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

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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.

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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 Excelence).

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 Specifications**ain 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, 1confirmed 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**

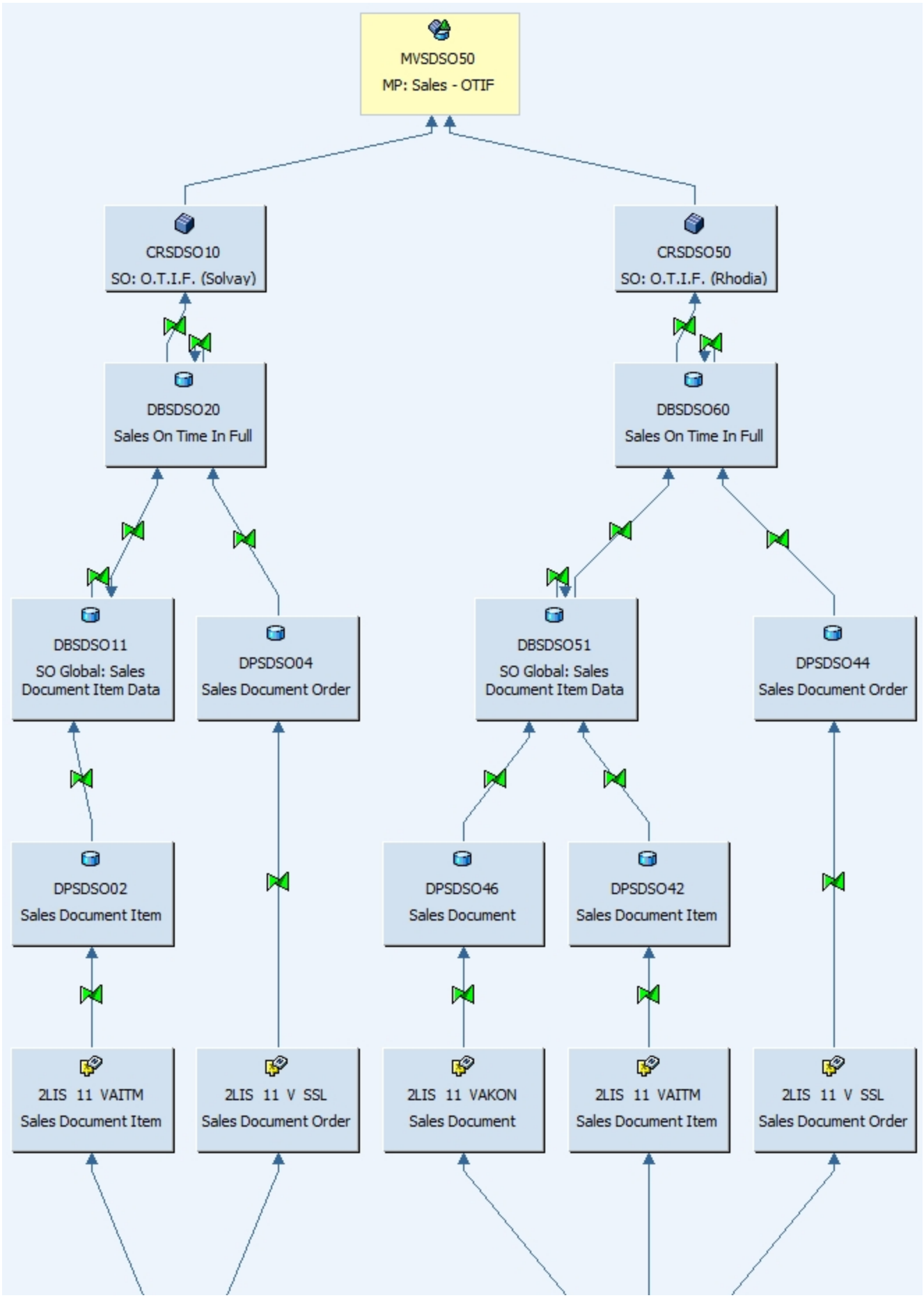
Statistics by queries

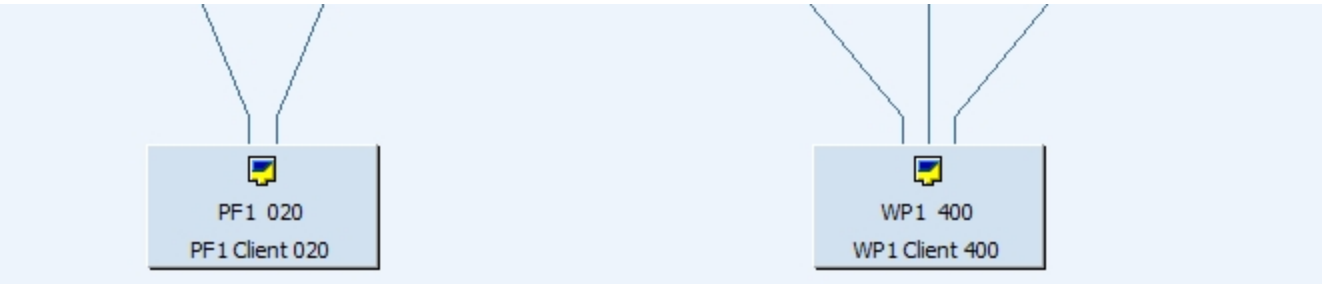
InfoProvider	Query		JAN 2018	FEB 2018	MAR 2018	APR 2018	MAY 2018	JUN 2018	JUL 2018	AUG 2018	SEP 2018
MVSDSO50	BW_QRY_MVSDSO50_0001	BW Sales - OTIF - Details	24	18	21	12	13	28	20	10	8
MVSDSO50	BW_QRY_MVSDSO50_0003	BW Sales - OTIF - Summary	6					15	2		0
MVSDSO50	BW_QRY_MVSDSO50_0002	BW Sales - OTIF dashboard	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

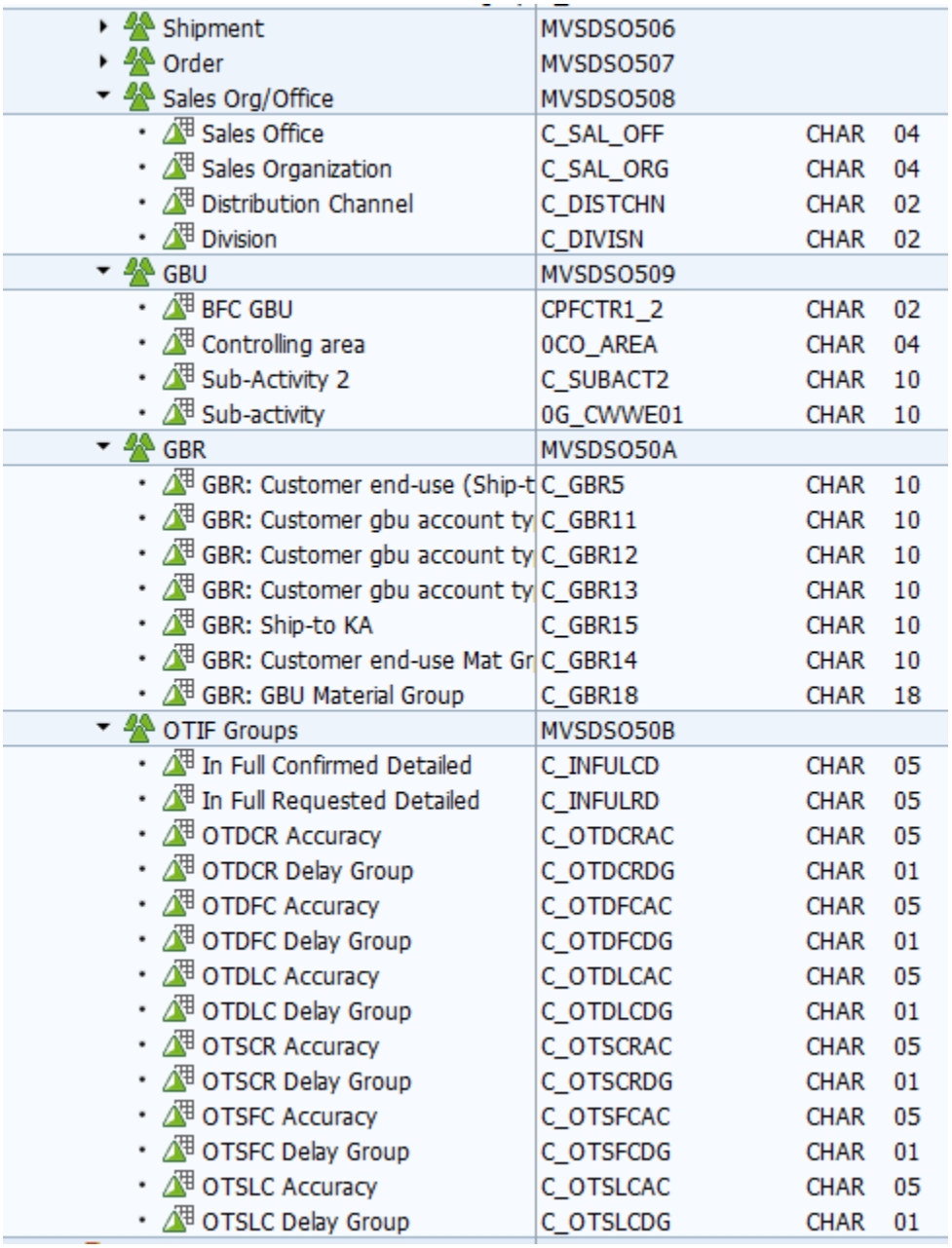
This multi provider is used to manage the OTIF indicators for all sales processes (Solvay & Rhodia)


