

BW OTC - Global Sales - OTIF /\ Obsolete /\



The new wiki link for this data flow is here:

[Technical Documentation - Sales & distribution - OTIF report](#)

Please update the doc there and no longer here.



- General presentation
 - List of contacts
 - Objective of the application
 - History
 - Usage information
- General Rules
 - Functional Specificationsain Rules
 - Roles and access
 - Authorization objects
 - Dataflow overview
 - Multi Provider MVSDSO50 - OTIF Global - DATA FLOW
 - Multi Provider MVSDSO51 - OTIF Transfer Global - DATA FLOW
 - Multi Provider MVSDSO60 - MP Sales & Transfer for OTIF with Order Book dates - DATA FLOW
 - Functional and Technical rules on Workbench + Reporting
 - Rules & Explanations
 - Business Rules
 - Get the GBU code
 - Calculation Rules
 - Unit conversions
 - Dependencies with other applications
 - Data loadings
 - Info providers and objects loaded
 - 1 - Main Process Chain
 - 2 - Propagation Layer
 - 3 - Business Layer
 - 4 - Reporting Level
 - 5 - Master data
 - 6 - Text & maintenance
 - Loading frequency
 - Average performance & monitoring
 - Record Keeping
- Modeling
 - Virtual Layer
 - Main datasources based on SAP tables
 - Main dimensions for the data
- Reporting
 - Calculated & Restricted key figures
 - Main queries
 - Queries used to load QV applications
 - Broadcast
- Maintenance
 - Known bugs
 - Recurring procedure
 - Planned Evolution
 - Useful transactions to be used for checking data

General presentation

OTIF is sub function of Global Sales (analysis of all documents for sales handling costumers or transfer with plants and GBUs).

The term OTIF means **On Time In Full**, that is an analysis if the delivery was done in correct time and the quantity was delivered as requested, considering the tolerances.

This sub function works with data handled by Global Sales about sales order lines, scheduled lines and deliveries.

The load is done daily using the process chain scheduled with delta process inside Global Sales Process Chain.

List of contacts

- Functional Owner of this report: Jose Pablo Leyva (Supply Chain Excellence Project Leader) and Raphael Forlini (Logistics expert)

- IS Reporting Leader: Diogo Paiva (IS Supply Chain M&S Data)
- BW Coordinator: Guillaume Thevenet (SBS IS)
- BW Developer: Nestor Araujo (SBS IS) , Mathieu Lambert (SBS IS)

Objective of the application

- The main purpose is to have a detailed core report for all GBU's and also be the data source for SCE Dashboard in Qlikview.
- Analyze the behaviour of sales processes since the goods issue until the shipment end process.
- Understand the reasons why the process was not finished with OTIF
- One common & consolidated reporting space for the group
- Rationalization of the "live" solutions and reduction of evolutions requested
- Maintainable and sustainable solution.
- Enabler for productivity actions on OTIF process
- Drillable solution - allowing possibility to detect & analyse problems by showing the link from aggregated figures down to document in SAP.
- Few "core" queries/workbooks design for application (=> Use BW analysis functionalities and not just as extractor).

History

The OTIF analysis is generated in BI 4 with data based on PPS application just for Rhodia side and load QV application for SBS SCE (Supply Chain Excellence).

The OTIF for Solvay was created in 2016 in BW after OBAS implementation and it is the source for SBS SCE also.

Usage information

Around 300 users, worldwide with daily update

General Rules

Functional Specificationsain Rules

SCE defines 6 different OTIF indicators:

- **OTIFD CR** : On Time Delivery in Full (Customer Request) : Concatenates In full Requested and OTD CR
- **OTIFD FC** : On Time Delivery in Full (1st Confirmed) : Concatenates In full Confirmed and OTD FC
- **OTIFD LC** : On Time Delivery in Full (Last Confirmed) : Concatenates In full Confirmed and OTD LC
- **OTIFS CR** : On Time Shipment in Full (Customer Request) : Concatenates In full Requested and OTS CR
- **OTIFS FC** : On Time Shipment in Full (1st Confirmed) : Concatenates In full Confirmed and OTS FC
- **OTIFS LC** : On Time Shipment in Full (Last Confirmed) : Concatenates In full Confirmed and OTS LC

All calculation in this query is managed at Order line level. When several schedule lines matching with one same order lines we consider the sum for quantities and maximum for dates.

1 - Rules for OTIF Calculation

1.1 - On Time Delivery "On Time Delivery: it means that the calculation is based on date of arrival, they compare an achieved arrival date with a target arrival date. Achieved Delivery Date:

Achieved Delivery Date

```
=If([Transportation mode]="PICK UP" Or [Order Document Type Code]="KE";[V_Max Actual GI Date];If(IsNull([V_Max End of Shipment Calculated]);[V_Max Actual GI Date];[V_Max End of Shipment Calculated]))
```

For "PICK UP" transportation mode, Rhodia (WP1) : Last transfer order confirmation date for the order line --> FIELD LTAP-QDATU else Last Good Issue date

For "PICK UP" transportation mode, Solvay (PF1) : Last Good Issue date

For any other transportation mode : The last "Actual Shipment end" if it exists else the last "planned shipment end" if it exists else the last "Actual good Issue"

OTD CR: If Difference between Achieved delivery date and Order line requested delivery Date is lower than – Early tolerance then "EARLY" else if Difference between Achieved delivery date and Order line requested delivery Date is greater than Late tolerance then ""LATE"" else ""OTD""

=If([Transportation mode]="PICK UP";If(DaysBetween(Last Req Delivery);[Achieved Delivery Date])<0;0;DaysBetween(Last Req Delivery);[Achieved Delivery Date]))

OTD FC: If Difference between Achieved delivery date and Orderline 1st confirmed delivery Date is lower than – Early tolerance then "EARLY" else if Difference between Achieved delivery date and Order line 1st conf delivery Date is greater than Late tolerance then ""LATE"" else ""OTD""

=If([Transportation mode]="PICK UP";If(DaysBetween([V_Max 1st ATP];[Achieved Delivery Date])<0;0;DaysBetween([V_Max 1st ATP];[Achieved Delivery Date]))

OTD LC: If Difference between Achieved delivery date and Order line last confirmed delivery Date is lower than – Early tolerance then "EARLY" else if Difference between Achieved delivery date and Order line last conf delivery Date is greater than Late tolerance then ""LATE"" else ""OTD""

=If([Transportation mode]="PICK UP";If(DaysBetween([V_Max Last ATP];[Achieved Delivery Date])<0;0;DaysBetween([V_Max Last ATP];[Achieved Delivery Date]))

1.2 - On Time Shipment "On Time Shipment: it means that the calculation is based on date of good issue, they compare an achieved shipment date with a target shipment date (calculated in SAP from requested delivery date, 1 confirmed delivery date and last confirmed delivery date). Achieved Shipment Date: For "PICK UP" transportation mode : Last transfer order confirmation date for the order line --> FIELD LTAP-QDATU else Last Good Issue date For other transportation mode : The last "Actual GI" date

Achieved Shipment Date

=If([Transportation mode]="PICK UP" Or [Order Document Type Code]="KE";[V_Max Actual GI Date])

OTS CR: If Difference between Achieved shipment date and Order line requested GI Date is lower than – Early tolerance then "EARLY" else if Difference between Achieved shipment date and Order line requested GI Date is greater than Late tolerance then ""LATE"" else OTS.

=If([Transportation mode]="PICK UP";If(DaysBetween([V_Max Last Req GI]; "[V_Max Actual GI Date])<0;0;DaysBetween([V_Max Last Req GI]; "[V_Max Actual GI Date]

OTS FC: If Difference between Achieved shipment date and Order line 1st confirmed GI Date is lower than – Early tolerance then "EARLY" else if Difference between Achieved shipment date and Order line 1st Conf GI Date is greater than Late tolerance then ""LATE"" else ""OTS""

=If([Transportation mode]="PICK UP";If(DaysBetween([V_Max 1st ATP GI]; "[V_Max Actual GI Date] <0;0;DaysBetween([V_Max 1st ATP GI]; [V_Max Actual GI Date])))

OTS LC: If Difference between Achieved shipment date and Order line last confirmed GI Date is lower than – Early tolerance then "EARLY" else if Difference between Achieved shipment date and Order line Last confirmed GI Date is greater than Late tolerance then ""LATE"" else ""OTS""

=If([Transportation mode]="PICK UP";If(DaysBetween([V_Max 1st ATP GI]; "[V_Max Actual GI Date] <0;0;DaysBetween([V_Max 1st ATP GI]; [V_Max Actual GI Date])))

1.3 - Tolerances:

"Number of days based on Transportation Mode (Order Shipping Condition) OCEAN = 7 RAIL = 3 BARGE = 3 INTERMODAL = 2 ROAD = 1 AIR = 0 OTHER = 0 "

DAYS DELAY NET (APPLY THE TOLERANCE)

TOLERANCES by Shipping Conditions

AB";"AC";"AE";"AF => 7 days (ocean)

AJ => 1 day (LTL)

AK AH AI => 0 (FTL)

AU AP => 3 (Barge / Rail)

AV => 2 (multimodal)

“AL” “AW” “AX” => 0 999 days) (Pick Up)

=If([OTD CR - Delay Days]=999;999;If([OTD CR - Delay Days]=0;0;If(Abs([OTD CR - Delay Days])<=[Tolerance Days];0;If([OTD CR - Delay Days]<0;[Tolerance Days]+[OTD CR - Delay Days];[OTD CR - Delay Days]-[Tolerance Days])))

1.4 - Exceptions:

"Customer Pick Up: uses Last transfer order confirmation date in calculation Customer Pick Up Early = OTIF Order Non OTIF Reason code starting with 7 = OTIF "

1.5 - IN FULL

In Full Calculation "In Full Request Order Quantity fits with Delivery Quantity In Full Confirmed Scheduled Line Confirmed Quantity fits with Delivery Quantity "

IN FULL REQUESTED – IFR

(Order line qty – Sum Delivery quantity) + tolerance that comes from the sales order

IN FULL CONFIRMED – IFC

(Sum Scheduled Confirmed Qty by sales order item – Sum Delivery quantity) + tolerance that comes from the sales order

1.6 - LEAD TIMES

7 lead-times have been defined by SCE (to be challenged for rationalisation)

Leadtime 1 : The Lead-time is the difference, in days, between the customer PO Date (order line level - VBKD-BSTDK), and the requested material availability date (Max in the scheduled line level).

=DaysBetween([V_Max Cust PO];[V_Max Req Material Availability])

Leadtime 2 : The Lead-time is the difference, in days, between the customer PO Date (VBKD-BSTDK), and the achieved GI date

=DaysBetween([V_Max Cust PO];[Max Actual GI Date])

Leadtime 3 : The Lead-time is the difference, in days, between the customer PO Date, and the requested delivery date.

=DaysBetween([V_Max Cust PO];[V_Max Last Req Delivery])

Leadtime 4 : The Lead-time is the difference, in days, between the customer PO Date, and the achieved delivery date

=DaysBetween([V_Max Cust PO];[Achieved Delivery Date])

Leadtime 5 : The Lead-time is the difference, in days, between the creation date and the last customer req Goods Issue date

Leadtime 6 : The Lead-time is the difference, in days, between the creation date and the schedule line 1st ATP (confirmed) GI date

Leadtime 7 : The Lead-time is the difference, in days, between the creation date and the actual GI date

1.7 - DOCUMENTS TYPES

The document types to be considered are:

GCTA	Standard Order
KE	Consig issue
SB	SB Third-p.dir order
SO	SO Rush Order
TA	Standard Order
TAF	Standard Order (FPI)
TAM	Delivery Order
TAV	Standard Order (VMI)
TD	TD Standard Order
TDIV	TDIV Misc Op
TSA	Telesales
ZITI	Sales Order ITI BR
ZORB	Standard Order BR
ZOUT	Other Outputs BR
ZPVA	ZPVA Ord.immed.ship.
ZVEX	Fut. Dely Invoice BR
ZVEY	Fut. Dely Shipmnt BR
NB	Standard PO
UB	Stock transport ord.

1.8 - QUERY FILTER

1.8.1 – Flag Intra GBU = NO

1.8.2 – Reason for rejection: VBAP-ABGRU is null or equal 98

[blocked URL](#)
[blocked URL](#)

Roles and access

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

Role Code	Role Description	Explanation
-----------	------------------	-------------

ZR_RCS_CA_M49	SD - Sales and Distribution	Role menu

Authorization objects

List of authorization objects mandatory for the application.

Authorization object	Explanation
ZR_SD_CA_P05	Global Business Unit (CPFCTR1_2)
ZR_TOUT_CA_P01	Company Code (C_COMPCDE)
ZR_RCS_CA_P14	Sales Office (C_SAL_OFF)

See also file maintained by Authorization team :

- BW Catalog of Roles: Authorization catalog
- BW Authorization: BW Authorizations

Statistics by infoproviders

InfoProvider Used	Description / Calendar Year/Month	JAN 2018	FEB 2018	MAR 2018	APR 2018	MAY 2018	JUN 2018	JUL 2018	AUG 2018	SEP 2018
MVSDSO50	MP: Sales - OTIF (Global Sales)	102	27	40	40	51	83	71	21	12
MVSDSO51	MP: Sales & Transfer - OTIF (Global Sales)	54	14	12	3		5	121	395	20
MVSDSO60	MP: Sales - OTIF with order book dates (Global Sales)						9	33	39	49
Overall Result		156	41	52	43	51	97	225	455	81

