

# BW RTR - CBS (WBP) /\ Obsolete /\

- General presentation
  - Objective of the application
  - Usage information
  - History
- Roles & Access
  - Roles and access
  - Authorization objects
- Dataflow presentation
  - Overview
- Functional and Technical rules on Workbench + Reporting
  - Rules & Explanations
    - Master data management
    - Functional and Technical rules
      - Cost center hierarchies
      - Cost element hierarchies
      - Family of the WBS element
      - Usage of Responsible cost centers and Cost centers
      - Position of the person responsible and user responsible of the cost centers
    - Technical rules
    - BW and ERP systems
  - Dependencies with other applications
- Data loadings
  - Info providers and objects loaded
  - Loading frequency
  - Average performance
  - Record Keeping
- Reporting
  - Queries End User Documentation
  - Main queries
  - Main fonctionnalités
  - Broadcast
- Maintenance
  - Known bugs
  - Recurring procedure
  - Planned Evolution



The new wiki link for this data flow is here:

[Technical Documentation - Corporate Business Services - Function costs report](#)

Please update the doc there and no longer here.



## General presentation

### Objective of the application

CBS stands for 'Corporate Business Services'

CBS is a dedicated Reporting tool built on SAP BW module. It allow to analyse **Functions fixed costs** on cost centers and on project.

### Usage information

Around 200 users have access to CBS applications. Those users are worldwide and most of them are function controllers.

### History

Project done in 2012. It was the first project in BW mixing data from WP1 and PF1/PI1 systems.

## Roles & Access

### Roles and access

CBS is part of the **Controlling application** (Info Area AREA\_F\_CO in BW)  
The first module of CBS for Functions costs is in the sub area AREA\_F\_FUNCT0 CBS - Fixed costs Analysis. The second module for Project costs in in the sub area AREA\_F\_CO\_CBS\_PS CBS - WBS Cost Analysis

| Role Code      | Role Description                                      | Explanation                          |
|----------------|-------------------------------------------------------|--------------------------------------|
| ZR_RCS_CA_M23  | CBS - Functions costs                                 | Role menu                            |
| ZBI_RCS_CO_A11 | CBS Function Costs Reporting Analysis - End User role | End user role for Function reporting |
| ZBI_RCS_CO_A21 | CBS Project costs Reporting Analysis - End User role  | End user role for Project reporting  |

