

Technical Documentation - Inventory management report

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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

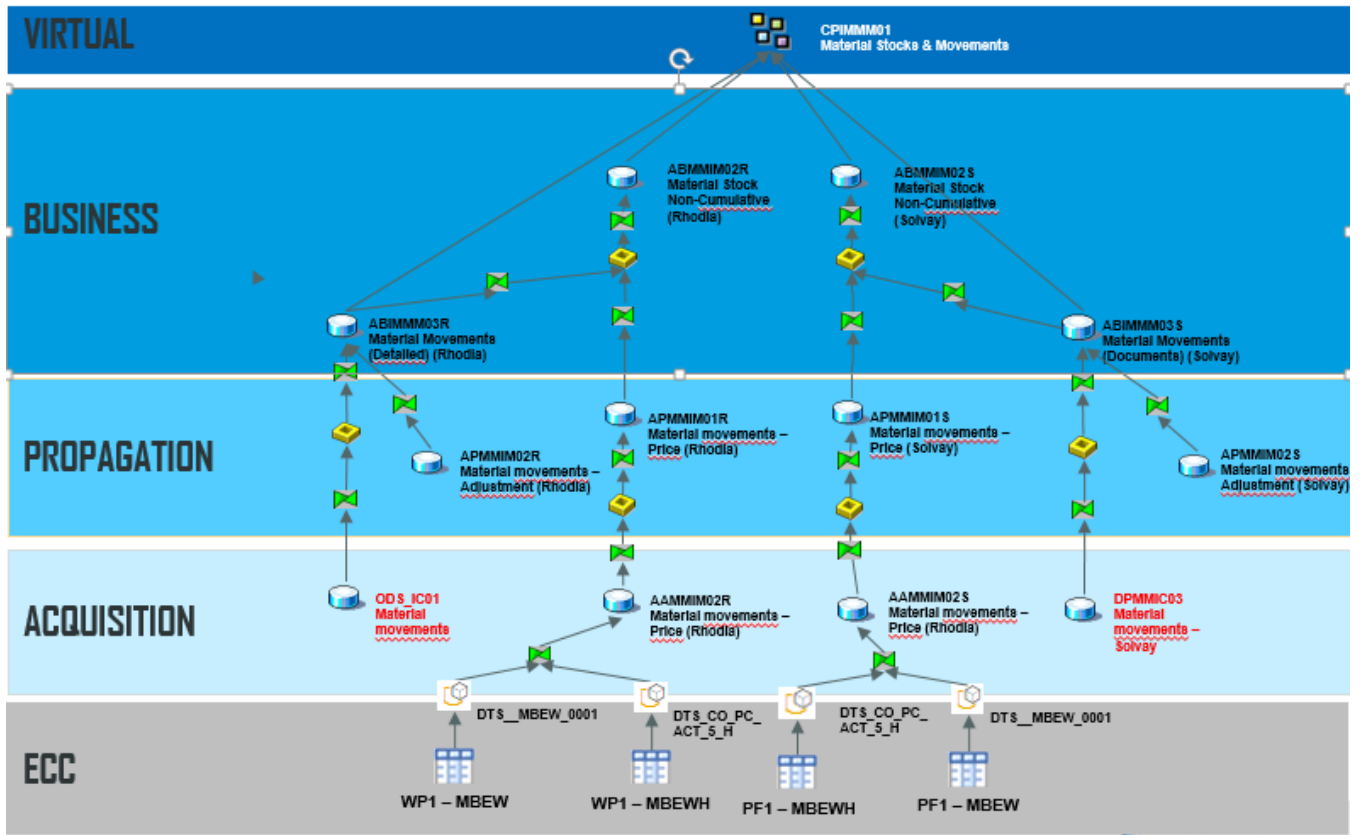
Authorization Objects

List of authorization objects mandatory for the application.

