

# Technical Documentation - Inventory management report

- 1 [Access Management](#)
- 2 [DataFlow](#)
  - 2.1 [Overview](#)
  - 2.2 [Technical Rules on Workbench](#)
  - 2.3 [Material Movement \(ABMMIM03\\*\)](#)
  - 2.4 [Price control \(AAMMIM02\\*\)](#)
  - 2.5 [Material movements - Price \(APMMIM02\\* / APMMIM04\\*\)](#)
  - 2.6 [Material stock non cumulative \(ABMMIM02\\*\)](#)
  - 2.7 [Material stock - Initialization \(ABMMIM01\\*\)](#)
  - 2.8 [Reporting](#)
  - 2.9 [Main queries](#)
- 3 [Main functionalities](#)
- 4 [SAP Analytics Cloud Documentation](#)
  - 4.1 [Dependencies with other applications](#)
- 5 [Data Loading](#)
  - 5.1 [Info Providers and objects loaded](#)
  - 5.2 [Loading frequency](#)
- 6 [Data Quality Control](#)
- 7 [Operational Documentation](#)
  - 7.1 [Procedures](#)
  - 7.2 [Scheduling](#)
  - 7.3 [Monitoring](#)
  - 7.4 [Error Handling](#)
  - 7.5 [Known Bugs](#)
  - 7.6 [Roadmap](#)

## Access Management

### Roles & 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_M03  | IM Stocks                      | Menu role                                               |
| ZR_RCS_IM_A02  | Stock Analysis - End User Role | Gives user access to queries on area AREA_MD, AREA_MMIC |
| ZP2_RCS_IM_A02 | Stock Analysis - End User Role | Linked to authorization role ZP2_IM                     |

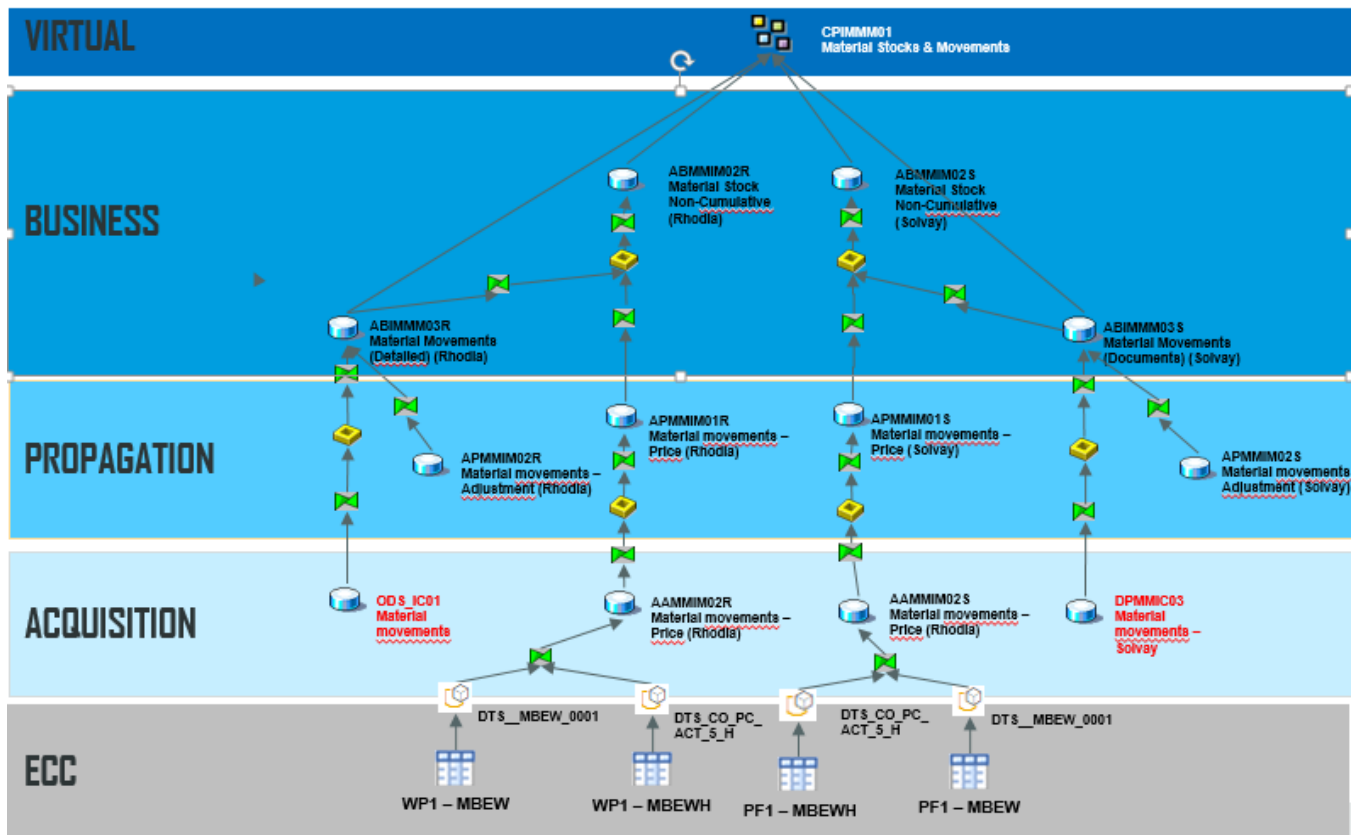
### Authorization Objects

List of authorization objects mandatory for the application.

| Authorization object | Explanation                           |
|----------------------|---------------------------------------|
| CPFCTR1_2            | GBU, role: ZR_*_CA_P05                |
| C_COMPDE__C_AUTHMA   | Authorization scope role: ZR_*_CA_P00 |
| C_COMPDE             | Company, role: ZR_*_CA_P01            |