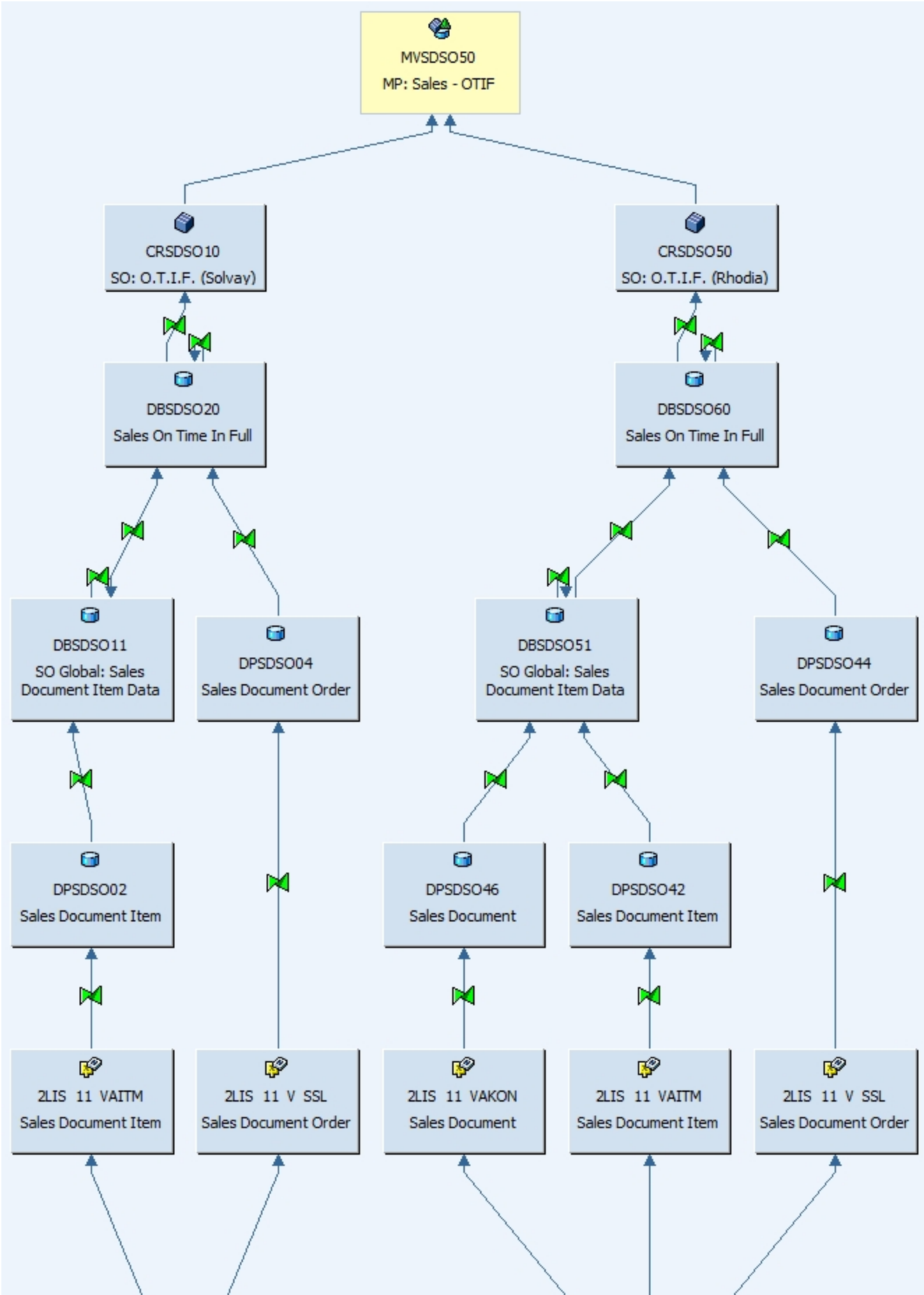
Statistics by queries

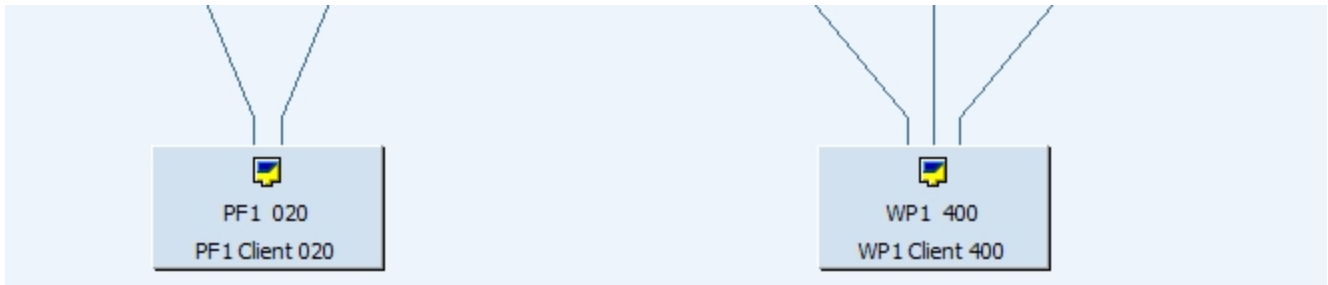
InfoProvider	Query		JAN 2018	FEB 2018	MAR 2018	APR 2018	MAY 2018	JUN 2018	JUL 2018	AUG 2018	SEP 2018
MVSDSO50	BW_QRY_MVSDSO50_0001	BW Sales - OTIF - Details	24	18	21	12	13	28	20	10	8
MVSDSO50	BW_QRY_MVSDSO50_0003	BW Sales - OTIF - Summary	6					15	2		0
MVSDSO50	BW_QRY_MVSDSO50_0002	BW Sales - OTIF dashboard	70	4	19	27	38	40	48	11	4
MVSDSO50	QVSCE_BW_QRY_MVSDSO50_0001	BW Sales - OTIF QV	2	5		1			1		
MVSDSO51	QVSCE_BW_QRY_MVSDSO51_0001	BW OTIF (Sales & Transfer) QV	54	3	10	1		1	109	384	
MVSDSO51	BW_QRY_MVSDSO51_0003	BW Transfer & Sales - OTIF - Summary								2	5
MVSDSO51	/BW_QRY_MVSDSO51_0002	BW Transfer PO OTIF - dashboard		3		1			6	4	11
MVSDSO51	BW_QRY_MVSDSO51_0001	BW Transfer PO OTIF - Details		8	2	1		4	6	5	4
MVSDSO60	BW_QRY_MVSDSO60_0001	BW Sales - OTIF & Orderbook - Details						3	3		5
MVSDSO60	BW_QRY_MVSDSO60_0002	BW Sales/Transfer - OTIF & Orderbook - Details						6	28	39	44
Result			156	41	52	43	51	97	225	455	81

Dataflow overview

Multi Provider MVSDSO50 - OTIF Global - DATA FLOW

This multi provider is used to manage the OTIF indicators for all sales processes (Solvay & Rhodia)





MP Details - characteristics

MultiProvider	Techn. name / val...	Dat...	L
MP: Sales - OTIF (Global Sales)	MVSDSO50		
Object Information			
Dimensions			
Data Package	MVSDSO50P		
Time	MVSDSO50T		
Unit	MVSDSO50U		
Delivery Dates	MVSDSO501		
Actual goods issue date	OACT_GI_DTE	DATS	08
Actual GI date (Year/Month)	C_ACT_GI	NUMC	06
Actual GI date (Year)	C_ACT_GIY	NUMC	04
Actual Delivery Date	OACT_DL_DTE	DATS	08
Requested delivery date	ODSDEL_DATE	DATS	08
Material availability date	OMATAV_DATE	DATS	08
Planned Goods Issue Date of a	OPLD_GI_DTE	DATS	08
Customer PO date	C_PODATE	DATS	08
Transfer order confirmation date	C_ERSDA	DATS	08
Organization	MVSDSO502		
Source System	OLOGSYS	CHAR	10
Company code	C_COMPDE	CHAR	04
Plant	C_PLANT	CHAR	04
Material	MVSDSO503		
Material	C_MATNR2	CHAR	18
Material Plant	C_MATPNT2	CHAR	18
Material group	C_MAT_GRP	CHAR	09
Commercial Product / Material C	C_PROD	CHAR	18
Customer	MVSDSO504		
Sold-to party	C_SOLDID	CHAR	10
Ship-to party	C_SHIPID	CHAR	10
Customer (Sales View)	C_CUSTSAL	CHAR	10
Reason/Types	MVSDSO505		
Sales document type	C_DOCTYP2	CHAR	04
Ship date type	C_DTTYPE	CHAR	03
Del date type	C_DTTYPE2	CHAR	03
Reversal indicator	OSTORNO	CHAR	01
Incoterms part (Core)	C_INCOTRM	CHAR	03
Non OTIF Reason	C_AUGRU	CHAR	03
Sales document item category	C_ITMCAT	CHAR	04

▶ Shipment	MVSDSO506		
▶ Order	MVSDSO507		
▼ Sales Org/Office	MVSDSO508		
• Sales Office	C_SAL_OFF	CHAR	04
• Sales Organization	C_SAL_ORG	CHAR	04
• Distribution Channel	C_DISTCHN	CHAR	02
• Division	C_DIVISN	CHAR	02
▼ GBU	MVSDSO509		
• BFC GBU	CPFCTR1_2	CHAR	02
• Controlling area	OCO_AREA	CHAR	04
• Sub-Activity 2	C_SUBACT2	CHAR	10
• Sub-activity	OG_CWWE01	CHAR	10
▼ GBR	MVSDSO50A		
• GBR: Customer end-use (Ship-t	C_GBR5	CHAR	10
• GBR: Customer gbu account ty	C_GBR11	CHAR	10
• GBR: Customer gbu account ty	C_GBR12	CHAR	10
• GBR: Customer gbu account ty	C_GBR13	CHAR	10
• GBR: Ship-to KA	C_GBR15	CHAR	10
• GBR: Customer end-use Mat Gr	C_GBR14	CHAR	10
• GBR: GBU Material Group	C_GBR18	CHAR	18
▼ OTIF Groups	MVSDSO50B		
• In Full Confirmed Detailed	C_INFULCD	CHAR	05
• In Full Requested Detailed	C_INFULRD	CHAR	05
• OTDCR Accuracy	C_OTDCRAC	CHAR	05
• OTDCR Delay Group	C_OTDCRDG	CHAR	01
• OTDFC Accuracy	C_OTDFCAC	CHAR	05
• OTDFC Delay Group	C_OTDFCDG	CHAR	01
• OTDLC Accuracy	C_OTDLCAC	CHAR	05
• OTDLC Delay Group	C_OTDLCDG	CHAR	01
• OTSCR Accuracy	C_OTSCRAC	CHAR	05
• OTSCR Delay Group	C_OTSCRDG	CHAR	01
• OTSFC Accuracy	C_OTSFCAC	CHAR	05
• OTSFC Delay Group	C_OTSFCDG	CHAR	01
• OTSLC Accuracy	C_OTSLCAC	CHAR	05
• OTSLC Delay Group	C_OTSLCDG	CHAR	01


Details - Key Figures

▼ Key Figures			
▼ Tolerance	TOLERANCE		
• Late Tolerance in days	K_TOLDAY	INT4	04
• Early Tolerance in days	K_TOLDAY2	INT4	04
• Tolerance Limit for Over Delivery	OUPPR_BND	DEC	09
• Tolerance Limit for Under Delivery	OLOWR_BND	DEC	09
▼ Quantity	QUANTITY		
• Desired Delivery Quantity	OREQU_QTY	QUAN	09
• Confirmed quantity	OCONF_QTY	QUAN	09
• Actual quantity delivered (in sales)	ODLV_QTY	QUAN	09
• Cumulative order quantity in sales	OCML_OR_QTY	QUAN	09
• Gap Quantity (order requested - confirmed)	K_GAPQTY	QUAN	09
• Gap Quantity (order confirmed - delivered)	K_GAPQTY2	QUAN	09
• Gap Quantity (order requested - cumulative confirmed)	K_GAPQTY3	QUAN	09
• Cumulative confirmed quantity	OCML_CF_QTY	QUAN	09
▼ OTIF	OTIF		
• In full Requested (IFR)	K_INFULLR	INT4	04
• In full Confirmed (IFC)	K_INFULLC	INT4	04
• On Time Delivery Customer Requested	K_OTDCR	INT4	04
• On Time Delivery First Confirmation	K_OTDFC	INT4	04
• On Time Delivery Last Confirmation	K_OTDLC	INT4	04
• On Time Shipment Customer Requested	K_OTSCR	INT4	04
• On Time Shipment First Confirmation	K_OTSFC	INT4	04
• On Time Shipment Last Confirmation	K_OTSLC	INT4	04
▼ Days	DAYS		
• SO: Lead Time (Cust.PO x req.)	K_SOLEAD1	DEC	09
• SO: Lead Time (Cust.PO x achieved)	K_SOLEAD2	DEC	09
• SO: Lead Time (Cust.PO x req.)	K_SOLEAD3	DEC	09
• SO: Lead Time (Cust.PO x achieved)	K_SOLEAD4	DEC	09
• OTDCR Delay days	K_OTDCRDD	INT4	04
• OTDFC Delay days	K_OTDFCDD	INT4	04
• OTDLC Delay days	K_OTDLCDD	INT4	04
• OTSCR Delay days	K_OTSCRDD	INT4	04
• OTSFC Delay days	K_OTSFCDD	INT4	04
• OTSLC Delay days	K_OTSLCDD	INT4	04
▼ Counter	COUNTER		
• Counter	K_COUNTER	DEC	09

Cube CRSDSO10 - OTIF Sales (Solvay)

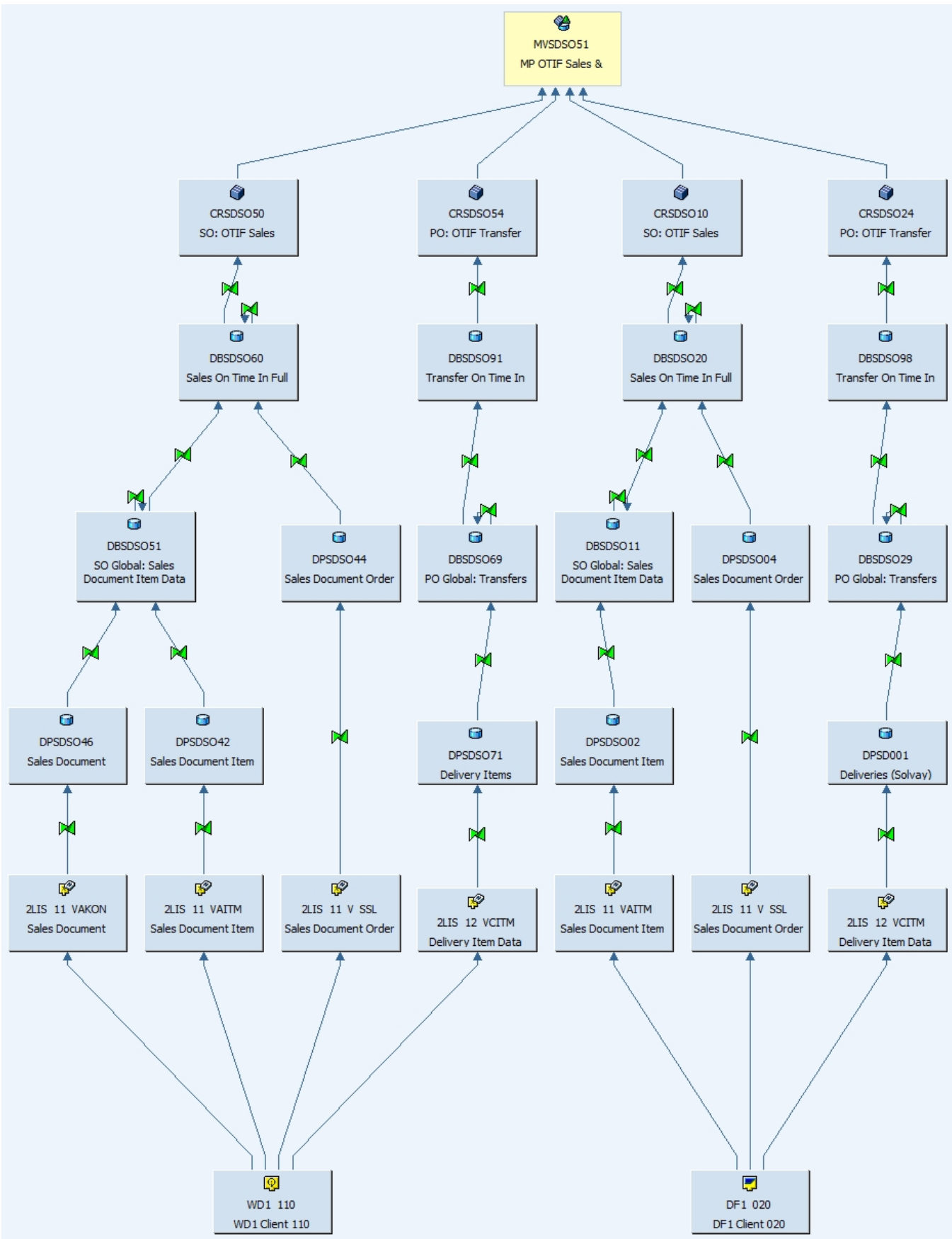
Cube CRSDSO50 - OTIF Sales (Rhodia)

