BW RTR - Anaplan data export from BW /!\ Obsolete /!\

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The new wiki link for this data flow is here:

BW RTR - Anaplan data export from BW

Please update the doc there and no longer here.

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General presentation

Objective of the application

The goal of the application is to extract data from BW WBP to Anaplan.

This solution is based on flat files automated generation.

Anaplan documentation is available on the following wiki page : https://wiki.solvay.com/x/cwBvKg

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Usage information

N/A

History

N/A

Actual Data Origin extraction

Functional and Technical rules on Workbench + Reporting

Original User requirements are available in the following document:

Flat file generated using **'.txt'** extension and **comma separator ','**.

Generated file is stored in AL11 folder **/exploit/BW/Anaplan_outbound**

1) Actual Origin

Name of the flat file: **Actual_data_from_Origin.txt**

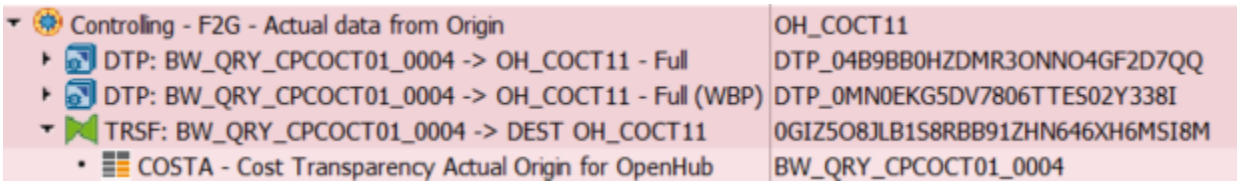
Heading columns:

unique ID	Responsible Cost Center	Cost Package	Month	Year	Local Currency	Reporting Currency (EUR)

Flat file content example:

```
unique ID,Responsible Cost Center,Cost Package,Month,Year,Local Currency,Reporting Currency (EUR)
Z006/6068-4451P10015022021,Z006/6068-4451,P10015,02,2021,20659.90,23676.2454
Z006/6068-4451P10015032021,Z006/6068-4451,P10015,03,2021,7543.61,8809.3523219
Z006/6068-4451P10015042021,Z006/6068-4451,P10015,04,2021,9493.49,10966.9745829
Z006/6068-4451P10015052021,Z006/6068-4451,P10015,05,2021,9412.27,10912.8682061
Z006/6068-4451P10015062021,Z006/6068-4451,P10015,06,2021,9413.06,10967.2503366
Z006/6068-4451P10015072021,Z006/6068-4451,P10015,07,2021,9381.20,10964.465124
```

Dataflow:



OpenHub name:	OH_COCT11	Controlling - F2G - Actual data from Origin
Source:	BW_QRY_CPCOCT01_0004	COSTA - Cost Transparency Actual Origin for OpenHub

Specific rules:

- Ignore entries where amounts are 0 or null, or where Controlling Area and Responsible Cost Center are both empty or null or GBU and Responsible CC are both empty or null.
- Set P11115 as default Cost Package if null
- Set Responsible Cost Center = GBU if null
- Amount TGT_CURR is converted to Euro from Legal View amount, using Exchange Rate CAR5 on first day of the month of the entry.

Scheduling :

Extraction is scheduled in process chain **PC_CO_CT_04** *COSTA: TD - M - Anaplan Origin Costs Extraction*. It runs monthly at 01:00 on the 8th workday of the BE Calendar.

Dependencies with other applications

Dependencies with COSTA application, which is the source for this dataflow.

Actual Data Bridge Destination extraction

Functional and Technical rules on Workbench + Reporting

Original User requirements are available in the following document: F2G requirements - Destination Bridge view extractions

Flat file generated using **'.txt'** extension and **comma separator ','**.

