

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

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**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

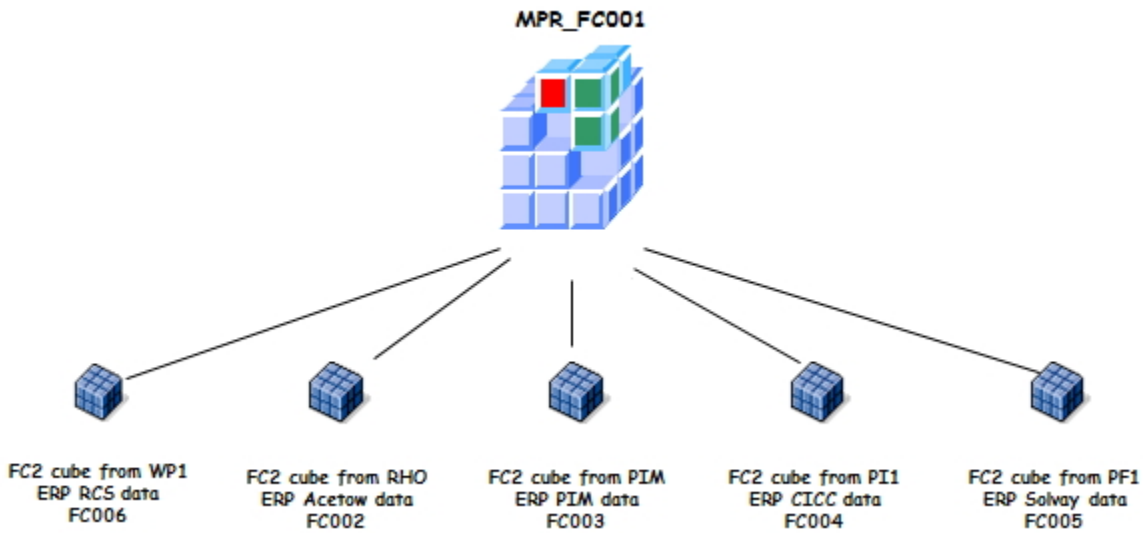
Link to the BW Catalog of role

[https://drive.google.com/open?id=10GEfKYqrT1eeTO\\_uHYAheL1GX7L5y\\_pvH0KQU64qh5l](https://drive.google.com/open?id=10GEfKYqrT1eeTO_uHYAheL1GX7L5y_pvH0KQU64qh5l)

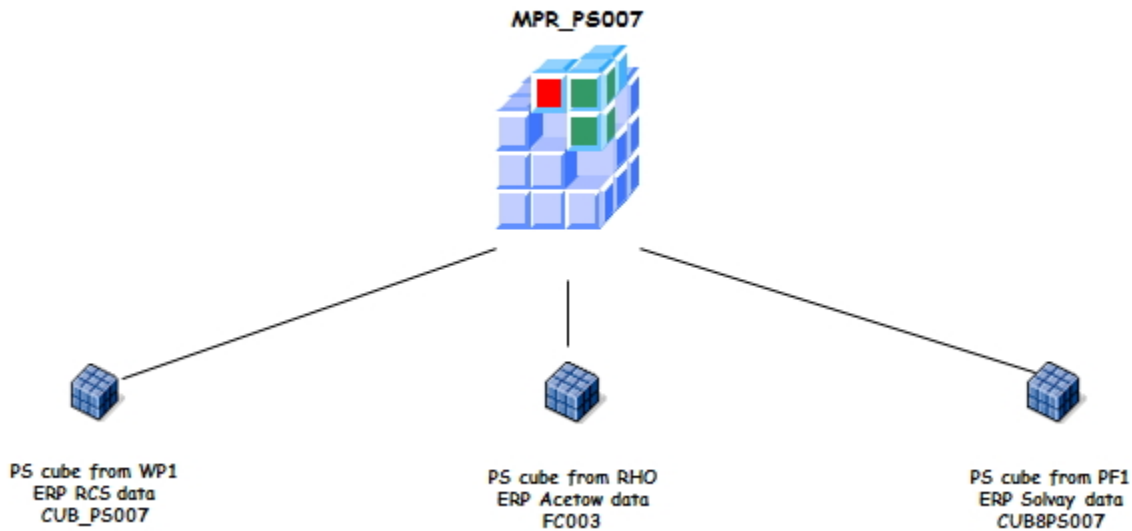
## Dataflow presentation

### Overview

Overview for the Function costs module



Overview for the Project costs module



Reporting documentation drive folder:

[https://drive.google.com/drive/folders/1EVXcn5jngf04IqPXGC2jx\\_O9ETV0ocss](https://drive.google.com/drive/folders/1EVXcn5jngf04IqPXGC2jx_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	InfoProvider
Master Data - Key Figure	IOCK_MD	Change	InfoProvider
Master Data with System ID	IOCC_MD_ID	Change	InfoProvider
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	OLOGSYS	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 Hierarchies](#) page.

### Cost element hierarchies

Click on the [Cost Element Hierarchies](#) 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 (theoretical) :

	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 transfer 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 = I_s_ICCTRCSTA1-bukrs.

IF v_comp IS NOT INITIAL .
  SELECT SINGLE BEKNZ
  INTO I_s_ICCTRCSTA1-seknz
  FROM COEP
  WHERE kokrs = I_s_ICCTRCSTA1-kokrs
  AND belnr = I_s_ICCTRCSTA1-belnr
  AND buzei = I_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\\_iDp5w5gHlIfIhSogZefP7KRKxu4/view](https://drive.google.com/file/d/1HFdG_iDp5w5gHlIfIhSogZefP7KRKxu4/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