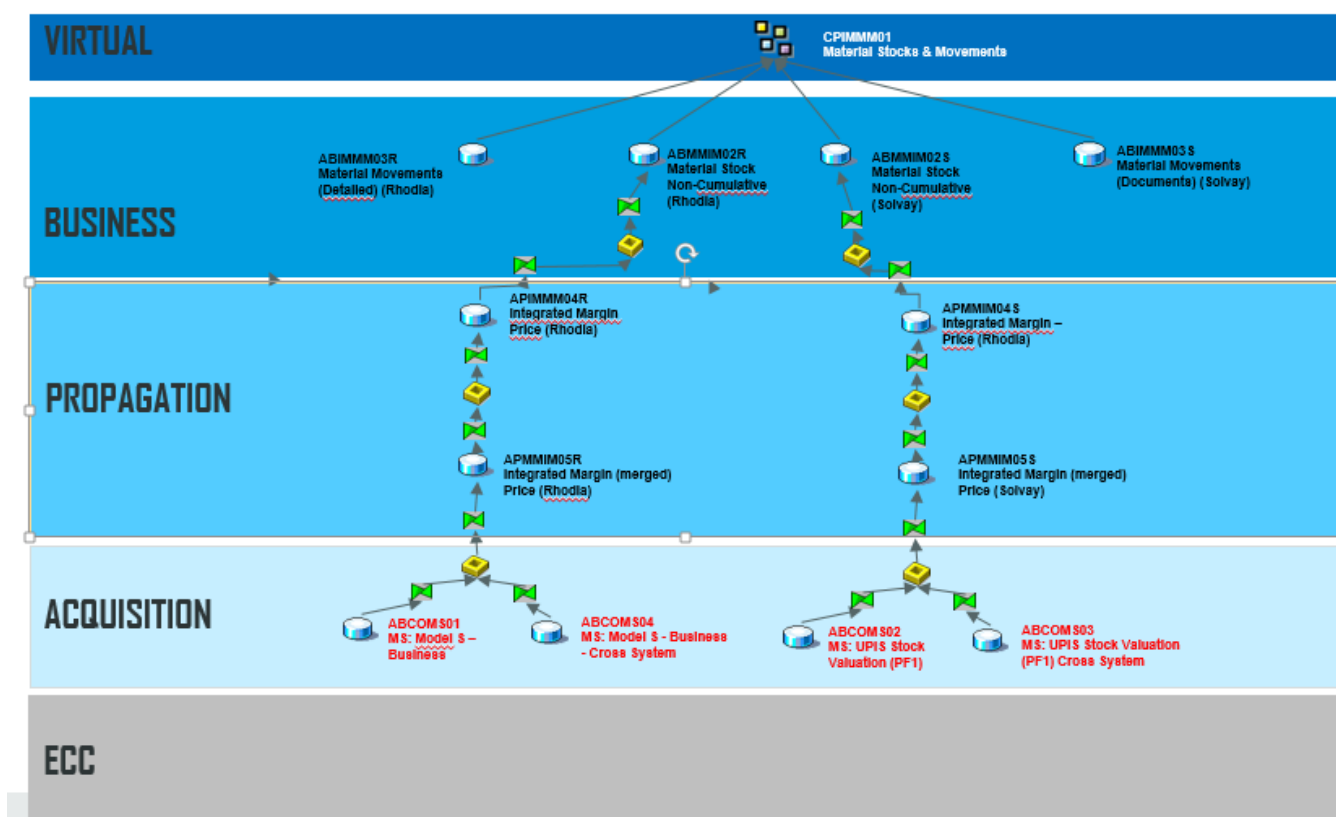
## DataFlow

### Overview



All aDSO above the acquisition layer (basically a provider with the same fields from datasource) uses an infosource in the link to become easier the implementation of different type of code: AMDP (recommend for look up at db level) and ABAP (better in treatments at row level).

The integrated price has a flow similar to standard price (APMMIM01\*) using a cross look up information with material movements available. The flow has as origin the data from the tables in model S, that are aggregated by plant, material, batch e period before the creation of the revaluation process.



## Technical Rules on Workbench

### • Material Movement (ABMMIM03\*)

Provider used for presenting the informations at material document level, could be used by operational reports showing the movements details for a specific period.

#### AMDP

- Controlling Area - If the controlling area is null, get the data from the corresponding attribute of "company code" (c\_compcde);
- Sub-activity 2 - Get the data from the attribute of technical object "Material plant 3" (c\_matpnt3);
- Sub-activity - Get the data from the attribute of technical object "Material plant 3" (c\_matpnt3);
- GBU - Get the data from the attribute of "Sub-activity 2" (c\_subact2);
- Country (GBU Zone) - Get the data from the attribute of "Customer ID" (c\_custid);
- Material conversion - If the corresponding material and unit of measure is not convertible into 'KG' according to the DSO UOMCMAT2, the object is flagged.

#### ABAP ME: ZCL\_IMM\_BUSN=>ME\_ABIMM03

- Valuation type - Treat invalid char;
- Customer / GBU Zone - Empty if the stocktype not is 'K', 'L', 'M', 'N' or 'O';
- Vendor - Empty if the stocktype not is 'Q', 'R' or 'S' or stock category is not 'K' or 'Q';
- Consignation quantity stock (issued) - Stock relevant = 1, transaction key = '100', '101', '104', '105', '106' or '110', application = 'MM', stock category = 'K' or stock category = " and stock type contain 'LEK';
- Quantity stock (issued) - Stock relevant = 1, application = 'MM' and transaction key = '100', '101', '104', '105', '106' or '110';
- Consignation quantity stock (received) - Stock relevant = 1, transaction key = '000', '001', '004', '005', '006' or '010', application = 'MM', stock category = 'K' or stock category = " and stock type contain 'LEK';
- Quantity stock (received) - Stock relevant = 1, application = 'MM' and transaction key = '000', '001', '004', '005', '006' or '010';

### Price control (AAMMIM02\*)

Acquisition layer presenting all the prices variation according to the tables MBEWH and MBEW and their respective change date.

#### ABAP

- Valuation type - Treat invalid char;

- Calendar day - Convert the timestamp into date, if timestamp is null, concatenate the information from year, month and day 01. If the date keeps initial, the entire record is removed from flow;
- Price variation - If the total value is not initial (not valuated stock), check the price condition (S - Standard or V - Average) to assign the corresponding value.
- The record is only stored by the delta process if the date is bigger than the last one stored for the same key (material, plant and valuation type). This avoid the check done by the post process done in the propagation layer, when the process checks the variance of price between days.

## Material movements - Price (APMMIM02\* / APMMIM04\*)

Propagation layer used to present the difference of unit price among the calendar days.

### AMDP

- The main purpose of this process is to keep only the Plant, material and valuation type that suffer some change in the unit price between the date coming from load and the previous date available for the same key.
- The process is able to identify changes at price control, price per unit and/or amount.

## Material stock non cumulative (ABMMIM02\*)

Non cumulative provider to present the stock evolution at quantity and value information.

### AMDP

- Amount Valuated Stock (inbound / outbound) - Unit price from APMMIM02\* based on the same position from posting date multiplied by the quantity according to each material, plant and valuation type. The revaluation is done during the loads from APMMIM02\* > ABMMIM02\*, considering the difference from the position of the new unit price minus the unit price applied during the previous load from ABMMIM03\* > ABMMIM02\*.
  - The reference date of previous unit price revaluation is stored in the object Price date (0price\_date)

## Material stock - Initialization (ABMMIM01\*)

Provider used to create the balance from the initial stock according to the quantities available in the non cumulative, the process creates a record with the difference of quantities into the first posting date available according to the key in the provider ABMMIM02\*.

### AMDP

- Complement the master data exactly like the treatments done in the provider ABMMIM03\* for the objects controlling area, sub-activity, sub-activity 2 and others;
- It's stored in the provider all those data that is not available in the provider ABMMIM02\* or those the quantities doesn't match between the providers.

## Reporting

### Main queries

| Technical Query Name     | Query Name                                         | Detail                                                              |
|--------------------------|----------------------------------------------------|---------------------------------------------------------------------|
| BW_QRY_CPIMMM01_0004     | MM-IM: Master Query (Core)                         | Master query with all the main objects available in the composite   |
| BW_QRY_CPIMMM01_0005     | MM-IM: Slow Movements Obsolete Goods (SMOG) (Core) | Slow movements, obsolete and block batches view                     |
| BW_QRY_CPIMMM01_0003     | MM-IM: SMOG Evolution 3 months (Core)              | Slow movements, obsolete and block batches view evolution           |
| BW_QRY_CPIMMM01_0011     | MM-IM: SMOG Evolution (Only Sotck Type)            | Query used as source for provider ABMMIM07* for the blocked stock   |
| BW_QRY_CPIMMM01_0007     | MM-IM: Actual Volume Produced (E2E VC Dashboard)   |                                                                     |
| QV_BW_QRY_CPIMMM01_0001  | MM-IM: Usage Decision (QV Query)                   | Query source for Qlik application for Quality Dashboard UD KPI.     |
| SAC_BW_QRY_CPIMMM01_0001 | MM-IM: SAC Dashboard Detail (Core)                 | Query source for full load in the model Total Stock (detail) in SAC |
| SAC_BW_QRY_CPIMMM01_0002 | MM-IM: SAC Dashboard Detail (M-1 > M) (Core)       | Query source for delta in the model Total Stock (detail) in SAC     |
| BW_QRY_CPIMMM01_0002     | MM-IM: BW validation SAC (Core)                    | Query used to validate data moved to SAC                            |
| BW_QRY_CPIMMM01_0006     | MM-IM: Days of Supply (Core)                       | DOS Inventory                                                       |

