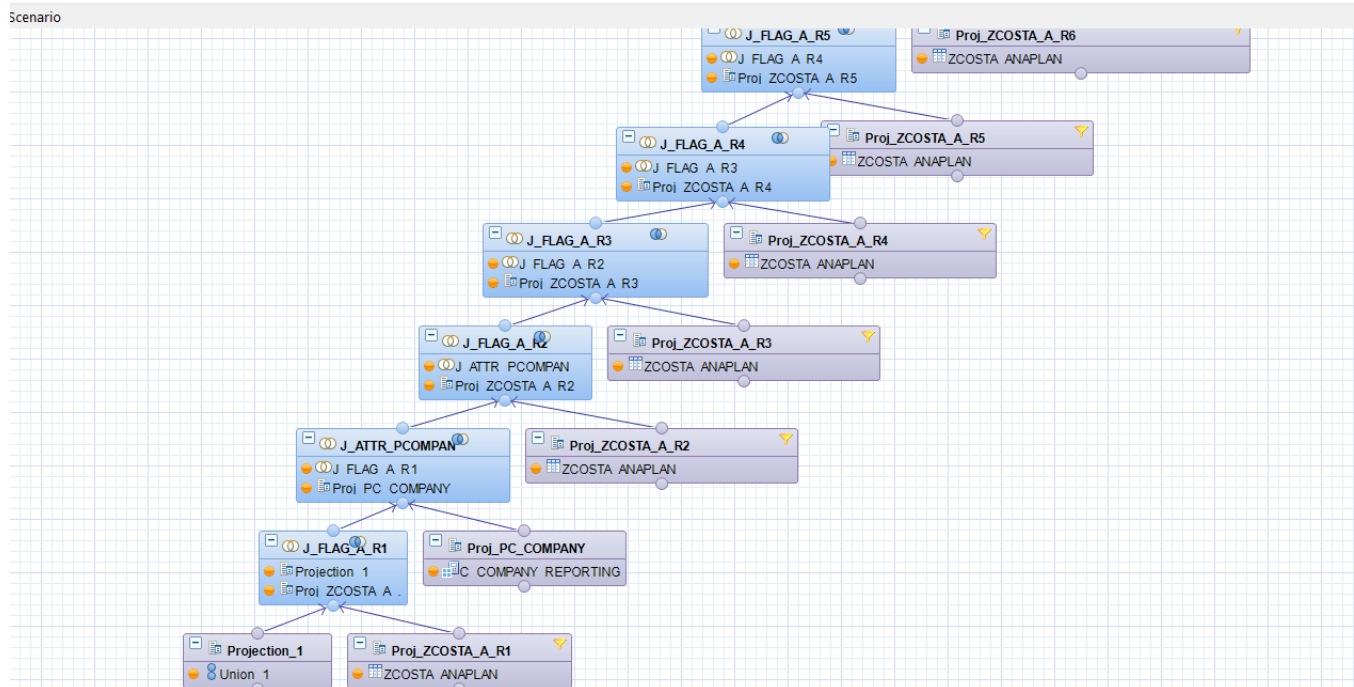
We use this table in calculation view CV_FMCO_CO_CT_UNION_COSTS_TRANSPARENCY_DEST.

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("CC_TREX_A_CORR_FLOW_DEST"), "CC_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_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_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', '', IF(strlen("C_TREX_A")>1, '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

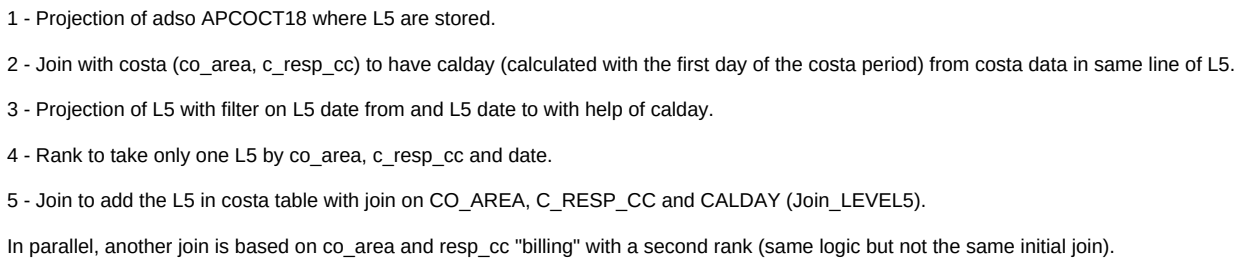
Expression Editor

✓ 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.



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



File Edit View Insert Format Data Tools Add-ons Help Last edit was 4 minutes ago

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 attribute is empty or no plant use 00	Use attribiute C_... If attribute is em...
COST ELEMENT			
+ TO DO V2 TODO KT 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 - ZFI_SAMPLE_COGS / WV1_400 -> APCOCT08 - Sample WP1 - RSDS ZFI_SAMPLE_COGS WV1_400 -> ADSO APCOCT08 - Sample WP1	_DATAFLOW_UPWARDS DTP_B1FNYSNDTRTOOXRRYD1UXJEPP APCOCT08 0781Y19569FXFBK14M7Z4GECR1VWU31C APCOCT08	Change Manage Change Manage	InfoProviders 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/adpcompcd00 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/mpplant 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:

- 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	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	C_COSTCTR
17	Site Restated	C_SITER	Use attribute C_siter of 0plant If attribute is empty or no plant use 0

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:

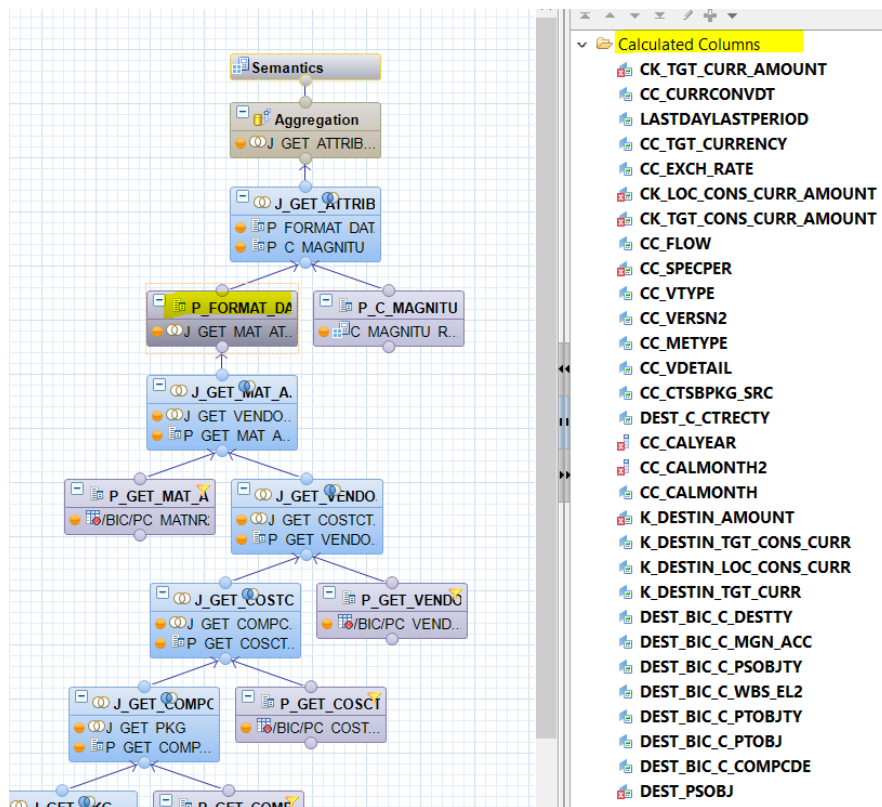
- PC_FC_CYTEC_003A
- PC_FC_CYTEC_002A
- PC_FC_CYTEC_001A

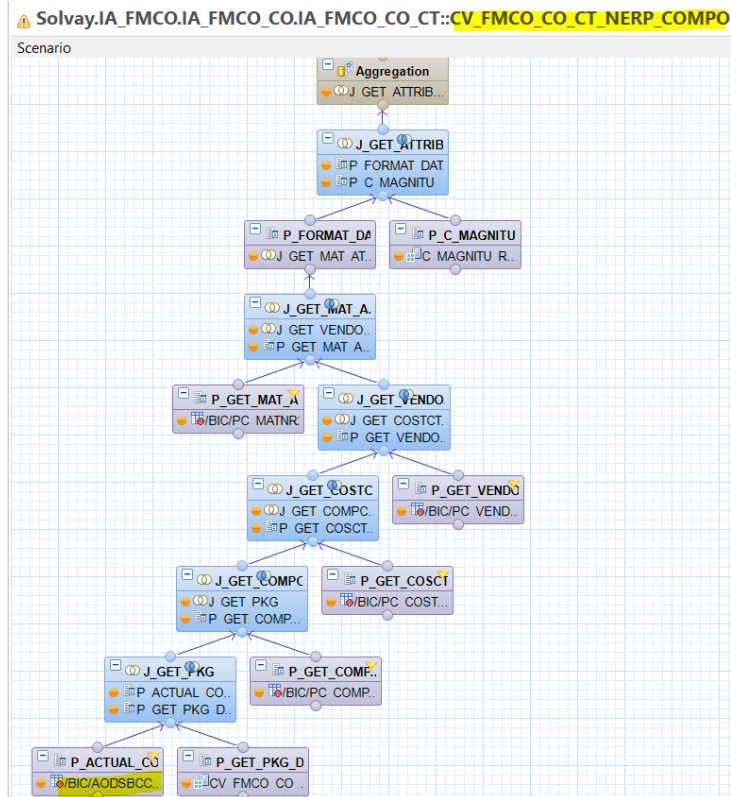
NERP BW Flow:

Cost Centers: Actual Costs (External data)	ODSBCCA9
↳ TRSF: DTS_CC_ACTUAL_COST_EXTERNAL -> ODSBCCA9 (ext.data)	0M7PNVR8S02GQCSIU27UH87R0BLH9JZE
↳ Cost Centers: Actual Costs - Line Items (external data)	DTS_CC_ACTUAL_COST_EXTERNAL
▪ Copy Infopackage	ZPAK_5NHC11RT2GT8RQ9TUB9WQ8T OF
▪ 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_55GC7JUHV11OPT418GRXDBV3E
↳ TRSF: ODSBCCA9 -> CUB_FC007 (External data)	07ICZJO6JY6PDADB98ZH3S3WOC100FQ

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		
1	A	B	AE AF
2		Technical Object	BUDGET FLOW
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 (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_FUNCT_0	C_RESP_CC_C_FUNCT_0 if C_RESP_CC feeded else ???
	Responsible CC - 1 Organisation	C_RESP_CC_C_FUNCT_1	C_RESP_CC_C_FUNCT_1 if C_RESP_CC feeded else ???
	Responsible CC - 2 Function	C_RESP_CC_C_FUNCT_2	C_RESP_CC_C_FUNCT_2 if C_RESP_CC feeded else ???
	Responsible CC - 3 Sub-function Grouping	C_RESP_CC_C_FUNCT_3	C_RESP_CC_C_FUNCT_3 if C_RESP_CC feeded else ???
	Responsible CC - 4 Sub-function	C_RESP_CC_C_FUNCT_4	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_RPLANTif 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 0COMP_CODE to search in DSO DPCOMPCD

Template of Budget flat file :

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

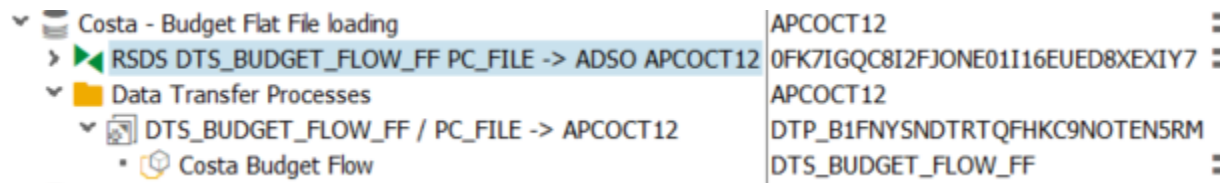
An event have been created for data loading in BW side:

- Z_EVT_START_PC_CT_BUDGET_01

Process chain is:

- PC_CT_BUDGET_01

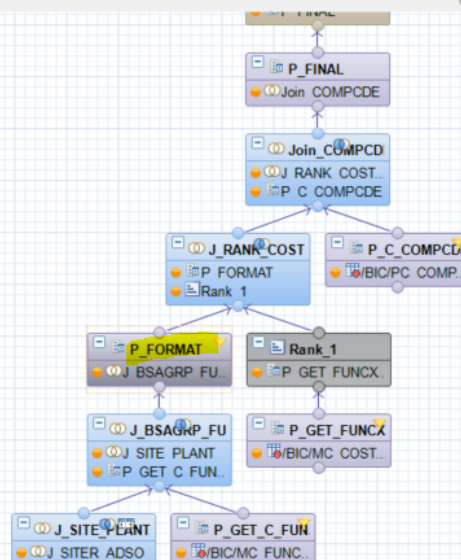
Budget BW flow:



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

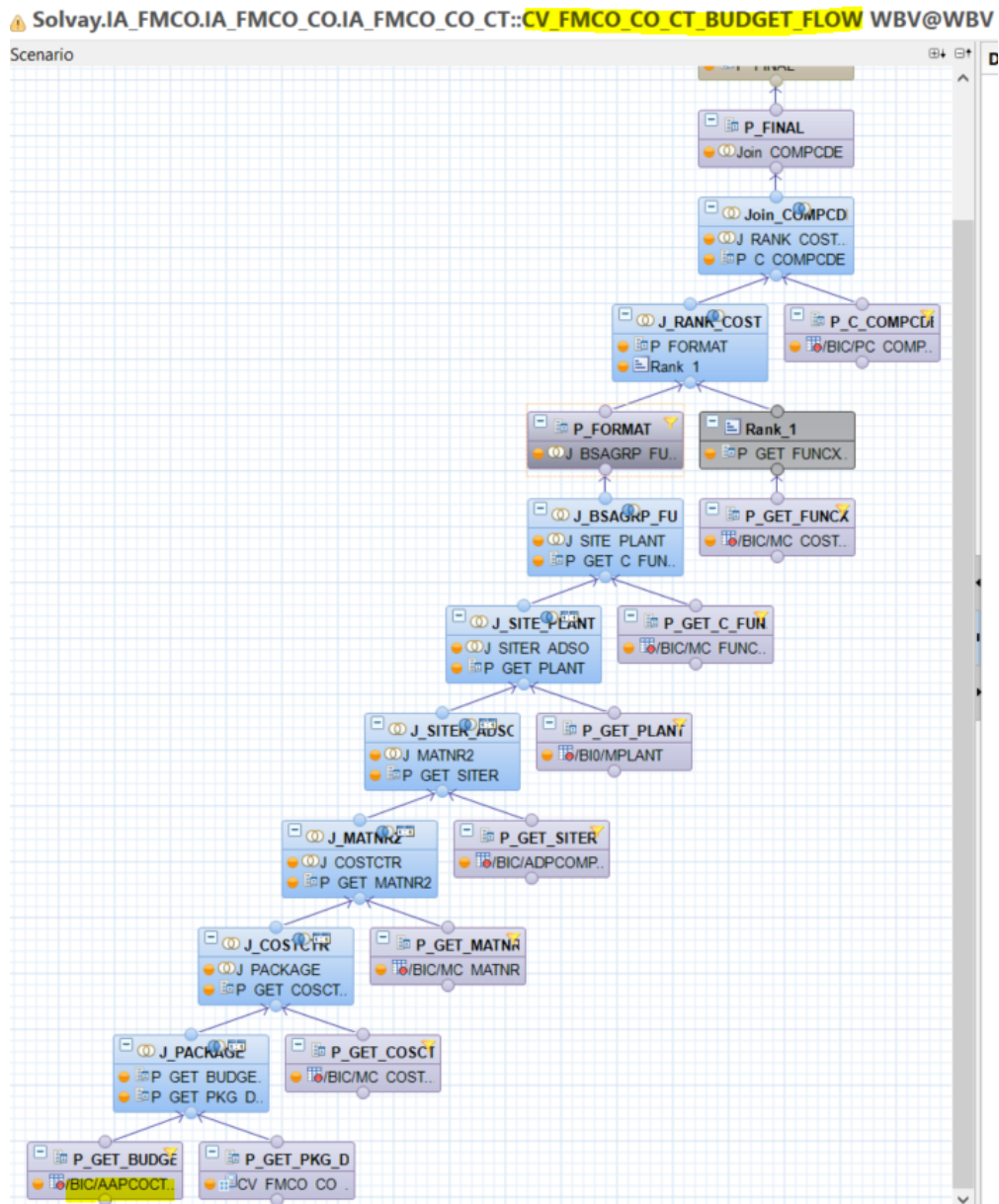
There are calculated columns in projection P_FORMAT:

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_CURR



this calculation view is used in composite provider CPCOCT01.

IFRS16 FIAP lease Rhodia and Solvay

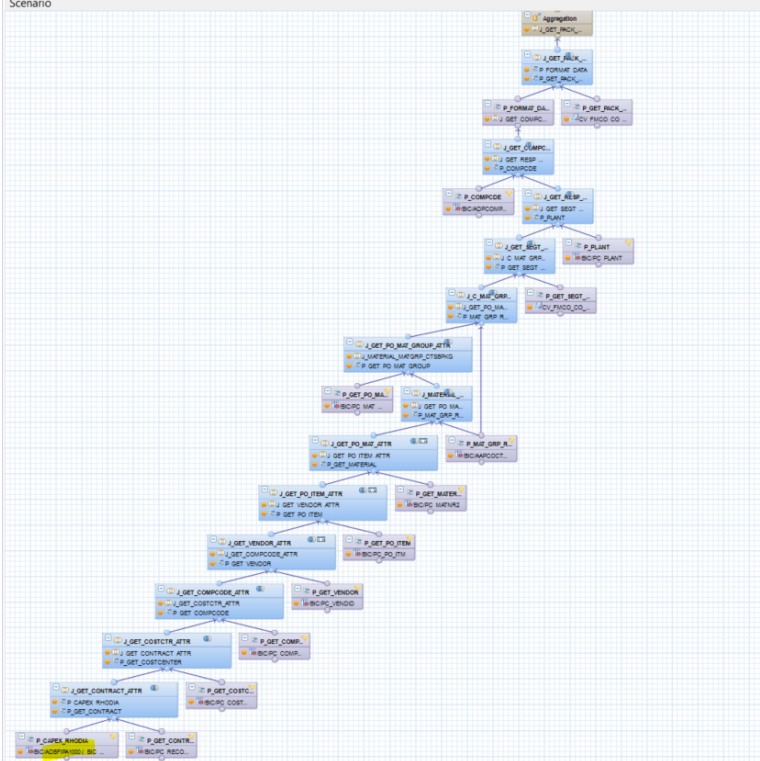
Goal is to get data in dso DBFIPA10 CAPEX Rhodia - FIAP Lease and DBFIPA11 CAPEX Solvay - FIAP Lease.