Authorization object	Explanation
CPFCTR1_2	GBU, role: ZR_*_CA_P05
C_COMPCDE__C_AUTHMA	Authorization scope role: ZR_*_CA_P00
C_COMPCDE	Company, role: ZR_*_CA_P01

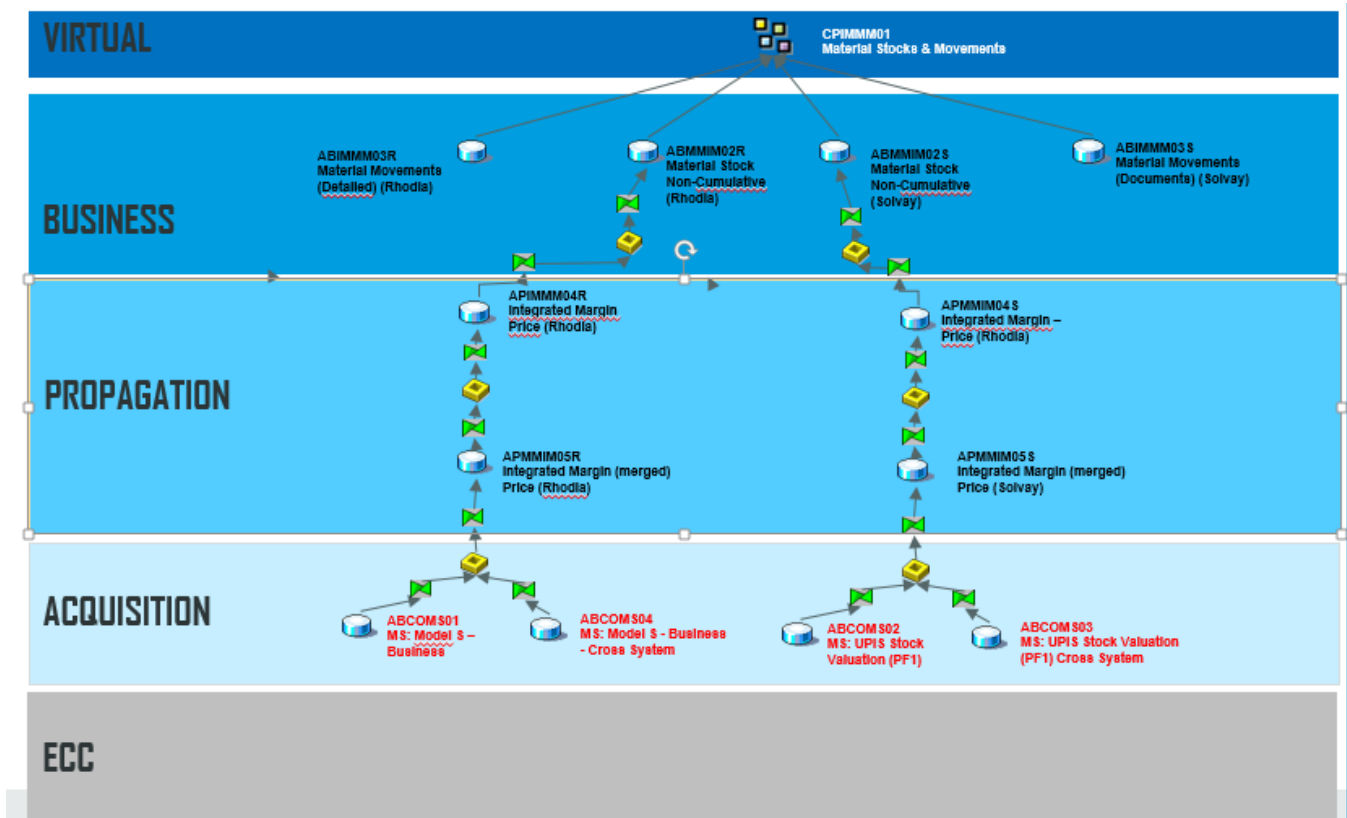
DataFlow

Overview



All aDSO above the acquisition layer (basically a provider with the same files 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 Stock 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
1KYFNM	I	EQ	0TOTALSTCK		
BW_RKF_CPIMMM01_0005	Received Quantity: Stock in Quality Inspection	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	0RECTOTSTCK
BW_RKF_CPIMMM01_0006	Issued Quantity: Stock in Quality Inspection	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 M01_0016	Qty Tot Stock (PUQ)	IF('0TOTALSTCK' <> 0; '0TOTALSTCK'; 0)	N/A	Unit: QCT_MATNR4
BW_CKF_CPIMM M01_0017	Value Tot Stock	'K_VALTOT'	N/A	N/A
BW_CKF_CPIMM M01_0018	Receipt Total Stock (PUQ)	'0RECTOTSTCK'	N/A	Unit: QCT_MATNR4
BW_CKF_CPIMM M01_0019	Quantity Total Stock (+ in transit)	0TOTALSTCK' + '[BW_CKF_CPIMM01_0020] Quantity Stock (in transit)'	N/A	N/A
BW_CKF_CPIMM M01_0020	Quantity Stock (in transit)	'K_QIBTRAN' + 'K_QOBTRAN'	Summation: C_PLANT C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0021	Issue Total Stock (PUQ)	'0ISSTOTSTCK'	N/A	Unit: QCT_MATNR4
BW_CKF_CPIMM M01_0022	Cnsgt stock qty (PUQ)	[BW_CKF_CPIMM01_0032] Consigt Stock Qty	N/A	Unit: QCT_MATNR4
BW_CKF_CPIMM 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 C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM 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 C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0025	SMOG (Type)	NODIM("[BW_RKF_CPIMM01_0068] Stock by type (SMOG)") <> 0	Counter: C_PLANT C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0026	SMOG	IF(("[BW_CKF_CPIMM01_0023] SMOG (Slow moving)" + "[BW_CKF_CPIMM01_0024] SMOG (Obsolete)" + "[BW_CKF_CPIMM01_0025] SMOG (Type)") > 0; 1; 0)	Counter: C_PLANT