MVSDSO50
MP: Sales - OTIF
CRSDSO10
SO: O.T.I.F. (Solvay)
CRSDSO50
SO: O.T.I.F. (Rhodia)
DBSDSO20
Sales On Time In Full
DBSDSO60
Sales On Time In Full
DBSDSO11
SO Global: Sales Document Item Data
DPSDSO04
Sales Document Order
DBSDSO51
SO Global: Sales Document Item Data
DPSDSO44
Sales Document Order
DPSDSO02
Sales Document Item
DPSDSO46
Sales Document
DPSDSO42
Sales Document Item
2LIS_11_VAITM
Sales Document Item
2LIS_11_V_SSL
Sales Document Order
2LIS_11_VAKON
Sales Document
2LIS_11_VAITM
Sales Document Item
2LIS_11_V_SSL
Sales Document Order



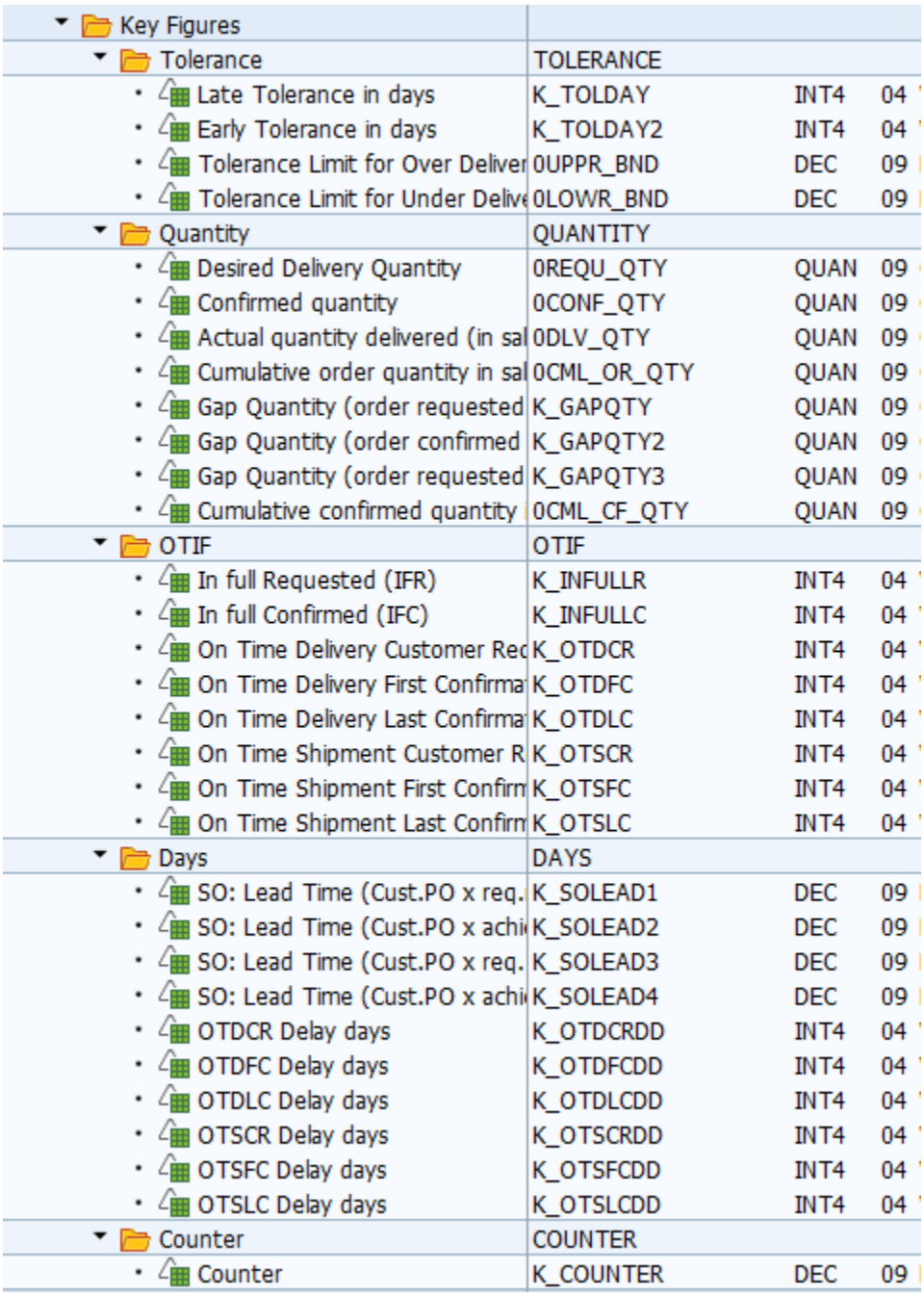
MP Details - characteristics

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	0ACT_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	0ACT_DL_DTE	DATS	08
Requested delivery date	0DSDEL_DATE	DATS	08
Material availability date	0MATAV_DATE	DATS	08
Planned Goods Issue Date of a	0PLD_GI_DTE	DATS	08
Customer PO date	C_PODATE	DATS	08
Transfer order confirmation dat	C_ERSDA	DATS	08
Organization	MVSDSO502		
Source System	0LOGSYS	CHAR	10
Company code	C_COMPCDE	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 G	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	0STORNO	CHAR	01
Incoterms part (Core)	C_INCOTRM	CHAR	03
Non OTIF Reason	C_AUGRU	CHAR	03
Sales document item category	C_ITMCAT	CHAR	04

