

# Raw Material SpP



Access latest documentation in the below [SPP Make or Buy](#) part.

The logic is the same, but BW objects changed (ABCOPC17 and ABCOPC18 ABCOPC20 and ABCOPC21) with a different granularity.

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## Objective

Provide "Make or Buy" information in the SpP Raw Material process to deliver a Manufacturing adjusted cost.

This information is provided by Finance or Controlling and based on several calculations on their side, and therefore not available in SAP.

The indicators "Usage factor" and "Mixing ratio" must be manually populated by the Business at BOM Component / Plant level.

A calculation will be applied on each finished products concerned by these BOM Components.

## Overall design

Concerned raw materials are identified in the ZCRIT transaction in PF1 with the critical flag "I" for internal and "E" for external.

A dedicated workbook allows users to fill "Usage factors" and "Mixing ratio" for those relevant Raw Materials.

A data flow push these Raw Materials information to the Manufacturing query, computing the "Adjusted Mixing Ratio" to apply to the Raw Material cost.

## Roles & Access

### Roles and access

List of application role + menu role and explanation if we have several applications role with specials rules.

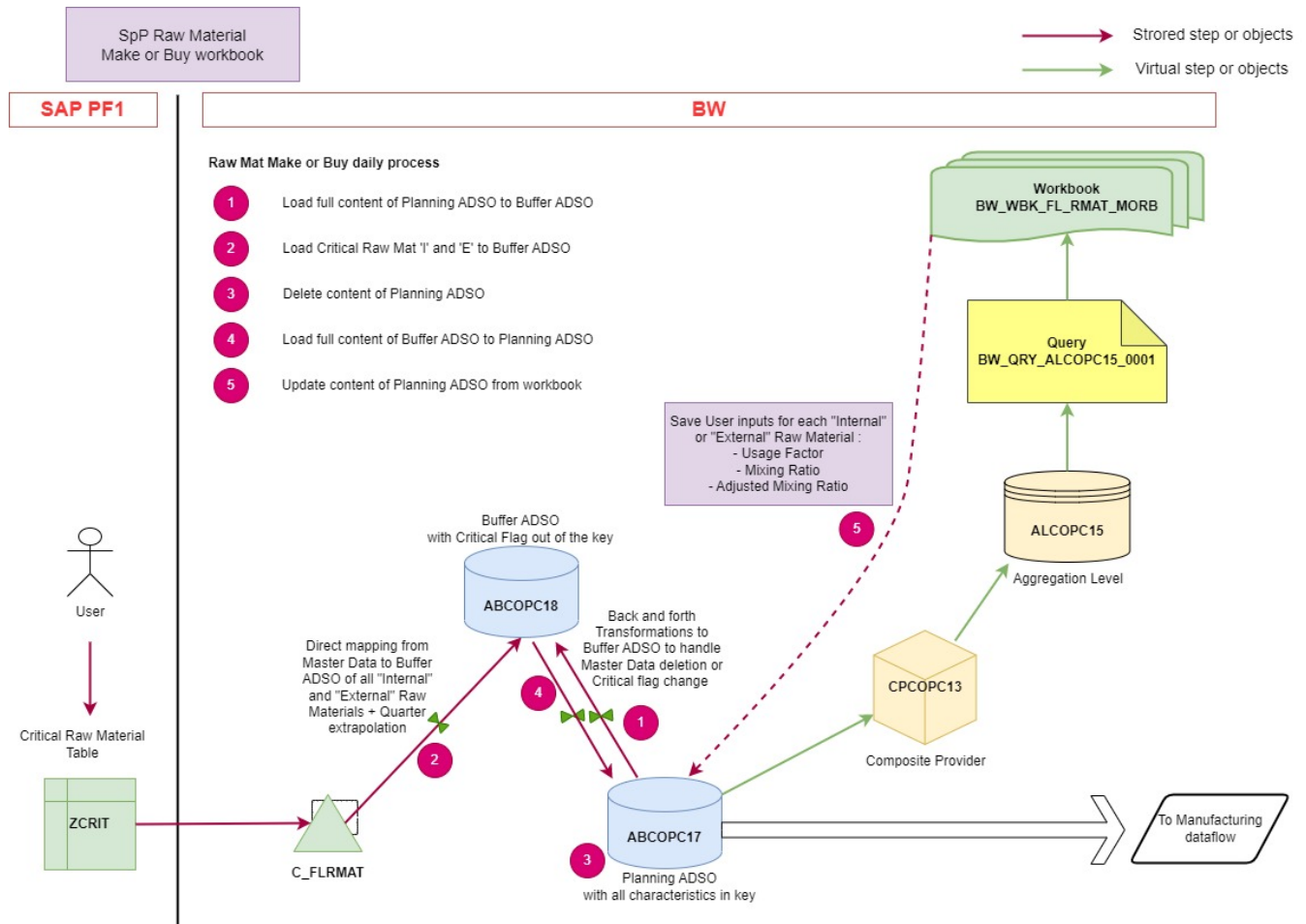
Role Code	Role Description	Explanation
ZR_RCS_CA_M78	Forward Looking ICM - Raw Material	Role Menu
ZBI_RCS_CO_A06	Forward Looking ICM - Raw Material	Authorization objects

