

# Functional Documentation - Corporate Business Services - Function costs report

## 1.0 Overview

CBS Function Costs Menu

Business Context and Application Overview

Within Solvay, Corporate Business Services- Function cost application is a part of the Finance domain and uses data from various systems such as SAP systems, data from Cost Centers, Orders and WBS (SAP PS).

The Corporate Business Services are activities which combine or consolidate certain enterprise-wide needed support services, provided based on specialised knowledge, best practices, and technology to serve internal (and sometimes external) customers and business partners.

This Function is split in 4 parts:

- Corporate (not re-invoiced)
- Function services (re-invoiced and under guarantee)
- R&D and engineering projects
- Interco flows - It allows the identification of inter-company billing at company level

Application User Profile

For this Application the access is provided based on the BW menu "CBS - Function Costs" and it's done via Service one.

Fill the form  
<https://solvay-dwp.onbmc.com/dwp/app/#/itemprofile/622>

In SAP system select the "WBP - BW Business Warehouse"

In WBP - BW Business Warehouse : Select the Business Role select the "CBS - Function Costs"

Target Users:

Users of this application include Corporate Controlling Controllers, Function Controllers, Plant Controller, Accountants and GBU controller

| VERSION | DATE       | MODIFIED BY  | DESCRIPTION   |
|---------|------------|--------------|---------------|
| 0.01    | 15.09.2023 | Inês Vilares | Initial draft |
|         |            |              |               |
|         |            |              |               |

Application Type

Data Product Type

☐ Dashboard

☒ Report

☐ Advanced analytics

☐ AI

☐ Others <specify which one>

Technologies

☒ BW

☐ Tableau

☐ QlikSense

☐ Talend

☐ Dataiku

☐ Others <specify which one>

Data Sources

*Note: list of all applications and various environment*

☒ SAP PF1 (Production environment)

☒ SAP WP1

☒ SAP PI1

☐ BW (versions)

☐ iCare CRM

☐ CORE CRM

☐ Others <specify the name of the source>

☐ Cytec Flatfile

## 2.0 Business Process

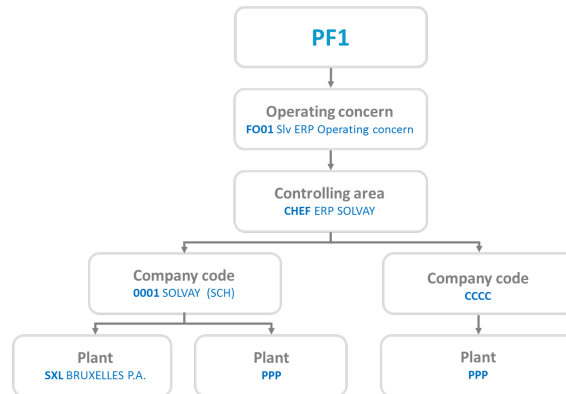
To understand the business process it's important to know the basic concept for the SAP CO module and how it's applicable in Solvay organization.

The SAP CO module in the SAP ERP (Enterprise Resource Planning) system focus on financial controlling and management accounting functions within an organization. SAP CO is designed to provide tools and capabilities to effectively manage and control costs, perform internal and external accounting, and support decision-making processes related to financial aspects of the business. SAP CO is tightly integrated with other SAP modules, such as SAP FI (Financial Accounting) and SAP MM (Materials Management), providing a cohesive and comprehensive solution for managing financial data, controlling costs, and supporting financial decision-making throughout the organization.

## CO Structure in Solvay:

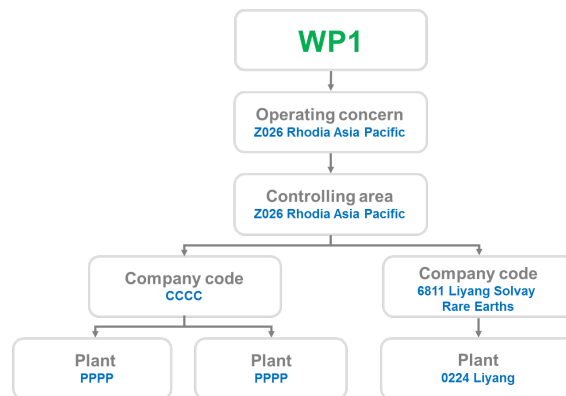
### PF1 Structure

|                   | Code        | Description               |
|-------------------|-------------|---------------------------|
| Operating concern | <b>FO01</b> | Slv ERP Operating concern |
| Controlling area  | <b>CHEF</b> | ERP SOLVAY                |