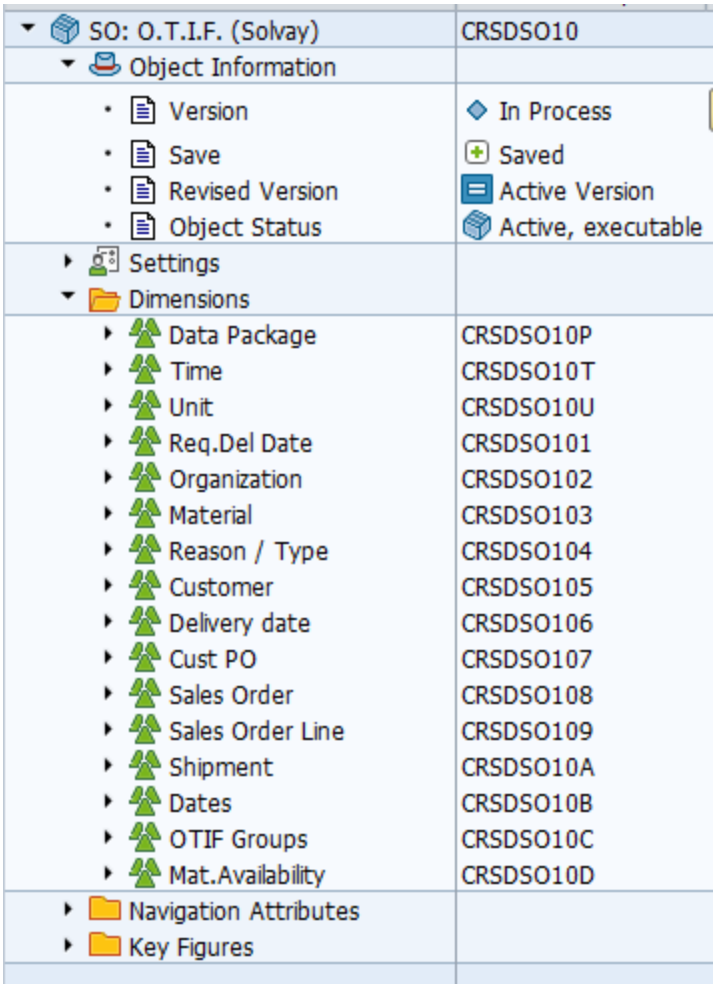


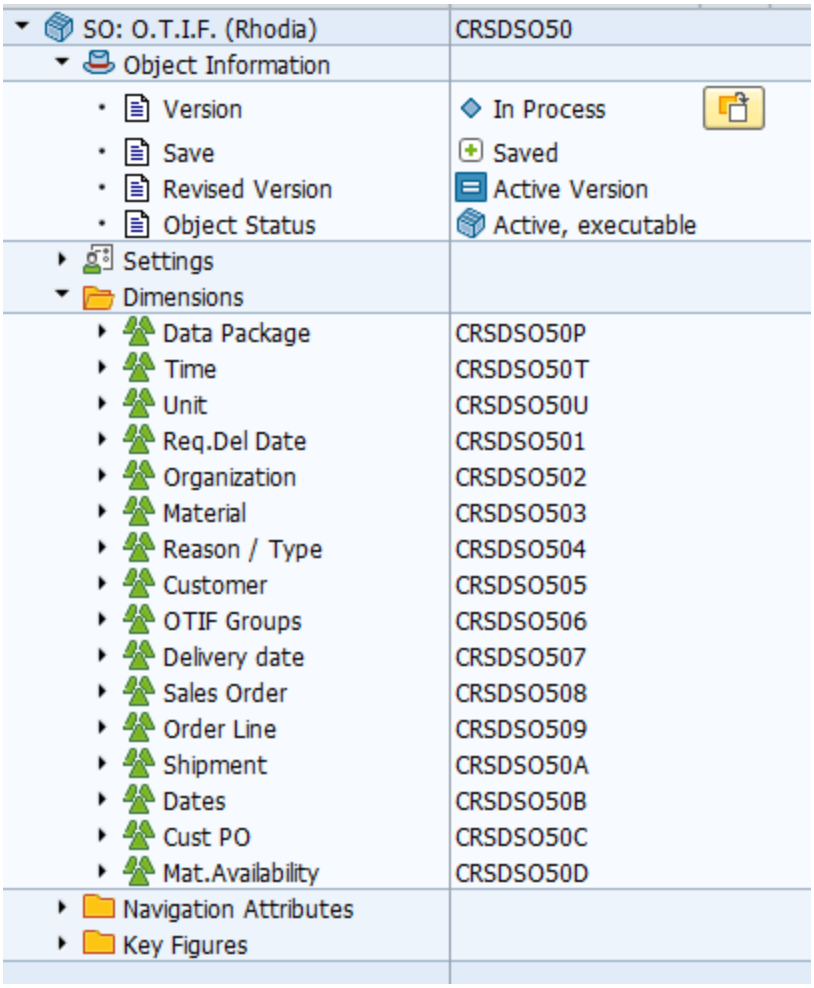
Shipment	MVSDSO506		
Order	MVSDSO507		
Sales Org/Office	MVSDSO508		
Sales Office	C_SAL_OFF	CHAR	04
Sales Organization	C_SAL_ORG	CHAR	04
Distribution Channel	C_DISTCHN	CHAR	02
Division	C_DIVISN	CHAR	02
GBU	MVSDSO509		
BFC GBU	CPFCTR1_2	CHAR	02
Controlling area	0CO_AREA	CHAR	04
Sub-Activity 2	C_SUBACT2	CHAR	10
Sub-activity	0G_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



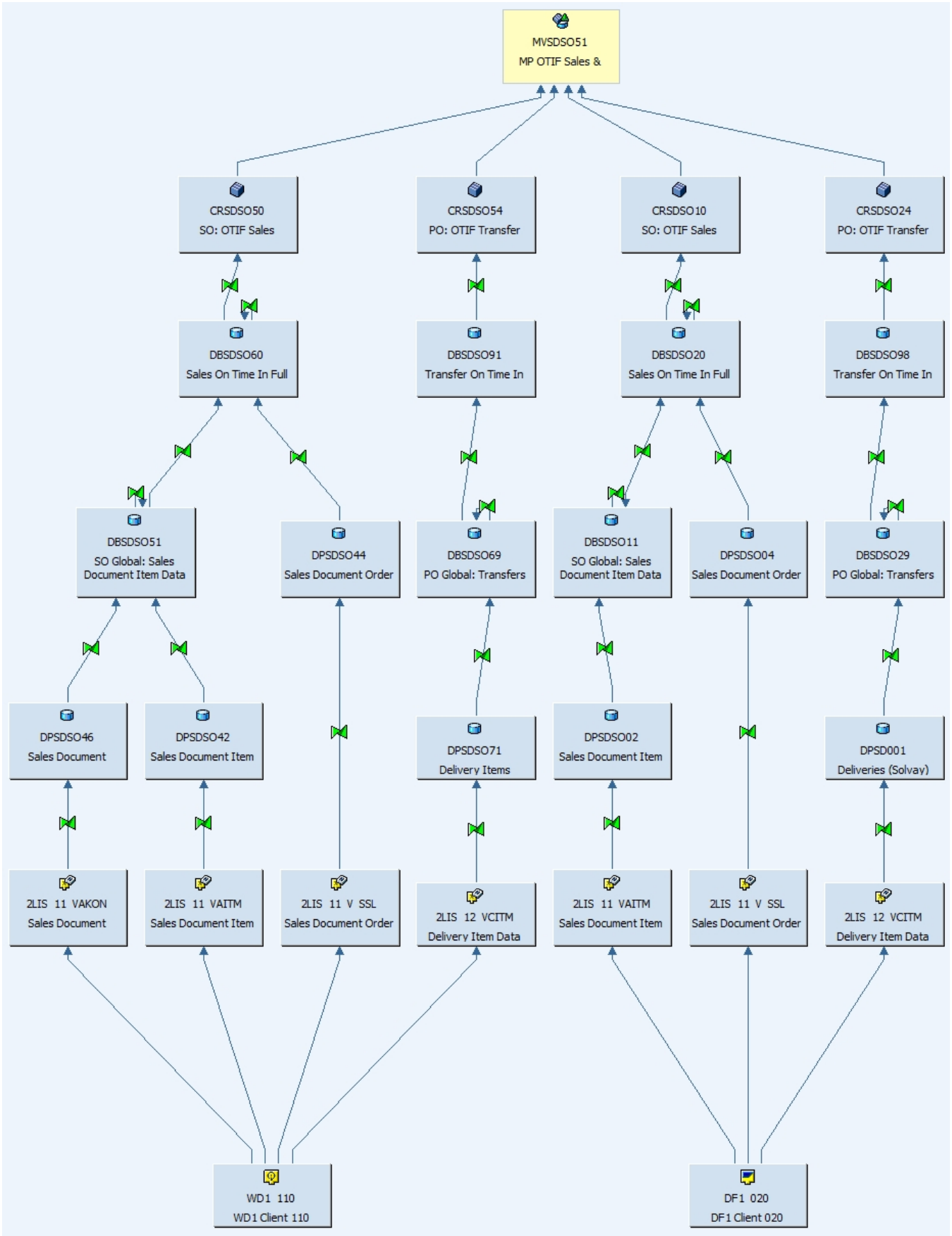
Key Figures			
Tolerance	TOLERANCE		
Late Tolerance in days	K_TOLDAY	INT4	04
Early Tolerance in days	K_TOLDAY2	INT4	04
Tolerance Limit for Over Deliver	0UPPR_BND	DEC	09
Tolerance Limit for Under Delive	0LOWR_BND	DEC	09
Quantity	QUANTITY		
Desired Delivery Quantity	0REQU_QTY	QUAN	09
Confirmed quantity	0CONF_QTY	QUAN	09
Actual quantity delivered (in sal	0DLV_QTY	QUAN	09
Cumulative order quantity in sal	0CML_OR_QTY	QUAN	09
Gap Quantity (order requested	K_GAPQTY	QUAN	09
Gap Quantity (order confirmed	K_GAPQTY2	QUAN	09
Gap Quantity (order requested	K_GAPQTY3	QUAN	09
Cumulative confirmed quantity	0CML_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 Rec	K_OTDCR	INT4	04
On Time Delivery First Confirma	K_OTDFC	INT4	04
On Time Delivery Last Confirma	K_OTDLC	INT4	04
On Time Shipment Customer R	K_OTSCR	INT4	04
On Time Shipment First Confirm	K_OTSFC	INT4	04
On Time Shipment Last Confirm	K_OTSLC	INT4	04
Days	DAYS		
SO: Lead Time (Cust.PO x req.	K_SOLEAD1	DEC	09
SO: Lead Time (Cust.PO x achi	K_SOLEAD2	DEC	09
SO: Lead Time (Cust.PO x req.	K_SOLEAD3	DEC	09
SO: Lead Time (Cust.PO x achi	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