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

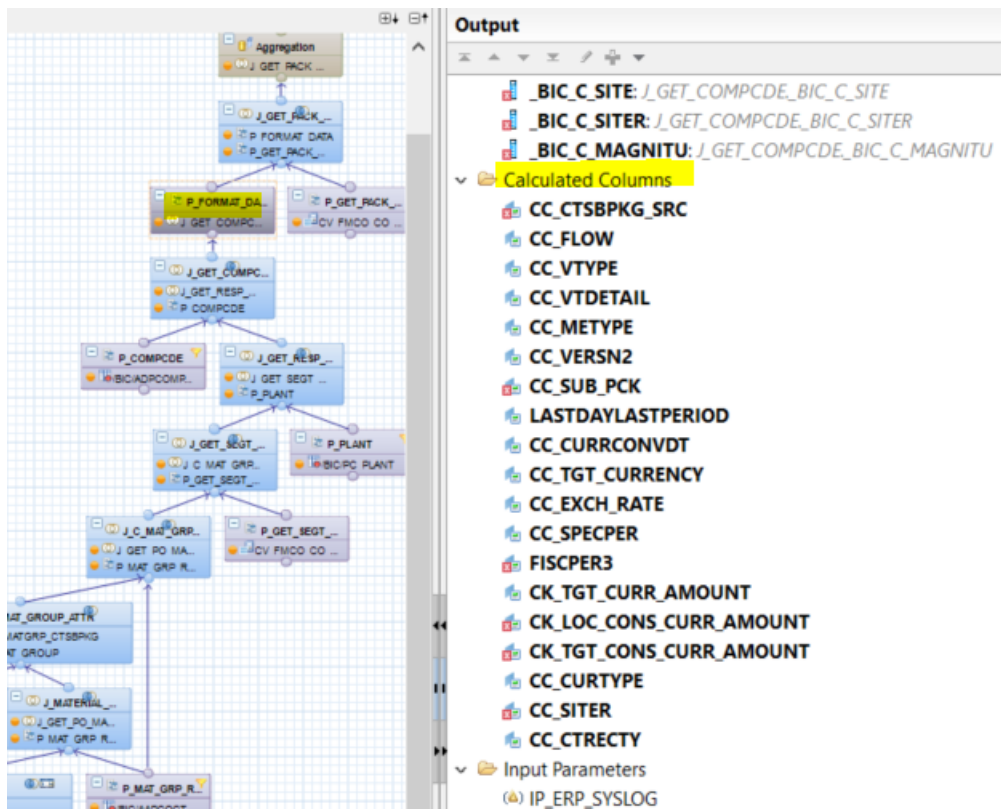
Needs column "V" and "W" of "Step 1 - Axis , Filters and authorization" excel file:

Step 1 - Axis, Filters and authorization				Last edit was 15 minutes ago			
File Edit View Insert Format Data Tools Add-ons Help				100% € % .0 .00 123 Calibri 11 B I A			
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 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 0COMP_CODE to search in DSO DPC	Use attribute C_siter of Oplant If attribute is empty or no plant use 0COMP_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 attribuite 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:

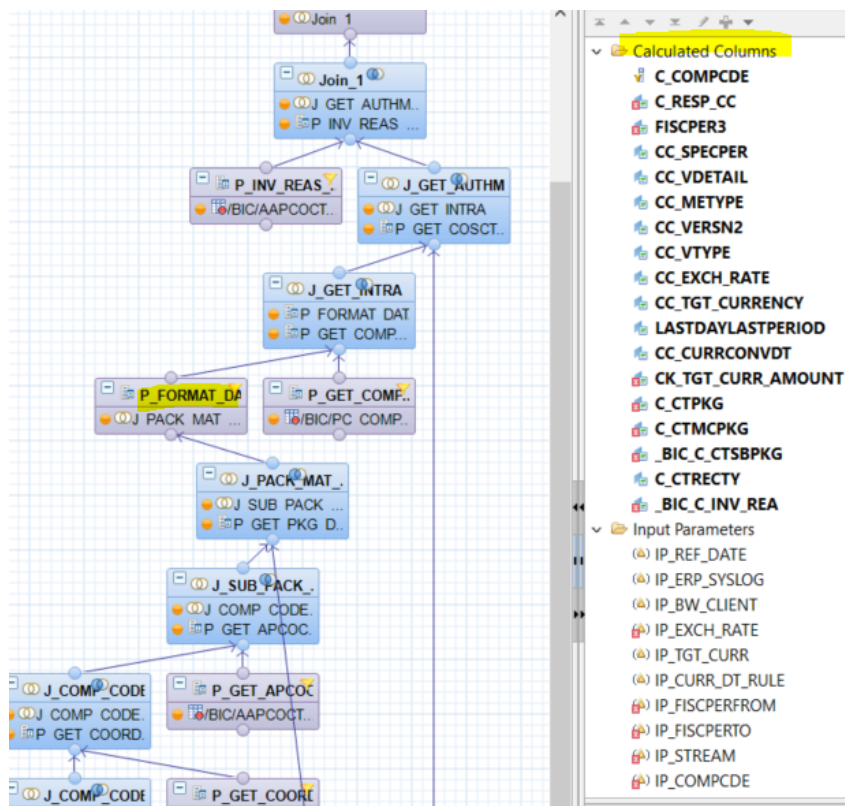
- PC_CT_CORREC_01

Budget BW flow:

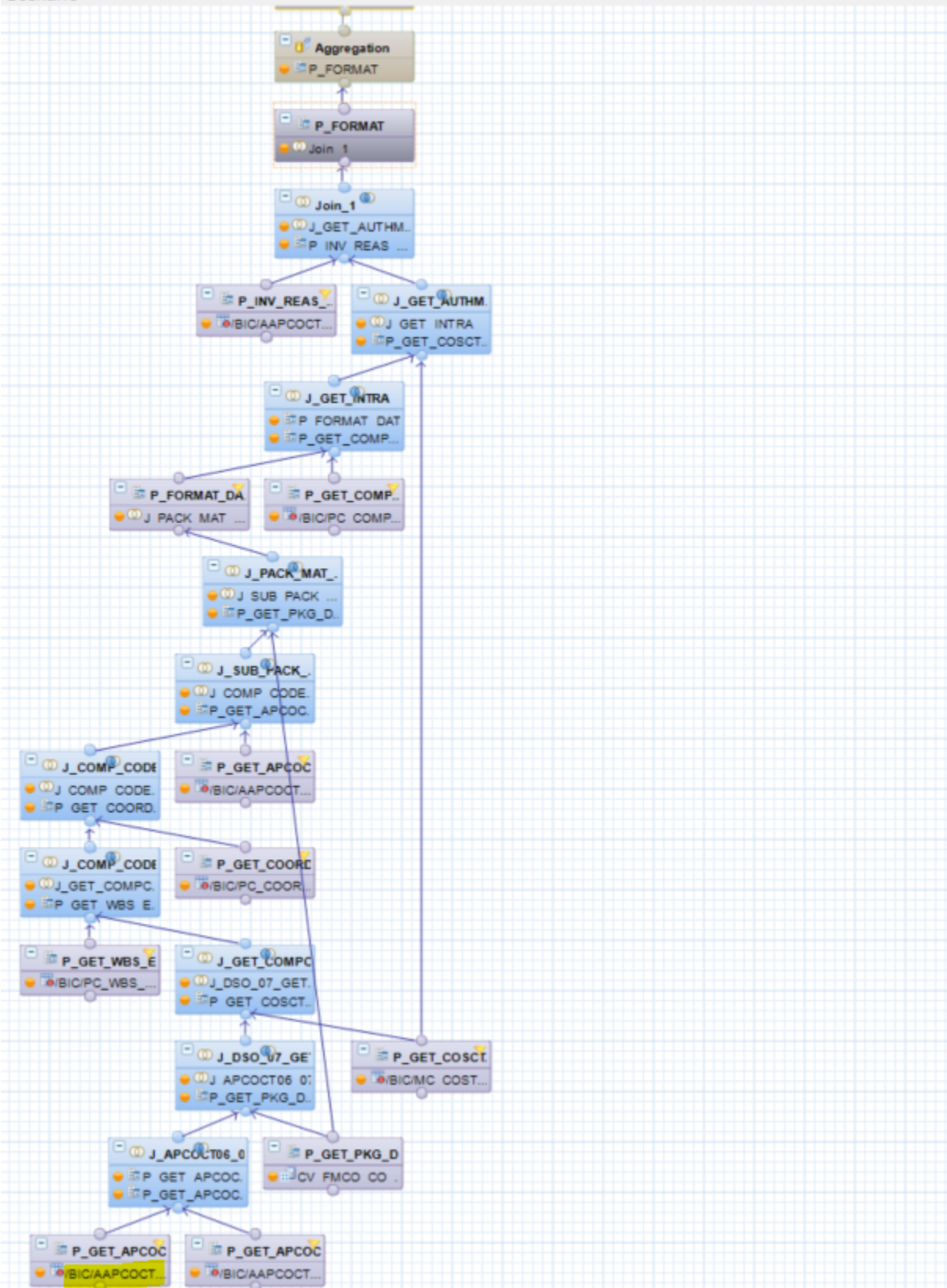
Corrective FLOW	APCOCT07
RSDS DTS_CORRECTIVE_FLOW_FF PC_FILE -> ADSO APCOC	05FSLK98JRF04QLCZ579012ANHCT8P8Z
Corrective Flow	DTS_CORRECTIVE_FLOW_FF
Data Transfer Processes	APCOCT07
DTS_CORRECTIVE_FLOW_FF / PC_FILE -> APCOCT07 Full	DTP_B1FNYSNDTRTOOV4L79B3XSAOT
Corrective Flow	DTS_CORRECTIVE_FLOW_FF

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

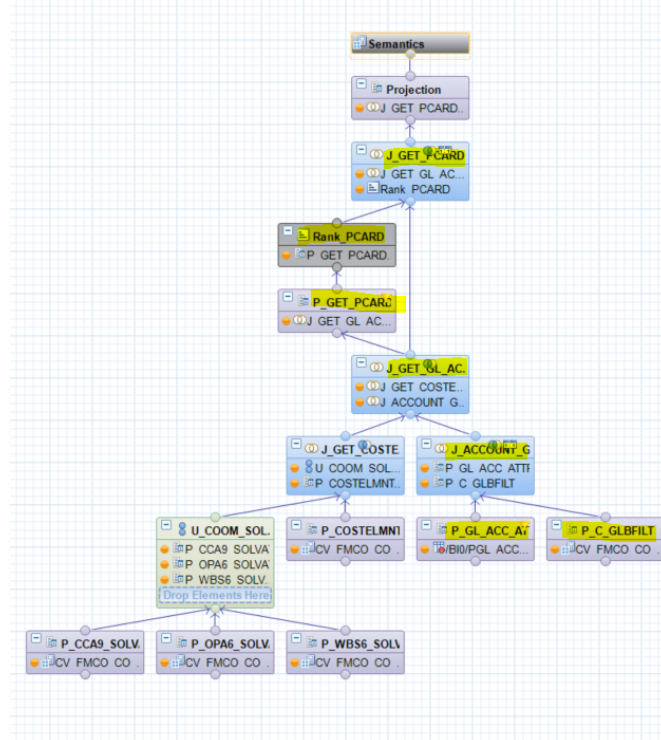
Add Line | Withdraw Changes | Change all records | Details | Where Used | Document Browser

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	Global Filter
FMCO_CO_CT	GLACCOUNT	001	GLACCOUNT for PCARD	I	EQ	0040100044			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:

Solvay.IA_FMCO.IA_FMCO_CO.IA_FMCO_CO_CT::CV_FMCO_CO_CT_COOM_SOLVAY V

Scenario



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

CharacteristicC_NETWORK

Long DescriptionNetwork (with System ID)