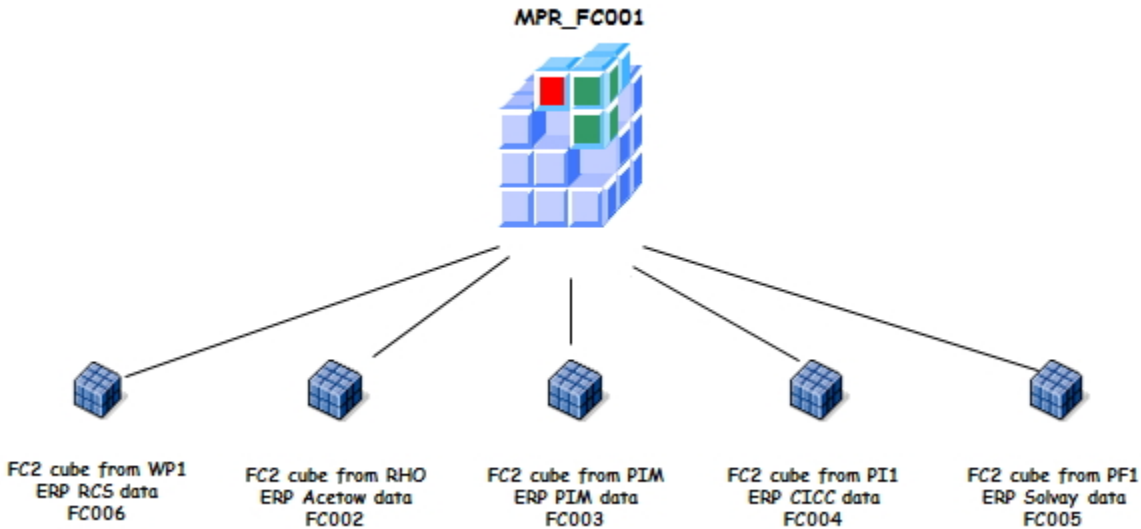
Authorization objects

Link to the BW Catalog of role  
[https://drive.google.com/open?id=10GEfKYqrT1eeTO\\_uHYAheL1GX7L5y\\_pvH0KQU64qh5I](https://drive.google.com/open?id=10GEfKYqrT1eeTO_uHYAheL1GX7L5y_pvH0KQU64qh5I)

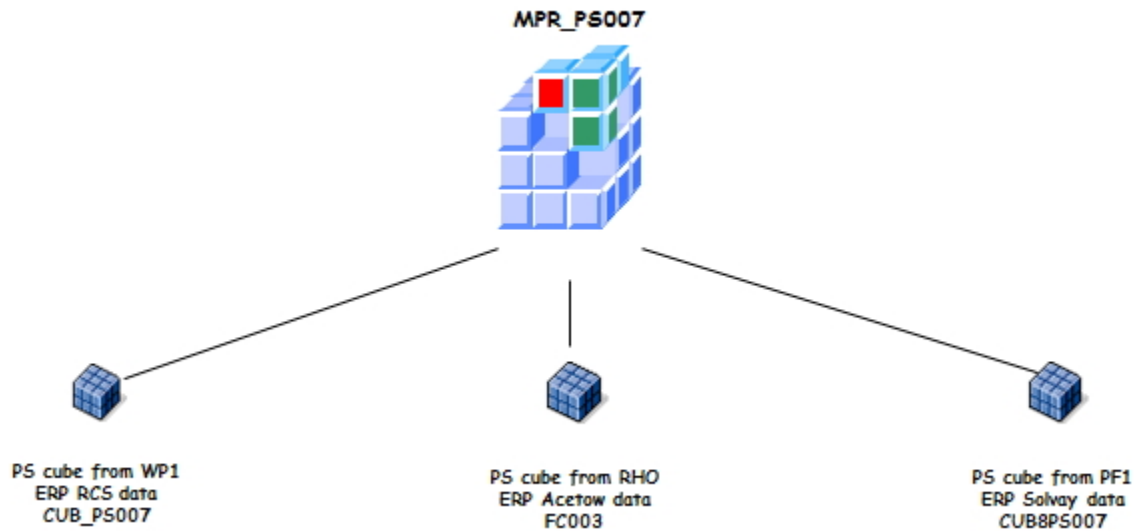
Dataflow presentation

Overview

Overview for the Function costs module



Overview for the Project costs module



Reporting documentation drive folder:

[https://drive.google.com/drive/folders/1EVXcn5jngf04lqPXGC2jx\\_O9ETV0ocss](https://drive.google.com/drive/folders/1EVXcn5jngf04lqPXGC2jx_O9ETV0ocss)

## Functional and Technical rules on Workbench + Reporting

### Rules & Explanations

#### Master data management

In the beginning of the project, we discovered that some objects may have same values but can be totally different in the ERP systems.

Ex: for company code:

6068 is referring to Rhodia UK in Rhodia's ERP but in Solvay's ERP it refers to Polyera Corp.

To avoid issues in the data, we decided to create new info objects with the system ID in the key 0LOGSYS.