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



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)


MVSDSO51
MP OTIF Sales &
CRSDSO50
SO: OTIF Sales
CRSDSO54
PO: OTIF Transfer
CRSDSO10
SO: OTIF Sales
CRSDSO24
PO: OTIF Transfer
DBSDSO60
Sales On Time In Full
DBSDSO91
Transfer On Time In
DBSDSO20
Sales On Time In Full
DBSDSO98
Transfer On Time In
DBSDSO51
SO Global: Sales Document Item Data
DPSDSO44
Sales Document Order
DBSDSO69
PO Global: Transfers
DBSDSO11
SO Global: Sales Document Item Data
DPSDSO04
Sales Document Order
DBSDSO29
PO Global: Transfers
DPSDSO46
Sales Document
DPSDSO42
Sales Document Item
DPSDSO71
Delivery Items
DPSDSO02
Sales Document Item
DPSD001
Deliveries (Solvay)
2LIS 11 VAKON
Sales Document
2LIS 11 VAITM
Sales Document Item
2LIS 11 V SSL
Sales Document Order
2LIS 12 VCITM
Delivery Item Data
2LIS 11 VAITM
Sales Document Item
2LIS 11 V SSL
Sales Document Order
2LIS 12 VCITM
Delivery Item Data
WD1 110
WD1 Client 110
DF1 020
DF1 Client 020

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)

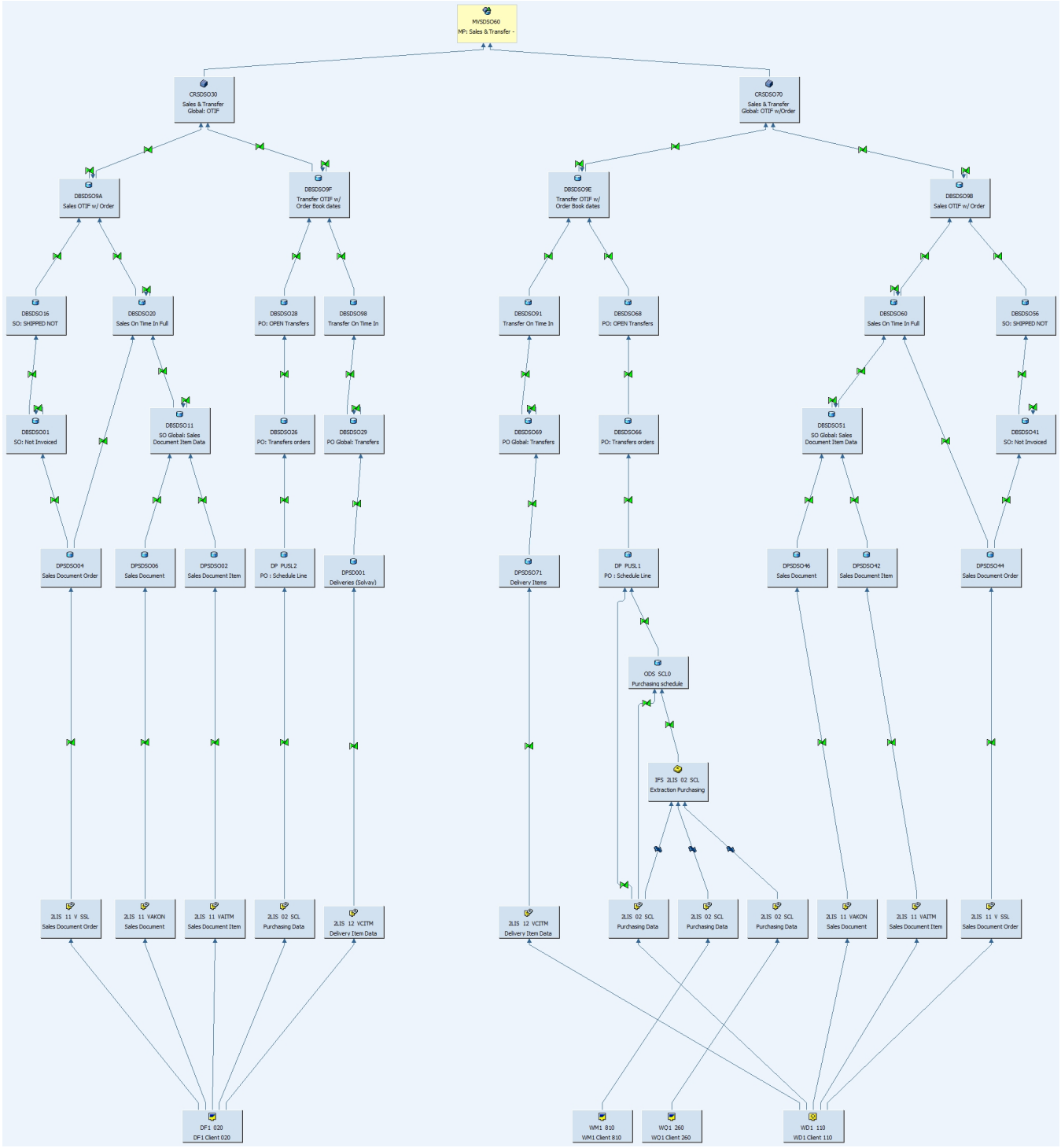
DTP: DBSDSO98 -> CRSDSO24 (Solvay)

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	0ACT_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	0PLD_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	0BILL_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_OTSFCAC	CHAR	05
• OTSFC Delay Group	C_OTSFCDG	CHAR	01
• OTSLC Accuracy	C_OTSLCAC	CHAR	05