▼ SO: O.T.I.F. (Solvay)	CRSDSO10
▼ Object Information	
• Version	◆ In Process
• Save	⊕ Saved
• Revised Version	≡ Active Version
• Object Status	⊞ Active, executable
▶ Settings	
▼ Dimensions	
▶ Data Package	CRSDSO10P
▶ Time	CRSDSO10T
▶ Unit	CRSDSO10U
▶ Req.Del Date	CRSDSO101
▶ Organization	CRSDSO102
▶ Material	CRSDSO103
▶ Reason / Type	CRSDSO104
▶ Customer	CRSDSO105
▶ Delivery date	CRSDSO106
▶ Cust PO	CRSDSO107
▶ Sales Order	CRSDSO108
▶ Sales Order Line	CRSDSO109
▶ Shipment	CRSDSO10A
▶ Dates	CRSDSO10B
▶ OTIF Groups	CRSDSO10C
▶ Mat.Availability	CRSDSO10D
▶ Navigation Attributes	
▶ Key Figures	

▼ SO: O.T.I.F. (Rhodia)	CRSDSO50
▼ Object Information	
• Version	◆ In Process 
• Save	➕ Saved
• Revised Version	≡ Active Version
• Object Status	📦 Active, executable
▶ Settings	
▼ Dimensions	
▶ Data Package	CRSDSO50P
▶ Time	CRSDSO50T
▶ Unit	CRSDSO50U
▶ Req.Del Date	CRSDSO501
▶ Organization	CRSDSO502
▶ Material	CRSDSO503
▶ Reason / Type	CRSDSO504
▶ Customer	CRSDSO505
▶ OTIF Groups	CRSDSO506
▶ Delivery date	CRSDSO507
▶ Sales Order	CRSDSO508
▶ Order Line	CRSDSO509
▶ Shipment	CRSDSO50A
▶ Dates	CRSDSO50B
▶ Cust PO	CRSDSO50C
▶ Mat.Availability	CRSDSO50D
▶ Navigation Attributes	
▶ Key Figures	

Multi Provider MVSDSO51 - OTIF Transfer Global - DATA FLOW

This multi provider is used to manage the OTIF indicators for all sales and transfer processes (Solvay & Rhodia)



Cubes:

CRSDSO54: PO: OTIF Transfer (Rhodia)

As part of the change # 4028391,excluded return items from this cube .Added filter in below DTP's to exclude Return Items.

DTP: DBSDSO91 -> CRSDSO54 (Rhodia)

DTP: DBSDSO91 -> DBSDSO9E (Rhodia)

DTP: DBSDSO98 -> CRSDSO24 (Solvay)

DTP: DBSDSO98 -> DBSDSO9F (Solvay)

CRSDSO24: PO: OTIF Transfer (Solvay)

As part of the change # 4028391,excluded return items from this cube .Added filter in below DTP's to exclude Return Items.

DTP: DBSDSO91 -> CRSDSO54 (Rhodia)

DTP: DBSDSO91 -> DBSDSO9E (Rhodia)

DTP: DBSDSO98 -> CRSDSO24 (Solvay)

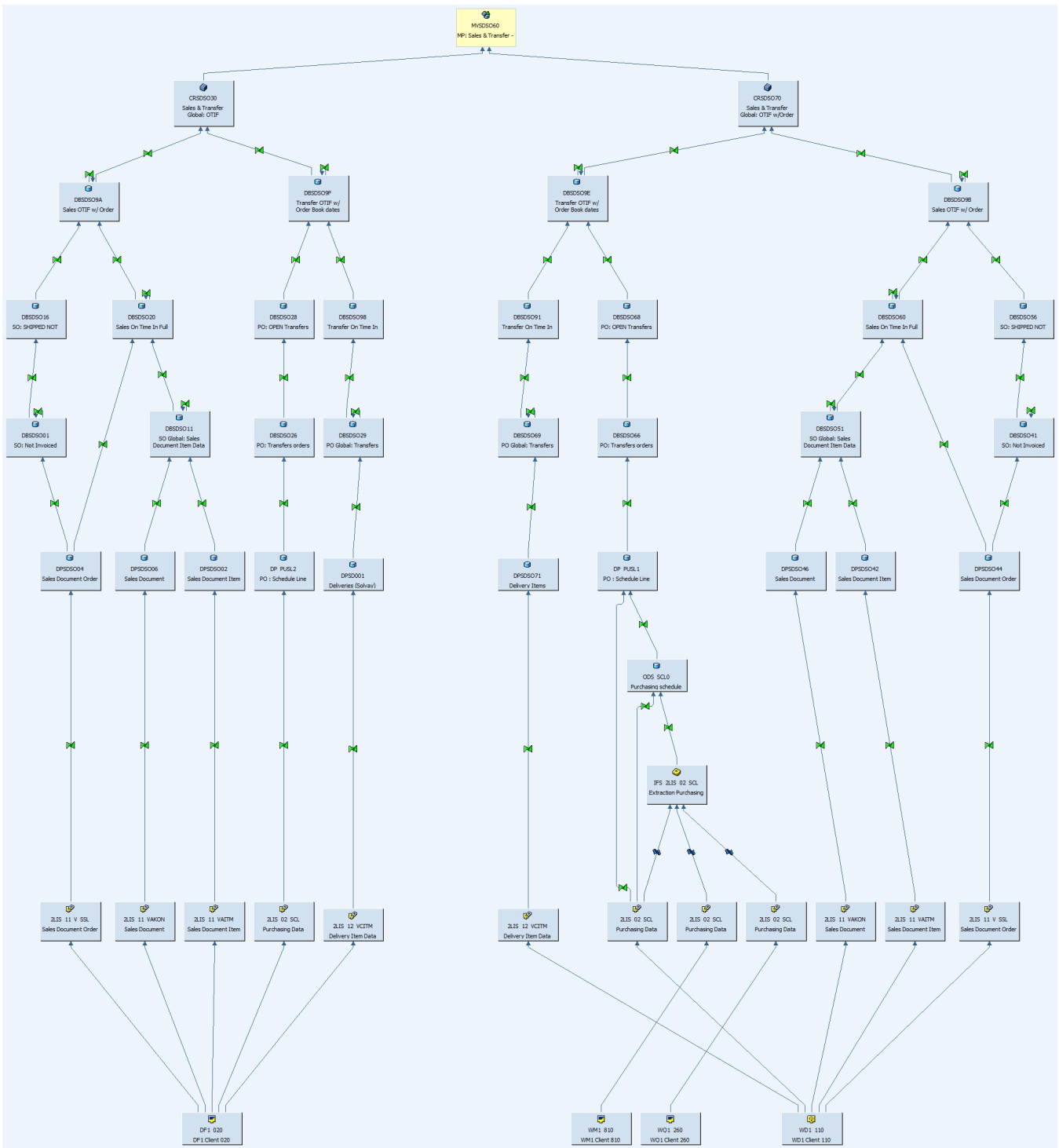
DTP: DBSDSO98 -> DBSDSO9F (Solvay)

CRSDSO50: SO: OTIF Sales (Rhodia)

CRSDSO10: SO: OTIF Sales (Solvay)

Multi Provider MVSDSO60 - MP Sales & Transfer for OTIF with Order Book dates - DATA FLOW

This multi provider is used to manage the OTIF indicators for all sales and transfer processes (Solvay & Rhodia) matched with order book snapshot data, in order to know the opened orders



Details - DSO's used in MP

This multi provider is based on two cubes that receive data from DSO's that mix data from OTIF and order book snapshot. The DSO's used here are: DBSDSO9A (OTIF Sales & order book Solvay), DBSDSO9B (OTIF Sales & order book Rhodia), DBSDSO9E (OTIF Transfer & order book Solvay), DBSDSO9F (OTIF Transfer & order book Rhodia)

MP Details - Characteristics

MP: Sales & Transfer - OTIF w/ orderbook dates	MVSDSO60		
▶ Object Information			
▼ Dimensions			
▶ Data Package	MVSDSO60P		
▶ Time	MVSDSO60T		
▶ Unit	MVSDSO60U		
▼ Dates	MVSDSO601		
• Actual goods issue date	OACT_GI_DTE	DATS	08
• Actual GI date (month)	C_ACT_GI	NUMC	06
• Actual GI date (year)	C_ACT_GIY	NUMC	04
• Actual GI date (week)	C_ACT_GI2	NUMC	06
• Shipment Planned GI Date	OPLD_GI_DTE	DATS	08
• Customer PO date	C_PODATE	DATS	08
• PO confirmation date	C_ERSDA	DATS	08
• Achieved Shipment Date	C_ACHSHIP	DATS	08
• Achieved Delivery Date	C_ACHDLV	DATS	08
• To be Invoiced (month)	C_TBI2	NUMC	06
• To be Invoiced (week)	C_TBI3	NUMC	06
• To be Issued (month)	C_TBI5	NUMC	06
• To be Issued (week)	C_TBI6	NUMC	06
• To be Issued date	C_TBIDAT2	DATS	08
• To be Invoiced date	C_TBIDATE	DATS	08
• Date for invoice/billing index and printout	OBILL_DATE	DATS	08
• Billing Date (Year/Month)	C_INVDAT	NUMC	06
• Billing Date (Year)	C_INVDAT2	NUMC	04
• Last ATP GI date (Year/Month)	C_LASTGIM	NUMC	06
• Last ATP GI date (Year/Week)	C_LASTGIW	NUMC	06
• Last ATP GI date (Year)	C_LASTGIY	NUMC	04
• Sched. line Last ATP date (Year/Month)	C_LSTATPM	NUMC	06
• Sched. line Last ATP date (Year/Week)	C_LSTATPW	NUMC	06
• Sched. line Last ATP date (Year)	C_LSTATPY	NUMC	04
• Customer last req. del. date (Month/Year)	C_LSTREQM	NUMC	06
• Customer last req. del. date (Year/Week)	C_LSTREQW	NUMC	06
• Customer last req. del. date (Year)	C_LSTREQY	NUMC	04
• Last req. GI date (Year/Month)	C_LTRQGIM	NUMC	06
• Last req. GI date (Year/Week)	C_LTRQGIW	NUMC	06
• Last req. GI date (Year)	C_LTRQGIY	NUMC	04
• Sched. line 1st ATP (month)	C_FSTATPM	NUMC	06
• Sched. line 1st ATP (week)	C_FSTATPW	NUMC	06
• Sched. line 1st ATP (Year)	C_FSTATPY	NUMC	04
• 1st ATP GI (month)	C_FRSTGIM	NUMC	06

• 1st ATP GI (week)	C_FRSTGIW	NUMC	06
• 1st ATP GI (year)	C_FRSTGIY	NUMC	04
▶ Organization	MVSDSO602		
▶ Material	MVSDSO603		
▶ Customer	MVSDSO604		
▼ Reason/Types	MVSDSO605		
• Order document type	C_DOCTYP2	CHAR	04
• Shipment date type	C_DTTYPE	CHAR	03
• Delivery date type	C_DTTYPE2	CHAR	03
• Reversal indicator	0STORNO	CHAR	01
• Non OTIF Reason	C_AUGRU	CHAR	03
• Sales document item category	C_ITMCAT	CHAR	04
• Service Level	C_SERVLVL	CHAR	03
• NON OTIF Type	C_NOTITYP	CHAR	10
• NON OTIF Reason Code Needed	C_OTFNDCD	CHAR	01
• Incoterms (Order)	C_INCOTRM	CHAR	03
• Special Processing Indicator	C_SDABW	CHAR	04
• Incoterms 2 (Order)	C_INCOTM2	CHAR	28
• Delivery type	C_DELTYPE	CHAR	04
• Alert 1 - Last ATP <> Last Req Deliv	C_OTIFAL1	CHAR	01
• To be Issued Type	C_TBISTYP	CHAR	01
▶ Shipment	MVSDSO606		
▶ Order	MVSDSO607		
▶ Sales Org/Office	MVSDSO608		
▼ GBU	MVSDSO609		
• GBU	CPFCTR1_2	CHAR	02
• Sub-activity	0G_CWWE01	CHAR	10
▼ OTIF Groups	MVSDSO60A		
• In Full Confirmed Detailed	C_INFULCD	CHAR	05
• In Full Requested Detailed	C_INFULRD	CHAR	05
• OTDCR Accuracy	C_OTDCRAC	CHAR	05
• OTDCR Delay Group	C_OTDCRDG	CHAR	01
• OTDFC Accuracy	C_OTDFCAC	CHAR	05
• OTDFC Delay Group	C_OTDFCDG	CHAR	01
• OTDLC Accuracy	C_OTDLCAC	CHAR	05
• OTDLC Delay Group	C_OTDLCDG	CHAR	01
• OTSCR Accuracy	C_OTSCRAC	CHAR	05
• OTSCR Delay Group	C_OTSCRDG	CHAR	01
• OTSFC Accuracy	C_OTSFAC	CHAR	05
• OTSFC Delay Group	C_OTSFCDG	CHAR	01
• OTSLC Accuracy	C_OTSLCAC	CHAR	05

MP Details - Key figures

▼ Amount	AMOUNT		
• Net value of the order item in document currency	ONET_VALUE	CURR	09
• Net value of rest to be delivered (SU)	K_TBI1	CURR	09
• Net value of not sheduled	K_NSCHVL	CURR	09
▼ Tolerance	TOLERANCE		
• Late Tolerance in days	K_TOLDAY	INT4	04
• Early Tolerance in days	K_TOLDAY2	INT4	04
• Tolerance Limit for Over Delivery in %	OUPPR_BND	DEC	09
• Tolerance Limit for Under Delivery in %	OLOWR_BND	DEC	09
▼ Quantity	QUANTITY		
• Actual quantity delivered (in sales units)	ODLV_QTY	QUAN	09
• Cumulative order quantity in sales units	OCML_OR_QTY	QUAN	09
• Gap Quantity (order requested X delivery)	K_GAPQTY	QUAN	09
• Gap Quantity (order confirmed X delivery)	K_GAPQTY2	QUAN	09
• Gap Quantity (order requested X confirmed)	K_GAPQTY3	QUAN	09
• Cumulative confirmed quantity in sales unit	OCML_CF_QTY	QUAN	09
• Rest to be deliverd (in sales unit)	K_NONDEL	QUAN	09
• Not Scheduled Requested Quantity	K_NSCHERQ	QUAN	09
▼ OTIF	OTIF		
• In full Requested (IFR)	K_INFULLR	INT4	04
• In full Confirmed (IFC)	K_INFULLC	INT4	04
• On Time Delivery Customer Request (OTD CR)	K_OTDCR	INT4	04
• On Time Delivery First Confirmation (OTD FC)	K_OTDFC	INT4	04
• On Time Delivery Last Confirmation (OTD LC)	K_OTDLC	INT4	04
• On Time Shipment Customer Request (OTS CR)	K_OTSCR	INT4	04
• On Time Shipment First Confirmation (OTS FC)	K_OTSFC	INT4	04
• On Time Shipment Last Confirmation (OTS LC)	K_OTSLC	INT4	04
▼ Days	DAYS		
• OTDCR Delay days	K_OTDCRDD	INT4	04
• OTDFC Delay days	K_OTDFCDD	INT4	04
• OTDLC Delay days	K_OTDLCDD	INT4	04
• OTSCR Delay days	K_OTSCRDD	INT4	04
• OTSFC Delay days	K_OTSFCDD	INT4	04
• OTSLC Delay days	K_OTSLCDD	INT4	04
• SO: Lead Time (Cust.PO x req.mat.avail)	K_SOLEAD1	DEC	09
• SO: Lead Time (Cust.PO x achieved GI)	K_SOLEAD2	DEC	09
• SO: Lead Time (Cust.PO x req. delivery)	K_SOLEAD3	DEC	09
• SO: Lead Time (Cust.PO x achieved delivery)	K_SOLEAD4	DEC	09
• SO: LeadTime Requested (Creation X last cus	K_SOLEAD5	DEC	09
• SO: LeadTime FirstComm (Creation X sched li	K_SOLEAD6	DEC	09