Generated file is stored in AL11 folder **/exploit/BW/Anaplan_outbound**

1) Actual Destination Bridge (Local Curr)

Name of the flat file: **Actual_data_bridge_to_destination_local.txt**

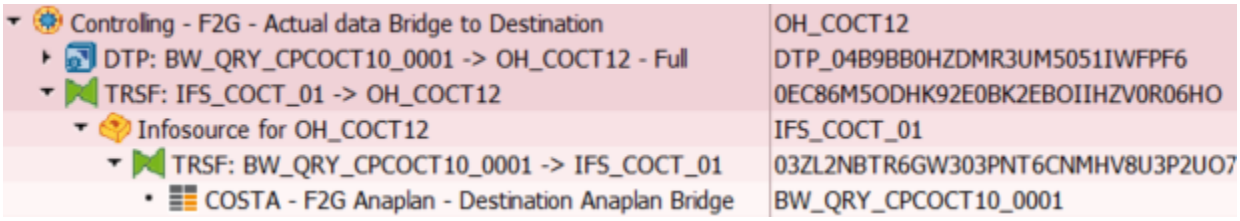
Heading columns:

Actuals Unique Id	Responsible Cost Center Code	Month	Year	IFRS16	Good Consumed from Inventory	Charge-In	Charge-Out	Capitalisation

Flat file content example:

```
Actuals Unique Id,Responsible Cost Center Code,Month,Year,IFRS16,Good Consumed from Inventory,Charge-In,Charge-Out,Capitalisation
CHEF/1D1260002I022022,CHEF/1D1260002I,02,2022,0.00,0.00,0.00,-45199.15,0.00
CHEF/1D1260002I032022,CHEF/1D1260002I,03,2022,0.00,0.00,-0.11,-6253.99,12989.78
CHEF/1D1260002I112021,CHEF/1D1260002I,11,2021,0.00,-4445.24,-0.18,-13476.07,0.00
CHEF/1D1260002I122021,CHEF/1D1260002I,12,2021,0.00,5026.08,-1.62,-13228.69,26040.00
```

Dataflow:



OpenHub name:	OH_COCT12	Controlling - F2G - Actual data Bridge to Destination
Source:	BW_QRY_CPCOCT10_0001	COSTA - F2G Anaplan - Destination Anaplan Bridge

Specific rules:

- Contains sum of all amounts for key Actuals Unique Id as decimals, ignoring currencies.
- Ignore all entries where all amounts are 0 or null and where CO_AREA or C_RESP_CC are empty or null.
- KPi decimal separator is 'point' (.)
- KPi sign is displayed before value, i.e.: *-78340.87*
- All necessary filters are set in source query, copy of query QV_BW_QRY_CPCOCT10_0001
    - Fiscal period Y-1 to M-1, except in January (Y-2 to M-1) (Variables V_0FISCPER_0021/22)
    - Fixed Cost Group 2 not 'ZCRS-6'0 or 'ZCRS-X60'

2) Actual Destination Bridge (EUR)

Name of the flat file: **Actual_data_bridge_to_destination_euro.txt**

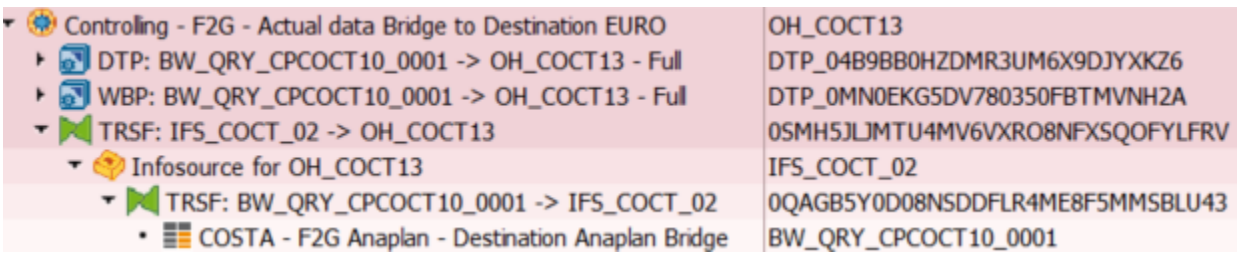
Heading columns:

Actuals Unique Id	Responsible Cost Center Code	Month	Year	IFRS16	Good Consumed from Inventory	Charge-In	Charge-Out	Capitalisation