|                          |                                                      |                                                    |
|--------------------------|------------------------------------------------------|----------------------------------------------------|
| BW_QRY_CPIMMM01_0008     | MM-IM: Obsolete under observation (Core)             | Query for anticipation (obsolete)                  |
| BW_QRY_CPIMMM01_0009     | MM-IM: Slow moving under observation (Core)          | Query for anticipation (slow moving)               |
| SAC_BW_QRY_CPIMMM01_0006 | MM-IM: Days of Inventory On Hand (DIOH) - Historical | SAC query DIOH (historical data / check by prompt) |
| SAC_BW_QRY_CPIMMM01_0005 | MM-IM: Days of Inventory On Hand (DIOH)              | SAC query DIOH (previous month only)               |
| SAC_BW_QRY_CPIMMM01_0004 | MM-IM: Slow Moving Anticipation (SAC)                | SAC query                                          |
| SAC_BW_QRY_CPIMMM01_0003 | MM-IM: Obsolete Anticipation (SAC)                   | SAC query                                          |
| BW_QRY_CPIMMM01_0014     | MM-IM: Days Inventory On Hand (DIOH)                 | DIOH                                               |

## Main functionalities

Main key figures

| Restrict Key Figure  | Description                                    | Object     | SIGN | OPT | Value       |
|----------------------|------------------------------------------------|------------|------|-----|-------------|
| BW_RKF_CPIMMM01_0003 | Issued Quantity: Blocked Stock                 | 0STOCKCAT  | I    | EQ  | U           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | Q           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | M           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | E           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | #           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | D           |
|                      |                                                | 1KYFNM     | I    | EQ  | 0ISSTOTSTCK |
| BW_RKF_CPIMMM01_0004 | Stock in Quality Inspection                    | 0STOCKCAT  | I    | EQ  | #           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | E           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | M           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | Q           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | U           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | B           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | L           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | O           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | R           |
| BW_RKF_CPIMMM01_0005 | Received Quantity: Stock in Quality Inspection | 1KYFNM     | I    | EQ  | 0TOTALSTCK  |
|                      |                                                | 0STOCKCAT  | I    | EQ  | U           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | Q           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | M           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | E           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | #           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | R           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | O           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | L           |
|                      |                                                | 0STOCKTYPE | I    | EQ  | B           |
| BW_RKF_CPIMMM01_0006 | Issued Quantity: Stock in Quality Inspection   | 1KYFNM     | I    | EQ  | 0RECTOTSTCK |
|                      |                                                | 0STOCKCAT  | I    | EQ  | U           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | Q           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | M           |
|                      |                                                | 0STOCKCAT  | I    | EQ  | E           |

|                      |                                     |             |   |    |             |
|----------------------|-------------------------------------|-------------|---|----|-------------|
|                      |                                     | 0STOCKCAT   | I | EQ | #           |
|                      |                                     | 0STOCKTYPE  | I | EQ | R           |
|                      |                                     | 0STOCKTYPE  | I | EQ | O           |
|                      |                                     | 0STOCKTYPE  | I | EQ | L           |
|                      |                                     | 0STOCKTYPE  | I | EQ | B           |
|                      |                                     | 1KYFNM      | I | EQ | 0ISSTOTSTCK |
| BW_RKF_CPIMMM01_0007 | Stock in Transit                    | 0STOCKTYPE  | I | EQ | F           |
|                      |                                     | 0STOCKTYPE  | I | EQ | H           |
|                      |                                     | 1KYFNM      | I | EQ | 0TOTALSTCK  |
| BW_RKF_CPIMMM01_0008 | Received Quantity: Stock in Transit | 0STOCKTYPE  | I | EQ | H           |
|                      |                                     | 0STOCKTYPE  | I | EQ | F           |
|                      |                                     | 1KYFNM      | I | EQ | 0RECTOTSTCK |
| BW_RKF_CPIMMM01_0009 | Issued Quantity: Stock in Transit   | 0STOCKTYPE  | I | EQ | H           |
|                      |                                     | 0STOCKTYPE  | I | EQ | F           |
|                      |                                     | 1KYFNM      | I | EQ | 0ISSTOTSTCK |
| BW_RKF_CPIMMM01_0010 | Unrestricted Stock                  | 0STOCKCAT   | I | EQ | U           |
|                      |                                     | 0STOCKCAT   | I | EQ | Q           |
|                      |                                     | 0STOCKCAT   | I | EQ | M           |
|                      |                                     | 0STOCKCAT   | I | EQ | E           |
|                      |                                     | 0STOCKCAT   | I | EQ | #           |
|                      |                                     | 0STOCKTYPE  | I | EQ | A           |
|                      |                                     | 1KYFNM      | I | EQ | 0TOTALSTCK  |
| BW_RKF_CPIMMM01_0011 | Vendor Consi Consumption            | 0BWAPPLNM   | I | EQ | MM          |
|                      |                                     | 0INFOPROV   | I | EQ | ABIMMM03S   |
|                      |                                     | 0INFOPROV   | I | EQ | ABIMMM03R   |
|                      |                                     | 0PROCESSKEY | I | EQ | 100         |
|                      |                                     | 0PROCESSKEY | I | EQ | 101         |
|                      |                                     | 0PROCESSKEY | I | EQ | 104         |
|                      |                                     | 0PROCESSKEY | I | EQ | 105         |
|                      |                                     | 0PROCESSKEY | I | EQ | 106         |
|                      |                                     | 0PROCESSKEY | I | EQ | 110         |
|                      |                                     | 0STOCKCAT   | I | EQ | K           |
|                      |                                     | 0STOCKRELEV | I | EQ | 1           |
|                      |                                     | 1KYFNM      | I | EQ | 0CPSVLC     |
| BW_RKF_CPIMMM01_0012 | Scrap Quantity                      | 0BWAPPLNM   | I | EQ | MM          |
|                      |                                     | 0INFOPROV   | I | EQ | ABIMMM03S   |
|                      |                                     | 0INFOPROV   | I | EQ | ABIMMM03R   |
|                      |                                     | 1KYFNM      | I | EQ | 0CPQUABU    |
|                      |                                     | C_MOVETYP   | I | EQ | 551         |
|                      |                                     | C_MOVETYP   | I | EQ | 552         |
|                      |                                     | C_MOVETYP   | I | EQ | 553         |
|                      |                                     | C_MOVETYP   | I | EQ | 554         |
|                      |                                     | C_MOVETYP   | I | EQ | 555         |
|                      |                                     | C_MOVETYP   | I | EQ | 556         |
| BW_RKF_CPIMMM01_0013 | Scrap Value                         | 0BWAPPLNM   | I | EQ | MM          |
|                      |                                     | 0INFOPROV   | I | EQ | ABIMMM03S   |
|                      |                                     | 0INFOPROV   | I | EQ | ABIMMM03R   |