## Authorization variables

List of authorization variables mandatory for the application.

Authorization variables	Object
V_CPFCTR1_2_0006	CPFCTR1_2
V_C_PLANT_0012	C_PLANT
V_C_AUTHMA_0001	C_PLANT__C_AUTHMA

## Dataflow overview



## BW Logic

The Critical Raw Material Master Data **C\_FLRMAT** is used to identify the "Make or Buy" Products.

This Master Data is already used to retrieve Raw Material information like Critical flag, Buyer name, Buyer currency, Buyer unit, Classification.

The source of this information is located in PF1 system for SpP, where the table **ZFI\_ICM\_CRITIC** is populated by Business through transaction **ZCRIT**.

The field "Critical flag" (C\_FLRMATF) is used to identify "Make or Buy" Products.

Available values for the field are :

- " " : Not critical
- "X" : Critical
- "B" : Critical No BOM
- "I" : Critical Internal
- "E" : Critical External

The BW data flow logic is based on an intermediate buffer ADSO, allowing the save of the previously input value from Business, and the update from the latest data coming from the Critical Raw Material Master Data **C\_FLRMAT**.

The chronology is the following (see red bullets in above graphic) :

1. Load full content of Planning ADSO to Buffer ADSO
2. Load Critical Raw Mat 'I' and 'E' to Buffer ADSO
3. Delete full content of Planning ADSO
4. Load full content of Buffer ADSO to Planning ADSO
5. Update "Usage factors" and "Mixing ratio" in Planning ADSO from workbook

The Planning ADSO is then source of the Manufacturing data flow, applying the "Adjusted Mixing Ratio" to the finished products price concerned by these Components.

Therefore, the Raw Material Forecast price must have been confirmed and sent to Manufacturing before the "Make or Buy" process ([Raw Material Forecast#Objective](#)).

## Dependencies with other applications

There is a dependency with :

**InfoObjects** : C\_FLRMAT, C\_GLBFLT (Global Filters).

**InfoProviders** : ABCOPC01 (Raw Material Forecast).

## Propagation Layer

N/A

## Business Layer

**InfoProvider** : ABCOPC17 FL - Raw Mat Make or Buy

FL - Raw Mat Make or Buy	ABCOPC17	Manage
ADSO ABCOPC18 -> ADSO ABCOPC17	0LYTP836GXQUU0FF	Change
FL - Raw Mat Make or Buy - Buffer	ABCOPC18	Manage InfoProviders
Data Transfer Processes	ABCOPC17	Create Data Trans
DTP: ABCOPC18 -> ABCOPC17 Full Internal / External	DTP_04B9BB0HZDMR7	Change

ADSO in write optimized mode, with all characteristics in key to allow planning functionalities.

The structure of the Planning ADSO is :

- [Source system \(0LOGSYS\)](#)

- Material (C\_MATNR2)
- Plant (C\_PLANT)
- Quarter (OCALQUARTER)
- GBU (CPFCTR1\_2)
- Flag critical raw material (C\_FLRMATF)
- Usage Factor (K\_USGFACT)
- Mixing ratio (K\_MIXRAT)
- Adjusted Mixing ratio (K\_ADJRAT)

The OCALMONTH dimension will be extrapolated from Quarter in the Manufacturing data flow, at the time of loading the Planning ADSO into the Manufacturing one.

**Transformation ADSO ABCOPC18 -> ADSO ABCOPC17**

The ADSO is loaded with Make or Buy products only (Critical flag "I" or "E"), from Buffer ADSO ABCOPC18, in which the Planning ADSO was previously saved, and enhanced with a loading from MD Critical Raw Material.