Here is the list of all objects created

- Company code: **C\_COMPCODE** (previous object: 0COMP\_CODE)
- Plant: **C\_PLANT** (previous object: 0PLANT)
- Order number **C\_COORDER** (previous object: 0COORDER)
- Order type **C\_CORDTYP** (previous object: 0COORD\_TYPE)
- WBS element **C\_WBS\_EL2** (previous object: C\_WBS\_ELE)
- Project number **C\_PROJ\_2** (previous object: C\_PROJECT)
- Partner WBS element **C\_PARTWBS** (previous object: 0PART\_WBSEL)
- Partner order **C\_PARTORD** (previous object: 0PART\_COORD)
- Person responsible **C\_PSRESP** (previous object: 0PS\_RESPNO)
- Person responsible **C\_CCRESP2** (previous object: C\_CCRESP)
- Version **C\_VERSN2** (previous object: 0VERSION)
- Vendor number **C\_VENDOR2** (previous object: 0CREDITOR)
- Customer number **C\_CUSTOMR** (previous object: 0DEBITOR)
- Material number **C\_MATNR2** (previous object: C\_MATNR)
- Material plant **C\_MATPNT2** (previous object: C\_MATPLNT)
- WBS element scale **C\_IM\_SIZE** (previous object: 0IM\_SIZE)
- WBS element investment reason **C\_INV\_REA** (previous object: 0INV\_REASON)
- WBS element applicant **C\_PS\_APPL** (previous object: 0PS\_APPLNO)
- WBS element project type **C\_PS\_PRJT** (previous object: 0PS\_PRJTYPE)

We have created a new catalog IOCC\_MD\_ID in the info objects where we will store the info objects with the System ID in key

| Master Data                  | AREA_MD    | Change | InfoProvider |
|------------------------------|------------|--------|--------------|
| Master Data - Characteristic | IOCC_MD    | Change |              |
| Master Data - Key Figure     | IOCK_MD    | Change |              |
| Master Data with System ID   | IOCC_MD_ID | Change |              |
| Applicant                    | C_PS_APPL  | Change | InfoProvider |
| Company code                 | C_COMPDE   | Change | InfoProvider |
| Customer number              | C_CUSTOMR  | Change | InfoProvider |
| Material                     | C_MATNR2   | Change | InfoProvider |
| Material Plant               | C_MATPNT2  | Change | InfoProvider |
| Order number                 | C_COORDER  | Change | InfoProvider |
| Order type                   | C_CORDTYP  | Change | InfoSources  |
| Partner Order                | C_PARTORD  | Change | InfoProvider |
| Partner WBS Element          | C_PARTWBS  | Change | InfoProvider |
| Person Responsible           | C_CCRESP2  | Change | InfoProvider |
| Person Responsible           | C_PSRESP   | Change | InfoProvider |
| Plant                        | C_PLANT    | Change | InfoProvider |
| Project Definition           | C_PROJ_2   | Change | InfoProvider |
| Project type                 | C_PS_PRJT  | Change | InfoProvider |
| Reason for investment        | C_INV_REA  | Change | InfoProvider |
| Scale (IM)                   | C_IM_SIZE  | Change | InfoProvider |
| Source System                | 0LOGSYS    | Change | InfoObjects  |
| Vendor number                | C_VENDOR2  | Change | InfoProvider |
| Version                      | C_VERSN2   | Change | InfoSources  |
| WBS Element (with System ID) | C_WBS_EL2  | Change | InfoProvider |

## Functional and Technical rules

### Cost center hierarchies

Click on the [Cost Center Hiearchies](#) page.

### Cost element hierarchies

Click on the [Cost Element Hiearchies](#) page.

### Family of the WBS element

Click on the [Family assignment](#) page.

### Usage of Responsible cost centers and Cost centers

During the month, costs of WBS elements and CO orders are managed at the WBS or Order level.

Example below (theorical) :

|                | 11.07.2016 | 12.07.2016 | 13.07.2016 |
|----------------|------------|------------|------------|
| WBS element KT | 100 €      | 100 €      | 100 €      |

Costs have been created on this WBS element. The WBS element is linked to STELLAR project and has IT-BW as resp cost center. Those data will be loaded in BW via 0CO\_OM\_WBS\_6 data source up to CUB\_FC006.

Data will be available in the queries using Responsible cost center (query during the month).

At the end of the month, an accountant will transfert all the costs of the WBS elements to the cost center STELLAR. This record will be loaded via 0CO\_OM\_CCA\_9 also up to CUB\_FC006.