|                      |                                             |            |   |    |            |
|----------------------|---------------------------------------------|------------|---|----|------------|
|                      |                                             | 1KYFNM     | I | EQ | 0CPSVLC    |
|                      |                                             | C_MOVETYP  | I | EQ | 556        |
|                      |                                             | C_MOVETYP  | I | EQ | 555        |
|                      |                                             | C_MOVETYP  | I | EQ | 554        |
|                      |                                             | C_MOVETYP  | I | EQ | 553        |
|                      |                                             | C_MOVETYP  | I | EQ | 552        |
|                      |                                             | C_MOVETYP  | I | EQ | 551        |
| BW_RKF_CPIMMM01_0014 | Project Stock in Q                          | 0STOCKCAT  | I | EQ | Q          |
|                      |                                             | 0STOCKTYPE | I | EQ | R          |
|                      |                                             | 0STOCKTYPE | I | EQ | O          |
|                      |                                             | 0STOCKTYPE | I | EQ | L          |
|                      |                                             | 0STOCKTYPE | I | EQ | B          |
|                      |                                             | 1KYFNM     | I | EQ | 0TOTALSTCK |
| BW_RKF_CPIMMM01_0015 | Sales Order Stock in Q                      | 0STOCKCAT  | I | EQ | E          |
|                      |                                             | 0STOCKTYPE | I | EQ | R          |
|                      |                                             | 0STOCKTYPE | I | EQ | O          |
|                      |                                             | 0STOCKTYPE | I | EQ | L          |
|                      |                                             | 0STOCKTYPE | I | EQ | B          |
|                      |                                             | 1KYFNM     | I | EQ | 0TOTALSTCK |
| BW_RKF_CPIMMM01_0016 | Returnable Transport Packaging in Q         | 0STOCKCAT  | I | EQ | M          |
|                      |                                             | 0STOCKTYPE | I | EQ | R          |
|                      |                                             | 0STOCKTYPE | I | EQ | O          |
|                      |                                             | 0STOCKTYPE | I | EQ | L          |
|                      |                                             | 0STOCKTYPE | I | EQ | B          |
|                      |                                             | 1KYFNM     | I | EQ | 0TOTALSTCK |
| BW_RKF_CPIMMM01_0017 | Returnable Packaging Stock at Customer in Q | 0STOCKCAT  | I | EQ | Q          |
|                      |                                             | 0STOCKCAT  | I | EQ | M          |
|                      |                                             | 0STOCKCAT  | I | EQ | E          |
|                      |                                             | 0STOCKCAT  | I | EQ | #          |
|                      |                                             | 0STOCKCAT  | I | EQ | U          |
|                      |                                             | 0STOCKTYPE | I | EQ | O          |
|                      |                                             | 1KYFNM     | I | EQ | 0TOTALSTCK |
| BW_RKF_CPIMMM01_0018 | Stock of Material provided to Vendor in Q   | 0STOCKCAT  | I | EQ | U          |
|                      |                                             | 0STOCKCAT  | I | EQ | Q          |
|                      |                                             | 0STOCKCAT  | I | EQ | M          |
|                      |                                             | 0STOCKCAT  | I | EQ | E          |
|                      |                                             | 0STOCKCAT  | I | EQ | #          |
|                      |                                             | 0STOCKTYPE | I | EQ | R          |
|                      |                                             | 1KYFNM     | I | EQ | 0TOTALSTCK |
| BW_RKF_CPIMMM01_0019 | Stock in Quality Inspection (own Storage)   | 0STOCKCAT  | I | EQ | U          |
|                      |                                             | 0STOCKCAT  | I | EQ | Q          |
|                      |                                             | 0STOCKCAT  | I | EQ | M          |
|                      |                                             | 0STOCKCAT  | I | EQ | E          |
|                      |                                             | 0STOCKCAT  | I | EQ | #          |
|                      |                                             | 0STOCKTYPE | I | EQ | B          |
|                      |                                             | 1KYFNM     | I | EQ | 0TOTALSTCK |
| BW_RKF_CPIMMM01_0020 | Project Stock Blocked                       | 0STOCKCAT  | I | EQ | Q          |
|                      |                                             |            |   |    |            |

|                      |                                                |            |   |    |                      |
|----------------------|------------------------------------------------|------------|---|----|----------------------|
|                      |                                                | 0STOCKTYPE | I | EQ | D                    |
|                      |                                                | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0021 | Sales Order Stock Blocked                      | 0STOCKCAT  | I | EQ | E                    |
|                      |                                                | 0STOCKTYPE | I | EQ | D                    |
|                      |                                                | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0022 | Returnable Transport Packaging Blocked         | 0STOCKCAT  | I | EQ | M                    |
|                      |                                                | 0STOCKTYPE | I | EQ | D                    |
|                      |                                                | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0023 | Project Stock in Transit                       | 0STOCKCAT  | I | EQ | Q                    |
|                      |                                                | 0STOCKTYPE | I | EQ | H                    |
|                      |                                                | 0STOCKTYPE | I | EQ | F                    |
|                      |                                                | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0024 | Sales Order Stock in Transit                   | 0STOCKCAT  | I | EQ | E                    |
|                      |                                                | 0STOCKTYPE | I | EQ | H                    |
|                      |                                                | 0STOCKTYPE | I | EQ | F                    |
|                      |                                                | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0025 | Vendor Consignment Stock Quantity Receipt      | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0030 |
| BW_RKF_CPIMMM01_0026 | Vendor Consignment Stock Quantity Issued       | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0031 |
| BW_RKF_CPIMMM01_0027 | Vendor Consignment Stock                       | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0028 | Vendor Consignment Stock in Q                  | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                | 0STOCKTYPE | I | EQ | B                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0029 | Vendor Consignment Stock Unrestricted          | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                | 0STOCKTYPE | I | EQ | A                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0030 | Vendor Consignment Stock Restricted            | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                | 0STOCKTYPE | I | EQ | E                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0031 | Vendor Consignment Stock Blocked               | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                | 0STOCKTYPE | I | EQ | D                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0032 | Consignment Stock at Customer Quantity Receipt | 0STOCKTYPE | I | EQ | L                    |
|                      |                                                | 0STOCKTYPE | I | EQ | K                    |
|                      |                                                | 0STOCKTYPE | I | EQ | M                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0030 |
| BW_RKF_CPIMMM01_0033 | Consignment Stock at Customer Quantity Issued  | 0STOCKTYPE | I | EQ | M                    |
|                      |                                                | 0STOCKTYPE | I | EQ | K                    |
|                      |                                                | 0STOCKTYPE | I | EQ | L                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0031 |
| BW_RKF_CPIMMM01_0034 | Consignment Stock at Customer                  | 0STOCKTYPE | I | EQ | M                    |
|                      |                                                | 0STOCKTYPE | I | EQ | K                    |
|                      |                                                | 0STOCKTYPE | I | EQ | L                    |
|                      |                                                | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0035 | Consignment Stock at Customer in Q             | 0STOCKTYPE | I | EQ | L                    |
|                      |                                                |            |   |    |                      |