### WP1 Structure

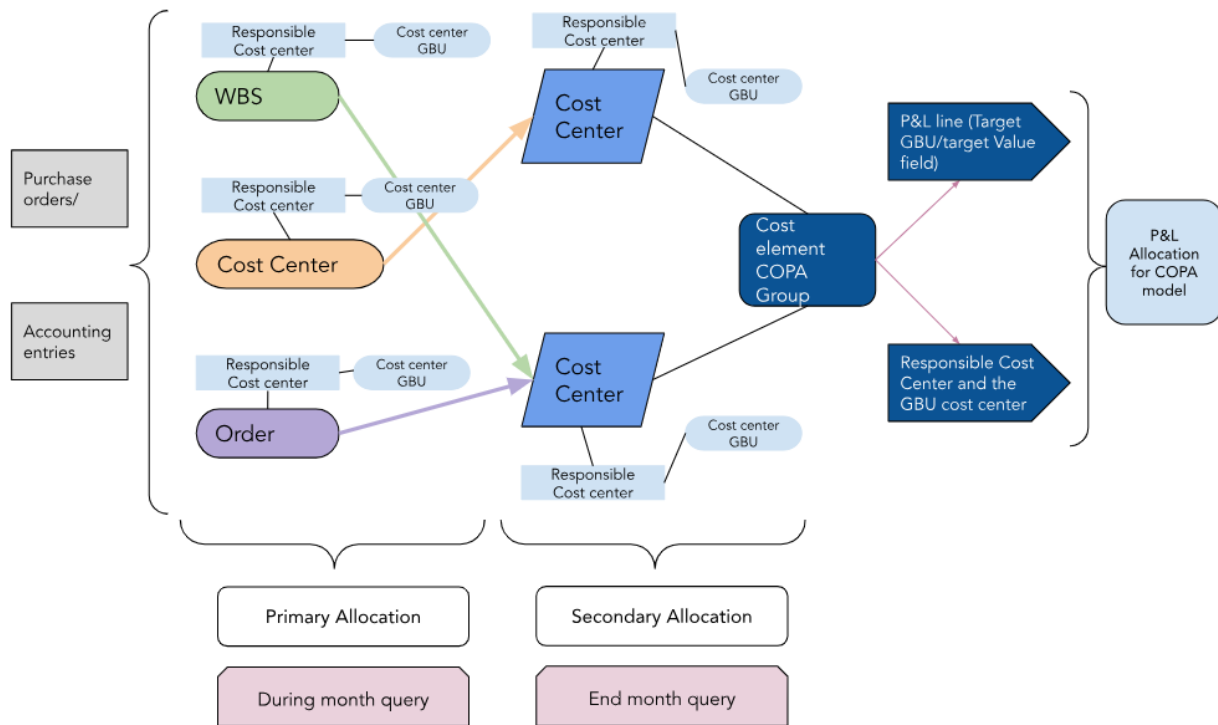
|                   | Code                | Description                |
|-------------------|---------------------|----------------------------|
| Operating concern | Z001                | Solvay Engin. Plasti.Polan |
|                   | Z006                | Rhodia Europe              |
|                   | Z013                | Rhodia Europe              |
|                   | Z025                | Rhodia Latin America       |
|                   | Z026                | Rhodia Asia Pacific        |
|                   | Z028                | Solvay North America       |
| Controlling area  | = Operating concern |                            |



### Overview of the business process for CBS functions costs

For the CBS function costs we use the SAP information from the controlling part. For this it's important to understand the structure behind and how the business see the costs and be able to analyze the information to perform their activities during and end of month.

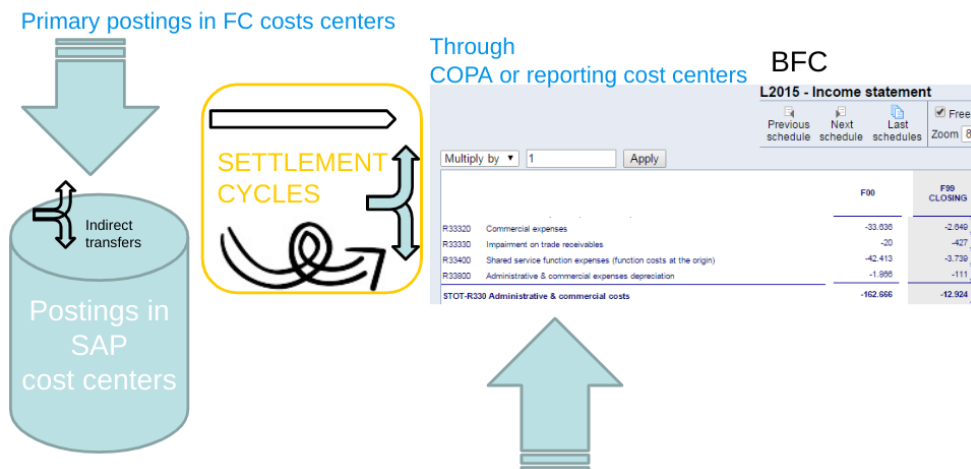
### Model behind for PF1 and WP1:



Currently we have the WBS, cost centers and orders objects with values coming from the purchase orders and accounting entries. Each object is linked to a cost center which we call it "Responsible Cost Center" and this cost center is linked to a GBU.

We have the primary postings and during the closing process we have the settlements cycles (which will allocate the costs to a final cost center) and the final cost centers has the correspondent cost element for COPA line items to be present in the P&L report for PF1 and WP1 using the respective value field.

#### Reporting fixed costs challenges : reconciliation SAP/BFC:



In the controlling side we have primary posting in the CO objects for the fixed costs and during the closing we have the settlement cycles to transfer /allocate the costs to a final CO object and to be in the respective lines in P&L.