Amount	AMOUNT		
Net value of the order item in document curr	0NET_VALUE	CURR	09
Net value of rest to be delivered (SU)	K_TBI1	CURR	09
Net value of not sheduled	K_NSCHEVL	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 %	0UPPR_BND	DEC	09
Tolerance Limit for Under Delivery in %	0LOWR_BND	DEC	09
Quantity	QUANTITY		
Actual quantity delivered (in sales units)	0DLV_QTY	QUAN	09
Cumulative order quantity in sales units	0CML_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	0CML_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 (	K_OTSCR	INT4	04
On Time Shipment First Confirmation (OTS F(	K_OTSFC	INT4	04
On Time Shipment Last Confirmation (OTS L(	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 (BI4)

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/cpfctr1_2 = <fs_subact>-cpfctr1_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-cpfctr1_2 IS NOT INITIAL.
        <result_fields>-/bic/cpfctr1_2 = itb_gbu_w-cpfctr1_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/cpfctr1_2 = <fs_subact>-cpfctr1_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_dttype  NE 'PGI'.
  " Pick Actual Good Issue

  IF v_shp_eact EQ '00000000'.
    v_shp_eact = <result_fields>-dtshp_eact.
    <result_fields>-/bic/c_dttype2 = 'ASE'.
    " Actual Shipment End
  ENDIF.

  IF v_shp_eact EQ '00000000'.
    v_shp_eact = <result_fields>-dtshp_e_pl.
    <result_fields>-/bic/c_dttype2 = 'PSE'.
    " Planned Shipment End
  ENDIF.