|                      |                                                      |            |   |    |                      |
|----------------------|------------------------------------------------------|------------|---|----|----------------------|
|                      |                                                      | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0036 | Consignment Stock at Customer Unrestricted           | 0STOCKTYPE | I | EQ | K                    |
|                      |                                                      | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0037 | Consignment Stock at Customer Restricted             | 0STOCKTYPE | I | EQ | M                    |
|                      |                                                      | 1KYFNM     | I | EQ | BW_CKF_CPIMMM01_0032 |
| BW_RKF_CPIMMM01_0038 | Quantity of Valuated Project Stock (Total)           | 0STOCKCAT  | I | EQ | Q                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0039 | Quantity of Valuated Project Stock in Q              | 0STOCKCAT  | I | EQ | Q                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | B                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0040 | Quantity of Valuated Project Stock, Unrestricted     | 0STOCKCAT  | I | EQ | Q                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | A                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0041 | Quantity of Valuated Project Stock Blocked           | 0STOCKCAT  | I | EQ | Q                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | D                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0043 | Quantity of Valuated Sales Order Stock (Total)       | 0STOCKCAT  | I | EQ | E                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0042 | Quantity of Valuated Project Stock in Transit        | 0STOCKCAT  | I | EQ | Q                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | H                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | F                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0044 | Quantity of Valuated Sales Order Stock in Q          | 0STOCKCAT  | I | EQ | E                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | B                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0045 | Quantity of Valuated Sales Order Stock, Unrestricted | 0STOCKCAT  | I | EQ | E                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | A                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0046 | Quantity of Valuated Sales Order Stock Blocked       | 0STOCKCAT  | I | EQ | E                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | D                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0047 | Quantity of Valuated Sales Order Stock in Transit    | 0STOCKCAT  | I | EQ | E                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | H                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | F                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0068 | Stock by type (SMOG)                                 | 0STOCKTYPE | I | EQ | C                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | D                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | E                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0069 | Receipt Cons Stock (Cat)                             | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0RECTOTSTCK          |
| BW_RKF_CPIMMM01_0070 | Receipt Cons Stock (Type)                            | 0STOCKCAT  | I | EQ | #                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | E                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | K                    |
|                      |                                                      | 0STOCKTYPE | I | EQ | L                    |
|                      |                                                      | 1KYFNM     | I | EQ | 0RECTOTSTCK          |
| BW_RKF_CPIMMM01_0071 | Issued Cons Stock (Cat)                              | 0STOCKCAT  | I | EQ | K                    |
|                      |                                                      |            |   |    |                      |

|                      |                                            |             |   |    |                      |
|----------------------|--------------------------------------------|-------------|---|----|----------------------|
|                      |                                            | 1KYFNM      | I | EQ | 0ISSTOTSTCK          |
| BW_RKF_CPIMMM01_0072 | Issued Cons Stock (type)                   | 0STOCKCAT   | I | EQ | #                    |
|                      |                                            | 0STOCKTYPE  | I | EQ | L                    |
|                      |                                            | 0STOCKTYPE  | I | EQ | K                    |
|                      |                                            | 0STOCKTYPE  | I | EQ | E                    |
|                      |                                            | 1KYFNM      | I | EQ | 0ISSTOTSTCK          |
| BW_RKF_CPIMMM01_0073 | Consgt Tot Stock (Cat)                     | 0STOCKCAT   | I | EQ | K                    |
|                      |                                            | 1KYFNM      | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0074 | Consgt Tot Stock (Type)                    | 0STOCKCAT   | I | EQ | #                    |
|                      |                                            | 0STOCKTYPE  | I | EQ | L                    |
|                      |                                            | 0STOCKTYPE  | I | EQ | K                    |
|                      |                                            | 0STOCKTYPE  | I | EQ | E                    |
|                      |                                            | 1KYFNM      | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0075 | Total Stock (Convertible)                  | 1KYFNM      | I | EQ | 0TOTALSTCK           |
|                      |                                            | C_FLAG      | I | EQ | #                    |
| BW_RKF_CPIMMM01_0077 | Quantity Total Stock (in transit conv. PE) | 1KYFNM      | I | EQ | BW_CKF_CPIMMM01_0019 |
|                      |                                            | CPFCTR1_2   | I | EQ | PE                   |
| BW_RKF_CPIMMM01_0076 | Quantity Valuated Stock                    | 0STOCKRELEV | I | EQ | 1                    |
|                      |                                            | 1KYFNM      | I | EQ | 0TOTALSTCK           |
| BW_RKF_CPIMMM01_0078 | Quantity Total Stock (in transit other)    | 1KYFNM      | I | EQ | BW_CKF_CPIMMM01_0019 |
|                      |                                            | CPFCTR1_2   | E | EQ | PE                   |

| Calculated Key Figure | Description                              | Formula                                                                                                                   | Aggregation      | Conversion         |
|-----------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|
| BW_CKF_CPIMM M01_0001 | Scrap Proportion of Total Stock Value    | "[BW_RKF_CPIMMM01_0013] Scrap Value" %A ("[BW_CKF_CPIMMM01_0017] Value Tot Stock" + "[BW_RKF_CPIMMM01_0013] Scrap Value") | N/A              | N/A                |
| BW_CKF_CPIMM M01_0002 | Scrap Proportion of Total Stock Quantity | "[BW_RKF_CPIMMM01_0012] Scrap Quantity" %A ('0TOTALSTCK' + "[BW_RKF_CPIMMM01_0012] Scrap Quantity")                       | N/A              | N/A                |
| BW_CKF_CPIMM M01_0003 | Material Range of Coverage in Days       | '0TOTALSTCK' / '0ISSTOTSTCK' * 365                                                                                        | N/A              | N/A                |
| BW_CKF_CPIMM M01_0004 | Average Stock Quantity                   | '0ISSTOTSTCK'                                                                                                             | Average: 0CALDAY | N/A                |
| BW_CKF_CPIMM M01_0005 | Inventory Aging                          | "[BW_CKF_CPIMMM01_0004] Average Stock Quantity" %A '0ISSTOTSTCK'                                                          | N/A              | N/A                |
| BW_CKF_CPIMM M01_0006 | Blocked Stock (PUQ)                      | [BW_RKF_CPIMMM01_0001] Blocked Stock                                                                                      | N/A              | Unit: QCT_MATNR4   |
| BW_CKF_CPIMM M01_0007 | Stock in Quality Inspection (PUQ)        | [BW_RKF_CPIMMM01_0004] Stock in Quality Inspection                                                                        | N/A              | Unit: QCT_MATNR4   |
| BW_CKF_CPIMM M01_0008 | Stock In Transit (PUQ)                   | [BW_RKF_CPIMMM01_0007] Stock in Transit                                                                                   | N/A              | Unit: QCT_MATNR4   |
| BW_CKF_CPIMM M01_0009 | Unrestricted Stock (PUQ)                 | [BW_RKF_CPIMMM01_0010] Unrestricted Stock                                                                                 | N/A              | Unit: QCT_MATNR4   |
| BW_CKF_CPIMM M01_0010 | Vendor Consi Consumption (PUQ)           | [BW_RKF_CPIMMM01_0011] Vendor Consi Consumption                                                                           | N/A              | Unit: QCT_MATNR4   |
| BW_CKF_CPIMM M01_0011 | Scrap Quantity (PUQ)                     | [BW_RKF_CPIMMM01_0012] Scrap Quantity                                                                                     | N/A              | Unit: QCT_MATNR4   |
| BW_CKF_CPIMM M01_0012 | Val Stock Issue (CP)                     | 'K_VALISS'                                                                                                                | N/A              | Currency: CTK_GS04 |
| BW_CKF_CPIMM M01_0013 | Val Stock Receipt (CP)                   | 'K_VALREC'                                                                                                                | N/A              | Currency: CTK_GS04 |
| BW_CKF_CPIMM M01_0014 | Scrap Value (CP)                         | [BW_RKF_CPIMMM01_0013] Scrap Value                                                                                        | N/A              | Currency: CTK_GS04 |
| BW_CKF_CPIMM M01_0015 | Val Tot Stock (CP)                       | IF(" [BW_CKF_CPIMMM01_0017] Value Tot Stock" <> 0; "[BW_CKF_CPIMMM01_0017] Value Tot Stock"; 0)                           | N/A              | Currency: CTK_GS04 |