C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0027	Count batch (with stock)	'0TOTALSTCK'	Counter: C_PLANT C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0028	Amount SMOG	[BW_CKF_CPIMM01_0017] Value Tot Stock * NODIM ("[BW_CKF_CPIMM01_0026] SMOG")	Summation: C_PLANT C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0029	Quantity SMOG	'0TOTALSTCK' * NODIM("[BW_CKF_CPIMM01_0026] SMOG")	Summation: C_PLANT C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0030	Receipt Cons Stock	"[BW_RKF_CPIMM01_0069] Receipt Cons Stock (Cat)" + "[BW_RKF_CPIMM01_0070] Receipt Cons Stock (Type)"	N/A	N/A
BW_CKF_CPIMM M01_0031	Issued Cons Stock	"[BW_RKF_CPIMM01_0071] Issued Cons Stock (Cat)" + "[BW_RKF_CPIMM01_0072] Issued Cons Stock (type)"	N/A	N/A
BW_CKF_CPIMM M01_0032	Consigt Stock Qty	"[BW_RKF_CPIMM01_0073] Consigt Tot Stock (Cat)" + "[BW_RKF_CPIMM01_0074] Consigt Tot Stock (Type)"	N/A	N/A
BW_CKF_CPIMM M01_0033	SMOG (Slow moving) M-1	IF(("[VF_0DATE_0002] End of month - 1 (V_CALMONTH_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_CALMONTH_0008)" - "[ZSVR_IA_BATCH2MFDT] Batch2 Manufacture Date (Replacement)") * '0TOTALSTCK'; 0)	Counter: C_PLANT C_MATNR2 0LOGSYS C_BATCH2	N/A
BW_CKF_CPIMM M01_0034	SMOG (Obsolete) M-1	IF("[VF_0DATE_0002] End of month - 1 (V_CALMONTH_0008)" > "[VF_C_BATCH_2_001] Date of expiration" AND "[VF_C_BATCH_2_001] Date of expiration" >	Counter: C_PLANT C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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 C_MATNR2 0LOGSYS 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: 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 C_MATNR2 0LOGSYS C_BATCH2 0STOCKTYPE	N/A
BW_CKF_CPIMM M01_0049	Qty. Valuated Stock (PUQ)	[BW_RKF_CPIMMM01_0076] Quantity Valuated Stock	N/A	Unit: 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 M01_0052	Valuated Stock (in transit)	'K_VIBTRAN' + 'K_VOBTRAN'	Summation: C_PLANT C_MATNR2 OLOGSYS C_BATCH2	N/A