## 3.0 Application Feature Overview

For this scope we are using queries instead of workbooks. See below all the queries available:

## 1 - Solvay Group Fixed Costs

| Reports                                            | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Prompts                                                                                                                                                                                                                                                                                                                                                                                         | BW Workbook Query | Query Technical Name  |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|
| <b>CBS - Functions - during month (Core query)</b> | <p>In the report we can analyze the costs posted on function cost centers and CO objects with function CC as responsible CC for a specific period.</p> <ul style="list-style-type: none"> <li>No categorization of costs</li> <li>Highest level of detail: partner CO object</li> <li>The sign of the amount is seen from the function cost center ( +: costs increase / -: costs decrease)</li> </ul> <p>Default filters:</p> <p>1 Organization</p> <ul style="list-style-type: none"> <li>ZCBS-CORPO</li> <li>ZCBS-FUNCT</li> <li>ZCBS-PROJ</li> </ul>                                                                                                                                       | <p>Mandatory:</p> <ul style="list-style-type: none"> <li>Period /Fiscal Year.</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>Auth Scope on Company Code;</li> <li>1 Organization;</li> <li>GBU Function;</li> <li>Function Grouping;</li> <li>Function;</li> <li>3 Sub-funct Grouping;</li> <li>4 Sub-function;</li> <li>Company Code;</li> <li>Prompt Currency.</li> </ul> | N.A               | BW_QRY_MPR_FC001_0003 |
| <b>CBS - Functions - end of month (Core query)</b> | <p>In the report we can analyze the costs posted on function cost centers only for a certain period or periods after the settlements for the analysis on a end of month perspective.</p> <ul style="list-style-type: none"> <li>Categorization of costs following the structure described in the section ""Synthesis" &amp; "Function – end of month" report".</li> <li>Highest level of detail: partner CO object</li> <li>The sign of the amount is seen from the function cost center ( +: costs increase / -: costs decrease)</li> </ul> <p>Default filters:</p> <p>1 Organization</p> <ul style="list-style-type: none"> <li>ZCBS-CORPO</li> <li>ZCBS-FUNCT</li> <li>ZCBS-PROJ</li> </ul> | <p>Mandatory:</p> <ul style="list-style-type: none"> <li>Period /Fiscal Year.</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>Auth Scope on Company Code;</li> <li>1 Organization;</li> <li>GBU Function;</li> <li>Function Grouping;</li> <li>3 Sub-funct Grouping;</li> <li>4 Sub-function;</li> <li>Function;</li> <li>Company Code;</li> <li>Prompt Currency.</li> </ul> | N.A               | BW_QRY_MPR_FC001_0001 |

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                              |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------|
| <b>CBS - Functions by Companies - during month (Core query)</b> | <p>In the report we can analyze the costs posted on function cost centers and CO objects with function CC as responsible CC for a specific period. Used more as a local reporting.</p> <ul style="list-style-type: none"> <li>• No categorization of costs</li> <li>• Highest level of detail: partner CO object</li> <li>• The sign of the amount is seen from the function cost center ( +: costs increase / -: costs decrease)</li> <li>• Same layout as "Functions – During the month"</li> </ul> <p>Default filters:</p> <p>1 Organization</p> <ul style="list-style-type: none"> <li>• ZCBS-CORPO</li> <li>• ZCBS-FUNCT</li> <li>• ZCBS-PROJ</li> </ul> | <p>Mandatory:</p> <ul style="list-style-type: none"> <li>• Period /Fiscal Year.</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>• Auth Scope on Company Code;</li> <li>• 1 Organization;</li> <li>• GBU Function;</li> <li>• Function Grouping;</li> <li>• Function;</li> <li>• 3 Sub-funct Grouping;</li> <li>• 4 Sub-function;</li> <li>• Company Code;</li> <li>• Prompt Currency.</li> </ul> | <p>N.A</p> | <p>BW_QRY_MPR_FC001_0004</p> |
| <b>CBS - Functions by Companies - end of month (Core query)</b> | <p>In the report we can analyze the costs posted on function cost centers only for a certain period or periods. Used more as a local reporting.</p> <ul style="list-style-type: none"> <li>• No categorization of costs</li> <li>• Highest level of detail: partner CO object</li> <li>• The sign of the amount is seen from the function cost center ( +: costs increase / -: costs decrease)</li> </ul> <p>Default filters:</p> <p>1 Organization</p> <ul style="list-style-type: none"> <li>• ZCBS-CORPO</li> <li>• ZCBS-FUNCT</li> <li>• ZCBS-PROJ</li> </ul>                                                                                             | <p>Mandatory:</p> <ul style="list-style-type: none"> <li>• Period /Fiscal Year.</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>• Auth Scope on Company Code;</li> <li>• 1 Organization;</li> <li>• GBU Function;</li> <li>• Function Grouping;</li> <li>• Function;</li> <li>• 3 Sub-funct Grouping;</li> <li>• 4 Sub-function;</li> <li>• Company Code;</li> <li>• Prompt Currency.</li> </ul> | <p>N.A</p> | <p>BW_QRY_MPR_FC001_0002</p> |

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                       |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------|
| <b>CBS - Synthesis of the Functions (Core query)</b> | <p>In the report we can analyze the costs posted on function cost centers only for a certain period or periods.</p> <ul style="list-style-type: none"> <li>• Categorization of costs following the structure described in the section ""Synthesis" &amp; "Function – end of month" report".</li> <li>• Highest level of detail: cost center x cost element</li> <li>• The sign of the amount is seen from the function cost center ( +: costs increase / -: costs decrease)</li> </ul> <p>Default filters:</p> <p>1 Organization</p> <ul style="list-style-type: none"> <li>• ZCBS-CORPO</li> <li>• ZCBS-FUNCT</li> <li>• ZCBS-PROJ</li> </ul> | <p>Mandatory:</p> <ul style="list-style-type: none"> <li>• Period /Fiscal Year.</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>• Auth Scope on Company Code;</li> <li>• 1 Organization;</li> <li>• GBU Function;</li> <li>• Function Grouping;</li> <li>• Function;</li> <li>• 3 Sub-funct Grouping;</li> <li>• 4 Sub-function;</li> <li>• Company Code;</li> <li>• Prompt Currency.</li> </ul> | N.A | BW_QRY_MPR_FC001_0005 |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------|