Functional and Technical rules on Workbench + Reporting

Rules & Explanations

Main documentation:

Preparation

Global Sales Presentation

Design

OTIF Requirements

OTIF Specification for Rhodia (B14)

Deployment

OTIF Proofing

Business Rules

Get the GBU code

For Rhodia

Using distribution channel and division from material, get the IECRA code in master data C_CDSA

```
** NEW for subactivity (IECRA)
UNASSIGN <fs_cdsa>.
READ TABLE itb_cdsa ASSIGNING <fs_cdsa>
WITH KEY c_cdsa = <result_fields>-/bic/c_distchn
        division = <result_fields>-/bic/c_divisn.
IF sy-subrc = 0
AND <fs_cdsa> IS ASSIGNED.
    <result_fields>-g_cwwe01 = <fs_cdsa>-g_cwwe01.
ENDIF.
```

Using IECRA code, get the sub-activity in master data g_cwwe01

```
UNASSIGN <fs_subact>.
READ TABLE itb_subact ASSIGNING <fs_subact>
WITH KEY g_cwwe01 = <result_fields>-g_cwwe01.
IF sy-subrc = 0
AND <fs_subact> IS ASSIGNED.
    <result_fields>-/bic/cpfctrl_2 = <fs_subact>-cpfctrl_2.
ENDIF.
```

For Solvay

using business area, get the technical business area in master data C_techba

```
READ TABLE itb_gbu INTO itb_gbu_w
WITH KEY c_techba = <result_fields>-/bic/c_techba.

IF sy-subrc EQ 0.
    IF itb_gbu_w-cpfctrl_2 IS NOT INITIAL.
        <result_fields>-/bic/cpfctrl_2 = itb_gbu_w-cpfctrl_2.
    ENDIF.

    IF itb_gbu_w-c_rest_ba IS NOT INITIAL.

        <result_fields>-g_cwwe01 = itb_gbu_w-c_rest_ba .

        CALL FUNCTION 'CONVERSION_EXIT_ALPHA_INPUT'
            EXPORTING
                input = itb_gbu_w-c_rest_ba
            IMPORTING
                output = <result_fields>-/bic/c_subact2.
```

The function above is used to fill zeros left

The code below takes the GBU code from master data sub-activity (g_cwwe01)

```
IF <result_fields>-g_cwwe01 IS NOT INITIAL.  
  UNASSIGN <fs_subact>.  
  READ TABLE itb_subact ASSIGNING <fs_subact>  
  WITH KEY g_cwwe01 = <result_fields>-g_cwwe01.  
  IF sy-subrc = 0  
  AND <fs_subact> IS ASSIGNED.  
    <result_fields>-/bic/cpfctrl_2 = <fs_subact>-cpfctrl_2.  
  ENDIF.  
ENDIF.
```

Calculation Rules

Define the ship end date type according to the content of fields actual shipment, planned shipment of GI date

```
IF <result_fields>-/bic/c_ddtype NE 'PGI'.  
  " Pick Actual Good Issue  
  
  IF v_shp_eact EQ '00000000'.  
    v_shp_eact = <result_fields>-dtshp_eact.  
    <result_fields>-/bic/c_ddtype2 = 'ASE'.  
    " Actual Shipment End  
  ENDIF.  
  
  IF v_shp_eact EQ '00000000'.  
    v_shp_eact = <result_fields>-dtshp_e_pl.  
    <result_fields>-/bic/c_ddtype2 = 'PSE'.  
    " Planned Shipment End  
  ENDIF.  
  
  IF v_shp_eact EQ '00000000'.  
    v_shp_eact = v_gi_date.  
    <result_fields>-/bic/c_ddtype2 = 'AGI'. " Actual Good Issue  
  ENDIF.  
  
ENDIF.
```

Define the good issue date reference

```
IF <result_fields>-act_gi_dte NE '00000000'.  
  v_gi_date = <result_fields>-act_gi_dte.  
ELSE.  
  IF <result_fields>-pld_gi_dte NE '00000000'.  
    v_gi_date = <result_fields>-pld_gi_dte.  
  ELSE.  
    v_gi_date = <result_fields>-gi_date.  
  ENDIF.  
ENDIF.
```

Redefine the good issue date reference when the order is a pickup

```
IF <result_fields>-/bic/c_pickflg = 'X' OR
   <result_fields>-/bic/c_doctyp2 = 'KE'.
```

```
   <result_fields>-/bic/c_ddtype = 'PGI'. "Picking Good Issue
   <result_fields>-/bic/c_ddtype2 = 'PGI'.
```

```
   IF <result_fields>-/bic/c_ersda NE '00000000'.
```

```
* Last Transfer Order Confirmation Date
```

```
   v_gi_date = <result_fields>-/bic/c_ersda.
```

```
   v_shp_eact = <result_fields>-/bic/c_ersda.
```

```
ELSE.
```

```
* Last Requested Good Issue Date
```

```
*   v_gi_date = <result_fields>-/bic/c_lstrqgi.
```

```
*   v_shp_eact = <result_fields>-/bic/c_lstrqgi.
```

```
* Last Actual Good Issue Date
```

```
   v_gi_date = <result_fields>-act_gi_dte.
```

```
   v_shp_eact = <result_fields>-act_gi_dte.
```

```
ENDIF.
```

Define the achieved delivery date and achieved shipment date

```
<result_fields>-/bic/c_achdlv = v_shp_eact.
```

```
<result_fields>-/bic/c_achship = v_gi_date.
```

Determine In Full requested considering the lower and upper tolerance

```
v_tol_uppr = <result_fields>-cml_or_qty *
            ( 100 + <result_fields>-uppr_bnd ) / 100.
```

```
v_tol_lowr = <result_fields>-cml_or_qty *
            ( 100 - <result_fields>-lowr_bnd ) / 100.
```

```
IF <result_fields>-dlv_qty BETWEEN v_tol_lowr AND v_tol_uppr.
```

```
   <result_fields>-/bic/k_infullr = 1.
```

```
ELSE.
```

```
   <result_fields>-/bic/k_infullr = 0.
```

```
ENDIF.
```

Generate the in full requested detailed with terms light, heavy or yes

```
IF <result_fields>-dlv_qty < v_tol_lowr.
```

```
   <result_fields>-/bic/c_infulrd = 'Light'.
```

```
ENDIF.
```

```
IF <result_fields>-dlv_qty > v_tol_uppr.
```

```
   <result_fields>-/bic/c_infulrd = 'Heavy'.
```

```
ENDIF.
```

```
IF <result_fields>-dlv_qty BETWEEN v_tol_lowr AND v_tol_uppr.
```

```
   <result_fields>-/bic/c_infulrd = 'Yes'.
```

```
ENDIF.
```

Determine In Full confirmed measure considering the lower and upper tolerance

```

v_tol_uppr = <result_fields>-cml_cf_qty *
            ( 100 + <result_fields>-uppr_bnd ) / 100.
v_tol_lowr = <result_fields>-cml_cf_qty *
            ( 100 - <result_fields>-lowr_bnd ) / 100.

IF <result_fields>-dlv_qty BETWEEN v_tol_lowr AND v_tol_uppr.
  <result_fields>-/bic/k_infullc = 1.
ELSE.
  <result_fields>-/bic/k_infullc = 0.
ENDIF.

```

Generate the in full confirmed detailed with terms light, heavy or yes

```

IF <result_fields>-dlv_qty < v_tol_lowr.
  <result_fields>-/bic/c_infulcd = 'Light'.
ENDIF.
IF <result_fields>-dlv_qty > v_tol_uppr.
  <result_fields>-/bic/c_infulcd = 'Heavy'.
ENDIF.
IF <result_fields>-dlv_qty BETWEEN v_tol_lowr AND v_tol_uppr.
  <result_fields>-/bic/c_infulcd = 'Yes'.
ENDIF.

```

Determine the differences between delivery quantity and requested quantity

```

<result_fields>-/bic/k_gapqty      = <result_fields>-dlv_qty -
                                   <result_fields>-cml_or_qty.

<result_fields>-/bic/k_gapqty2     = <result_fields>-dlv_qty -
                                   <result_fields>-cml_cf_qty.

<result_fields>-/bic/k_gapqty3     = <result_fields>-cml_or_qty -
                                   <result_fields>-cml_cf_qty.

```

Generate on time delivery customer request (OTD CR)

```

IF v_lstreq          EQ '00000000' OR
   v_shp_eact       EQ '00000000'.
   v_dif_date = '999'.
ELSE.
   v_dif_date = v_shp_eact - v_lstreq .
ENDIF.

IF v_dif_date BETWEEN <result_fields>-/bic/k_tolday2 AND
   <result_fields>-/bic/k_tolday.
   <result_fields>-/bic/k_otdcr = 1. "on time delivey
   <result_fields>-/bic/c_otdcrac = 'OTD'.

ELSE.

   <result_fields>-/bic/k_otdcr = 0. "not on time delivey

   IF v_dif_date < <result_fields>-/bic/k_tolday2.
     <result_fields>-/bic/c_otdcrac = 'EARLY'.

     IF <result_fields>-/bic/c_pickflg = 'X'.
       <result_fields>-/bic/k_otdcr = 1. "on time delivey
       <result_fields>-/bic/c_otdcrac = 'OTD'.
     ENDIF.
   ENDIF.

   IF v_dif_date > <result_fields>-/bic/k_tolday.
     <result_fields>-/bic/c_otdcrac = 'LATE'.
   ENDIF.
ENDIF.

```

Consider special NON OTIF reasons as OTIF

```

READ TABLE itb_augru INTO itb_augru_w
WITH KEY logsys = <result_fields>-logsys
      c_augru = <result_fields>-/bic/c_augru.

IF sy-subrc NE 0.
  itb_augru_w-c_otifok = ''.
ENDIF.

IF itb_augru_w-c_otifok = 'X' .

  <result_fields>-/bic/k_otdcr = 1.
  <result_fields>-/bic/k_otdcrdd = 0.
  <result_fields>-/bic/c_otdcrac = 'OTD'.
  <result_fields>-/bic/c_otdcrdg = 'A'.

  <result_fields>-/bic/k_otdfc = 1.
  <result_fields>-/bic/k_otdfcdd = 0.
  <result_fields>-/bic/c_otdfcac = 'OTD'.
  <result_fields>-/bic/c_otdfcdg = 'A'.

  <result_fields>-/bic/k_otdlc = 1.
  <result_fields>-/bic/k_otdlcdd = 0.
  <result_fields>-/bic/c_otdlcac = 'OTD'.
  <result_fields>-/bic/c_otdlcdg = 'A'.

  <result_fields>-/bic/k_otscr = 1.
  <result_fields>-/bic/k_otscrdd = 0.
  <result_fields>-/bic/c_otscrac = 'OTS'.
  <result_fields>-/bic/c_otscr dg = 'A'.

  <result_fields>-/bic/k_otsfc = 1.
  <result_fields>-/bic/k_otsfcdd = 0.
  <result_fields>-/bic/c_otsfcac = 'OTS'.
  <result_fields>-/bic/c_otsfc dg = 'A'.

  <result_fields>-/bic/k_otslc = 1.
  <result_fields>-/bic/k_otslcdd = 0.
  <result_fields>-/bic/c_otslcac = 'OTS'.
  <result_fields>-/bic/c_otslcdg = 'A'.

ENDIF.

```

Generate group of delays for OTDCR

```

IF v_dif_date < 0.
  v_dif_date = v_dif_date * ( -1 ).
ENDIF.

SELECT /bic/c_delgrp
  INTO <result_fields>-/bic/c_otdcrdg
FROM /bic/pc_delgrp
WHERE /bic/k_lowdays <= v_dif_date
  AND /bic/k_higdays >= v_dif_date
  AND /bic/c_delgrp <> ''.
ENDSELECT.

```

Generate OTDCR delay days

```

<result_fields>-/bic/k_otdcrdd = v_dif_date.

```

The same rules are applied for OTDFC, OTDLC, OTSCR, OTSFC, OTSLC just changing the date to be considered, see below:

For OTDFC uses the dates $v_dif_date = v_fstatp - v_shp_eact$ (difference between max first ATP and shipment end date)

For OTDLC uses the dates $v_dif_date = v_lstatp - v_shp_eact$ (difference between max last ATP and shipment end date)

Define the dates used in OTS CR (ON TIME SHIPMENT Customer request)

```

IF <result_fields>-/bic/c_ddtype NE 'PGI'.
  <result_fields>-/bic/c_ddtype = 'AGI'.
ENDIF.

```

```

DATA: v_lstrqgi TYPE /bic/oic_lstrqgi,
      v_firstgi TYPE /bic/oic_firstgi,
      v_lastgi TYPE /bic/oic_lastgi,
      v_endcomp TYPE /bic/oik_endcomp.

```

```

v_lstrqgi = <result_fields>-/bic/c_lstrqgi.
v_firstgi = <result_fields>-/bic/c_firstgi.
v_lastgi = <result_fields>-/bic/c_lastgi.

```

For OTSCR uses the dates $v_dif_date = v_lstrqgi - v_gi_date$ (difference between max actual GI date and last req delivery)

For OTSFC uses the dates $v_dif_date = v_firstgi - v_gi_date$ (difference between max actual GI date and first ATP GI)

For OTSLC uses the dates $v_dif_date = v_lastgi - v_gi_date$ (difference between max actual GI date and last ATP GI)

Generate OTIF necessary comment or reason

```

CLEAR v_otfndcd.

IF <result_fields>-/bic/k_otdcr = 0 OR
   <result_fields>-/bic/k_otdfc = 0 OR
   <result_fields>-/bic/k_otdlc = 0 OR
   <result_fields>-/bic/k_otscr = 0 OR
   <result_fields>-/bic/k_otsfc = 0 OR
   <result_fields>-/bic/k_otslc = 0 OR
   <result_fields>-/bic/k_infullc = 0 OR
   <result_fields>-/bic/k_infullr = 0.

   v_otfndcd = 'X'.
ENDIF.

IF v_otfndcd = 'X' AND
   <result_fields>-/bic/c_augru = ''.

   <result_fields>-/bic/c_otfndcd = 'X'. "'REASON CODE NEEDED'.
ENDIF.