A 1:1 mapping is done for all matching characteristics, except key figure K\_ADJRAT which is computed from the 2 other key figures, according to Critical flag change (I or E).

Planning ADSO records are deleted and reloaded from buffer ADSO daily.

The screenshot shows the SAP Transformation configuration for 'Transformation' from 'ADSO ABCOPC18 -> ADSO ABCOPC17'. The source is 'FL - Raw Mat Make or Buy - Buffer (ABCOPC18)' and the target is 'FL - Raw Mat Make or Buy (ABCOPC17)'. The version is 'Active' and it is 'Executable'. Below the configuration, two tables show the field mappings:

Pos	Key	InfoObject	Field	Icon	Descript.	Data t	Lngh
1		0LOGSYS	LOGSYS		Source System	CHAR	000010
2		C_MATNR2	/BIC/C_MATNR2		Material	CHAR	000018
3		C_PLANT	/BIC/C_PLANT		Plant	CHAR	000004
4		OCALQUARTER	CALQUARTER		Calendar Year/Quarter	NUMC	000005
5		ORECORDMODE	RECORDMODE		BW Delta Process: Update Mode	CHAR	000001
6		CPFCTR1_2	/BIC/CPFCTR1_2		BFC Global Business Unit	CHAR	000002
7		C_FLRMATF	/BIC/C_FLRMATF		FL Raw Material Critical Flag	CHAR	000001
8			SAVE_FLRMATF		FL Raw Material Critical Flag Save	CHAR	000001
9		K_MIXRAT	/BIC/K_MIXRAT		Mixing ratio	QUAN	000017
10		K_USGFACT	/BIC/K_USGFACT		Usage Factor	DEC	000017
11		K_ADJRAT	/BIC/K_ADJRAT		Adjusted Mixing Ratio	DEC	000017

Rule	Rule Name	Pos	Key	InfoObject	Icon	Descript.	Data t	Lngh	Int
1	0LOGSYS	1		0LOGSYS		Source System	CHAR	000010	
2	C_MATNR2	2		C_MATNR2		Material	CHAR	000018	
3	C_PLANT	3		C_PLANT		Plant	CHAR	000004	
4	OCALQUARTER	4		OCALQUARTER		Calendar Year/Quarter	NUMC	000005	
5	CPFCTR1_2	5		CPFCTR1_2		BFC Global Business Unit	CHAR	000002	
6	C_FLRMATF	6		C_FLRMATF		FL Raw Material Critical Flag	CHAR	000001	
7	ORECORDMODE	7		ORECORDMODE		BW Delta Process: Update Mode	CHAR	000001	
8	K_MIXRAT	8		K_MIXRAT		Mixing ratio	QUAN	000017	
9	K_USGFACT	9		K_USGFACT		Usage Factor	DEC	000017	
10	Formula	10		K_ADJRAT		Adjusted Mixing Ratio	DEC	000017	

**InfoProvider : ABCOPC18 FL - Raw Mat Make or Buy - Buffer**

FL - Raw Mat Make or Buy - Buffer	ABCOPC18	Manage
ADSO ABCOPC17 -> ADSO ABCOPC18	00AJEVJX6ERYFH24U	Change
FL - Raw Mat Make or Buy	ABCOPC17	Manage InfoProviders
TRSF: C_FLRMAT -> ABCOPC18	0JBWU6OY5RRNY5OX	Change
FL Raw Material Filter (Attributes)	ATTRIBUTES C_FLRM#	Manage InfoProviders
Data Transfer Processes	ABCOPC18	Create Data Trans
DTP: ABCOPC17 -> ABCOPC18 Full	DTP_04B9BB0HZDMR	Change
DTP: C_FLRMAT -> ABCOPC18 - Full Internal / External	DTP_04B9BB0HZDMR	Change

ADSO in Activation + Change Log mode, with GBU and Critical flag not in key to allow value change from Master Data.

The structure of the Buffer ADSO is :

- Source system (0LOGSYS)
- Material (C\_MATNR2)
- Plant (C\_PLANT)
- Quarter (OCALQUARTER)
- GBU (CPFCTR1\_2)
- Flag critical raw material (C\_FLRMATF)
- Usage Factor (K\_USGFACT)
- Mixing ratio (K\_MIXRAT)
- Adjusted Mixing ratio (K\_ADJRAT)

**Transformation ADSO ABCOPC17 -> ADSO ABCOPC18**

A 1:1 copy of all records from Planning ADSO.