## 2 - Solvay Group detailed Fixed Costs

| Reports                                                  | Definition                                                                                                                                                                                                                                                                                              | Prompts                                                                                                                                                                                                   | BW Workbook Query | Query Technical Name  |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|
| <b>BW - Detail costs by Orders - Rhodia (Core query)</b> | The report is for Rhodia companies scope and show the costs for the selected order and all the details as partner cost center, partner activity, partner WBS element, partner order, CO document number and CO document line item for different periods in Amount (EUR) and Amount in Company Currency. | <p>Mandatory:</p> <ul style="list-style-type: none"> <li>• Order.</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>• Prompt Currency;</li> <li>• Auth Scope on Company Code;</li> </ul> | N.A               | BW_QRY_MPR_FC002_0001 |
| <b>BW - Detail costs by Orders - Solvay (Core query)</b> | The report is the same as "BW - Detail costs by Orders - Rhodia (Core query)" but the scope is for Solvay companies.                                                                                                                                                                                    | <p>Mandatory:</p> <ul style="list-style-type: none"> <li>• Order.</li> </ul> <p>Optional:</p> <ul style="list-style-type: none"> <li>• Prompt Currency;</li> <li>• Auth Scope on Company Code;</li> </ul> | N.A               | BW_QRY_MPR_FC002_0002 |

|                                                                |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                             |     |                       |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------|
| <b>BW - Detail costs by WBS Elements - Rhodia (Core query)</b> | The report is for Rhodia companies scope and show the costs for the selected WBS Element and all the details as compay code, partner cost center, partner WBS element, partner order, CO document number and CO document line item for last closing period in Amount (EUR) and Amount in Company Currency. | Mandatory: <ul style="list-style-type: none"> <li>WBS Element.</li> </ul> Optional: <ul style="list-style-type: none"> <li>Prompt Currency;</li> </ul>                                      | N.A | BW_QRY_MPR_FC002_0003 |
| <b>BW - Detail costs by WBS Elements - Solvay (Core query)</b> | The report is the same as "BW - Detail costs by WBS Elements - Rhodia (Core query)" but the scope is for Solvay companies.                                                                                                                                                                                 | Mandatory: <ul style="list-style-type: none"> <li>WBS Element.</li> </ul> Optional: <ul style="list-style-type: none"> <li>Prompt Currency;</li> <li>Auth Scope on Company Code;</li> </ul> | N.A | BW_QRY_MPR_FC002_0004 |

## 4.0 Functional Specification

### 4.1 General Data/Calculations

For these reports, it's important to understand some general concepts which are transversal to all the reports which allows the users to work with the reports in the same way as the SAP system and BFC tool.

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cost Center</b>             | A cost center is a specific organizational unit within a company that is responsible for incurring costs. It represents a location, department, or function where expenses are generated. Cost centers are used for tracking and controlling costs, allocating expenses, and monitoring budget compliance.                                                                                                                                                                                                                                                                        |
| <b>Responsible Cost Center</b> | A responsible cost center is a subcategory of a cost center that is responsible for specific cost incurrences within the main cost center. It allows for more detailed tracking and allocation of costs within a broader cost center. Responsible cost centers help organizations drill down into expenses for greater accuracy in cost analysis and control.<br><br>Responsible Cost center is : <ul style="list-style-type: none"> <li>the cost center linked to the Order and WBS of the line item (CO-OM, PS)</li> <li>the cost center of the line item for CO-CCA</li> </ul> |
| <b>Cost element</b>            | It's a categorization used to track and classify expenses incurred by an organization. It represents a specific type of cost, such as wages, materials, rent, or utilities, and serves as a fundamental building block for cost accounting and reporting. Cost elements are essential for allocating and analyzing costs within the SAP CO module. It's the P&L account used to post the amounts in SAP CO document.                                                                                                                                                              |
| <b>Plant</b>                   | Refers to a specific physical location or facility within a company's organizational structure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cost Center Hierarchy</b>   | Refers to a structured arrangement or organization of cost centers within a company. It establishes a hierarchical relationship among cost centers, typically based on their functions, responsibilities, or reporting structures. This hierarchy helps in organizing and managing cost centers efficiently for accounting, budgeting, and reporting purposes, allowing for better control and analysis of costs across the organization.                                                                                                                                         |

### 4.2 Process Detail

#### 4.2.1. Report/Process Definition

|                    |                                                               |
|--------------------|---------------------------------------------------------------|
| <b>Domain</b>      | Finance                                                       |
| <b>Application</b> | BW reports under CBS - Function Costs folder (queries option) |

|                 |                          |
|-----------------|--------------------------|
| <b>Provider</b> | MPR_FC001 and MPR_FC002. |
|-----------------|--------------------------|

In this section we will approach:

- [SAP BW High Level View](#)
- [Hierarchy](#)
- [Restrictions](#)
- [Function cost tracking reports](#)
- ["Synthesis" & "Function – end of month" reports](#)
- [Characteristics available in CBS reports](#)
- [Cytect case for Non-ERP](#)

For the CBS function costs application we have the PF1 and WP1 systems and we are using the main CO objects cost centers, WBS and orders and with this information extracted we the data is splitted in two BW tools one side the GBU fixed costs and the other solution is CBS for the functions (For the GBU fixed costs scope the explanation it is in the "[GBU Fixed Costs application](#)"). For both applications we use the same data base and the same cubes but the multiproviders are different also because of the authorization part.