|                          |                                     |                                                                                                                                                                                                                                                                                                                                                                          |                                                       |                     |
|--------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|
| BW_CKF_CPIMM<br>M01_0016 | Qty Tot Stock (PUQ)                 | IF('0TOTALSTCK' <> 0; '0TOTALSTCK'; 0)                                                                                                                                                                                                                                                                                                                                   | N/A                                                   | Unit:<br>QCT_MATNR4 |
| BW_CKF_CPIMM<br>M01_0017 | Value Tot Stock                     | 'K_VALTOT'                                                                                                                                                                                                                                                                                                                                                               | N/A                                                   | N/A                 |
| BW_CKF_CPIMM<br>M01_0018 | Receipt Total Stock (PUQ)           | '0RECTOTSTCK'                                                                                                                                                                                                                                                                                                                                                            | N/A                                                   | Unit:<br>QCT_MATNR4 |
| BW_CKF_CPIMM<br>M01_0019 | Quantity Total Stock (+ in transit) | 0TOTALSTCK' + "[BW_CKF_CPIMMM01_0020] Quantity Stock (in transit)"                                                                                                                                                                                                                                                                                                       | N/A                                                   | N/A                 |
| BW_CKF_CPIMM<br>M01_0020 | Quantity Stock (in transit)         | 'K_QIBTRAN' + 'K_QOBTRAN'                                                                                                                                                                                                                                                                                                                                                | Summation: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2 | N/A                 |
| BW_CKF_CPIMM<br>M01_0021 | Issue Total Stock (PUQ)             | '0ISSTOTSTCK'                                                                                                                                                                                                                                                                                                                                                            | N/A                                                   | Unit:<br>QCT_MATNR4 |
| BW_CKF_CPIMM<br>M01_0022 | Cnsgr stock qty (PUQ)               | [BW_CKF_CPIMMM01_0032] Consign Stock Qty                                                                                                                                                                                                                                                                                                                                 | N/A                                                   | Unit:<br>QCT_MATNR4 |
| BW_CKF_CPIMM<br>M01_0023 | SMOG (Slow moving)                  | IF(("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") > 365 AND "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)" > DATE(730237) AND '0TOTALSTCK' <> 0; ("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") * '0TOTALSTCK'; 0) | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2   | N/A                 |
| BW_CKF_CPIMM<br>M01_0024 | SMOG (Obsolete)                     | IF(("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" > "[VF_C_BATCH_2_001] Date of expiration" AND "[VF_C_BATCH_2_001] Date of expiration" > DATE(730237) AND '0TOTALSTCK' <> 0; ("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[VF_C_BATCH_2_001] Date of expiration") * '0TOTALSTCK'; 0)                                                                       | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2   | N/A                 |
| BW_CKF_CPIMM<br>M01_0025 | SMOG (Type)                         | NODIM("[BW_RKF_CPIMMM01_0068] Stock by type (SMOG)") <> 0                                                                                                                                                                                                                                                                                                                | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2   | N/A                 |
| BW_CKF_CPIMM<br>M01_0026 | SMOG                                | IF(("[BW_CKF_CPIMMM01_0023] SMOG (Slow moving)" + "[BW_CKF_CPIMMM01_0024] SMOG (Obsolete)" + "[BW_CKF_CPIMMM01_0025] SMOG (Type)") > 0; 1; 0)                                                                                                                                                                                                                            | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2   | N/A                 |
| BW_CKF_CPIMM<br>M01_0027 | Count batch (with stock)            | '0TOTALSTCK'                                                                                                                                                                                                                                                                                                                                                             | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2   | N/A                 |
| BW_CKF_CPIMM<br>M01_0028 | Amount SMOG                         | [BW_CKF_CPIMMM01_0017] Value Tot Stock * NODIM ("[BW_CKF_CPIMMM01_0026] SMOG")                                                                                                                                                                                                                                                                                           | Summation: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2 | N/A                 |
| BW_CKF_CPIMM<br>M01_0029 | Quantity SMOG                       | '0TOTALSTCK' * NODIM("[BW_CKF_CPIMMM01_0026] SMOG")                                                                                                                                                                                                                                                                                                                      | Summation: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2 | N/A                 |
| BW_CKF_CPIMM<br>M01_0030 | Receipt Cons Stock                  | "[BW_RKF_CPIMMM01_0069] Receipt Cons Stock (Cat)" + "[BW_RKF_CPIMMM01_0070] Receipt Cons Stock (Type)"                                                                                                                                                                                                                                                                   | N/A                                                   | N/A                 |
| BW_CKF_CPIMM<br>M01_0031 | Issued Cons Stock                   | "[BW_RKF_CPIMMM01_0071] Issued Cons Stock (Cat)" + "[BW_RKF_CPIMMM01_0072] Issued Cons Stock (type)"                                                                                                                                                                                                                                                                     | N/A                                                   | N/A                 |
| BW_CKF_CPIMM<br>M01_0032 | Consign Stock Qty                   | "[BW_RKF_CPIMMM01_0073] Consgr Tot Stock (Cat)" + "[BW_RKF_CPIMMM01_0074] Consgr Tot Stock (Type)"                                                                                                                                                                                                                                                                       | N/A                                                   | N/A                 |
| BW_CKF_CPIMM<br>M01_0033 | SMOG (Slow moving) M-1              | IF(("[VF_0DATE_0002] End of month - 1 (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") > 365 AND "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)" > DATE(730237); ("[VF_0DATE_0002] End of month - 1 (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") * '0TOTALSTCK'; 0)               | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2   | N/A                 |
| BW_CKF_CPIMM<br>M01_0034 | SMOG (Obsolete) M-1                 | IF(("[VF_0DATE_0002] End of month - 1 (V_0CALMONTH_0008)" > "[VF_C_BATCH_2_001] Date of expiration" AND "[VF_C_BATCH_2_001] Date of expiration" >                                                                                                                                                                                                                        | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2   | N/A                 |