The Critical Raw Mat flag is cleared, and saved into an additional field SAVE\_FLRMATF.

When a new load is done from the Critical Raw Material Master Data, the flag is populated with the refreshed value, and the "Adjusted Mixing Ratio" is computed with the relevant rule if the new flag is different from the saved one.

The screenshot shows a transformation configuration for 'ADSO ABCOCP17 -> ADSO ABCOCP18'. The source is 'FL - Raw Mat Make or Buy (ABCOCP17)' and the target is 'FL - Raw Mat Make or Buy - Buffer (ABCOCP18)'. Below are two tables showing field mappings:

FL - Raw Mat Make or Buy (ABCOCP17)					FL - Raw Mat Make or Buy - Buffer (ABCOCP18) Rule Group: Standard Group										
Pos	Key	InfoObject	Icon	Descr.	Data t	Length	Pos	Key	InfoObject	Field	Icon	Descr.	Data t	Length	Int
1		OLOGSYS		Source System	CHAR	000010	1		OLOGSYS	LOGSYS		Source System	CHAR	000010	
2		C_MATNR2		Material	CHAR	000018	2		C_MATNR2	/BIC/C_MATNR2		Material	CHAR	000018	
3		C_PLANT		Plant	CHAR	000004	3		C_PLANT	/BIC/C_PLANT		Plant	CHAR	000004	
4		0CALQUARTER		Calendar Year/Quarter	NUMC	000005	4		0CALQUARTER	CALQUARTER		Calendar Year/Quarter	NUMC	000005	
5		CPFCTR_1_2		BFC Global Business Unit	CHAR	000002	6		CPFCTR_1_2	/BIC/CPFCTR_1_2		BFC Global Business Unit	CHAR	000002	
6		C_FLRMATF		FL Raw Material Critical Flag	CHAR	000001	7		C_FLRMATF	/BIC/C_FLRMATF		FL Raw Material Critical Flag	CHAR	000001	
7		0RECORDMODE		BW Delta Process: Update Mode	CHAR	000001	8		SAVE_FLRMATF	SAVE_FLRMATF		FL Raw Material Critical Flag Save	CHAR	000001	
8		K_MIXRAT		Mixing ratio	QUAN	000017	9		K_MIXRAT	/BIC/K_MIXRAT		Mixing ratio	QUAN	000017	
9		K_USGFACT		Usage Factor	DEC	000017	10		K_USGFACT	/BIC/K_USGFACT		Usage Factor	DEC	000017	
10		K_ADJRAT		Adjusted Mixing Ratio	DEC	000017	11		K_ADJRAT	/BIC/K_ADJRAT		Adjusted Mixing Ratio	DEC	000017	

**Transformation TRSF: C\_FLRMAT -> ABCOCP18**

Extraction of the updated Critical Raw Materials from source system PF1 ('I' and 'E').

A 1:1 mapping is done for all matching characteristics, except 0CALQUARTER which is determined by a formula.

The 3 key figures are not populated from the Master Data, but only by the loading from Planning ADSO.

4 different rule groups are created, each one with the same mappings, except the Quarter formula sliding by 1 quarter to cover the 4 coming quarters.

The screenshot shows a transformation configuration for 'TRSF: C\_FLRMAT -> ABCOCP18'. The source is 'FL Raw Material Filter (C\_FLRMAT)' and the target is 'FL - Raw Mat Make or Buy - Buffer (ABCOCP18)'. A dropdown menu is open over the 'FL Raw Material Filter (C\_FLRMAT)' table, showing options: 'Standard Group', 'Technical Group', 'Month + 2', 'Month + 4', 'Month + 3', and 'New Rule Group'. The 'FL - Raw Mat Make or Buy - Buffer (ABCOCP18) Rule Group: Standard Group' table is also visible, showing field mappings similar to the previous screenshot.

Quarter formulas :

Standard Group : DATE\_QUARTER( SYST-DATUM )

Month + 2 Group : DATE\_QUARTER( ADD\_TO\_DATE( CONCATENATE( DATE\_MONTH( Current Date ), 15 ), 90 ) )

Month + 3 Group : DATE\_QUARTER( ADD\_TO\_DATE( CONCATENATE( DATE\_MONTH( Current Date ), 15 ), 180 ) )

Month + 4 Group : DATE\_QUARTER( ADD\_TO\_DATE( CONCATENATE( DATE\_MONTH( Current Date ), 15 ), 270 ) )

**Loading frequency**

Daily

# Reporting

Data is displayed in a Workbook built on a single query with Planning functionalities.