## SAP BW High Level View

To see the data from the source systems see below how the information is organized in the BW perspective:



## Hierarchy

The below costs are included in the Corporate Business:

- Actual costs only: Statistical costs are not taken into account
- IFRS rules only: Costs posted using local gaap accounts are excluded (Brazilian entities)
- Costs posted on CBS (Corporate Business Services) cost centers (directly or through orders or WBS). It corresponds to the cost centers included in the following groups of the [cost centers hierarchy ZCBS](#):
  - ZCBS-CORPO = Corporate
  - ZCBS-FUNCT = Function services
  - ZCBS-PROJ =Projects
  - ZCBS-ICO = Interco
- Costs are organized with the [cost elements group ZRCS-FC](#)
- Inter-company re-invoiced function service costs should be posted on cost centers of the group ZCBS-ICO

In SAP using the transaction [KSH3 - Display cost center hierarchy](#)



In the Cost Element Hierarchy from 01 Jan 2022 the Cost Element Group ZRCS-FC it was replaced by the [Cost Element Group ZSOLV](#). In the reports we have information for the ZSOLV group but the reports are still working for the filters and key figures with the old group. Discussions are on going to see the best solution to have the reports adapted with the new group ZSOLV.

## Restrictions

To determine CBS Fixed Costs perimeters, there is restrictions on:

- Cost center
- Cost element
- Miscellaneous filters

In CBS application the CBS hierarchy for PF1 and WP1 systems in BW was denormalized (levels of the hierarchy are translated as attributes of cost center and responsible cost center):

## Levels of the CBS hierarchy

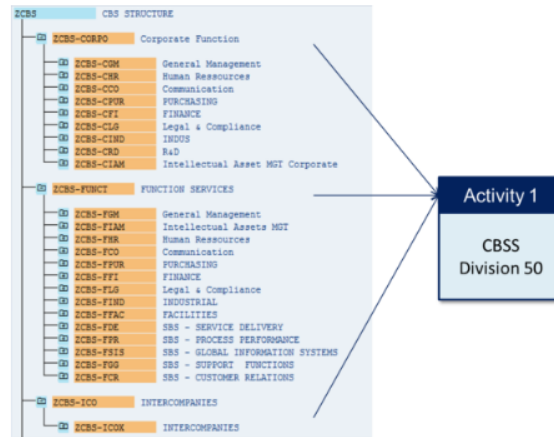
**Characteristic C\_COSTCTR - maintain master data: List**

Text Data Records to be Edited

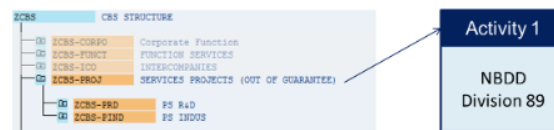
| Control | Cost Center | L  | Valid to   | Valid from | Business a | Company co | Size Sys.   | Object cur | Profit Cen | Person Responsible  | 0 Hierarch | 1 Organisa | 2 Function | 3 Sub-func | 4 Sub-func | Record cha | CC |
|---------|-------------|----|------------|------------|------------|------------|-------------|------------|------------|---------------------|------------|------------|------------|------------|------------|------------|----|
| CHEF    | 1D13110000  | EN | 31.12.2011 | 01.01.1000 |            |            | PF1_020     |            |            | MOHAMED ABDELMONEIM | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D13110000  | EN | 31.12.9999 | 01.01.2012 | 7250       | 6046       | PF1_020 EGP | CAXA       |            | MOHAMED ABDELMONEIM | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16210000  | EN | 31.12.2011 | 01.01.1000 |            |            | PF1_020     |            |            | LABLA ELGHAZALY     | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16210000  | EN | 31.12.9999 | 01.01.2012 | 7250       | 6046       | PF1_020 EGP | CAXA       |            | LABLA ELGHAZALY     | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16310000  | EN | 31.12.2011 | 01.01.1000 |            |            | PF1_020     |            |            | LARBI BOUJRAD       | ZCBS       | ENTRP      | EADM       | EADMA      | EADMAG     | 07.06.2016 |    |
| CHEF    | 1D16310000  | EN | 31.05.2016 | 01.01.2012 | 7250       | 6046       | PF1_020 EGP | CAXA       |            | LARBI BOUJRAD       | ZCBS       | ENTRP      | EADM       | EADMA      | EADMAG     | 07.06.2016 |    |
| CHEF    | 1D16310000  | EN | 31.12.9999 | 01.06.2016 | 7250       | 6046       | PF1_020 EGP | CAXA       |            | LARBI BOUJRAD       | ZCBS       | ENTRP      | EADM       | EADMA      | EADMAG     | 07.06.2016 |    |
| CHEF    | 1D16410000  | EN | 31.12.2011 | 01.01.1000 |            |            | PF1_020     |            |            | KHALED AHMED        | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16410000  | EN | 31.12.9999 | 01.01.2012 | 7250       | 6046       | PF1_020 EGP | CAXA       |            | KHALED AHMED        | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16430000  | EN | 31.12.2011 | 01.01.1000 |            |            | PF1_020     |            |            | KHALED AHMED        | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16430000  | EN | 31.12.9999 | 01.01.2012 | 7250       | 6046       | PF1_020 EGP | CAXA       |            | KHALED AHMED        | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16450000  | EN | 31.12.2011 | 01.01.1000 |            |            | PF1_020     |            |            | KHALED AHMED        | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16450000  | EN | 31.12.9999 | 01.01.2012 | 7250       | 6046       | PF1_020 EGP | CAXA       |            | KHALED AHMED        | ZCBS       | ENTRP      | EPRD       | EPRD5      | EPRD56     | 07.06.2016 |    |
| CHEF    | 1D16510000  | EN | 31.12.2011 | 01.01.1000 |            |            | PF1_020     |            |            | MOHAMED ABABA       | ZCBS       | ENTRP      | EADM       | EADMA      | EADMAA     | 07.06.2016 |    |