|                       |                                        |                                                                                                                                                                                                                                                                                                                                                          |                                                                     |                     |
|-----------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------|
|                       |                                        | DATE(730237); ("[VF_0DATE_0002] End of month - 1 (V_CALMONTH_0008)" - "[VF_C_BATCH_2_001] Date of expiration") * '0TOTALSTCK'; 0)                                                                                                                                                                                                                        |                                                                     |                     |
| BW_CKF_CPIMM M01_0035 | SMOG (Slow moving) M-2                 | IF(("[VF_0DATE_0003] End of month - 2 (V_CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") > 365 AND "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)" > DATE(730237); ("[VF_0DATE_0003] End of month - 2 (V_CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") * '0TOTALSTCK'; 0) | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0036 | SMOG (Obsolete) M-2                    | IF(("[VF_0DATE_0003] End of month - 2 (V_CALMONTH_0008)" > "[VF_C_BATCH_2_001] Date of expiration" AND "[VF_C_BATCH_2_001] Date of expiration" > DATE(730237); ("[VF_0DATE_0003] End of month - 2 (V_CALMONTH_0008)" - "[VF_C_BATCH_2_001] Date of expiration") * '0TOTALSTCK'; 0)                                                                       | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0037 | SMOG (M-1)                             | IF(("[BW_CKF_CPIMMM01_0033] SMOG (Slow moving) M-1" + "[BW_CKF_CPIMMM01_0034] SMOG (Obsolete) M-1" + "[BW_CKF_CPIMMM01_0025] SMOG (Type)") > 0; 1; 0)                                                                                                                                                                                                    | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0038 | SMOG (M-2)                             | IF(("[BW_CKF_CPIMMM01_0035] SMOG (Slow moving) M-2" + "[BW_CKF_CPIMMM01_0036] SMOG (Obsolete) M-2" + "[BW_CKF_CPIMMM01_0025] SMOG (Type)") > 0; 1; 0)                                                                                                                                                                                                    | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0039 | Amount SMOG (M-1)                      | "[BW_CKF_CPIMMM01_0017] Value Tot Stock" * NODIM("[BW_CKF_CPIMMM01_0037] SMOG (M-1)")                                                                                                                                                                                                                                                                    | Summation: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2               | N/A                 |
| BW_CKF_CPIMM M01_0040 | Amount SMOG (M-2)                      | "[BW_CKF_CPIMMM01_0017] Value Tot Stock" * NODIM("[BW_CKF_CPIMMM01_0038] SMOG (M-2)")                                                                                                                                                                                                                                                                    | Summation: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2               | N/A                 |
| BW_CKF_CPIMM M01_0041 | Quantity SMOG (M-1)                    | '0TOTALSTCK' * NODIM("[BW_CKF_CPIMMM01_0037] SMOG (M-1)")                                                                                                                                                                                                                                                                                                | N/A                                                                 | N/A                 |
| BW_CKF_CPIMM M01_0042 | Quantity SMOG (M-2)                    | 0TOTALSTCK * NODIM("[BW_CKF_CPIMMM01_0037] SMOG (M-2)")                                                                                                                                                                                                                                                                                                  | N/A                                                                 | N/A                 |
| BW_CKF_CPIMM M01_0043 | 0 - 4 months (SMOG Aging)              | IF(("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") < 120; 1; 0)                                                                                                                                                                                                                       | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0044 | 4 - 12 months (SMOG Aging)             | IF(("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") > 120 AND ("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") < 365; 1; 0)                                                                                          | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0045 | 12 - 24 months (SMOG Aging)            | IF(("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") > 365 AND ("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") < 731; 1; 0)                                                                                          | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0046 | > 24 months (SMOG Aging)               | IF(("[VF_0DATE_0001] End of month (V_0CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") > 730; 1; 0)                                                                                                                                                                                                                       | Counter: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2                 | N/A                 |
| BW_CKF_CPIMM M01_0047 | Qty Tot Stock - Only Convertible (PUQ) | IF("[BW_RKF_CPIMMM01_0075] Total Stock (Convertible)" <> 0; "[BW_RKF_CPIMMM01_0075] Total Stock (Convertible)"; 0)                                                                                                                                                                                                                                       | N/A                                                                 | Unit:<br>QCT_MATNR4 |
| BW_CKF_CPIMM M01_0048 | Quantity SMOG - Only Convertible       | "[BW_RKF_CPIMMM01_0075] Total Stock (Convertible)" * NODIM("[BW_CKF_CPIMMM01_0026] SMOG")                                                                                                                                                                                                                                                                | Summation: C_PLANT<br>C_MATNR2<br>0LOGSYS<br>C_BATCH2<br>0STOCKTYPE | N/A                 |
| BW_CKF_CPIMM M01_0049 | Qty. Valuated Stock (PUQ)              | [BW_RKF_CPIMMM01_0076] Quantity Valuated Stock                                                                                                                                                                                                                                                                                                           | N/A                                                                 | Unit:<br>QCT_MATNR4 |
| BW_CKF_CPIMM M01_0050 | Qty. Total Stock (+ in transit) SAC    | "[BW_RKF_CPIMMM01_0077] Quantity Total Stock (in transit conv. PE)" + "[BW_RKF_CPIMMM01_0078] Quantity Total Stock (in transit other)"                                                                                                                                                                                                                   | N/A                                                                 | N/A                 |
| BW_CKF_CPIMM          | Value Total Stock (+ in                | 'K_VALTOT' + "[BW_CKF_CPIMMM01_0052] Valuated Stock (in                                                                                                                                                                                                                                                                                                  | N/A                                                                 | N/A                 |

|                          |                             |                           |                                                       |     |
|--------------------------|-----------------------------|---------------------------|-------------------------------------------------------|-----|
| M01_0051                 | transit) SAC                | transit)"                 |                                                       |     |
| BW_CKF_CPIMM<br>M01_0052 | Valuated Stock (in transit) | 'K_VIBTRAN' + 'K_VOBTRAN' | Summation: C_PLANT<br>C_MATNR2<br>OLOGSYS<br>C_BATCH2 | N/A |

## SAP Analytics Cloud Documentation

SAC IM

### Dependencies with other applications

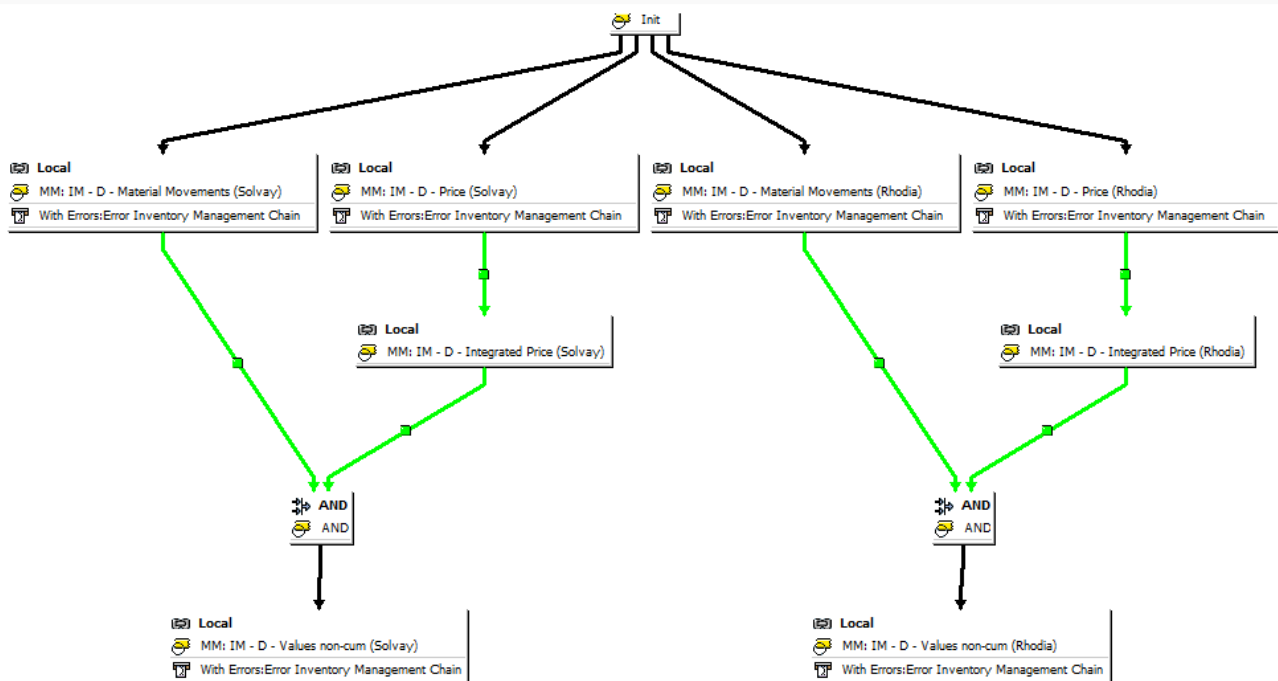
We should have the information where the application is sending or receiving information (e.g. APD open hub)