The query is built on an Aggregation Level, based on a Composite Provider encapsulating the Planning ADSO.

## Reporting Layer

### Aggregation Level

**ALCOPC15** FL - Raw Mat Make or Buy

FL - Raw Mat Make or Buy	ALCOPC15	Change	
FLICM - SPP Raw Mat Make or Buy	F_ALCOPC15_0001	Change	InfoProviders
FL - Raw Mat Make or Buy	CPCOPC13	Change	InfoProviders
FL - Raw Mat Make or Buy	ABCOPC17	Manage	InfoProviders
FLICM - SPP Raw Mat Make or Buy compute	PF_ALCOPC15_0001	Change	InfoProviders

The Aggregation Level is encapsulating the Composite Provider, with the exact same output structure.

All characteristics and key figures of the ADSO are selected to guarantee the Planning functionalities in the query/workbook.

### Planning Function

**PF\_ALCOPC15\_0001** FLICM - SPP Raw Mat Make or Buy compute

The Planning Function is called from the workbook when saving data.

Key Figure "Adjusted Mixing Ratio" is computed according to the Critical Raw Mat flag ('I' or 'E')

**Display Planning Function PF\_ALCOPC15\_0001**

Navigation: Back, Forward, List, Info, Characteristic Usage, Edit, Lock

Buttons: Create, Delete, Parameter, Copy, Refresh, Up, Down

Option	Selections	Technical Information
	C_FLRMATF: I	C_FLRMATF: I
	C_FLRMATF: E	C_FLRMATF: E

Operand display { Key Figure Name }

Buttons: Operands, Data Types, Info, Pretty Printer, Check HDB

```
1 K_ADJRAT = (K_MIXRAT * K_USGFACT) / 100.
```

**Display Planning Function PF\_ALCOPC15\_0001**

← → | Characteristic Usage

Create Delete Parameter

Conditions

Option	Selections	Technical Information
	C_FLRMATF: I	C_FLRMATF: I
	C_FLRMATF: E	C_FLRMATF: E

Operand display { Key Figure Name }

Operands Data Types Info Pretty Printer Check HDB

```
1 K_ADJRAT = ((100 - K_MIXRAT) * K_USGFACT) / 100.
```

## Virtual Layer

### Composite Providers

CPCOPC13 FL - Raw Mat Make or Buy

FL - Raw Mat Make or Buy	CPCOPC13	Change
FL - Raw Mat Make or Buy	ABCOPC17	Manage InfoProviders
ADSO ABCOPC18 -> ADSO ABCOPC17	0LYTP836GXQYUU0FF	Change
Data Transfer Processes	ABCOPC17	Create Data Trans

The Composite Provider is encapsulating the Planning ADSO, with the exact same output structure.

The navigational attribute C\_PLANT\_C\_AUTHMA is added to handle authorizations on Scope in the query.

## Reporting

### BW Query

<b>Description</b>	FL - Raw Material Make or Buy
<b>Technical Name</b>	BW_QRY_ALCOPC15_0001
<b>Application</b>	COPC
<b>Info-provider</b>	ALCOPC15
<b>Usage type</b>	Planning
<b>Expected users</b>	

### Global properties

General

Technical Name: BW\_QRY\_ALCOPC15\_0001

Description: FL - Raw Material Make or Buy

InfoProvider: ALCOPC15

Key Date: <default>

Output Settings

- Adjust Formatting after Refreshing
- Suppress Repeated Key Values
- Show Scaling for Measures

Sign Format: Before, for example -1

Zero Format: With Currency/Unit

Custom Zero Format:

Result Location

- Rows:  Above  Below
- Columns:  Left  Right

Zero Suppression

- Applies to:  Rows  Columns

Condition: Only result value must be zero

Remote Access

- By Easy Query
- By OLE DB for OLAP
- By OData
- External SAP HANA View

Universal Display Hierarchy

- Active on rows  
Expand to Level: 0
- Active on columns  
Expand to Level: 0

Variables Order

Planning

- Start Query in Input Mode
- Symmetrical Calculation Mode
- New Lines on Every Level
- Always Disaggregate to All Valid Combinations