Flat file content example:

```
Actuals Unique Id,Responsible Cost Center Code,Month,Year,IFRS16,Good Consumed from Inventory,Charge-In,Charge-Out,Capitalisation
CHEF/1D1260002I022022,CHEF/1D1260002I,02,2022,0.00,0.00,0.00,-45199.15,0.00
CHEF/1D1260002I032022,CHEF/1D1260002I,03,2022,0.00,0.00,-0.11,-6253.99,12989.78
CHEF/1D1260002I112021,CHEF/1D1260002I,11,2021,0.00,-4445.24,-0.18,-13476.07,0.00
CHEF/1D1260002I122021,CHEF/1D1260002I,12,2021,0.00,5026.08,-1.62,-13228.69,26040.00
```

Dataflow:



OpenHub name:	OH_COCT13	Controlling - F2G - Actual data Bridge to Destination EURO
Source:	BW_QRY_CPCOCT10_0001	COSTA - F2G Anaplan - Destination Anaplan Bridge

Specific rules:

- Amounts are converted to Euro in the first transformation, using corresponding amount in Legal View and Local Currency from source query and Exchange Rate CAR5 on first day of the month of the entry.
- For everything else, same as Actual Destination Bridge (EUR)

Scheduling :

Extraction is scheduled in process chain **PC_CO_CT_03** *COSTA - F2G Anaplan - Extraction*, along with Master Data extractions.

Actual data extraction is conditioned to working days set up in Global filter:

- Stream = **COSTA2FILE**
- Rule = CALENDAR (DEFAULT = BE)
- Rule = RANGE_DAY (DEFAULT = EQ 4)

Dependencies with other applications

Dependencies with COSTA application, which is the source for this dataflow.

Master Data extractions

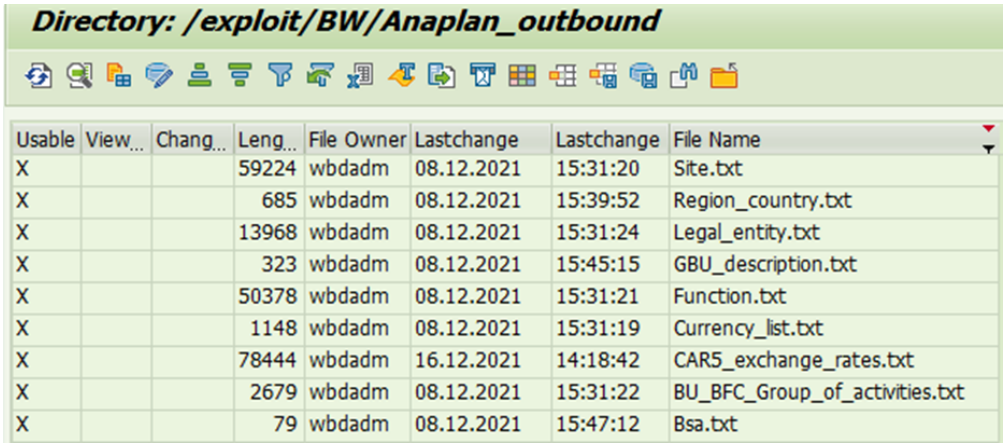
Functional and Technical rules on Workbench + Reporting

Original User requirements are available in the following document: BW requirements - Basic master data and Exchange rates for Anaplan F2G models

Flat files are generated using **'.txt'** extension and **comma separator ','**.

All extracted description is done using english **language EN**.

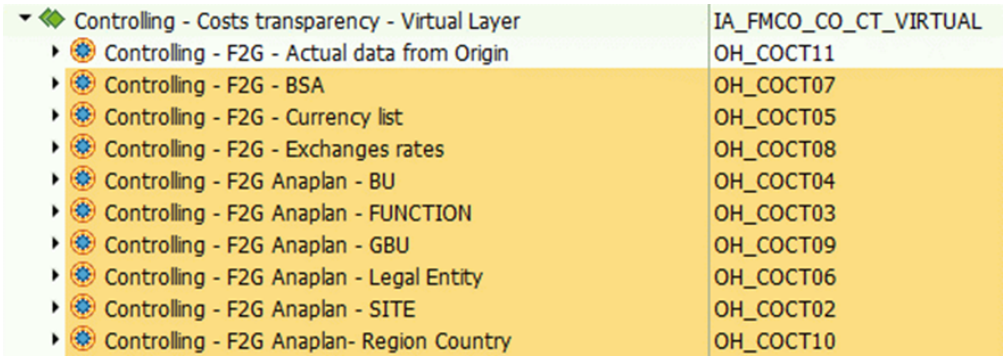
All generated files are stored in AL11 folder **/exploit/BW/Anaplan_outbound**:



Directory: /exploit/BW/Anaplan_outbound

Usable	View...	Chang...	Leng...	File Owner	Lastchange	Lastchange	File Name
X			59224	wbdadm	08.12.2021	15:31:20	Site.txt
X			685	wbdadm	08.12.2021	15:39:52	Region_country.txt
X			13968	wbdadm	08.12.2021	15:31:24	Legal_entity.txt
X			323	wbdadm	08.12.2021	15:45:15	GBU_description.txt
X			50378	wbdadm	08.12.2021	15:31:21	Function.txt
X			1148	wbdadm	08.12.2021	15:31:19	Currency_list.txt
X			78444	wbdadm	16.12.2021	14:18:42	CAR5_exchange_rates.txt
X			2679	wbdadm	08.12.2021	15:31:22	BU_BFC_Group_of_activities.txt
X			79	wbdadm	08.12.2021	15:47:12	Bsa.txt

These are generated by OpenHubs located in InfoArea IA_**FMCO_CO_CT**_VIRTUAL:



Controlling - Costs transparency - Virtual Layer	IA_FMCO_CO_CT_VIRTUAL
Controlling - F2G - Actual data from Origin	OH_COCT11
Controlling - F2G - BSA	OH_COCT07
Controlling - F2G - Currency list	OH_COCT05
Controlling - F2G - Exchanges rates	OH_COCT08
Controlling - F2G Anaplan - BU	OH_COCT04
Controlling - F2G Anaplan - FUNCTION	OH_COCT03
Controlling - F2G Anaplan - GBU	OH_COCT09
Controlling - F2G Anaplan - Legal Entity	OH_COCT06
Controlling - F2G Anaplan - SITE	OH_COCT02
Controlling - F2G Anaplan- Region Country	OH_COCT10

Generated file's names and location are set up using **logical file** (Transaction FILE):

Logical file	Name
Z_BW_ANAPLAN_OUT_BSA	Anaplan BSA export (Bsa.txt)
Z_BW_ANAPLAN_OUT_BU	Anaplan BU ort (BU_BFC_Group_of_activities.txt)
Z_BW_ANAPLAN_OUT_CURRENCY_LIST	ANApLan Currency list export (Currency_list.txt)
Z_BW_ANAPLAN_OUT_EXCHANGE_RATES	Anaplan Exchange rates export (CAR5_exchange_rates.txt)
Z_BW_ANAPLAN_OUT_FUNCTION	Anaplan Function export (Function.txt)
Z_BW_ANAPLAN_OUT_GBU	Anaplan GBU export (GBU_description.txt)
Z_BW_ANAPLAN_OUT_LEGAL_ENTITY	Anaplan Legal entity export (Legal_entity.txt)
Z_BW_ANAPLAN_OUT_REGION_COUNTRY	Anaplan Region Country export (Region_country.txt)
Z_BW_ANAPLAN_OUT_SITE	Anaplan Site (Site.txt

In order to generate **header lines** in flat files, an ABAP specific solution has been implemented in all extraction data flow.

Concerning this solution, the dedicated documentation is available : OpenHub for APD CSV File interface.docx

1) Region (Com); Country (Com)

Name of the flat file: **Region_country.txt**

Heading columns:

Country code	Country description	Zone code	Zone description

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         Region_country.txt
-------------------------------------------------------------------------------