```

Generate NON OTIF Type

```

CASE <result_fields>-/bic/c_augru.
  WHEN '740' OR '741' OR '742' OR '743' OR '744' OR '745'.
    <result_fields>-/bic/c_notityp = 'RED'. "REDRESS".
  WHEN '750' .
    <result_fields>-/bic/c_notityp = 'REDF'. "REDRESS FCA".
ENDCASE.

IF <result_fields>-/bic/c_notityp IS INITIAL.
  IF v_otfndcd = 'X'.
    <result_fields>-/bic/c_notityp = 'NOFP'. "NON OTIF-Process".
  ELSE.
    <result_fields>-/bic/c_notityp = 'OTIFOK'. "OTIF-Process OK".
  ENDIF.
ENDIF.

```

Determine LEADTIME calculations

Leadtime 1: difference between the customer PO Date (order line level - VBKD-BSTDK), and the requested material availability date

```

IF <result_fields>-/bic/c_podate EQ '00000000' OR
   <result_fields>-matav_date EQ '00000000'.
   <result_fields>-/bic/k_solead1 = '999'.
ELSE.
   <result_fields>-/bic/k_solead1 =
     <result_fields>-matav_date - <result_fields>-/bic/c_podate.
ENDIF.

```

Leadtime 2: difference between the customer PO Date (VBKD-BSTDK), and the achieved GI date (Max Actual GI Date)

```

IF <result_fields>-/bic/c_podate EQ '00000000' OR
  <result_fields>-act_gi_dte      EQ '00000000'.
  <result_fields>-/bic/k_solead2 = '999'.
ELSE.
  <result_fields>-/bic/k_solead2 =
    <result_fields>-act_gi_dte - <result_fields>-/bic/c_podate.
ENDIF.

```

Leadtime 3: difference between the customer PO Date, and the requested delivery date (Max Last Req Delivery)

```

IF <result_fields>-/bic/c_podate EQ '00000000' OR
  <result_fields>-dsdel_date      EQ '00000000'.
  <result_fields>-/bic/k_solead3 = '999'.
ELSE.
  <result_fields>-/bic/k_solead3 =
    <result_fields>-dsdel_date -
    <result_fields>-/bic/c_podate.
ENDIF.

```

Leadtime 4: difference between the customer PO Date and the achieved delivery date (Achieved Delivery Date)

```

IF <result_fields>-/bic/c_podate EQ '00000000' OR
  <result_fields>-act_dl_dte      EQ '00000000'.
  <result_fields>-/bic/k_solead4 = '999'.
ELSE.
  <result_fields>-/bic/k_solead4 =
    <result_fields>-act_dl_dte - <result_fields>-/bic/c_podate.
ENDIF.

```

Leadtime 5 : LeadTime Requested = Order line creation date - order line last customer req Goods Issue date

```

IF <fs_order>-createdon EQ '00000000' OR
  <result_fields>-/bic/c_lstrqgi  EQ '00000000'.
  <result_fields>-/bic/k_solead5 = '999'.
ELSE.
  <result_fields>-/bic/k_solead5 =
    <result_fields>-/bic/c_lstrqgi - <fs_order>-createdon .
ENDIF.

```

Leadtime 6 : LeadTime FirstCommitted = Order line creation date - schedule line 1st ATP (confirmed) GI date

```

IF <fs_order>-createdon EQ '00000000' OR
  <result_fields>-/bic/c_fstatp    EQ '00000000'.
  <result_fields>-/bic/k_solead6 = '999'.
ELSE.
  <result_fields>-/bic/k_solead6 =
    <result_fields>-/bic/c_fstatp - <fs_order>-createdon.
ENDIF.

```

Leadtime 7 : LeadTime Actual = Order line creation date - actual GI date

```

IF <fs_order>-createdon EQ '00000000' OR
  v_gi_date EQ '00000000'.
  <result_fields>-/bic/k_solead7 = '999'.
ELSE.
  <result_fields>-/bic/k_solead7 =
    v_gi_date - <fs_order>-createdon.
ENDIF.

```

Leatime 8 : Last Req GI date - Customer PO

```

IF <result_fields>-/bic/c_podate EQ '00000000' OR
  <result_fields>-/bic/c_lstrqgi EQ '00000000'.
  <result_fields>-/bic/k_solead8 = '999'.
ELSE.
  <result_fields>-/bic/k_solead8 =
    <result_fields>-/bic/c_lstrqgi -
    <result_fields>-/bic/c_podate.
ENDIF.

```

Leatime 9 : First Req GI date - Customer PO

```

IF <result_fields>-/bic/c_podate EQ '00000000' OR
  <fs_order>-c_fstrqgi EQ '00000000'.
  <result_fields>-/bic/k_solead9 = '999'.
ELSE.
  <result_fields>-/bic/k_solead9 =
    <fs_order>-c_fstrqgi - <result_fields>-/bic/c_podate.
ENDIF.
ENDIF.

```

Unit conversions

The Unit conversion is done in the Bex queries (Quantity Conversion Type), after user chooses the unit conversion on reports

Transactionnal data are stored in sales unit

- if base unit / po unit is managed in dimension MASS, conversion within table T006 works well
- if base unit / po unit is not managed in dimension MASS, conversions for KG/LB/TO have to be managed on ERP side (MM03 / Alternative Conversion).

There are many "special" units on Solvay ERP, ie: 1KG, 1TN, VKG, KRE,

Important :

Quantities are not converted when loading data, and are not store into cubes (The conversion is done when running the report)

So, if a conversion is missing for a material ask the material referent to

1- manage the conversion on ERP Side by managed the material master (MM03) / unit of measure tab

2- the day after, when the DSO UOMCMAT2 is filled, the conversion is applied in the reports. It applies to whole data without any reloading.

The conversion type created by Global Sales queries is QCT_MATNR4 (see below the setup for it).

BW Quantity Conversion

BW Updated Qty Unit by Material

Dependencies with other applications

- It was created some master data in order to have the attributes shared with several applications: Sales Order line (C_ITM_SD), PO Line (C_ITM_GS)
- Data is consumed by Qlikview dashboard. The loadings in QV are daily. It runs a fixed scheduled, the loadings must be finished when the next start.
- There is an integration with SPRINT (purchase schedule lines) in order to take the PO schedule lines and identify all the transfers
- There is a link with TIERS in order to get the main shipment for each delivery

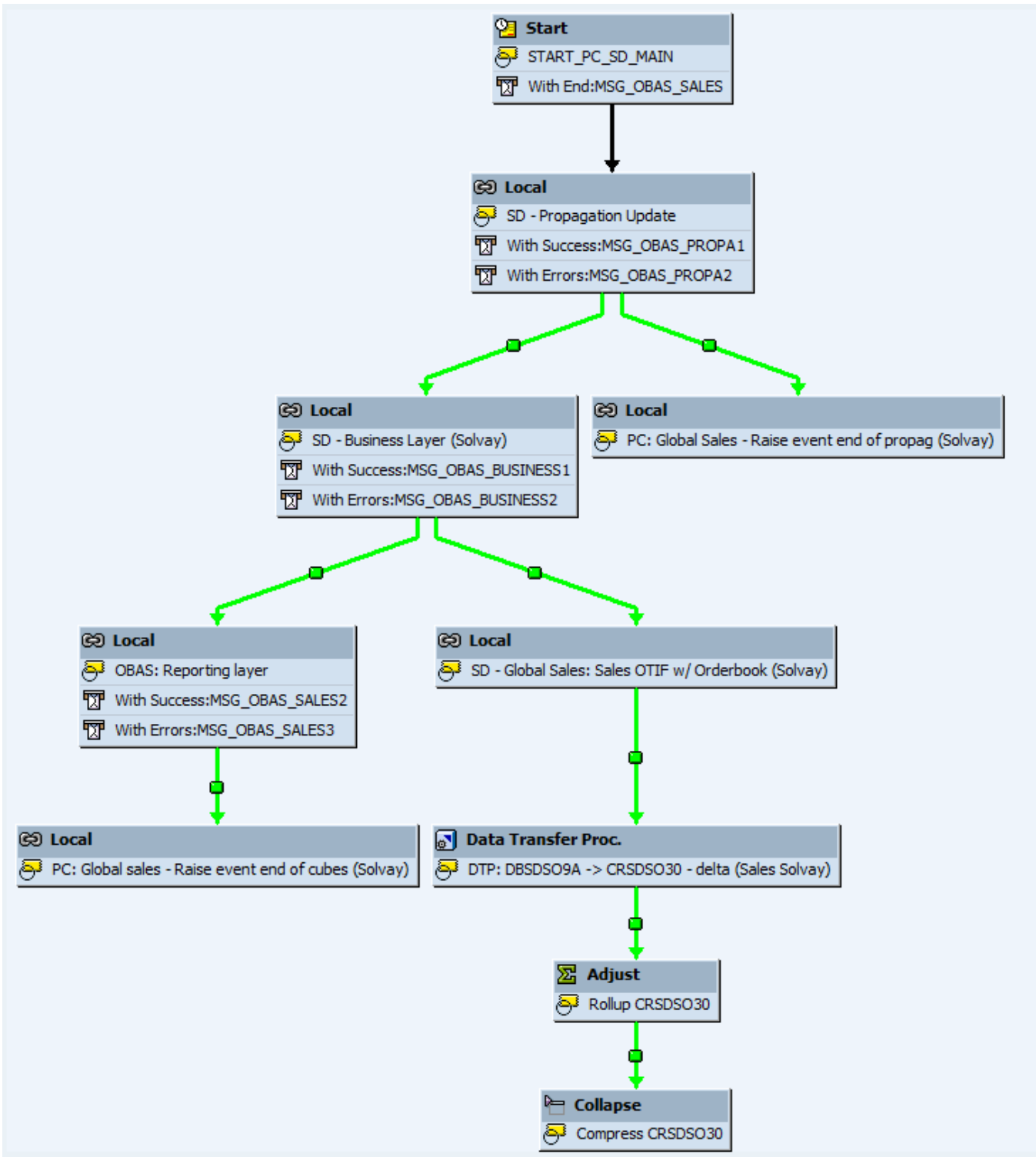
Data loadings

Info providers and objects loaded

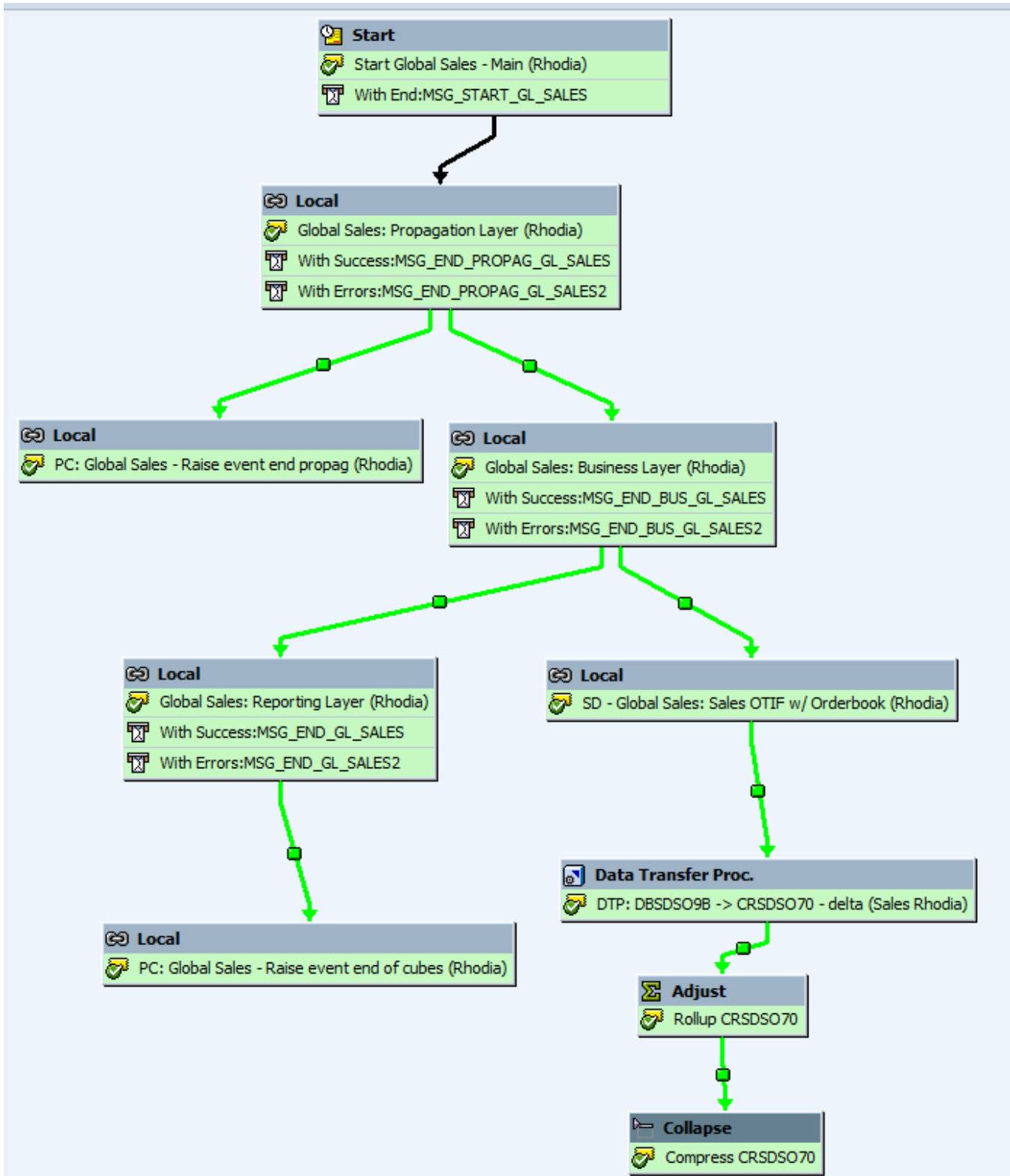
1 - Main Process Chain

This process chain is responsible to trigger and synchronize all Global Sales processes chains for Solvay and Rhodia. It is scheduled to run every workday inside the Daily process chain (RSP_DAILY) after general master data PC, around 3AM (French time) and TIERS.