## Variables

### Definitions

Variable Name	Info-object	Selection Type	Required	Description/Explanation
V_C_PLANT_0012	C_PLANT	Authorization with Input	No	Plant
V_CPFCTR1_2_0006	CPFCTR1_2	Authorization with Input	No	Global business Unit
V_C_MATNR2_0001	C_MATNR2	Select Option	No	Raw Material
V_C_AUTHMA_0001	C_PLANT__C_AUTHMA	Authorization	No	Authorization Scope

### Variable Sequence

Variables Order

Variables

- [V\_CPFCTR1\_2\_0006] GBU (Select Optional, Optional, Auth)
- [V\_C\_PLANT\_0012] Plant (Authorization with input select option)
- [V\_C\_MATNR2\_0001] Material (Select option, Optional)

## Filters

### Filter: Fixed Values

- [0LOGSYS] Source System
- ▼ [C\_MATNR2] Material
  - [V\_C\_MATNR2\_0001] Material (Select option, Optional)
- ▼ [C\_PLANT] Plant
  - [V\_C\_PLANT\_0012] Plant (Authorization with input select option)
- ▼ [C\_PLANT\_C\_AUTHMA] Authorization Scope
  - [V\_C\_AUTHMA\_0001] Authorization Scope (Authorization, No input)
- ▼ [0INFOPROV] InfoProvider
  - [ABCOPC17] FL - Raw Mat Make or Buy
- ▼ [CPFCTR1\_2] BFC Global Business Unit
  - [V\_CPFCTR1\_2\_0006] GBU (Select Optional, Optional, Auth)

## Key figures

**Columns**

- ▼ Key Figures
  - [K\_MIXRAT] Mixing ratio
  - [K\_USGFACT] Usage Factor
  - [0CALQUARTER] Calendar Year/Quarter

**Properties**

General | Conversion | Calculations | **Planning**

**Planning**

Input-Ready:

Disaggregation:

Distribution:

Data Extension:

**Columns**

- ▼ Key Figures
  - [K\_MIXRAT] Mixing ratio
  - [K\_USGFACT] Usage Factor
  - [0CALQUARTER] Calendar Year/Quarter

**Properties**

General | Conversion | Calculations | **Planning**

**Planning**

Input-Ready:

Disaggregation:

Distribution:

Data Extension:

## Characteristics

- Rows**
- [0LOGSYS] Source System
  - [C\_MATNR2] Material
  - [C\_PLANT] Plant
  - [CPFCTR1\_2] BFC Global Business Unit
  - [C\_FLRMATF] FL Raw Material Critical Flag
  - [C\_PLANT\_C\_AUTHMA] Authorization Scope

## Cells

N/A

## Conditions

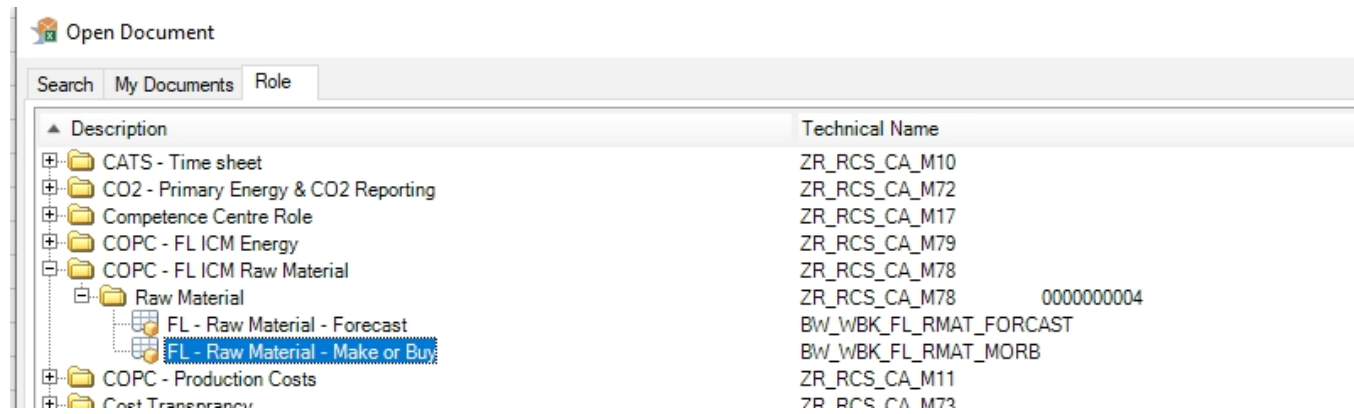
N/A

## Exceptions

N/A

## BW Workbook

<b>Description</b>	FL - Raw Material - Make or Buy
<b>Technical Name</b>	<b>BW_WBK_FL_RMAT_MORB</b>
<b>Application</b>	<i>COPC</i>