### Cost centers hierarchy/restriction for this scope:

- All cost centers included in the groups **ZCBS-CORPO** Corporate Function & **ZCBS-FUNCT** FUNCTION SERVICES are assigned to the **Activity 1** CBS S in WP1 (=IECRA00569) or 50 in PF1.
- Cost centers included in the group **ZCBS-ICO** INTERCOMPANIES are assigned to the **Activity 1** CBSS in WP1 (=IECRA01148) or 50 in PF1.



- All cost centers included in the group **ZCBS-PROJ** SERVICE S PROJECTS (OUT OF GUARANTEE) are assigned to the **Activity 1** NBDD (=IECR A00554) in WP1 or 89 in PF1.



- All cost centers included in the group **ZCBS-OTH** CBS NON FUNCTION COSTS are assigned to the **Activity 1** CBNR (=IECRA00450) in WP1 or 59 in PF1.

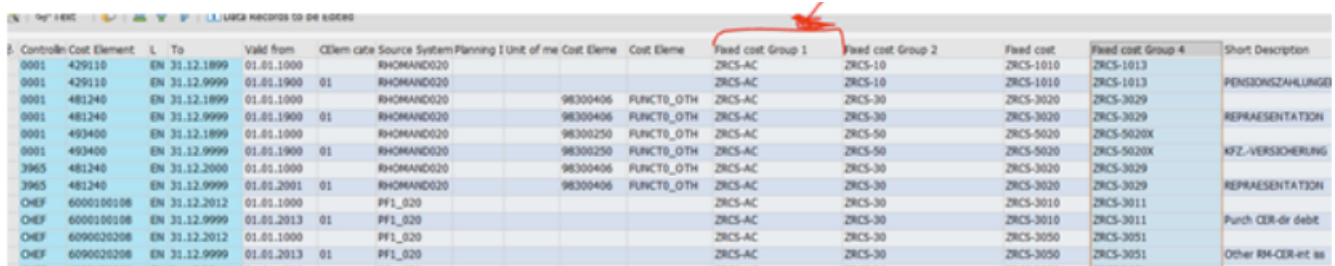


### The sub-group:

- ZCBS-OTH5** CBS NON FUNCTION COSTS - Scope F2G is used in the frame of the project F2G to manage the **CoSta - Anaplan & F2G** the
- ZCBS-OTHPO** CBS NON FUNCTION COSTS - Scope PO2 was created in the frame of the project **Power of 2** to follow-up the costs of the project

## Restriction on cost element:

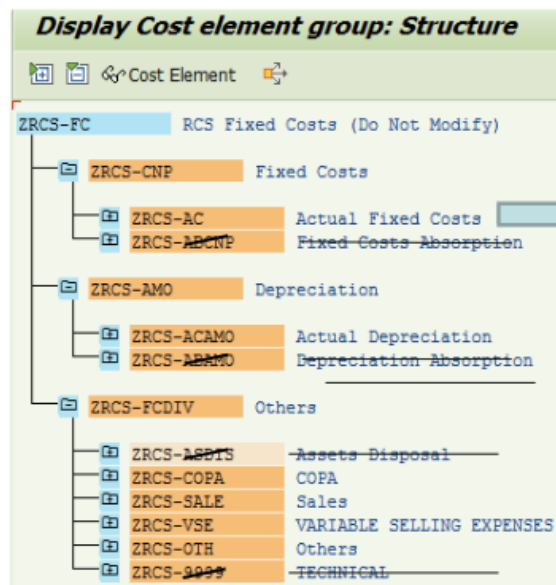
In the cost element BW object the cost element hierarchy was denormalized (levels of the hierarchy are translated as attributes of cost element).