At 31.07.2016, query end of the month will display the 300€ costs on cost center STELLAR and query during the month will display it on resp cc IT-BW

|                            |                   |
|----------------------------|-------------------|
| <b>WBP</b>                 | <b>31.07.2016</b> |
| <b>COST CENTER IT - BW</b> | <b>300 €</b>      |
| <b>COST CENTER STELLAR</b> | <b>300 €</b>      |

## Position of the person responsible and user responsible of the cost centers

The position of the person responsible (c\_posit) corresponds to a position in the SRM7 organisational structure. It is coming from the person responsible field (verak) of the cost center MD in WP1/PF1 which not always contains a position (some companies doesn't use SRM7 for purchasing), so we check the existence of the position in c\_posit MD before to update it in the BW cost center MD (C\_COSTCTR).

The user responsible field is not filled in WP1 Cost center MD and although it is filled in PF1, the field is not updated when they are changes in SRM7. So, the user responsible is determined in BW, and corresponds to the BIP login of the position of the person responsible (attribute c\_biposit of c\_posit).

The BIP login of the position in c\_posit MD is updated from SRM7, using the Function Module ZWPU\_GET\_POSITIONS\_CC in order to share the same rule with ECC reports (ZWFA119 for WP1 and ZZR\_WPUR043 for PF1). FM ZWPU\_GET\_POSITIONS\_CC checks the validity of the user in SRM7, in consequence, even when the organisational structure shows a user for a position, the user could be undetermined in the FM if not valid. If the FM finds multiple users for a position, which is not normal, the attribute BIP login of the position in BW is set to "ERROR\_MULTI".

## Technical rules

There are also details of routines (in start routine or in the rules) used.

Function cost reporting referential.xlsx

PS PEC reporting referential.xlsx

Since the service pack update cause the H/S flag of data source 0CO\_OM\_CCA\_9 change the concept of +/- sign (Note 65075), which cause the sign in WP1 was opposite. For PF1, we didn't apply the service pack yet (as of Nov 2021) because we afraid that it will impact to many program.

For WP1, we decided to modify only user exit Z\_FORM\_0CO\_OM\_CCA\_9 to overwrite the sign from table COEP by following criteria

```
SELECT SINGLE low
  INTO v_comp
  FROM tvarvc
 WHERE name = 'ZWBW_CO_CCA_9_COMP'
    AND low = l_s_ICCTRCSTA1-bukrs.

IF v_comp IS NOT INITIAL .
  SELECT SINGLE BEKNZ
    INTO l_s_ICCTRCSTA1-seknz
    FROM COEP
   WHERE kokrs = l_s_ICCTRCSTA1-kokrs
      AND belnr = l_s_ICCTRCSTA1-belnr
      AND buzei = l_s_ICCTRCSTA1-buzei
      AND objnr LIKE 'KS%'
      AND vrgng = 'KAMV'
      AND parob LIKE 'KS%' .
  ENDIF .
```

We can specific the company code by table TVARVC and maintain the list via tcode TVARVC in WP1.

## BW and ERP systems

- WBD (BW Development) is linked to WD1 (RCS development), DI1 (CICC development), DF1 (Solvay development), TS2 (Acetow Test)
- WBQ (BW Quality) is linked to WQ1 (RCS quality), QI1 (CICC quality), QF1 (Solvay quality) and TS2 (Acetow Test)
- WBP (BW Production) is linked to WP1 (RCS Production), PI1 (CICC Production), PF1 (Solvay Production), RHO (Acetow Production)
- PIM system is not used anymore

## Dependencies with other applications

CBS applications is dependant with

- **FC2** Fixed Costs (obsolete) now replaced by FC GBU Fixed costs
- **PS / CAPEX** Project costs (common DSO)
- **CO** Profitability (comme DSO ODS\_OPA06)

## Data loadings

## Info providers and objects loaded

In the Excel files attached **Function cost reporting referential.xls** and **PS PEC reporting referential.xls** you will find a list of all objects included in:

- Data Sources used for master datas, texts, DSO
- DSO
- Cube
- Multi providers

## Loading frequency

CBS is loaded **every working day** starting at **0:00 am (Paris time)** and finishing around \* :00 am (Paris time)\*

## Average performance

**RSP\_COOM** CO\_OM\_OPA / WBS - delta extraction for RCS data: 2h

**RPC\_FC2** Fixed Costs 2 chain: 2h

**RSV\_COOM\_CCA\_OTHER CO\_OM\_CCA** Delta Extraction for non RCS systems: 3h

## Record Keeping

We have data since beginning of 2012 and we never made clean-up.