The screenshot shows the SAP Open Document interface. The left pane displays a tree view of folders under the 'Description' header. The right pane displays a table with 'Technical Name' for each folder. The folder 'FL - Raw Material - Make or Buy' is selected and highlighted in blue.

Description	Technical Name
CATS - Time sheet	ZR_RCS_CA_M10
CO2 - Primary Energy & CO2 Reporting	ZR_RCS_CA_M72
Competence Centre Role	ZR_RCS_CA_M17
COPC - FL ICM Energy	ZR_RCS_CA_M79
COPC - FL ICM Raw Material	ZR_RCS_CA_M78
Raw Material	ZR_RCS_CA_M78 0000000004
FL - Raw Material - Forecast	BW_WBK_FL_RMAT_FORCAST
<b>FL - Raw Material - Make or Buy</b>	<b>BW_WBK_FL_RMAT_MORB</b>
COPC - Production Costs	ZR_RCS_CA_M11
Cost Transparency	ZR_RCS_CA_M72

## Prompt

Prompts

Use Variant  [Save] [Cancel]

Prompt Summary

Search variables... [Search]

- GBU (Select Optional, Optional, Auth): [Up] [Down]
- Plant (Authorization with input select option): [Up] [Down]
- Material (Select option, Optional): [Up] [Down]

Specify Value for Prompts

[V\_CPFCTR1\_2\_0006] GBU (Select Optional, Optional,...) = [Dropdown] [Input] [Refresh] [Reset] [Add]

[V\_C\_PLANT\_0012] Plant (Authorization with input se... = [Dropdown] [Input] [Refresh] [Reset] [Add]

[V\_C\_MATNR2\_0001] Material (Select option, Optional) = [Dropdown] [Input] [Refresh] [Reset] [Add]

Display [Dropdown] Clear All [Button] OK [Button] Cancel [Button]

## Layout

FL - Raw Material - Make or Buy

Last Refreshed mardi, mars 7, 2023 11:30:09 AM

Active Filter  
Planning: Key 07.03.2023

Confirm your new value and save in Database  
[Confirm Plan Data (Save)]

Source System	Material	Plant	BFC Global Business Unit	Cal. Year/Quarter	Mixing ratio				Usage factor					
					Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2023	Q2 2023	Q3 2023	Q4 2023		
SF1 Client 020	32654	CI2 L	TAN	SLVFR-FR /TAVAU (PVDC)	SPECIALTY POLYMERS	I	72	56	89	86	1,33	1,33	1,33	1,33
	33626	VCM	TAN	SLVFR-FR /TAVAU (PVDC)	SPECIALTY POLYMERS	I	72	56	89	86	1,15	1,15	1,15	1,15
	35631	S142b *EXT	TAVF	SLVFR-FR /TAVAU (VF2)	SPECIALTY POLYMERS	E	72	56	89	86	1,59	1,59	1,59	1,59
	54721	S142b ARKEMA *ARK	TAVF	SLVFR-FR /TAVAU (VF2)	SPECIALTY POLYMERS	E	72	56	89	86	0,00	0,00	0,00	0,00
	103059	LIME WATER	TAVF	SLVFR-FR /TAVAU (VF2)	SPECIALTY POLYMERS	I	72	56	89	86	0,61	0,61	0,61	0,61
	205573	HF 100 * PMP GR [BM]	TAVF	SLVFR-FR /TAVAU (VF2)	SPECIALTY POLYMERS	I	72	56	89	86	0,70	0,70	0,70	0,70