  IF v_shp_eact EQ '00000000'.
    v_shp_eact = v_gi_date.
    <result_fields>-/bic/c_dttype2 = '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_dttype  = 'PGI'. "Picking Good Issue
       <result_fields>-/bic/c_dttype2 = '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 datte

```
  <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_otscrdg  = 'A'.

        <result_fields>-/bic/k_otsfc    = 1.
        <result_fields>-/bic/k_otsfcdd  = 0.
        <result_fields>-/bic/c_otsfcac  = 'OTS'.
        <result_fields>-/bic/c_otsfcdg  = '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 OTDFC 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_dttype NE 'PGI'.
  <result_fields>-/bic/c_dttype  = '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

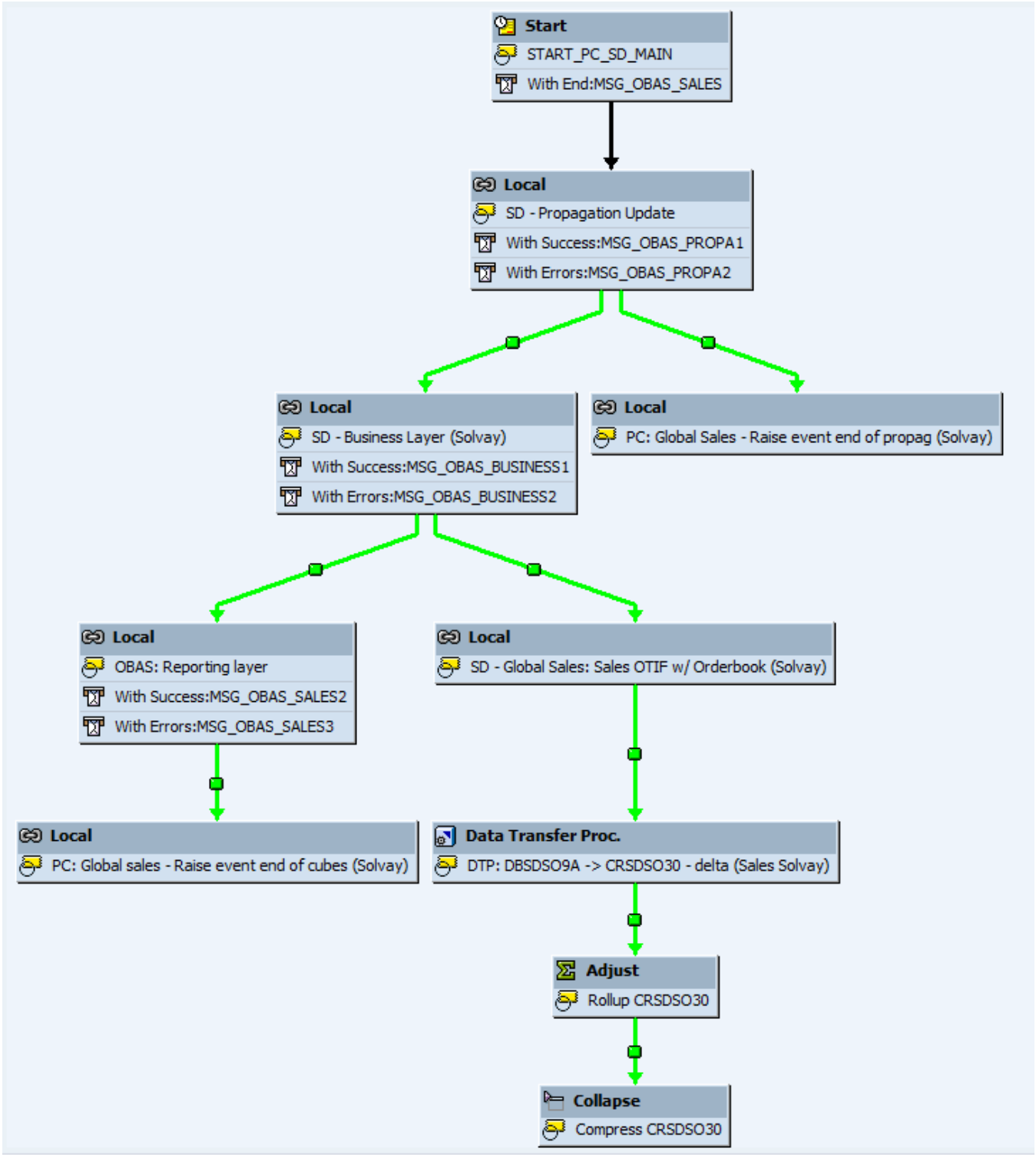
Data loadings

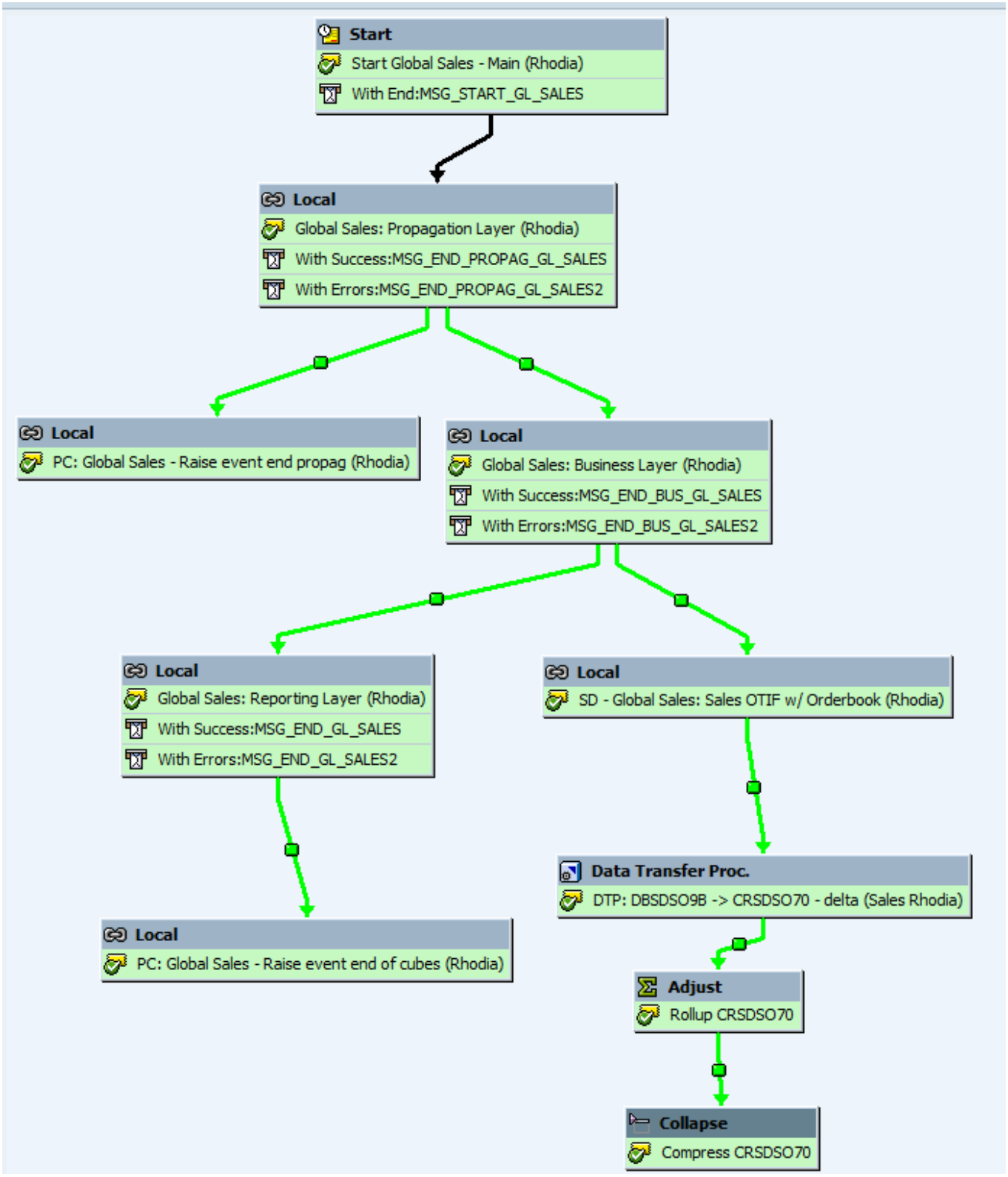
Info providers and objects loaded

1 - Main Process Chain

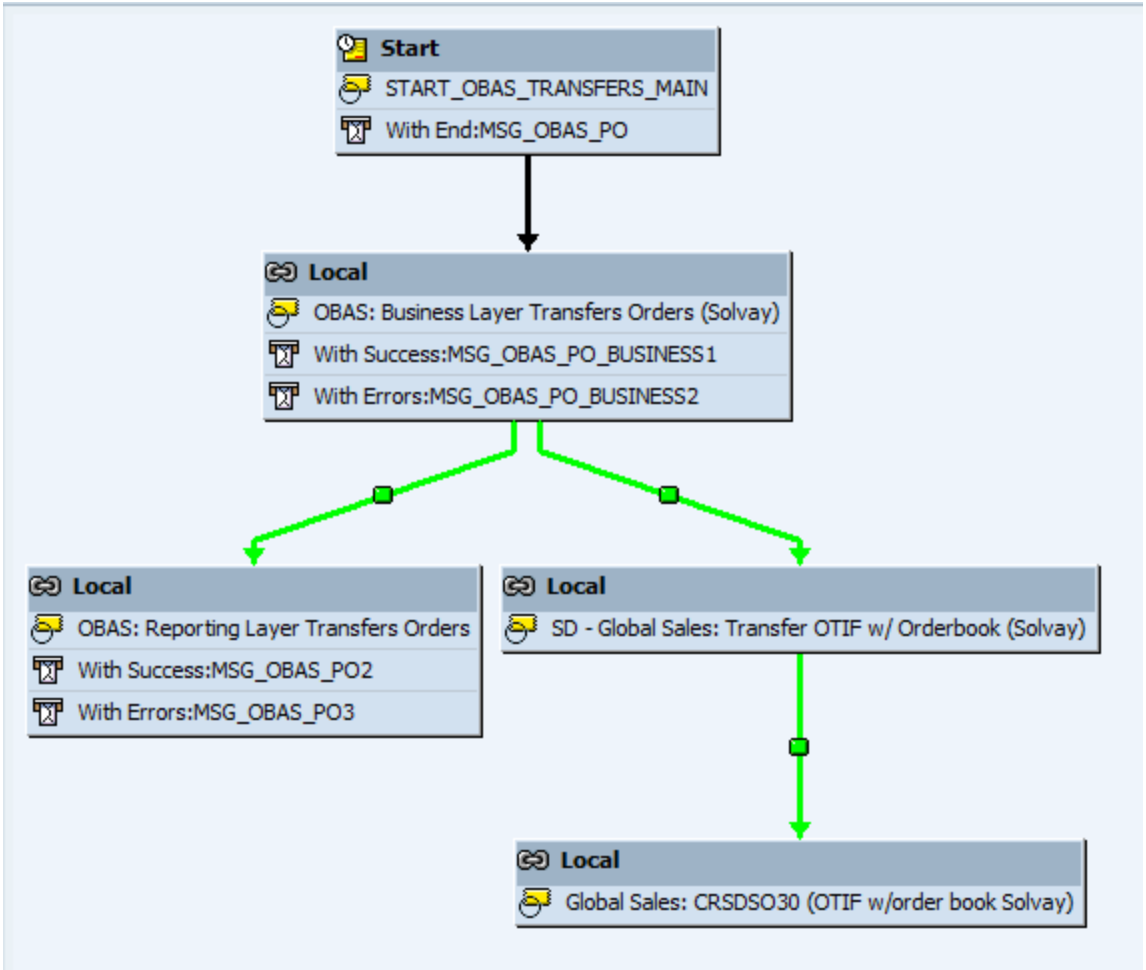