SAP Analytics Cloud Documentation

SAC IM

Dependencies with other applications

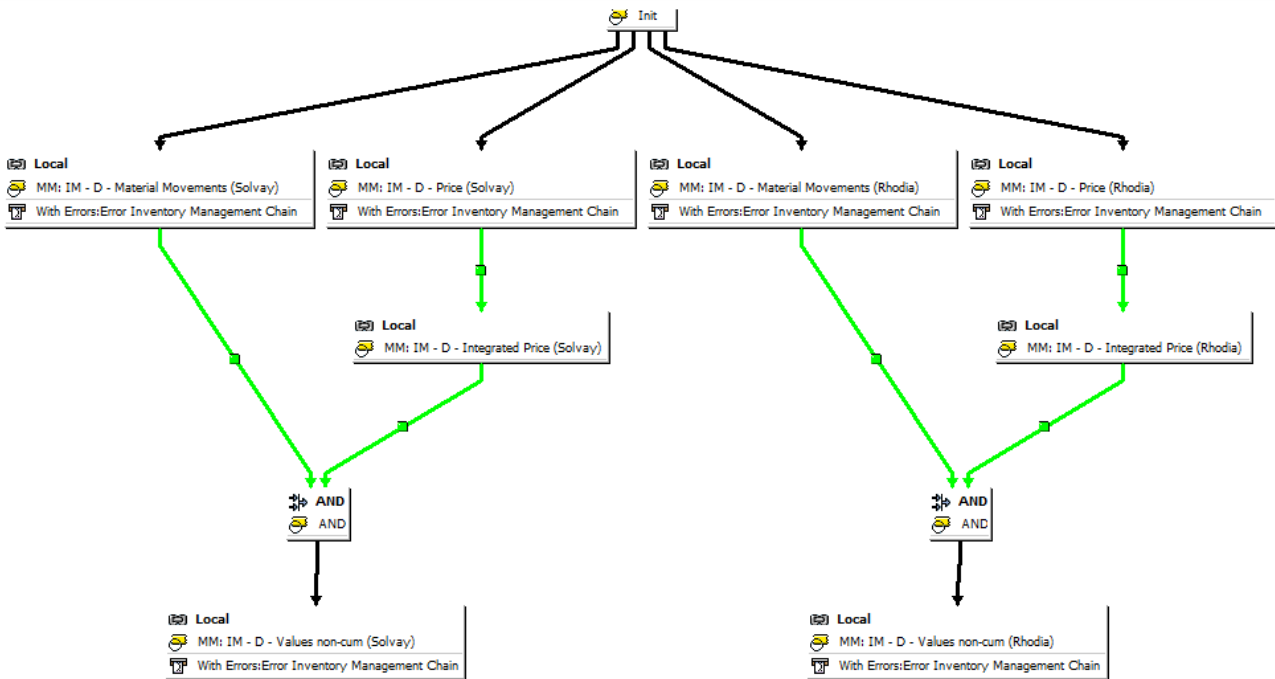
We should have the information where the application is sending or receiving information (e.g. APD open hub)