## Reporting

### Queries End User Documentation

Link to user guide

[https://drive.google.com/file/d/1HFDG\\_iDp5w5gHlIfhSogZefP7KRXu4/view](https://drive.google.com/file/d/1HFDG_iDp5w5gHlIfhSogZefP7KRXu4/view)

### Main queries

BW\_QRY\_MPR\_FC001\_0001 CBS - Functions - end of month (Core query)

BW\_QRY\_MPR\_FC001\_0002 CBS - Functions by Companies - end of month (Core query)

BW\_QRY\_MPR\_FC001\_0003 CBS - Functions - during month (Core query)

BW\_QRY\_MPR\_FC001\_0004 CBS - Functionsby Companies - during month (Core query)

BW\_QRY\_MPR\_FC001\_0005 CBS - Synthesis of the Functions (Core query)

### Main fonctionnalités

Jump query available

### Broadcast

No broadcast

## Maintenance

### Known bugs

No known bug

Example of tickets

- 3729: 0PROFIT\_CTR not updated
- 22045: Ask new report

# Recurring procedure

No recurring procedure

## Planned Evolution

- Remove old data: Only keep the 5 last years in the cubes in order to make the cube lighter and gain space in BWA.
- Fixed Cost project: A project is in progress to have fixed costs reporting by plant and GBU. This project will be finished end of july.

This project is a mix between CBS and COPA in order to provide fixed cost reporting by plant and GBU. The objective is also to replace actual fixed cost application for Rhodia legacy FC2.

For this project, we have created specific info areas

|                                                      |                               |        |              |   |
|------------------------------------------------------|-------------------------------|--------|--------------|---|
| ▼ Fixed Costs                                        | IA_FMCO_CO_FC                 | Change |              |   |
| • Fixed Costs Acquisition Layer                      | IA_FMCO_CO_FC_ACQUISITION     | Change |              |   |
| • Fixed Costs Master Data Layer                      | IA_FMCO_CO_FC_MD              | Change |              |   |
| • Fixed Costs Propagation Layer                      | IA_FMCO_CO_FC_PROPAGATION     | Change |              |   |
| • Fixed Costs Business Transformation Layer          | IA_FMCO_CO_FC_BUSINESS_TRANSF | Change |              |   |
| • Fixed Costs Reporting Layer                        | IA_FMCO_CO_FC_REPORTING       | Change |              |   |
| ▼ Fixed Costs Virtual Layer                          | IA_FMCO_CO_FC_VIRTUAL         | Change |              |   |
| ▼ Fixed costs Analysis (Multi Systems)               | MPR_FC003                     | Change |              |   |
| > Fixed costs Analysis Acetow                        | CUB_FC002                     | Manage | InfoProvider | Σ |
| > Fixed costs Analysis CICC                          | CUB_FC004                     | Manage | InfoProvider | Σ |
| > Fixed costs Analysis PIM                           | CUB_FC003                     | Manage | InfoProvider | Σ |
| > Fixed costs Analysis Rhodia                        | CUB_FC006                     | Manage | InfoProvider | Σ |
| > Fixed costs Analysis Solvay                        | CUB_FC005                     | Manage | InfoProvider | Σ |
| > Profitability Analysis: COPA - IECRA Determination | CRCOPA01                      | Manage | InfoProvider | Σ |

We have created **MPR\_FC003** for this purpose. This multi provider has same cubes as CBS application and one cube from COPA application.

For this multi provider we have 2 authorization object: **C\_RESP\_CC\_\_C\_RPLANT** Responsible Plant and **C\_RESP\_CC\_\_CPFCTR1\_2 C\_RESP\_CC\_\_CP FCTR1\_2**.

We have also 3 new queries