This process chain is responsible to trigger and syncronize all Global Sales processes chains for Solvay and Rhodia. It is scheduled to run every workday inside the Daily process chain (RSP_DAILY) after general master data PC, around 3AM (French time) and TIERS.

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

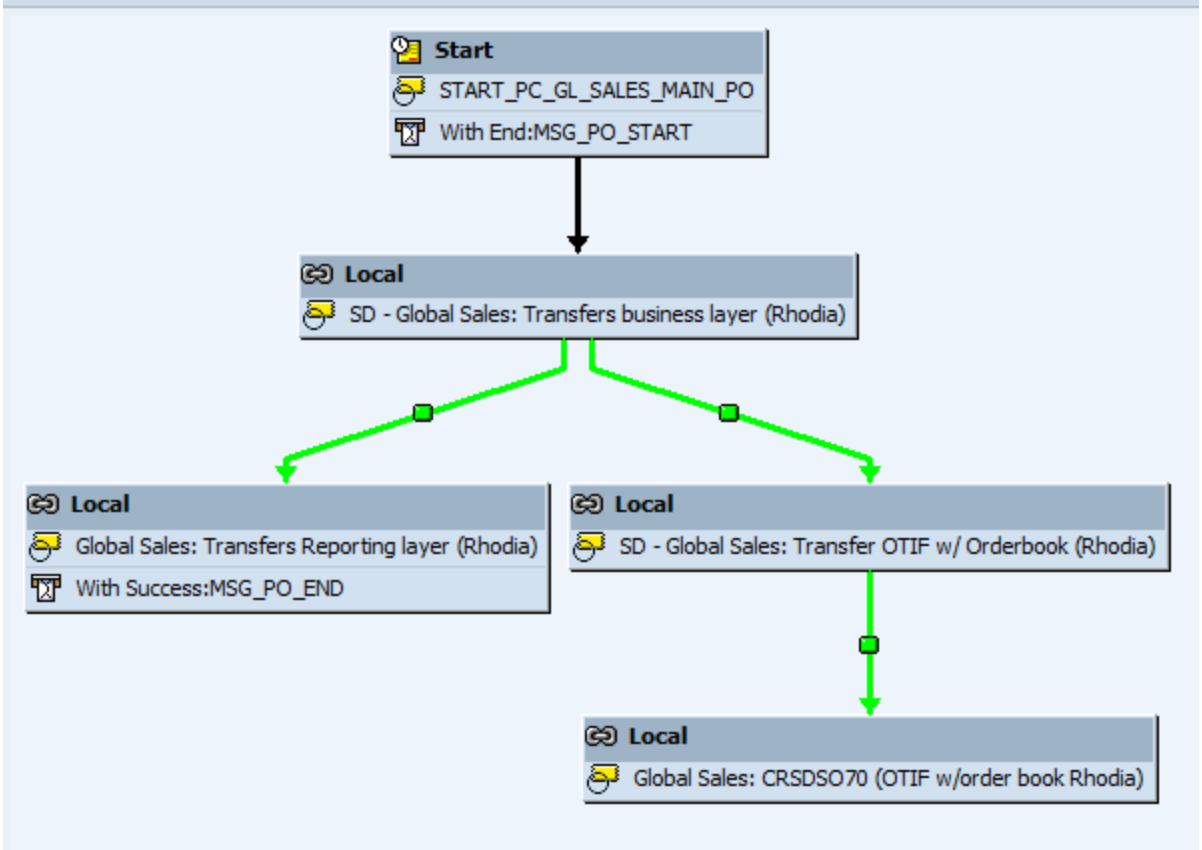

Start
START_PC_SD_MAIN
With End:MSG_OBAS_SALES
Local
SD - Propagation Update
With Success:MSG_OBAS_PROPA1
With Errors:MSG_OBAS_PROPA2
Local
SD - Business Layer (Solvay)
With Success:MSG_OBAS_BUSINESS1
With Errors:MSG_OBAS_BUSINESS2
Local
PC: Global Sales - Raise event end of propag (Solvay)
Local
OBAS: Reporting layer
With Success:MSG_OBAS_SALES2
With Errors:MSG_OBAS_SALES3
Local
SD - Global Sales: Sales OTIF w/ Orderbook (Solvay)
Local
PC: Global sales - Raise event end of cubes (Solvay)
Data Transfer Proc.
DTP: DBSDSO9A -> CRSDSO30 - delta (Sales Solvay)
Adjust
Rollup CRSDSO30
Collapse
Compress CRSDSO30