Data Loading

Info Providers and objects loaded

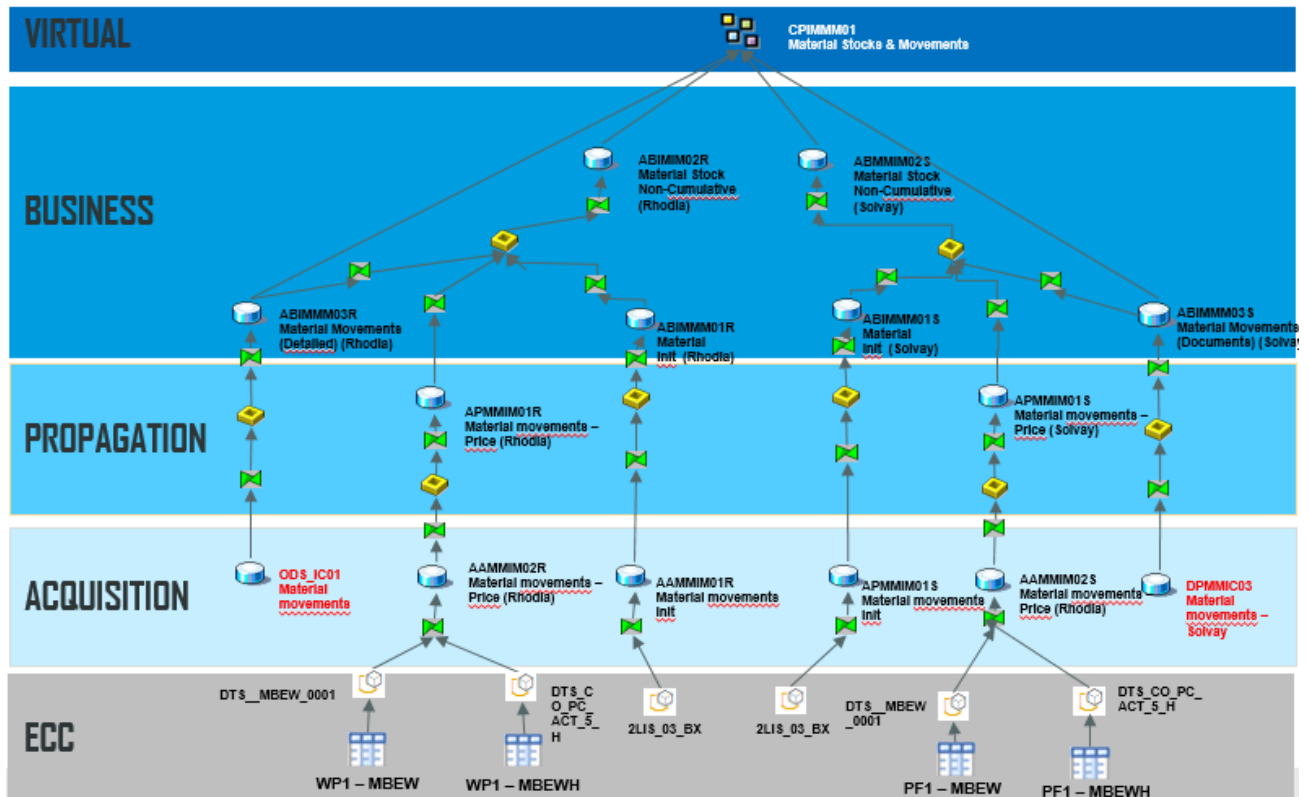
CPIMMM01 has 3 main datasource loading and all the process is available in the process chain PC_MMIM_00.

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 ABMMIM02R / ABMMIM02S ABMMIM02S - Load and activate. Preferably filtering in several full loads split by CALYEAR due to the amount of data during the activation.
11. AAMMIM01R ABMMIM01R / AAMMIM01S ABMMIM01S - Load data, do not need to activate.
12. ABMMIM01R ABMMIM02R / ABMMIM01S ABMMIM02S - Load and activate.
13. APMMIM01R ABMMIM02R / APMMIM01S ABMMIM02S - Load and activate. Preferably filtering in several full loads split by CALMONTH due to the amount of data during the activation.
14. APMMIM04R ABMMIM02R / APMMIM04S ABMMIM02S - 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 FL_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.