| Control Cost Element | L          | To | Valid from | Valid to   | Cost Element Source System Planning Unit of me | Cost Element | Fixed cost Group 1 | Fixed cost Group 2 | Fixed cost | Fixed cost Group 4 | Short Description    |
|----------------------|------------|----|------------|------------|------------------------------------------------|--------------|--------------------|--------------------|------------|--------------------|----------------------|
| 0001                 | 429110     | EN | 31.12.1899 | 01.01.1900 | 01                                             | RHOMAND020   | ZRCS-AC            | ZRCS-10            | ZRCS-1010  | ZRCS-1013          | PENSIONSAUHLUNGE     |
| 0001                 | 481240     | EN | 31.12.1899 | 01.01.1900 | 01                                             | RHOMAND020   | 98300406           | FUNCTO_OTH         | ZRCS-30    | ZRCS-3020          | REPRASSENTATION      |
| 0001                 | 481240     | EN | 31.12.1899 | 01.01.1900 | 01                                             | RHOMAND020   | 98300406           | FUNCTO_OTH         | ZRCS-30    | ZRCS-3020          | REPRASSENTATION      |
| 0001                 | 493400     | EN | 31.12.1899 | 01.01.1900 | 01                                             | RHOMAND020   | 98300250           | FUNCTO_OTH         | ZRCS-50    | ZRCS-5020          | KFZ-VERSICHERUNG     |
| 0001                 | 493400     | EN | 31.12.1899 | 01.01.1900 | 01                                             | RHOMAND020   | 98300250           | FUNCTO_OTH         | ZRCS-50    | ZRCS-5020          | KFZ-VERSICHERUNG     |
| 3965                 | 481240     | EN | 31.12.2000 | 01.01.1900 | 01                                             | RHOMAND020   | 98300406           | FUNCTO_OTH         | ZRCS-30    | ZRCS-3020          | REPRASSENTATION      |
| 3965                 | 481240     | EN | 31.12.1899 | 01.01.2001 | 01                                             | RHOMAND020   | 98300406           | FUNCTO_OTH         | ZRCS-30    | ZRCS-3020          | REPRASSENTATION      |
| CHZF                 | 6000100108 | EN | 31.12.2012 | 01.01.1900 | 01                                             | PF1_020      | ZRCS-AC            | ZRCS-30            | ZRCS-3010  | ZRCS-3011          | Purch CER-de debit   |
| CHZF                 | 6000100108 | EN | 31.12.1899 | 01.01.2013 | 01                                             | PF1_020      | ZRCS-AC            | ZRCS-30            | ZRCS-3010  | ZRCS-3011          | Purch CER-de debit   |
| CHZF                 | 6090020208 | EN | 31.12.2012 | 01.01.1900 | 01                                             | PF1_020      | ZRCS-AC            | ZRCS-30            | ZRCS-3050  | ZRCS-3051          | Other R94-CER-ent as |
| CHZF                 | 6090020208 | EN | 31.12.1899 | 01.01.2013 | 01                                             | PF1_020      | ZRCS-AC            | ZRCS-30            | ZRCS-3050  | ZRCS-3051          | Other R94-CER-ent as |

By default we must excluded some "Fixed cost group " attributes values in the reports. The users can delete these default filters.

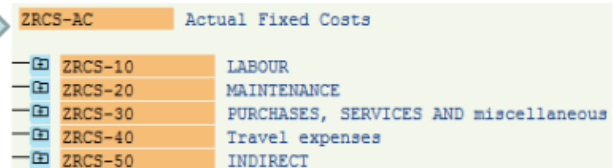
## Cost element hierarchy ZRCS-FC : restrictions:



## In WP1 and PF1

Managed centrally by DMR (data management)

details



**ZRCS-AC** Actual Fixed Costs

- ZRCS-10** LABOUR
- ZRCS-20** MAINTENANCE
- ZRCS-30** PURCHASES, SERVICES AND miscellaneous
- ZRCS-40** Travel expenses
- ZRCS-50** INDIRECT

Only cost elements linked with ZRCS-AC, ZRCS-ACAMO, ZRCS-COPA, ZRCS-SALE, ZRCS-VSE, ZRCS-OTH will appear in the query

## Miscellaneous filters:

Order Type : we excluded (investment) :

- ZPM4
- ZPM6

Project Type we excluded (investment) :

- II
- FD

Value type

- 10- Real
- 20-plan

Currency type

- 10 company code currency

## Function cost tracking reports

### Design

5 queries available, corresponding to 2 approaches

- Point of entry : function(s) or company(ies)
- End of month (final settlement on function CC) or During the month (link to function CC before settlement)

|             |                       | End of Month                                                                                               | During the Month                                            |
|-------------|-----------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
|             |                       | to be used for reporting after the closing when all costs posted in orders are settled on CBS cost centers | to be used during the month when orders are not yet settled |
| By Function | function controlling  | BW_QRY_MPR_FC001_001 ★<br>BW_QRY_MPR_FC001_005                                                             | BW_QRY_MPR_FC001_003                                        |
|             | corporate controlling |                                                                                                            |                                                             |
| By company  | local controlling     | BW_QRY_MPR_FC001_002 ★★                                                                                    | BW_QRY_MPR_FC001_004                                        |

★ BW\_QRY\_MPR\_FC001\_001 CBS Functions - end of month => for reporting to corporate controlling

★★ BW\_QRY\_MPR\_FC001\_002 CBS Functions by companies => for reconciliation FC vs BW

Possibility to analyze a “one-level-up” cost cascade

#### Data

- CO documents: actual costs in local currency + report in other currency with BFC exchange rate
- Entries on Cost Centers, Orders and WBS elements
- Postings to COPA & Local Gaap cost elements are excluded

## “Synthesis” & “Function – end of month” reports

Additional axis : Structure with 6 categories

|     | Category                      | Definition                                                                                                                                                                                 | Example                                                                                         |
|-----|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| (1) | Gross                         | All costs excluding depreciation before any deduction (sales, capitalization, etc...)                                                                                                      | all labour costs + travel + services + ...                                                      |
| (2) | Depreciation                  | Postings with depreciation cost elements                                                                                                                                                   | depreciation costs                                                                              |
| (3) | Sales                         | postings with sales cost elements (excluding capitalization) + postings with all other cost elements linked to Invoicing WBS element (partners with object class “Profitability Analysis”) | activity (man Hr) posted on invoicing WBS<br>-> time spent on IT project reinvoced to customer  |
| (4) | Costs going to be capitalized | postings linked to Investment WBS or Orders (partners with object class “Investment”)                                                                                                      | activity (man Hr) posted on investment WBS<br>-> time spent on IT project for development phase |
| (5) | ★ Cost transferred            | Credits from overheads CC WBS IO (partners with class object “Overheads” - excluding sales cost elements)                                                                                  | activity (man Hr) posted on overhead WBS<br>-> time spent on IT project for training phase      |
|     | Net Function                  | Balance of the cost center                                                                                                                                                                 | (1) + (2) - (3) - (4) - (5)                                                                     |
|     | ★                             | postings on function CC from WBS or internal order settlement are classified in Gross                                                                                                      |                                                                                                 |