Short DescriptionNetwork (with System

Version

Active

Saved

Object Status

Acti

General

Business Explorer

Master Data/Texts

Hierarchy

Attributes

Compounding

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

General

Business Explorer

Master Data/Texts

Hierarchy

Attributes

Compounding

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 Orecordmode

Navigation Attribute InfoProvider



Attributes: Detail/Navigation Attributes

☒ Attribute

Attribute	V...	Long Description	Ty.	Ti...	In...	O...	N...	A...	T...	Navigation Att. Desc
<u>OCOORD_TYPE</u>		Order type	DIS			15				
<u>OCO_AREA</u>		Controlling area	DIS			4				
<u>OCREATEDON</u>		Date on which the record was	DIS			17				
<u>ODOC_NUMBER</u>		Sales document	DIS			5				
<u>OS_ORD_ITEM</u>		Sales document item	DIS			12				
<u>C_COMPCODE</u>		Company code	DIS			0				
<u>C_PLANT</u>		Plant	DIS			0				
<u>C_WBS_EL2</u>		WBS Element (with System ID)	DIS			0				
<u>OPLANT</u>		Plant	DIS			0				
<u>C_PROJ_2</u>		Project Definition	DIS			0				
<u>OCH_ON</u>		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

General

Business Explorer

Master Data/Texts

Hierarchy

Attributes

Compounding

☐ Delete Master Data with Orecordmode

Navigation Attribute InfoProvider

Attributes: Detail/Navigation Attributes

Attribute	V...	Long Description	Ty.	Ti...	In...	O...	N...	A...	T...	Navigation Att. D
OACTTYPE		Activity Type	DIS			1				
OCO_AREA		Controlling area	DIS			5				
C_PLANT		Plant	DIS			0				
C_WBS_EL2		WBS Element (with System ID)	DIS			0				
OPLANT		Plant	DIS			0				
C_PROJ_2		Project Definition	DIS			0				
OCH_ON		Last changed on	DIS			0				
OCREATEDON		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	OACTIVITY_ATTR
Data Flow Upwards	_DATAFLOW_UPWARDS
DTP: OACTIVITY_ATTR -> C_NETACT - Full	DTP_B1FNYSNDTRTOPHO3PC5GAYRLB
Network Activity (with System ID) (Attributes)	ATTRIBUTES C_NETACT
RSDS OACTIVITY_ATTR SF1_020 -> IOBJ C_NETACT	06F08U0YJUHTRQE9EBDKLEE4GVT6924N
Network Activity (with System ID) (Attributes)	ATTRIBUTES C_NETACT
Activity number in network and standard network	OACTIVITY_TEXT
Network Number	ONETWORK_ATTR
Data Flow Upwards	_DATAFLOW_UPWARDS
ONETWORK_ATTR / SF1_020 -> C_NETWORK	DTP_B1FNYSNDTRTOPHO56LQDFVSHP
Network (with System ID) (Attributes)	ATTRIBUTES C_NETWORK
RSDS ONETWORK_ATTR SF1_020 -> IOBJ C_NETWORK	0ISGPEFIDJDUOPUMXK9I06GGA03F10L
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

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			
Expression Editor			
✓ 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			
Expression Editor			
✓ 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			
Expression Editor			
✓ 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	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

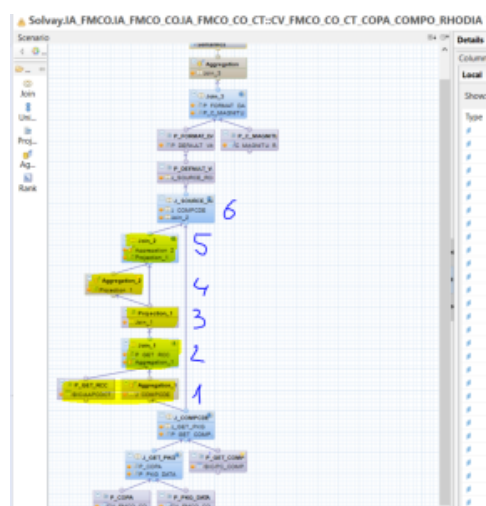
File has been created and downloaded with program **ZBW_COSTA_RCC** (template <https://drive.google.com/file/d/1o5MW7CEJXh1W-xmpaodjGTM9nj9ZSF/view>) and AL11 file data it's loaded in aDSO **APCOCT15** with process chain **PC_CT_RCC_01**.

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:

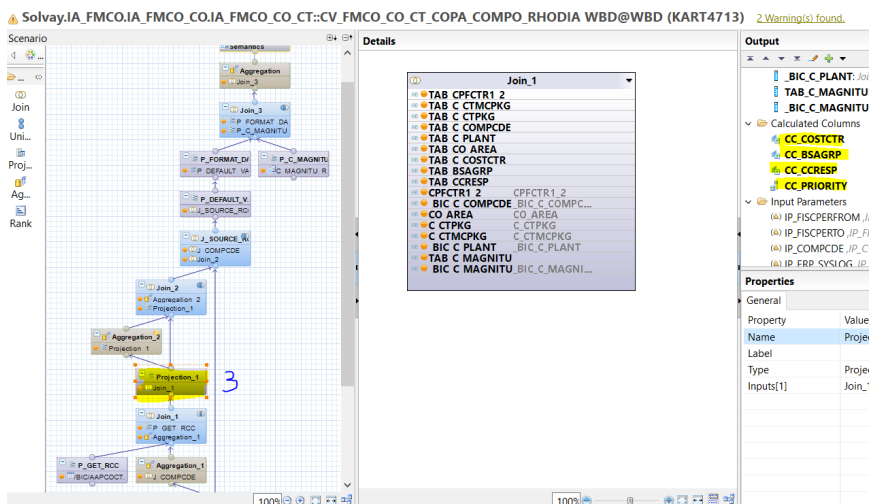
Step 2:

- 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	F
1	GBU/Cost Package/Controlling Aera/Company	F
2	GBU/Cost Macro Package/Controlling Aera/Plant	F
3	GBU/Controlling Aera/Plant	F
4	GBU/Macro Cost Package/Controlling Aera/Company	F
5	GBU/Controlling Aera/Company	F
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_C_MAGNITU"="" and "TAB_CPMPCDE"="CPCTR1_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_CPMPCDE"="CPCTR1_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_CPMPCDE"="CPCTR1_2" and "TAB_C_CTMCPKG"="C_CTMCPKG" and "CO_AREA"="TAB_CO_AREA" and "TAB_C_PLANT"="BIC_C_PLANT",3,
if("TAB_C_PLANT"="" and "TAB_C_MAGNITU"="" and "TAB_CPMPCDE"="CPCTR1_2" and "TAB_C_CTPKG"="C_CTPKG" and "TAB_CO_AREA"="CO_AREA" and "TAB_C_PLANT"="BIC_C_PLANT",4,
if("TAB_C_PLANT"="" and "TAB_C_MAGNITU"="" and "TAB_CPMPCDE"="CPCTR1_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_CPMPCDE"="CPCTR1_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:

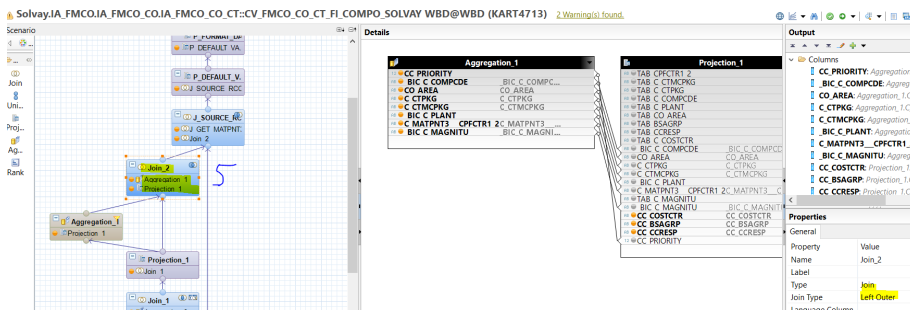
_BIC_C_COMP...	CO_AREA	C_CTPKG	C_CTMCPKG	_BIC_C_PLANT	C_MATPNT3__CPFCTR1_2	_BIC_C_MAGNITU	CC_COSTCTR	CC_BSGRPP	CC_CCRESPP	CC_PRIORITY	CC_COSTCTR
5782	CHEF			MJS	SP	0010	4G1040000		50026590	2	# NC_RCC
5835	CHEF			RCF	SP	0046	B71260003X		FORTUNATO	5	
5782	CHEF	P10027	P00005	MJS	SP	0010	4G1040000		50026590	6	
5835	CHEF	P10031	P00005	SMF	SP	0049	B71260003X		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	B711604793		50032720	1	
5835	CHEF	P10050	P00008	6006	SP	0049	B711604793		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:

_BIC_C_COMPDE	CO_AREA	C_CTPKG	C_CTMCPKG	_BIC_C_PLANT	C_MATPNT3__CPFCTR1_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 fileds 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									
CC_EXCLUSION_FLG	CC_EXCLUSION_REASON	..BIC_C_CMPCDE	..C_CTPKG	..C_CTMCPKG	CC_PRIORITY	CC_COSTCTR	CC_C_RPLANT	..C_CMPCDE_C	
		S835	P19999	P09999	4	1N18100009	6006		
		S835	P10055	P00008	4	1N18100009	6006		
		S835	P10055	P00008	4	1N18100009	6006		
		S835	P10055	P00008	4	1N18100009	6006		
		S835	P10055	P00008	4	1N18100009	6006		
		S835	P19999	P09999	4	1N18100009	6006		
		S835	P19999	P09999	4	1N18100009	6006		
		S835	P19999	P09999	4	1N18100009	6006		
		S835	P10051	P00008	3	1N18100004	SMF		
		S835	P10051	P00008	3	1N18100004	SMF		
		S835	P10054	P00008	3	1N18100004	SMF		
		S835	P10054	P00008	3	1N18100004	SMF		
		S835	P10053	P00008	3	1N18100004	SMF		
		S835	P10053	P00008	3	1N18100004	SMF		
		S835	P10053	P00008	3	1N18100004	SMF		
		S835	P10053	P00008	2	4G10400000	MIS		
		S782			2	4G10400000	MIS		

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:

Costa - GBU Billing	APCOCT19
TRCS IFS_APCOCT19_INBOUND -> ADSO APCOCT19	00QT7CU08A7552FN8V6DCG84SJLRWCVT
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	0C4W2IDCS3VY2HLYYYK3FU4F87M07Y0H
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 datasource 1 for PF1 and 1 for WP1.

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

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

There is 1 infosource (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 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

Rule Group: Standard Group

Pos	Key	InfoObject	Icon	Descr.	Data t	Lng
1		C_WBS_EL2		WBS Element (with System ID)	CHAR	000
2		OLOGSYS		Source System	CHAR	000
3		O RECORDMODE		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	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
	OLOGSYS	LOGSYS	Source System					CHAR	10	ALPHA		2	1
	O RECORDMODE	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 Bi			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

Rule Group: Standard Group

Pos	Key	InfoObject	Icon	Descr.	Data t	Length
1		C_WBS_EL2		WBS Element (with System ID)	CHAR	000024
2		OLOGSYS		Source System	CHAR	000010
3		O RECORDMODE		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.

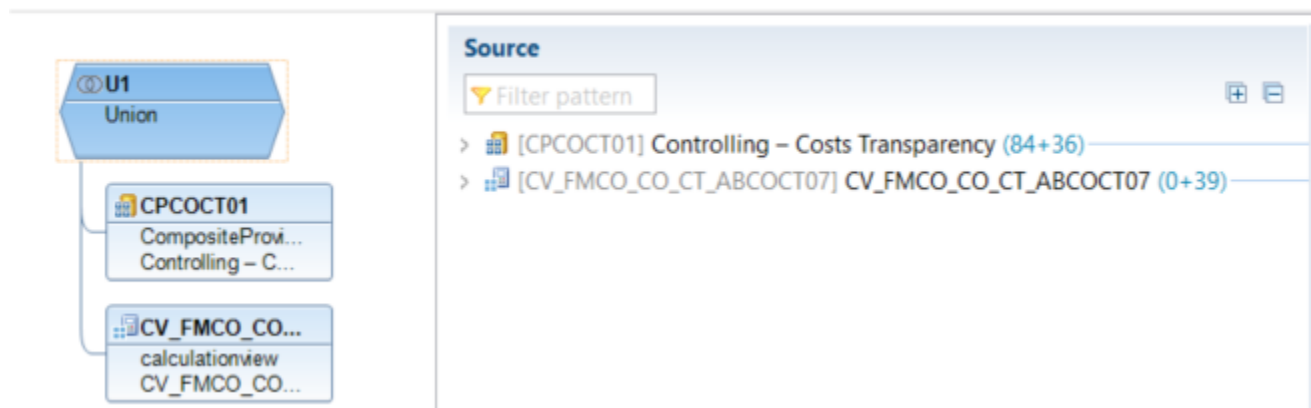
Loading has been made in daily PC_CT_MD_01 proces chain.