## Data Loading

### Info Providers and objects loaded

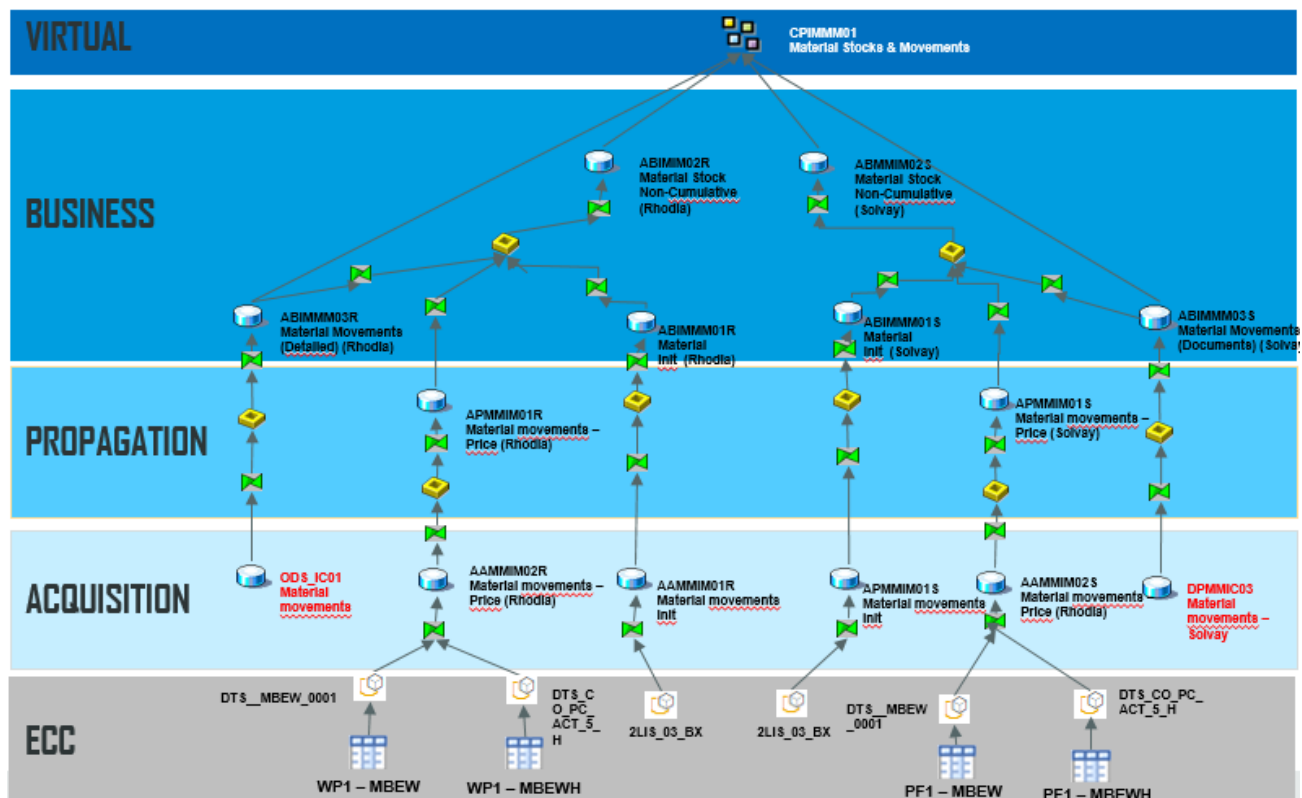
CPIMMM01 has 3 main datasource loading and all the process is available in the process chain PC\_MMIM\_00.

Process Chain Display Active Version: MM: IM - D - Inventory Managemen



1. 2LIS\_03\_BF movement document. Load movement stock data coming from the classical DSOs Rhodia (ODS\_IC01) and Solvay (DPMMIC03)
2. DTS\_MBEW\_0001 - price definition according to the material, plant and valuation type
3. DTS\_CO\_PC\_ACT\_5\_H - historical price according to the end of month position.
4. Model S tables provide data for integration (finance) price.

The **INIT** process is quite different because it should be performed as a sequential process, due to the balance process based on the pointer from datasource 2lis\_03\_bx



1. ODS\_IC01 ABIMMM03R / DPMMIC03 ABIMMM03S - Load and activate. Preferably filtering in several full loads split by CALYEAR due to the amount of data during the activation.
2. Run IP for DTS\_CO\_PC\_ACT\_5\_H, DTS\_MBEW\_001 and 2LIS\_03\_BF (requires setup table)
3. DTS\_CO\_PC\_ACT\_5\_H AAMMIM02R / AAMMIM02S - Load data
4. DTS\_MBEW\_001 AAMMIM02R / AAMMIM02S - Load data from delta (Avg. price), full last requisition (Std. Price) and activate data.
5. AAMMIM02R APMMIM01R / AAMMIM02S APMMIM01S - Load data and activate data.
6. ABCOMS01 / ABCOMS04 APMMIM05R - Load data and activate data.
7. ABCOMS02 / ABCOMS03 APMMIM05S - Load data and activate data.
8. APMMIM05R APMMIM04R - Load data and activate data.
9. APMMIM05S APMMIM04S - Load data and activate data.
10. ABIMMM03R ABIMMM02R / ABIMMM02S ABIMMM02S - Load and activate. Preferably filtering in several full loads split by CALYEAR due to the amount of data during the activation.
11. AAMMIM01R ABIMMM01R / AAMMIM01S ABIMMM01S - Load data, do not need to activate.
12. ABIMMM01R ABIMMM02R / ABIMMM01S ABIMMM02S - Load and activate.
13. APMMIM01R ABIMMM02R / APMMIM01S ABIMMM02S - Load and activate. Preferably filtering in several full loads split by CALMONTH due to the amount of data during the activation.
14. APMMIM04R ABIMMM02R / APMMIM04S ABIMMM02S - Load and activate. Preferably filtering in several full loads split by CALMONTH due to the amount of data during the activation.
15. Run delta DTP from APMMIM01\* and ABIMMM03\* with the option for initialization.

## Loading frequency

The stock level (movements and revaluation) are available by update in the process chain PC\_MMIM\_00 and it is part of the flow follows the [D4 frequently loaded data schedule](#). (it is under PC RCP\_MMIC)

There are 2 main process chains that load the stock cubes, which are

1. Normal time on PC RCP\_MMIC - 03a IC Complete Transactional (3 times / day)
2. Extra time on PC FI\_IC\_DELTA\_EXTR\_HOURLY - 03b IC Minimum Transactional (additional 3 time / day)

Price Control Data load procedure during Financial Closing period:

Data loads to DSO Price Control (AAMMIM02\* - Solvay & Rhodia) in propagation layer are paused during D1 to D7.

Process chains PC\_MMIM\_01 & PC\_MMIM\_02 are having condition to check D1 to D7 and skip the Info package loads from SAP systems.

From D7 onwards, Info packages are resumed with regular info package load activity.

## Data Quality Control

If we find any discrepancy with the data in ABMMIM02R/ABMMIM02S, please check for the latest Material unit price in Propagation layer DSO AAMMIM02\* - Solvay & Rhodia.

Perform full data deletion and reload for Plant & Material combination from Propagation layer to Business Transfer layer ABMMIM02R /ABMMIM02S. This activity to be performed after D7 or Financial closing is completed.

# Operational Documentation

## Procedures

<Describe the recurring procedures needed to operate the application (eg. start/pause/terminate/restart the app processes, data preparation, data ingestion, ETL, data visualization, data export, other manual activities)>

## Scheduling

<Describe the scheduling in place for the application (eg. existing jobs, trigger time/event based, dependencies)>

## Monitoring

<Describe the monitoring checks to confirm the application is performing well (eg. check the overall status, check performance metrics like runtime /data volume/memory/disk/CPU, maintain and react to alerts/notifications)>

## Error Handling

<Describe how to handle errors (eg. error codes, description and respective resolution, alert users)>

## Known Bugs

<List the existing bugs, its criticality, workarounds and resolution plan.>

## Roadmap

This multi-provider will be used for the next evolution to combine Rhodia legacy to combine in order to have both legacy in the same report and definition.