## Macro VBA

```

(General) [Dropdown] (Declarations) [Dropdown]
Private Sub Save_Click()
    Dim Var As Integer
    Dim auth As Variant

    Dim lResult As Long
    lResult = Application.Run("SAPEXecutePlanningFunction", "PF_1")
    If lResult = 0 Then
        MsgBox "Problem with Planning Function call" & vbCrLf, vbYesOnly + vbExclamation
    End If

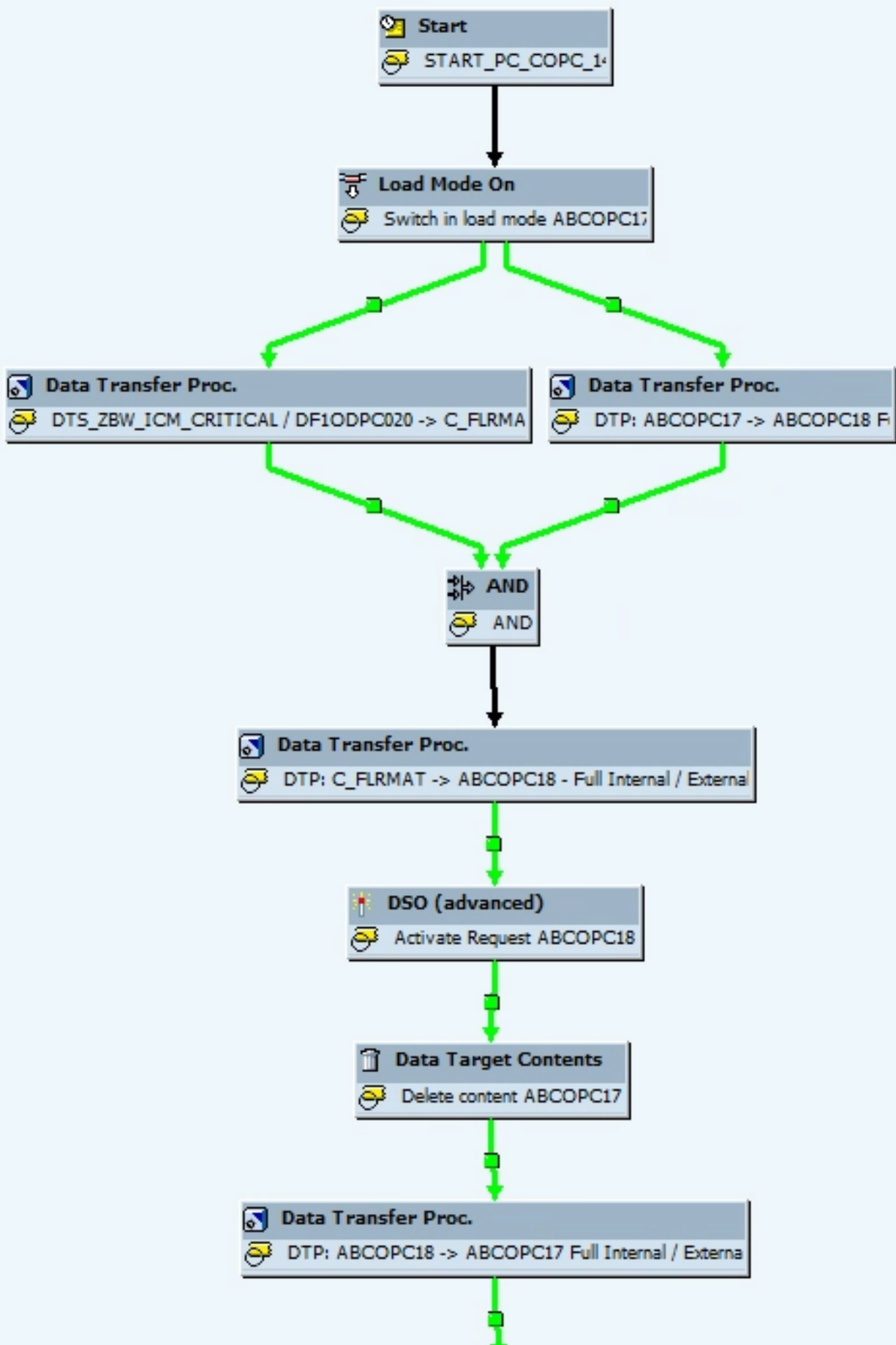
    lResult = Application.Run("SAPEXecuteCommand", "PlanDataSave")
    If lResult = 0 Then
        MsgBox "No data has been saved." & vbCrLf & "Maybe no data has been modified or you are missing some authorizations.", vbYesOnly + vbExclamation
    End If
End Sub

```

## Process Chains

PC\_COPC\_14 COPC: TD - D - RMAT Make or Buy Panning (Monthly)

Scheduled daily





**Plan Mode On**



Switch in Planning mode ABCOPC17