Country code,Country description,Zone code,Zone description
CN,"CHINA",AP,""
KR,"SOUTH KOREA",AP,""
IN,"INDIA",AP,""
JP,"JAPAN",AP,""
```

Dataflow:

OpenHub name:	OH_COCT10	Controlling - F2G Anaplan- Region Country
Source:	Query BW_QRY_CPCOCT01_0010	COSTA - F2G Anaplan - Region Country

Specific rules:

- Source query has the same filters as the query BW_QRY_CPCOCT01_0002 COSTA - *Cost Transparency - Origin view*
- Period: from January year N-1 (last year) to December year N (current year)
- Exclusion of Country key = Unassigned # and Geographie/Zone = Unassigned #

2) Site

Name of the flat file: **Site.txt**

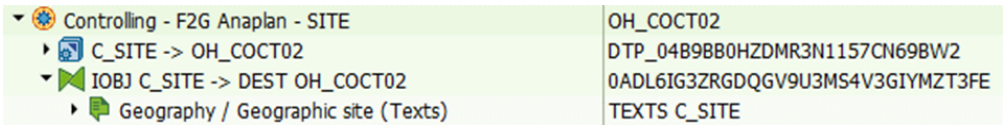
Heading columns:

Geography / Geographic site CODE from C_SITE	Geography / Geographic site Description

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         Site.txt
-------------------------------------------------------------------------------
Geography / Geographic site CODE from C_SITE,Geography / Geographic site Description
CN006,"Kunming"
CN007,"QINGDAO"
CN008,"SHANGHAI"
CN009,"Suzhou"
CN010,"WUXI"
CN011,"Yingkou"
```

Dataflow:



OpenHub name:	OH_COCT02	Controlling - F2G Anaplan - SITE
Source:	TEXTS C_SITE	Geography / Geographic site (Texts)

Specific rules:

- Exclusion of the record if Site Description contains the character '#'

3) Function

Name of the flat file: **Function.txt**

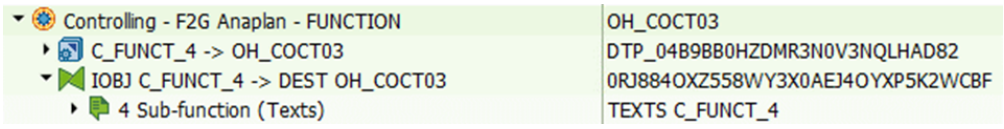
Heading columns:

4 Sub-function code	4 Sub-function description

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         Function.txt
-------------------------------------------------------------------------------
4 Sub-function code,4 Sub-function description
ZRCS-9999          026,"ZRCS-9999"
ZRCS-9999          027,"ZRCS-9999"
ZRCS-9999          002,"ZRCS-9999"
0186-CPO,"0186-CPO"
0186-FAC,"0186-FAC"
0186-MGT,"0186-MGT"
0186-NA,"0186-NA"
```

Dataflow:



OpenHub name:	OH_COCT03	Controlling - F2G Anaplan - FUNCTION
Source:	TEXTS C_FUNCT_4	4 Sub-function (Texts)

4) BU

Name of the flat file: **BU_BFC_Group_of_activities.txt**

Heading columns:

/BIC/C_FACUBU code	/BIC/C_FACUBU description

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         BU_BFC_Group_of_activities.txt
-------------------------------------------------------------------------------

/BIC/C_FACUBU code,/BIC/C_FACUBU description
APCHE,"CONSUMER HEALTH (BEFORE 07)"
APDIP,"DIPHENOLS (BEFORE 2008)"
APIEL,"ELODIE DISCOP (AP) - BEFORE 2009)"
APISO,"ISOCYANATES (BEFORE 2009)"
APNAL,"NON REPARTI ORGANICS ( BEFORE 2009)"
APNPC,"NA EX COATIS (BEFORE 07)"
APPHE,"PRESCRIPTION HEALTH 06 (BEFORE 07)"
APPPA,"ORGANICS (BEFORE 07)"
```

Dataflow:

OpenHub name:	OH_COCT04	Controlling - F2G Anaplan - BU
Source:	TEXTS C_FACUBU	Current Business Unit (Texts)

5) Currency List

Name of the flat file: **Currency_list.txt**

Heading columns:

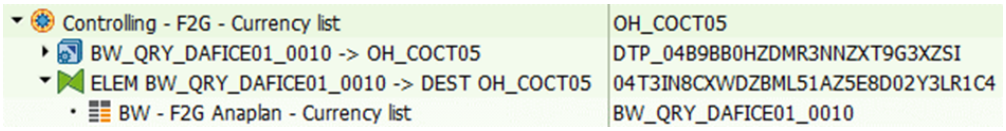
Local Currency	Description local currency

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         Currency_list.txt
-------------------------------------------------------------------------------