## Characteristics available in CBS reports

| Characteristics     |                           | Synthesis | Functions - End of month | Functions by Companies - End of Month | Reports - During Month |
|---------------------|---------------------------|-----------|--------------------------|---------------------------------------|------------------------|
| 0 – Hierarchy       | Level 0 of ZCBS hierarchy | X         | X                        | X                                     | X                      |
| 1 – Organization    | Level 1 of ZCBS hierarchy | X         | X                        | X                                     | X                      |
| 2 – Function        | Level 2 of ZCBS hierarchy | X         | X                        | X                                     | X                      |
| 3 – Sub-Funct Group | Level 3 of ZCBS hierarchy | X         | X                        | X                                     | X                      |
| 4 – Sub-Function    | Level 4 of ZCBS hierarchy | X         | X                        | X                                     | X                      |



 Prompts

1. You can delete the long list of Company codes by clicking



1. Once the list of company codes is deleted, you have to enter the list of company codes, you want to display or



2. Enter the Auth Scope = **SOLV**

[illegible]

Prompt Summary      **Verify Value for Prompts**

**CBS - Functions - end of month (Core)**      **CBS - Functions - end of month (Core query)**

\* Period/Fiscal Year (Interval, Req)      \* Period/Fiscal Year (Interval, Required)      001.2018      006.2018

1 Organisation (Multiple values, O)      1 Organisation (Multiple values, Options)      CBS-PROU      X

\* 2 Function (Selection Option, M)      \* 2 Function (Selection Option)      CBS-CCO      X

3 Sub-Function Grouping (Selection O)      3 Sub-Function Grouping (Selection)      X      X

4 Sub-Function (Selection Option)      4 Sub-Function (Selection Option)      X      X

Prompt Currency (EUR) Euro      Prompt Currency (EUR)      EUR      X

☒ \* Company code (Select Option, M)      Prompt Company Code (EUR)      #      1      X      X

Auth Scope on Company Code (A)      Auth Scope on Company Code      SOLVAY      2      X      X



**Step 2 - Specific update for personnal workbooks using the query BW\_QRY\_MPR\_FC001\_0001 CBS**  
**- Functions - end of month (Core query)**

Once the issue coming from the [authorization scope](#) is solved, you can face a second issue described below:

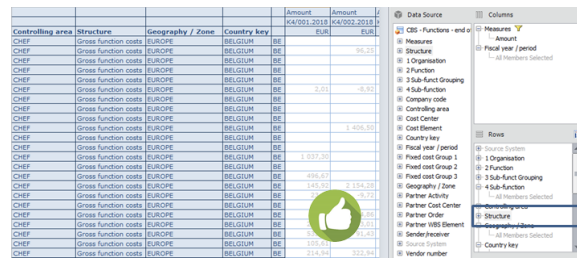
## Problem

When the workbook is refreshed, there is only the column headings.

[illegible]

### Solution

1. Go to the tab "Analysis"
2. Click "Display" to open the [design panel](#)
3. Drag and drop the structure from **Data source** pane to the "Rows" or "Columns" pane depending on how it used to be.



Everything should be back to normal. If you have followed the procedure and there is still no data in your workbook, you may contact the [Contact SBS Support](#) .

- Once the authorization scope is filled, there is no need to update it anymore
- The disappearance of the "structure" is also a one time event and only happened in the query BW\_QRY\_MRP\_FC001\_0001. It is an error that was not detected when a development was transported from the development environment to the production environment impacting the query BW\_QRY\_MRP\_FC001\_0001 only.



What can I do if after having followed the procedure, my workbook is not fixed ?

If you have followed the procedure and there is still no data in your workbook, you may contact the [Contact SBS Support](#) .

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## 5.0 Non-functional Descriptions

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### 5.1 Usability

### 5.2 Regulatory Compliance

### 5.3 Security

### 5.4 Performance

### 5.5 Reliability

### 5.6 Scalability

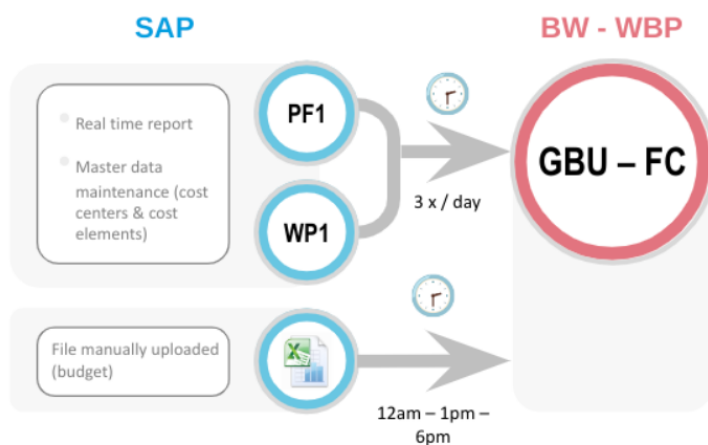
### 5.7 Compatibility

### 5.8 Availability

### 5.9 Refresh of the Data

The loading it's the same logic as for GBU fixed costs since the use the same data base:

**Closing Time:**



**Outside of Closing:** it's one time on a daily basis.