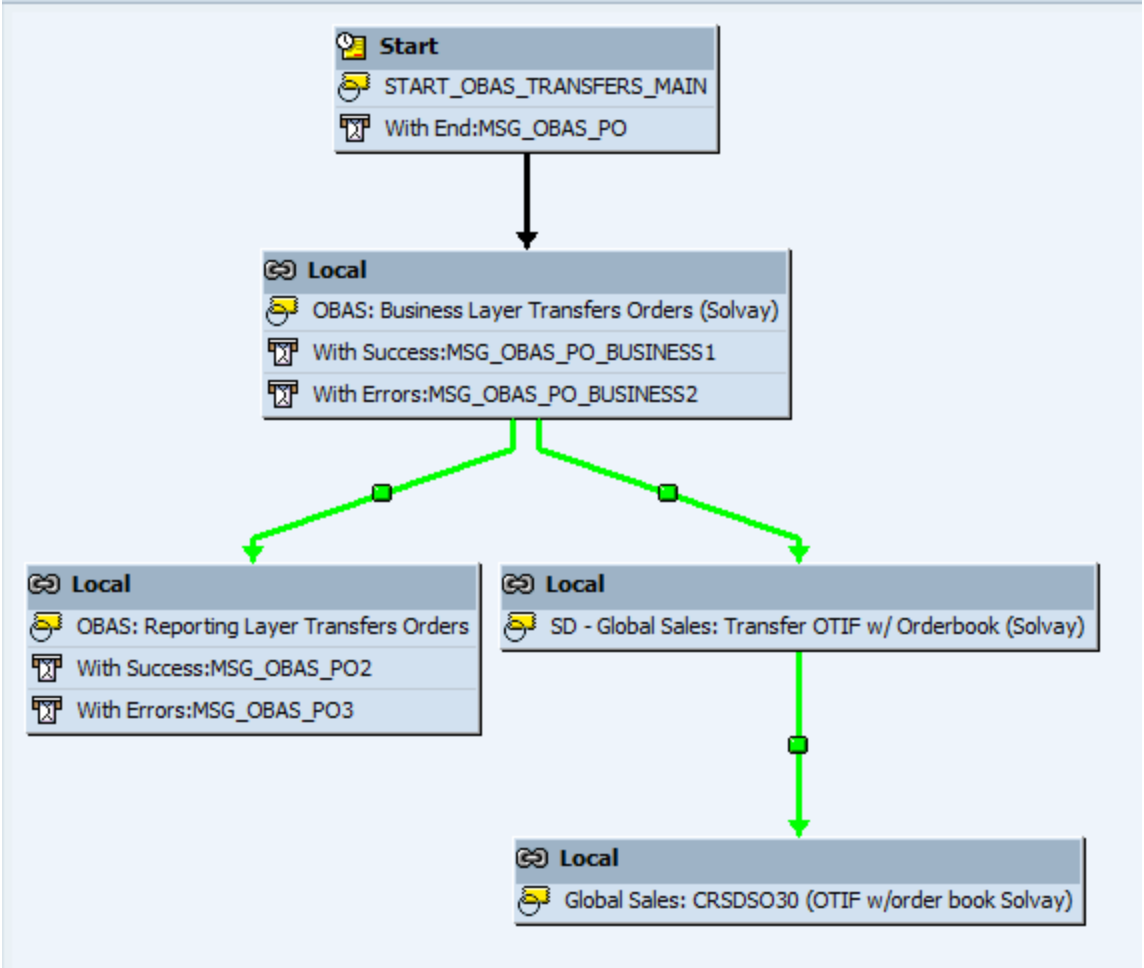
Sales - Part Solvay: PC_SD_MAIN (SD - Main Process Chain - UPTDATE DATA -)



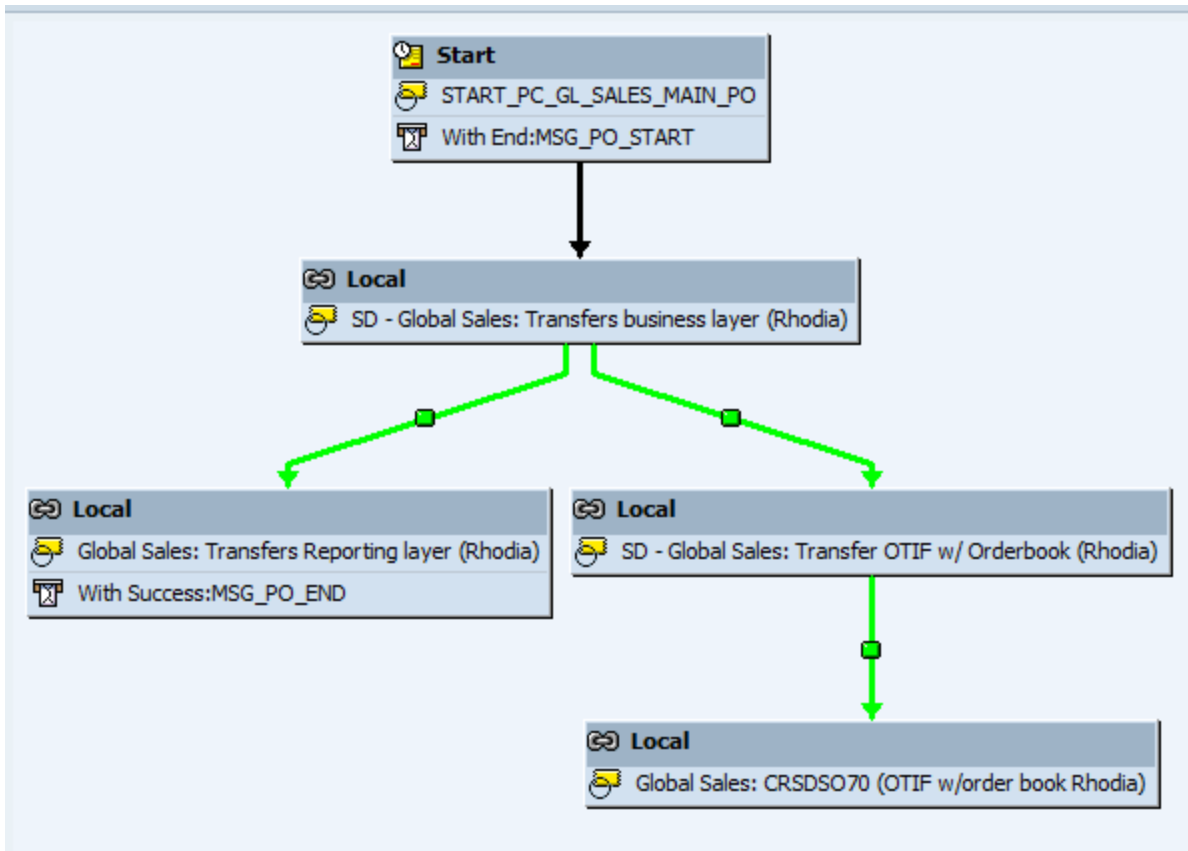
Sales - Part Rhodia : PC_GLOBAL_SALES_MAIN (PC: Global Sales: Main (Rhodia))



Transfer - Part Solvay: PC_OBAS_TRANSFERS_MAIN (OBAS: Transfers Orders Main chain)



Transfer - Part Rhodia: PC_GL_SALES_MAIN_PO (PC: Global Sales: Main transfers (Rhodia))



2 - Propagation Layer

This process chain is responsible to run the loads between source system and first layer in BW.

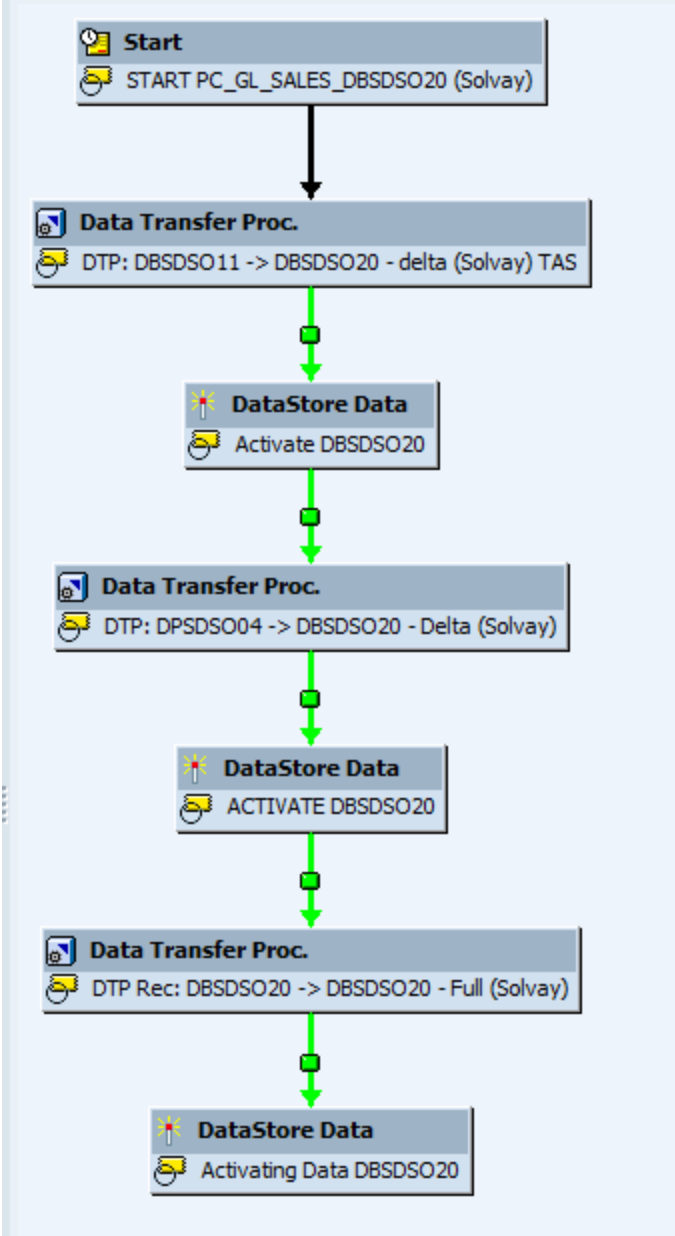
For OTIF process, all the processes in propagation layer are run in general Global Sales Process Chain

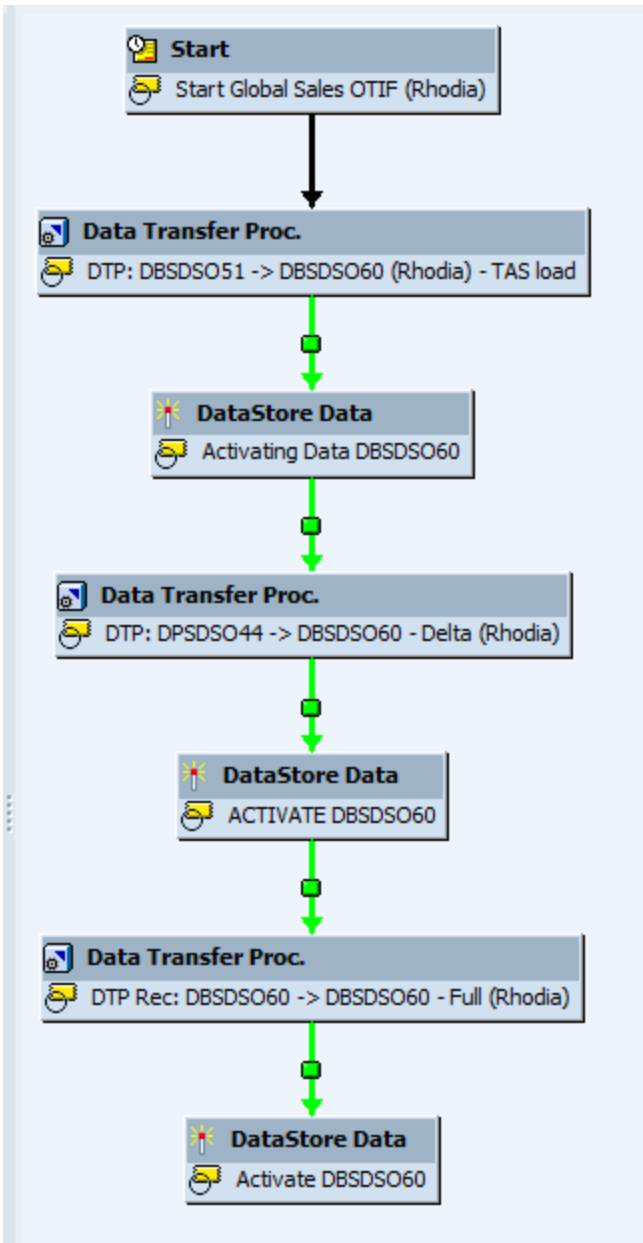
3 - Business Layer

This process chain is responsible to load the second and third layers from propagation layer.

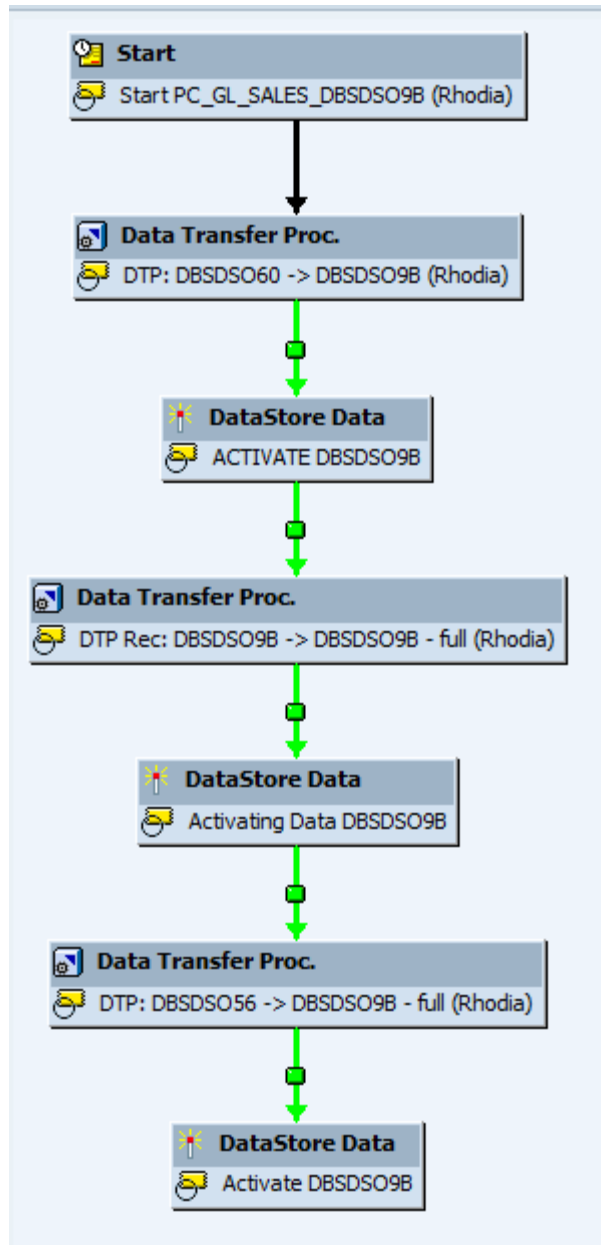
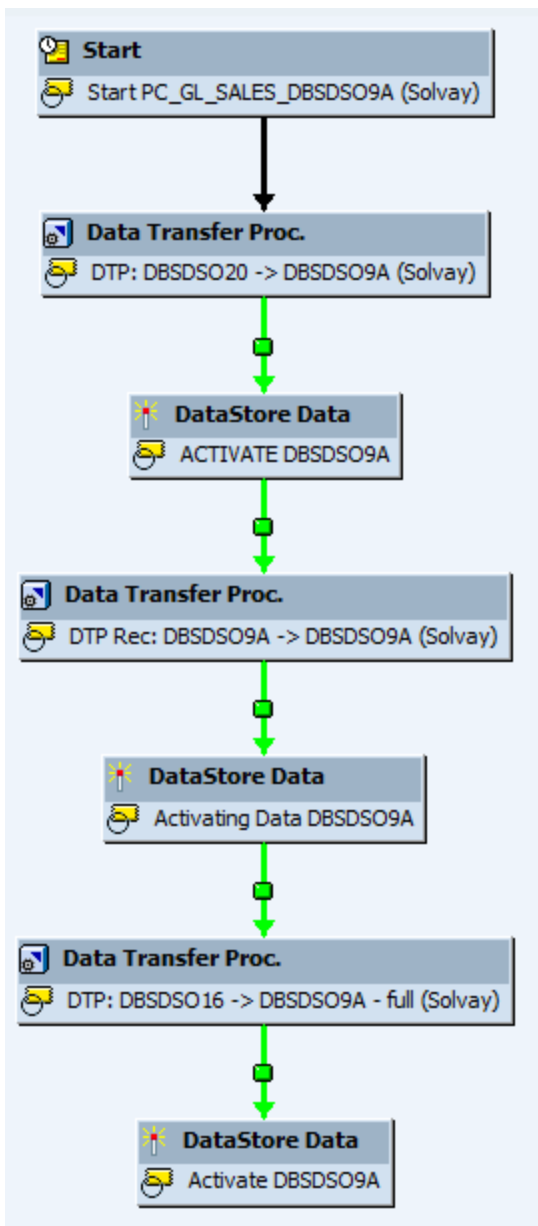
Main Processes for OTIF