Local Currency,Description local currency
ARS,"Argentine Peso"
AUD,"Australian Dollar"
BGN,"Bulgarian Lev (new)"
BRL,"Brazilian Real (new)"
CAD,"Canadian Dollar"
```

Dataflow:



OpenHub name:	OH_COCT05	Controlling - F2G - Currency list
Source:	Query BW_QRY_DAFICE01_0010	BW - F2G Anaplan - Currency list

Specific rules:

- Exchange rate type = CAR5
- Period: from January year N-1 (last year) to December year N (current year)

6) Legal Entity

Name of the flat file: **Legal_entity.txt**

Heading columns:

Company Code - PRS Company code	Description of company code

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         Legal_entity.txt
-----------------------------------------------------------------------

Company Code-PRS Company code,Description of company code
0001,"SOLVAY  (SCH)"
0003,"SOLVAY PARTICIP. BE"
0007,"HESTIA"
0016,"SOVILLER"
0020,"SOLVAY FINANCE (FR)"
```

Dataflow:

OpenHub name:	OH_COCT06	Controlling - F2G Anaplan - Legal Entity
Source:	TEXTS C_COMPPRS	PRS Company code (Texts)

Specific rules:

- Exclusion of the record if Company code description contains the string '**D***'

7) BSA

Name of the flat file: **Bsa.txt**

Heading columns:

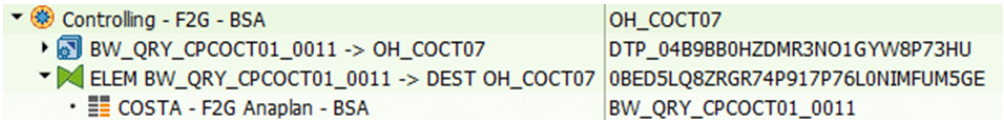
BSA code	BSA description

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         Bsa.txt
-----------------------------------------------------------------------

BSA code,BSA description
BSA_FI,"BSA FINANCE"
BSA_HR,"BSA HUMAN RECOURSES"
```

Dataflow:



OpenHub name:	OH_COCT07	Controlling - F2G - BSA
Source:	BW_QRY_CPCOCT01_0011	COSTA - F2G Anaplan - BSA

Specific rules:

- Source query has the same filters as the query BW_QRY_CPCOCT01_0002 COSTA - *Cost Transparency - Origin view*
- Period: from January year N-1 (last year) to December year N (current year)
- Exchange rate type = CAR5
- Zero suppression activated on Actual origin Key Figure

8) Exchange rates

Name of the flat file: **CAR5_exchange_rates.txt**

Heading columns:

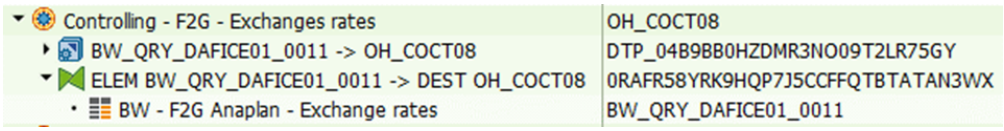
Unique ID	Currency Type	Currency	Year	Month	Conversion Rate

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         CAR5_exchange_rates.txt
-------------------------------------------------------------------------------

Unique ID,Currency type,Currency,Year,Month,Conversion Rate
CAR5AED202002,CAR5,AED,2020,02,-4.0088700000000
CAR5AED202003,CAR5,AED,2020,03,-4.0634400000000
CAR5AED202004,CAR5,AED,2020,04,-3.9926400000000
CAR5AED202005,CAR5,AED,2020,05,-4.0054800000000
CAR5AED202006,CAR5,AED,2020,06,-4.1384400000000
```

Dataflow:



OpenHub name:	OH_COCT08	Controlling - F2G - Exchanges rates
Source:	BW_QRY_DAFICE01_0011	BW - F2G Anaplan - Exchange rates

Specific rules:

- Period: from January year N-1 (last year) to December year N+1 (next year)
- Exchange rate type = **CAR5**
- ***Conversion rate*** = ***-1*** *X* ***Currency Exchange rate*** *X* ***Ratio for the From Currency*** / ***Ratio for the To Currency***
- Decimal separator for conversion rate is point **'.'**
- An **Unique ID** is generated for each record by concatenation of : *Convertion Type* + *To Currency* + *Year* + *Month* (i.e.: CAR5EUR202112)
- Conversion rate EUR to EUR (equals to 1) is added in routine for years N-1 to N+1