Table Content /BIC/AAPCOCT192: 19 of 19																
																
Item	/BIC/C_WBS_EL2	LOGSYS	RECORDMODE	CO_AREA	/BIC/C_WBSBILL	/BIC/C_COCBILL	/BIC/C_ORDBILL	/BIC/C_RCCBILL	/BIC/C_GBUBILL	/BIC/C_COABILL	CH_ON	/BIC/C_SYPARCO	CREATEDON	PLANT	/BIC/C_ACCOTYP	/BIC/C_ACCCO
	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
	I00192CB0111	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
	I07723CB0V7MX01	WD1_110	N								12.04.2021	DF1_020	12.04.2021	8356		
	I08090CB0ZFR3 SERVICES	WD1_110	N								03.06.2020	DF1_020	21.05.2020	7851	KS	
	I08090CB0ZFR3D_SERV01	WD1_110	N			7682-1050					31.07.2020	DF1_020	16.06.2020	7851	KS	7682-1050
	I08090CB0ZFR3D_SERV02	WD1_110	N			4514110000					17.06.2020	WD1_110	16.06.2020	7851	KS	4514110000
	I08090CB0ZFR3E_SERV01	WD1_110	N			7682-1050					31.07.2020	DF1_020	17.06.2020	7851	KS	7682-1050
	I08090CB0ZFR3E_SERV02	WD1_110	N			7682-1050					31.07.2020	DF1_020	17.06.2020	7851	KS	7682-1050
	I08090CB0ZFR3E_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						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						DF1_020	14.10.2020	7584	KS	7682-1050
	I38652GYUT04274-LG03	WD1_110	N			7682-1050						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

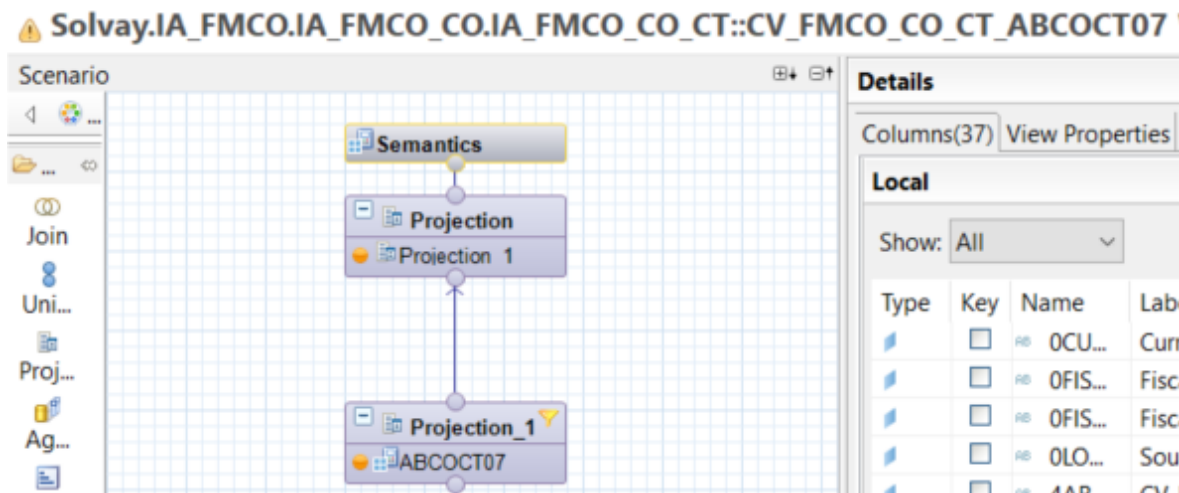
Composite Provider CPCOCT08 allows users to compare current data with weekly/on demand snapshot saved in ADSO ABCOCT07.

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	0EBV6FAMLWPHYWE732...	=
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 "Pyymmdd". Snapshots past a certain time (in months, stored in C_GLBFI LT 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	05NL40D8HRRMLMZS0IA...
TRSF: APCOCT21 -> ADSO ABCOCT08	0KJZ9V4GBXJ7XOB2X1...
Costa - Anaplan Origin Budget & BE	APCOCT21
TRSF: APCOCT21 -> APCOCT21	0DYI424LXFCI5VGZSW...
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	007IRLFZZSRVJ3VI3YU...
TRSF: DTS_ANAPLAN_BUD_BOT_L4 -> ADSO APCOCT21	05D97HSXSZIRZXIX8O...
TRSF: DTS_ANAPLAN_BUD_BOT_L5 -> ADSO APCOCT21	0K62HPIRHTNZ6KW4S...
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	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	0KCXX3S700MZ8W3S2...
↳ 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.

```

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

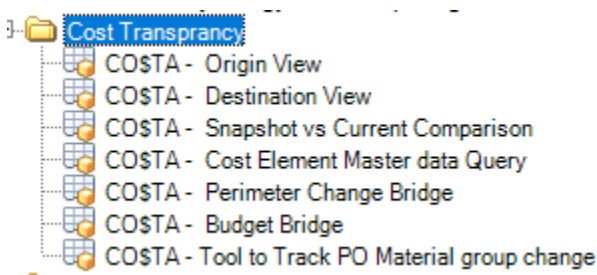
Master Data									
Time Independent									
Add Line Withdraw Changes Change all records Details Where-Used Document Browser									
Global Filter Stream (App...	Global Filter Rule	Glob...	Global Filter Description	Global Filter Sign	Global Filter Option	Global Filter Low Value	Global Filt...	Global...	
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><tr><td colspan="12">Table: /BIC/PC_GLBFLT</td></tr><tr><td>EB</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>/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>COSTA_DEST</td><td>RANGE_DAY</td><td></td><td>001</td><td>A</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></table>	Table: /BIC/PC_GLBFLT												EB	/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
Table: /BIC/PC_GLBFLT																																						
EB	/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: https://drive.google.com/file/d/1RD0T0IHovfg_hi7hAR8VQ4GM8YMvgv9XSf3eT3D2-kU/view																																				
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, maximum 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).

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).