PC_GL_SALES_DBSDSO20 (SD - Global Sales: OTIF (Solvay)) and PC_GL_SALES_DBSDSO60 (SD - Global Sales: OTIF (Rhodia))





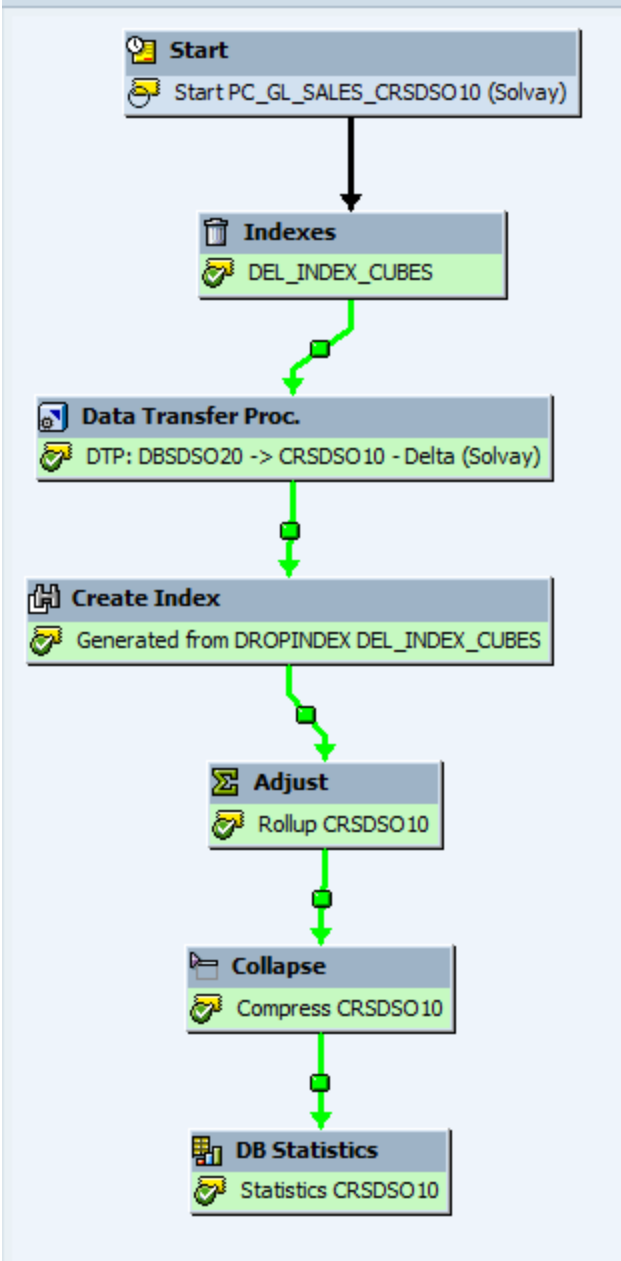
PC_GL_SALES_DBSDSO9A (SD - Global Sales: Sales OTIF w/ Orderbook (Solvay)) and PC_GL_SALES_DBSDSO9B (SD - Global Sales: Sales OTIF w/ Orderbook (Rhodia))

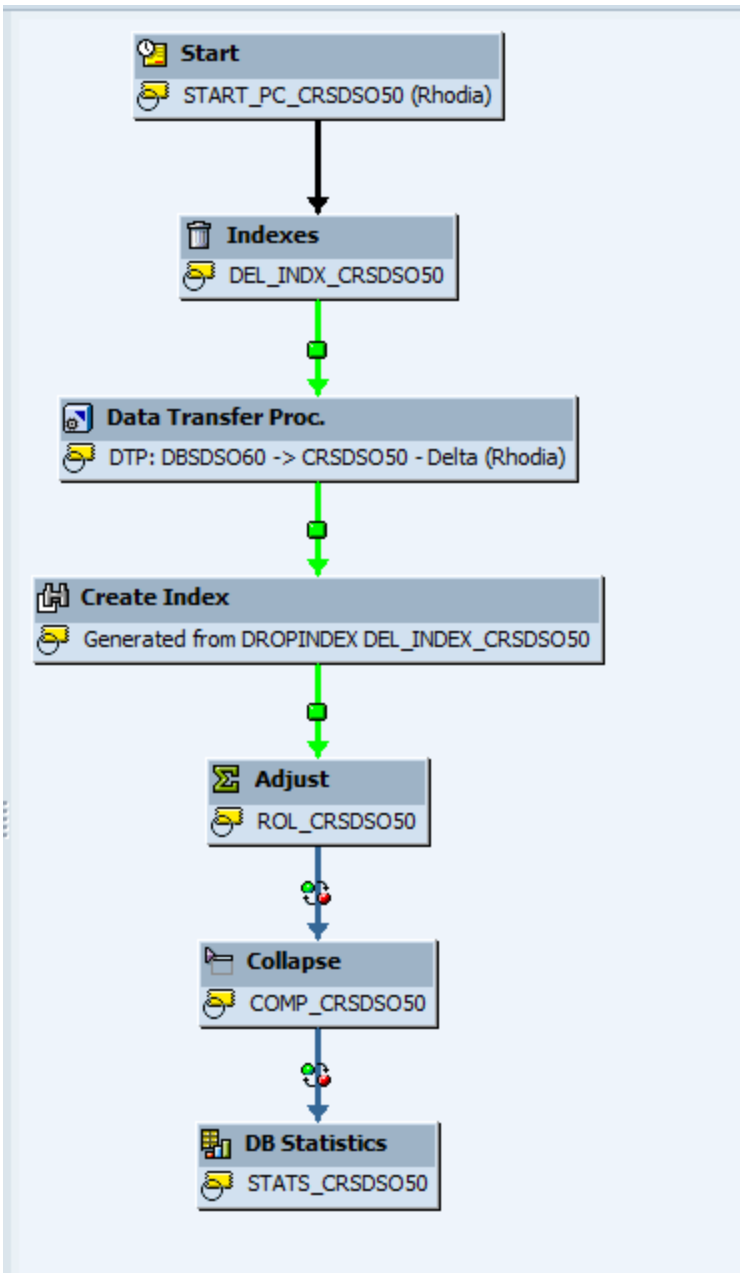


4 - Reporting Level

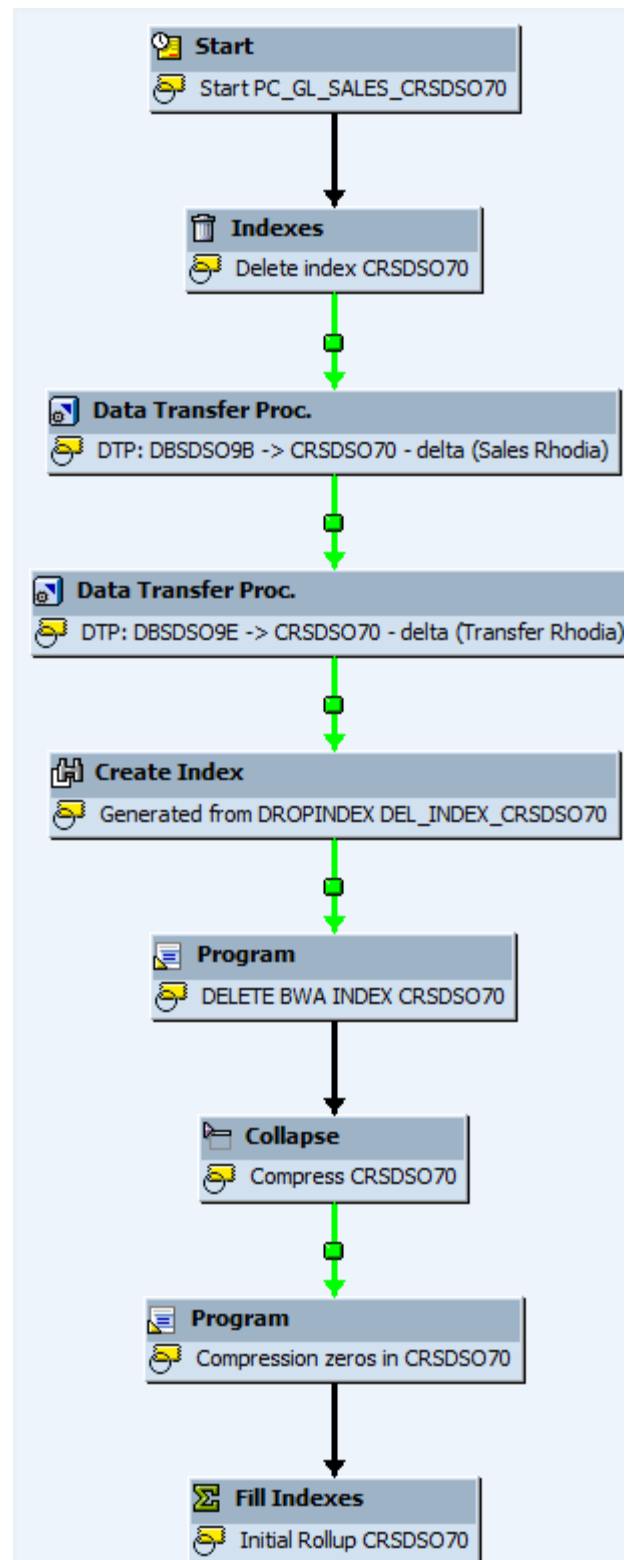
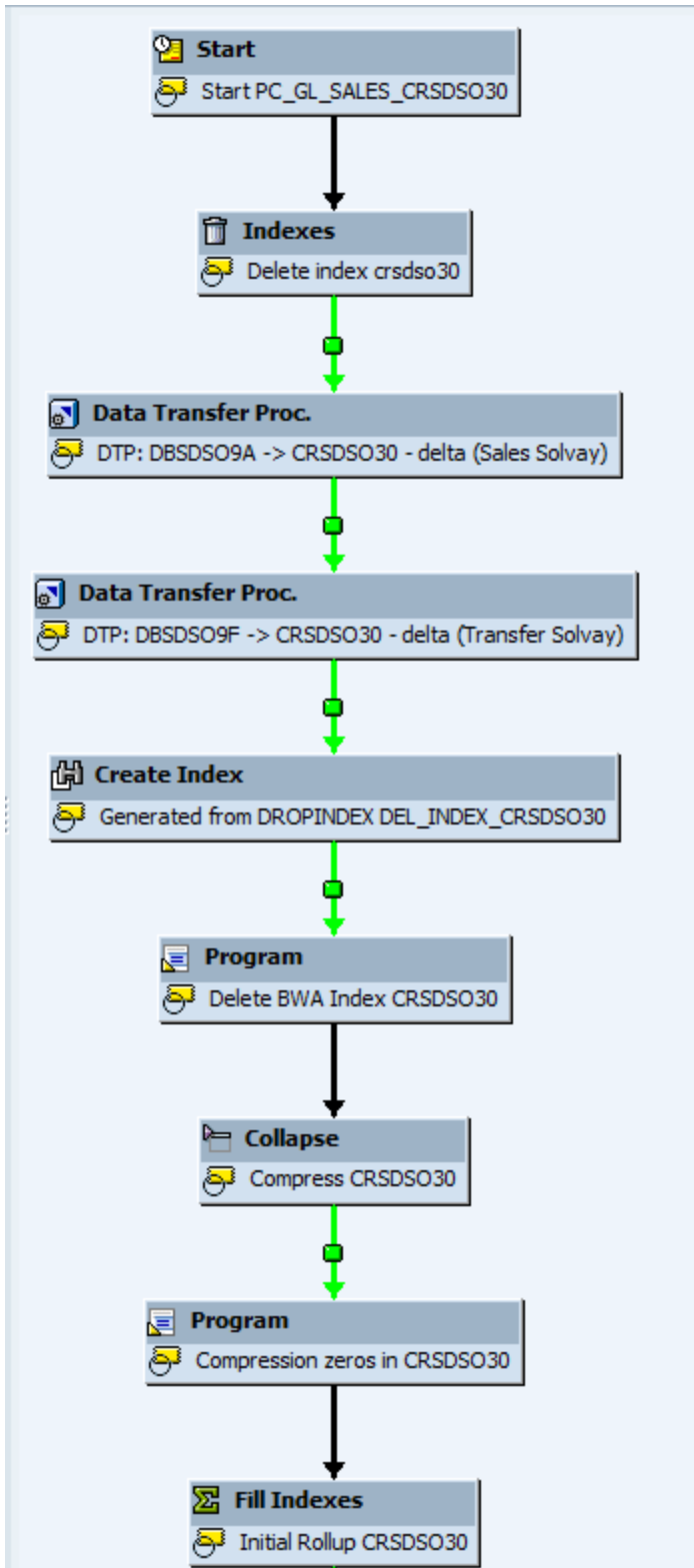
This process chain is responsible to load all the cubes

The most important ones are: PC_GL_SALES_CRSDSO10 (SD - Global Sales: Cube CRSDSO10 OTIF Sales (Solvay)) and PC_GL_SALES_CRSDSO50 (SD - Global Sales: Cube CRSDSO50 OTIF Sales (Rhodia))





PC_GL_SALES_CRSDSO30 (Global Sales: CRSDSO30 (OTIF w/order book Solvay)) and PC_GL_SALES_CRSDSO70 (Global Sales: CRSDSO70 (OTIF w/order book Rhodia))



5 - Master data

The most part of master data loads are splitted inside business process chains

6 - Text & maintenance

This process chain is responsible to load all the master data texts in BW.

Loading frequency

Daily loading inside the daily process chain

Average performance & monitoring

Daily process chain is loaded in 2 hours with around 30k lines in DELTA mode for a total of 10M lines in cubes.

See below an extract of 1 month of monitoring

Key Figure	Estimation
~ Average Process Chain Runtime	90 to 120 minutes
~ Average nb of rows loaded per load	Sales Order: Solvay 6K, Rhodia 2K Sales order deliveries: Solvay 40K, Rhodia 10K Sales order invoices: Solvay 9K, Rhodia 4K 1.200K records (all providers)
~ Total nb of rows loaded (if full)	Data is stored since 2014 Propagation Layer - Solvay 20.000K, Rhodia 10.000K Business Layer - Solvay 15.000K, Rhodia 8.000K Reporting - Solvay 15.000K, Rhodia 8.000K Master data - Solvay 11.000K, Rhodia 5.000K
~ Average Runtime for 10k lines	60 minutes

For details about application load monitoring, click in following link: [Application Monitoring](#)

Record Keeping

User defined that 3 full years stored is enough to be maintained in BW.