9) GBU code and description

Name of the flat file: **GBU_description.txt**

Heading columns:

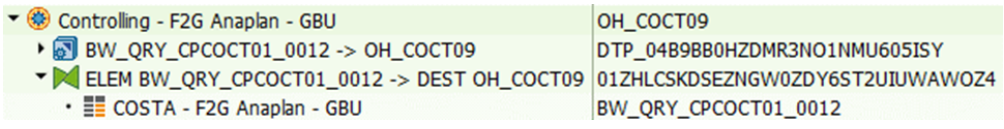
GBU code	GBU Description

Flat file content example:

```
Directory:    /exploit/BW/Anaplan_outbound
Name:         GBU_description.txt
-------------------------------------------------------------------------------

GBU code,GBU description
CS,"NOVECARE"
EP,"ENGINEERING PLASTICS"
GY,"ENERGY SERVICES"
MZ,"NON ALLOCATED RHODIA"
PA,"AROMA PERFORMANCE"
```

Dataflow:



OpenHub name:	OH_COCT09	Controlling - F2G Anaplan - GBU

Source:	BW_QRY_CPCOCT01_0012	COSTA - F2G Anaplan - GBU

Specific rules:

- Source query has the same filters as the query BW_QRY_CPCOCT01_0002 COSTA - *Cost Transparency - Origin view*
- Period: from January year N-1 (last year) to December year N+1 (next year)
- Filter on: Flag - Anaplan Perimeter = #

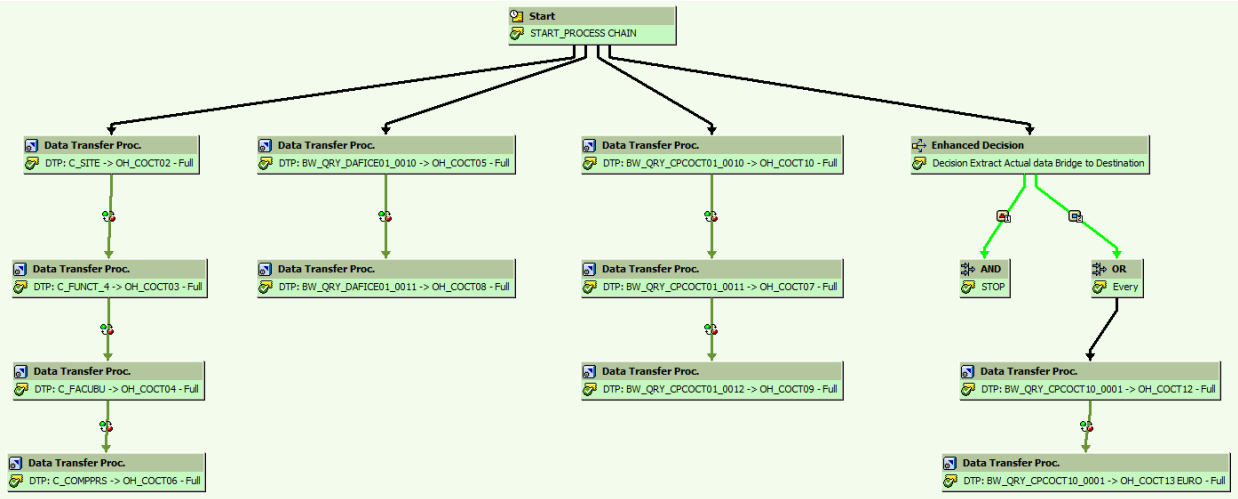
Dependencies with other applications

Dependencies with COSTA application, as it is source of several extraction data

Data loadings

Info providers and objects loaded

Process chain used to extract Master Data to Anaplan : **PC_CO_CT_03** COSTA - F2G Anaplan - Extraction



Loading frequency

Process chain **PC_CO_CT_03** is scheduled **every working day** (Factory calendar : BE) **at 05:00am CET**

Actual Bridge Destination data extraction is conditioned to working days set up in Global filter:

- Stream = **COSTA2FILE**
- Rule = CALENDAR (DEFAULT = BE)
- Rule = RANGE_DAY (DEFAULT = EQ 4)

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

Main functionalities

Broadcast

Maintenance

Known bugs

Recurring procedure

Planned Evolution