There is no automatic process to remove historical data, so any request about historical deletion should be done by user using Freshdesk ticket.

Modeling

Virtual Layer

MVSDSO50

MVSDSO51

MVSDSO60

Main datasources based on SAP tables

- 2LIS_11_VAHDR - Sales Document Header Data
- 2LIS_11_VAITM - Sales Document Item Data
- 2LIS_11_VASTI - Sales Document Item Status
- 2LIS_11_VASCL - Sales Document Schedule Line
- 2LIS_11_VAKON - Sales Document Condition
- 2LIS_11_V_SSL - Sales order delivery
- 2LIS_12_VCITM - Delivery Item Data
- 2LIS_13_VDITM - Billing Document Item Data
- 2LIS_13_VDKON - Billing Document Condition
- DTS_BW_EKKO_EKPO - PO Order & details (EKKO/EKPO/EKET)
- DTS_BW_VBAK_VBAP - Sales Order & Items

Main dimensions for the data

- C_ITM_SD - Order Line
- C_ROUTE - Route
- C_SHIPNU2 - Shipment Number
- C_DELITM2 - Delivery Item
- C_SHIPCD2 - Shipping conditions
- OTRZONE - Transportation Zone
- C_GBR11 - GBR: Customer gbu account type (Sold-to)
- C_GBR12 - GBR: Customer gbu account type (Payer)
- C_GBR13 - GBR: Customer gbu account type (Ship-to)
- C_GBR14 - GBR: Customer end-use Mat Grp (Ship-to)
- C_GBR15 - GBR: Ship-to KA
- C_GBR19 - GBU Material Group
- C_GBR20 - GBU Material Sub-group
- C_GBR21 - GBR Enterprise segment (CS)
- C_CUSTSAL - Customer (Sales View)
- C_CUSTSA2 - Customer sales area (ship-to)
- C_CUSTSA3 - Customer Sales area (Payer)
- C_ITM_GS - PO / SO order line

Reporting

Calculated & Restricted key figures

Type	Tech Name	Description	Formula
CKF	BW_CKF_MVSDSO50_0001	Confirmed Qty (PUQ)	CML_CF_QTY
CKF	BW_CKF_MVSDSO50_0002	Order Qty (PUQ)	CML_OR_QTY
CKF	BW_CKF_MVSDSO50_0003	Delivery Qty (PUQ)	DLV_QTY
CKF	BW_CKF_MVSDSO50_0010	In Full	IF K_INFULLR = 1 AND K_INFULLC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0011	Not In Full	IF K_INFULLR = 0 OR K_INFULLC = 0, then 0
CKF	BW_CKF_MVSDSO50_0012	Not in Full but OTDCR	IF K_INFULLR = 0 AND K_OTDCR = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0013	In Full & OTDCR	IF K_INFULLR = 1 AND K_OTDCR = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0014	In Full & OTDFC	IF K_INFULLR = 1 AND K_OTDFC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0015	In Full & OTDLC	IF K_INFULLR = 1 AND K_OTDLC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0016	Not In Full but OTDLC	IF K_INFULLR = 0 AND K_OTDLC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0017	Not in Full but OTDFC	IF K_INFULLR = 0 AND K_OTDFC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0018	In Full & OTSCR	IF K_INFULLR = 1 AND K_OTSCR = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0019	In Full & OTSFC	IF K_INFULLR = 1 AND K_OTSFC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0020	In Full & OTSLC	IF K_INFULLR = 1 AND K_OTSLC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0021	Not In Full but OTSCR	IF K_INFULLR = 0 AND K_OTSCR = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0022	Not In Full but OTSFC	IF K_INFULLR = 0 AND K_OTSFC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0023	Not In Full but OTSLC	IF K_INFULLR = 0 AND K_OTSLC = 1, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0024	Not In Full Not OTDCR	IF K_INFULLR = 0 AND K_OTDCR = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0025	Not In Full Not OTDFC	IF K_INFULLR = 0 AND K_OTDFC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0026	Not In Full Not OTDLC	IF K_INFULLR = 0 AND K_OTDLC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0027	Not In Full Not OTSCR	IF K_INFULLR = 0 AND K_OTSCR = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0028	Not In Full Not OTSFC	IF K_INFULLR = 0 AND K_OTSFC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0029	Not In Full Not OTSLC	IF K_INFULLR = 0 AND K_OTSLC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0030	In Full but Not OTDCR	IF K_INFULLR = 1 AND K_OTDCR = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0031	In Full but Not OTDFC	IF K_INFULLR = 1 AND K_OTDFC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0032	In Full but Not OTDLC	IF K_INFULLR = 1 AND K_OTDLC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0033	In Full but Not OTSCR	IF K_INFULLR = 1 AND K_OTSCR = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0034	In Full but Not OTSFC	IF K_INFULLR = 1 AND K_OTSFC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0035	In Full but Not OTSLC	IF K_INFULLR = 1 AND K_OTSLC = 0, then K_COUNTER
CKF	BW_CKF_MVSDSO50_0040	Lead Time 1 (Cust.PO X req.mat.avail)	K_SOLEAD1
CKF	BW_CKF_MVSDSO50_0041	Lead Time 2 (Cust.PO X achieved GI)	K_SOLEAD2
CKF	BW_CKF_MVSDSO50_0042	Lead Time 3 (Cust.PO X req.delivery)	K_SOLEAD3
CKF	BW_CKF_MVSDSO50_0043	Lead Time 4 (Cust.PO X achieved delivery)	K_SOLEAD4

CKF	BW_CKF_MVSDSO50_0044	Lead Time (Creation X Last Cust Req GI)	K_SOLEAD5
CKF	BW_CKF_MVSDSO50_0045	Lead Time (Creation X Sched line 1st ATP)	K_SOLEAD6
CKF	BW_CKF_MVSDSO50_0046	Lead Time (Creation X Actual GI date)	K_SOLEAD8
CKF	BW_CKF_MVSDSO50_0047	Rush Orders	IF K_SOLEAD5 < 2, THAN 1
CKF	BW_CKF_MVSDSO50_0050	OTD CR - Class 1	IF OTD CR - Class 1 = 1 and K_OTDCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0051	OTD CR - Class 2	IF OTD CR - Class 2 = 1 and K_OTDCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0052	OTD CR - Class 3	IF OTD CR - Class 3 = 1 and K_OTDCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0053	OTD CR - Class 4	IF OTD CR - Class 4 = 1 and K_OTDCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0054	OTD FC - Class 1	IF OTD FC - Class 1 = 1 and K_OTDFC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0055	OTD FC - Class 2	IF OTD FC - Class 2 = 1 and K_OTDFC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0056	OTD FC - Class 3	IF OTD FC - Class 3 = 1 and K_OTDFC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0057	OTD FC - Class 4	IF OTD FC - Class 4 = 1 and K_OTDFC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0058	OTS CR - Class 1	IF OTS CR - Class 1 = 1 and K_OTSCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0059	OTS CR - Class 2	IF OTS CR - Class 2 = 1 and K_OTSCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0060	OTS CR - Class 3	IF OTS CR - Class 3 = 1 and K_OTSCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0061	OTS CR - Class 4	IF OTS CR - Class 4 = 1 and K_OTSCR = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0062	OTD LC - Class 1	IF OTD LC - Class 1 = 1 and K_OTDLC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0063	OTD LC - Class 2	IF OTD LC - Class 2 = 1 and K_OTDLC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0064	OTD LC - Class 3	IF OTD LC - Class 3 = 1 and K_OTDLC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0065	OTD LC - Class 4	IF OTD LC - Class 4 = 1 and K_OTDLC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0066	OTS FC - Class	IF OTS FC - Class 1 = 1 and K_OTSF = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0067	OTS FC - Class 2	IF OTS FC - Class 2 = 1 and K_OTSF = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0068	OTS FC - Class 3	IF OTS FC - Class 3 = 1 and K_OTSF = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0069	OTS FC - Class 4	IF OTS FC - Class 4 = 1 and K_OTSF = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0070	OTS LC - Class	IF OTS LC - Class 1 = 1 and K_OTSLC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0071	OTS LC - Class 2	IF OTS LC - Class 2 = 1 and K_OTSLC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0072	OTS LC - Class 3	IF OTS LC - Class 3 = 1 and K_OTSLC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0073	OTS LC - Class 4	IF OTS LC - Class 4 = 1 and K_OTSLC = 0 THEN 1
RKF	BW_RKF_MVSDSO50_0001	# orderline with actual arrival date	C_DTYPE2 = ASE, KF=K_COUNTER
RKF	BW_RKF_MVSDSO50_0002	OTD CR - Class 1	C_OTDCRDG = A, KF=OTD CR - Class 1
RKF	BW_RKF_MVSDSO50_0003	OTD CR - Class 2	C_OTDCRDG = B, KF=OTD CR - Class 2
RKF	BW_RKF_MVSDSO50_0004	OTD CR - Class 3	C_OTDCRDG = C, KF=OTD CR - Class 3
RKF	BW_RKF_MVSDSO50_0005	OTD CR - Class 4	C_OTDCRDG = D, KF=OTD CR - Class 4
RKF	BW_RKF_MVSDSO50_0006	OTD FC - Class 1	C_OTDFCDG = A, KF=OTD CR - Class 1
RKF	BW_RKF_MVSDSO50_0007	OTD FC - Class 2	C_OTDFCDG = B, KF=OTD CR - Class 2
RKF	BW_RKF_MVSDSO50_0008	OTD FC - Class 3	C_OTDFCDG = C, KF=OTD CR - Class 3
RKF	BW_RKF_MVSDSO50_0009	OTD FC - Class 4	C_OTDFCDG = D, KF=OTD CR - Class 4
RKF	BW_RKF_MVSDSO50_0010	OTS CR - Class 1	C_OTSCRDG = A, KF=OTS CR - Class 1
RKF	BW_RKF_MVSDSO50_0011	OTS CR - Class 2	C_OTSCRDG = B, KF=OTS CR - Class 2
RKF	BW_RKF_MVSDSO50_0012	OTS CR - Class 3	C_OTSCRDG = C, KF=OTS CR - Class 3
RKF	BW_RKF_MVSDSO50_0013	OTS CR - Class 4	C_OTSCRDG = D, KF=OTS CR - Class 4
RKF	BW_RKF_MVSDSO50_0014	OTD LC - Class 1	C_OTDLCDG = A, KF=OTD LC - Class 1
RKF	BW_RKF_MVSDSO50_0015	OTD LC - Class 2	C_OTDLCDG = B, KF=OTD LC - Class 2
RKF	BW_RKF_MVSDSO50_0016	OTD LC - Class 3	C_OTDLCDG = C, KF=OTD LC - Class 3
RKF	BW_RKF_MVSDSO50_0017	OTD LC - Class 4	C_OTDLCDG = D, KF=OTD LC - Class 4
RKF	BW_RKF_MVSDSO50_0018	OTS FC - Class 1	C_OTSFCDG = A, KF=OTS FC - Class 1
RKF	BW_RKF_MVSDSO50_0019	OTS FC - Class 2	C_OTSFCDG = B, KF=OTS FC - Class 2
RKF	BW_RKF_MVSDSO50_0020	OTS FC - Class 3	C_OTSFCDG = C, KF=OTS FC - Class 3
RKF	BW_RKF_MVSDSO50_0021	OTS FC - Class 4	C_OTSFCDG = D, KF=OTS FC - Class 4
RKF	BW_RKF_MVSDSO50_0022	OTS LC - Class 1	C_OTSLCDG = A, KF=OTS LC - Class 1
RKF	BW_RKF_MVSDSO50_0023	OTS LC - Class 2	C_OTSLCDG = B, KF=OTS LC - Class 2
RKF	BW_RKF_MVSDSO50_0024	OTS LC - Class 3	C_OTSLCDG = C, KF=OTS LC - Class 3
RKF	BW_RKF_MVSDSO50_0025	OTS LC - Class 4	C_OTSLCDG = D, KF=OTS LC - Class 4

PS: same calculated and restricted key figures were created for MVSDSO51 and MVSDSO60 multi providers.

Main queries

Folder	Sub-folder	Workbook		Query
OTIF	Detailed Reports	OTIF & Order Book: Sales & Purchase Order	BW_WBK_MVSDSO60_0002	BW Sales/Transfer - OTIF & Orderbook - Details (core query)
		OTIF & Order Book: Sales Order	BW_WBK_MVSDSO60_0001	BW Sales - OTIF & Orderbook - Details (core query)
		OTIF: Sales & Purchase Order	BW_WBK_MVSDSO51_0001	BW Transfer PO OTIF - Details (core query)
		OTIF: Sales Order	BW_WBK_MVSDSO50_0004	BW Sales - OTIF - Details (core query)
		OTIF: Sales & Purchase Order (Summary)	BW_WBK_MVSDSO51_0003	BW Transfer & Sales - OTIF - Summary (core query)
		OTIF: Sales & Purchase Order (Synthesis)	BW_WBK_MVSDSO51_0002	BW Transfer PO OTIF - dashboard (core query)
		OTIF: Sales Order (Synthesis)	BW_WBK_MVSDSO50_0001	BW Sales - OTIF - dashboard (core query)
		OTIF: Sales Order (Summary)	BW_WBK_MVSDSO50_0003	BW Sales - OTIF - summary (core query)

Queries used to load QV applications

InfoProvider	Query	
MVSDSO50	QVBW_QRY_MVSDSO50_0001	BW Sales - OTIF details (qv query)
MVSDSO51	QVBW_QRY_MVSDSO51_0001	BW Sales - OTIF Transfer (qv query)
MVSDSO51	QVSCE_BW_QRY_MVSDSO51_0001	
MVSDSO50_	QVSCE_BW_QRY_MVSDSO50_0001	

Broadcast

- None

Maintenance

Known bugs

- Sometimes the unit conversion is not done in query due the unit is not mapped correctly in table UOMCMAT2 by material.

Recurring procedure

- When the process chain fails, the process type must be analyzed and repeated if possible.
- Sometimes a full load by period is required by user in order to synchronize all global sales data.

Planned Evolution

- The Global Sales is deployment phase and sometimes the GBU key user requests additional informations to be added in project.
- The New field ZI Partner will be available for reporting in the queries:Queries- BW_QRY_MVSDSO51_0001 and QVSCE_BW_QRY_MVSDSO51_0001 with the requirement in the FD 4699751.

Useful transactions to be used for checking data

Transaction	Description	Corresponding table	Comments
VT03N	Shipments	VTTK, VTTTS	in ERP
VI03	Shipment Costs	VFKK, VFKP	in ERP
VL03N	Deliveries	LIKP, LIPS	in ERP

VA03	Sales Orders	VBAK, VBAP	in ERP
ME23N	Purchase Orders	EKKO, EKPO, EKBE	in ERP
MM03	Material maintenance	MARA	in ERP
RSUOM	Unit conversion	T005	in BW
RSCUR	Currency conversion	TCURR	in BW

<https://wiki.solvay.com/display/TECHREP/BW+Authorizations?src=contextnavpagetreemode>