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.

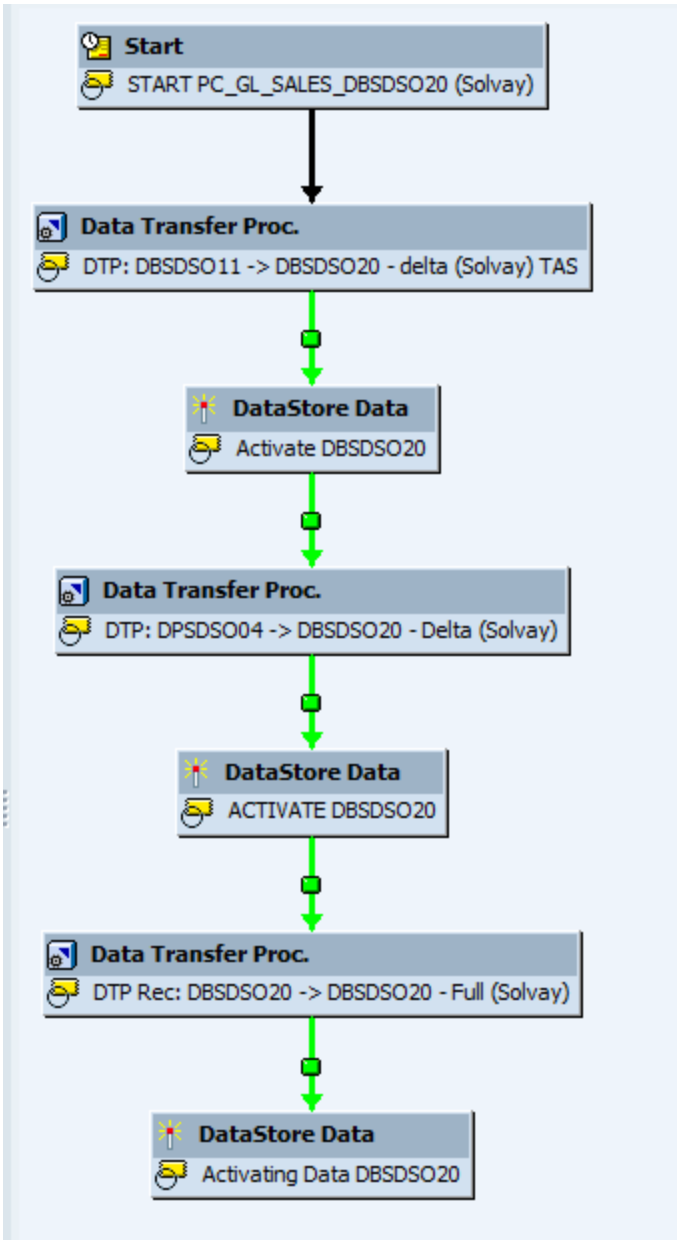
For OTIF process, all the processes in propagation layer are run in general Global Sales Process Chain

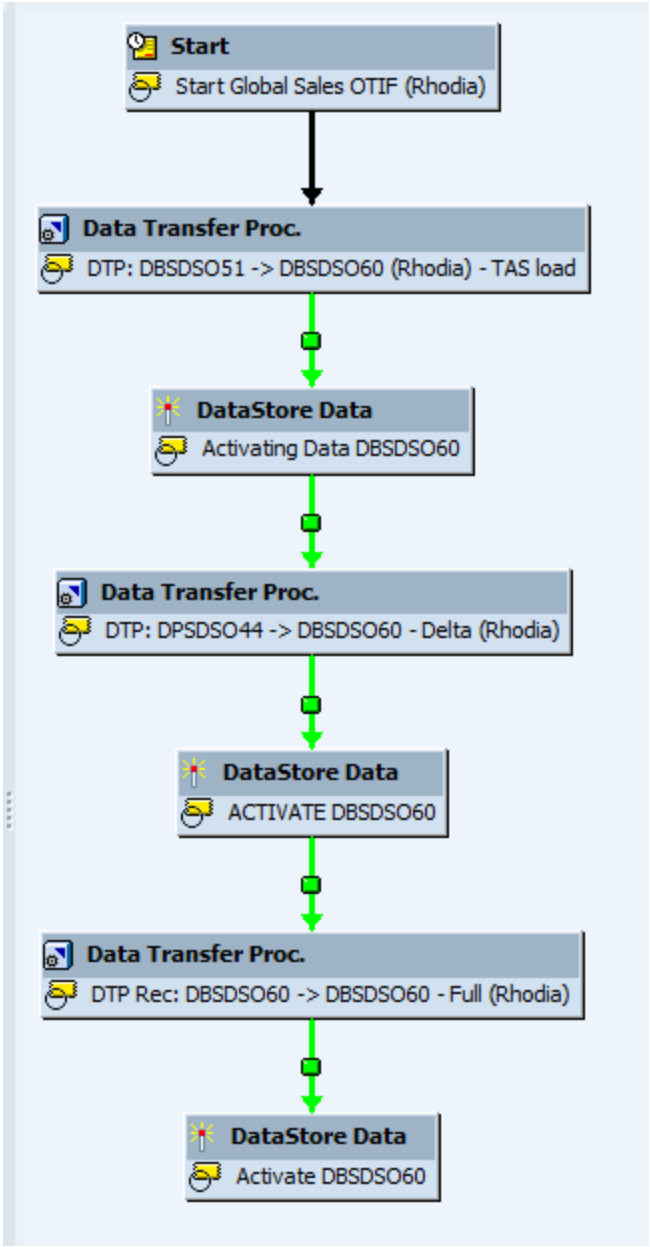
3 - Business Layer

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

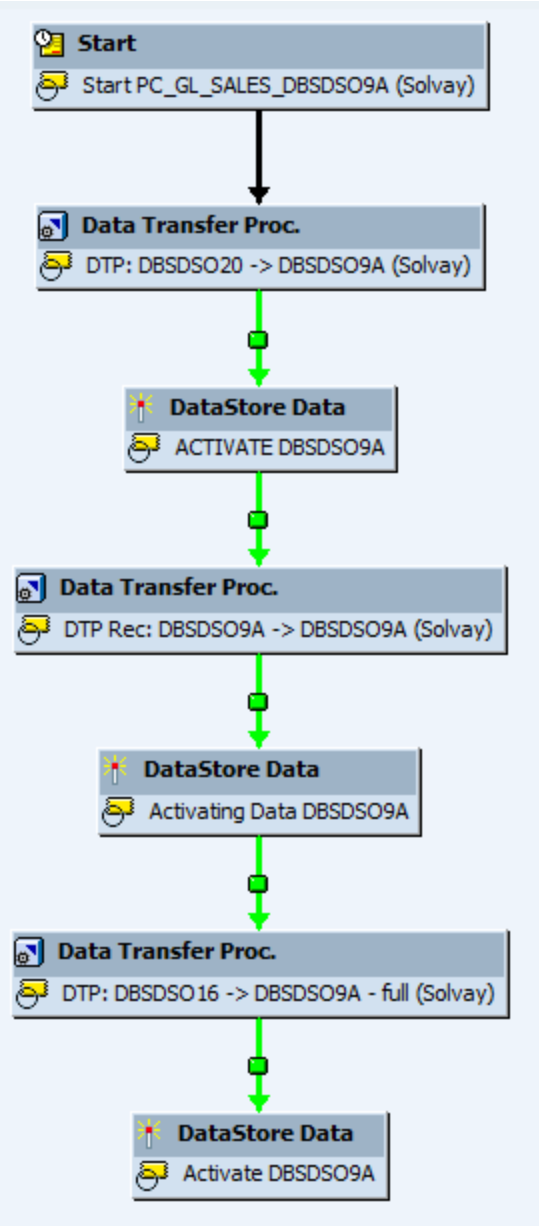
Main Processes for OTIF

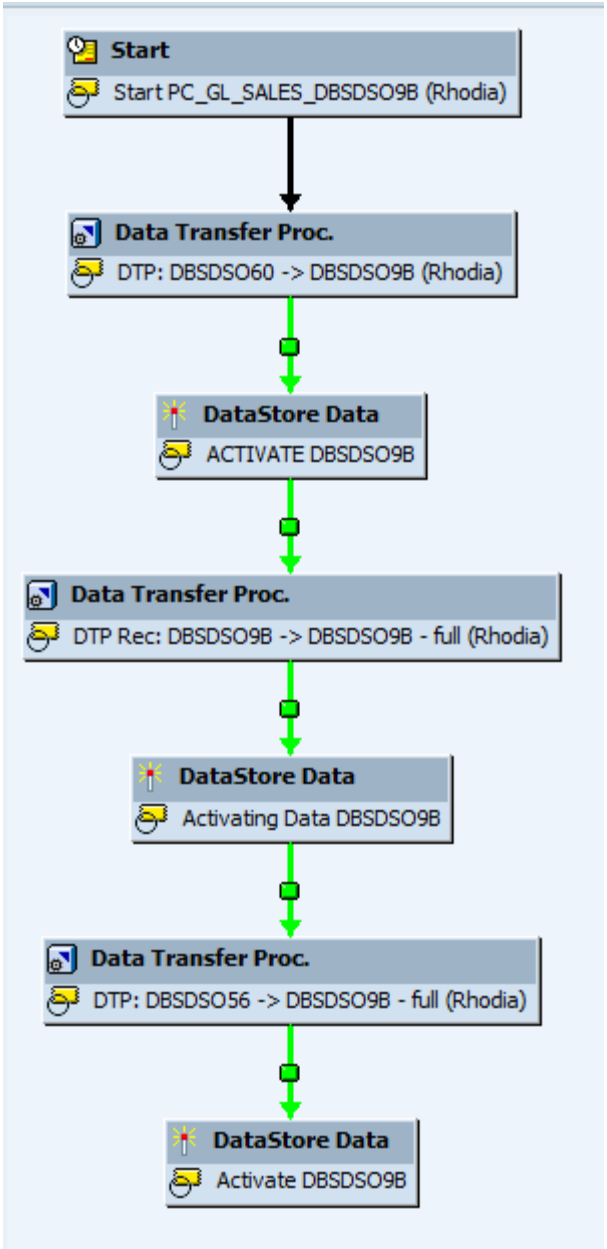
PC_GL_SALES_DBSDSO20 (SD - Global Sales: OTIF (Solvay)) and PC_GL_SALES_DBSDSO60 (SD - Global Sales: OTIF (Rhodia))


Start
START PC_GL_SALES_DBSDSO20 (Solvay)
Data Transfer Proc.
DTP: DBSDSO11 -> DBSDSO20 - delta (Solvay) TAS
DataStore Data
Activate DBSDSO20
Data Transfer Proc.
DTP: DPSDSO04 -> DBSDSO20 - Delta (Solvay)
DataStore Data
ACTIVATE DBSDSO20
Data Transfer Proc.
DTP Rec: DBSDSO20 -> DBSDSO20 - Full (Solvay)
DataStore Data
Activating Data DBSDSO20



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))

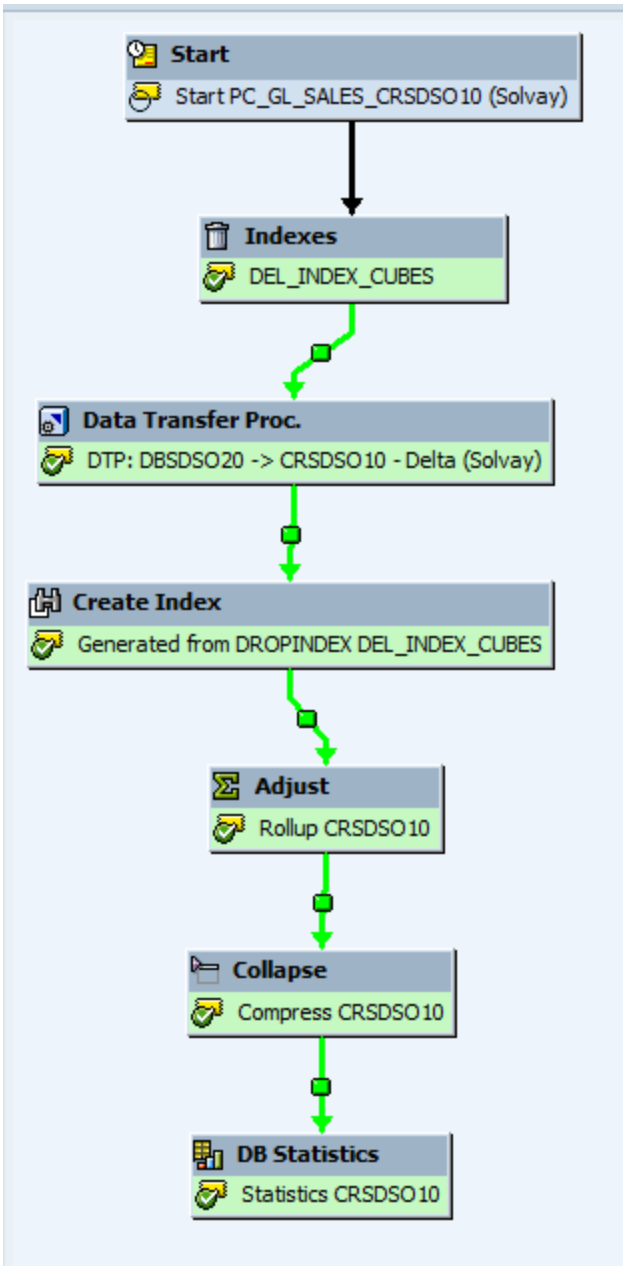


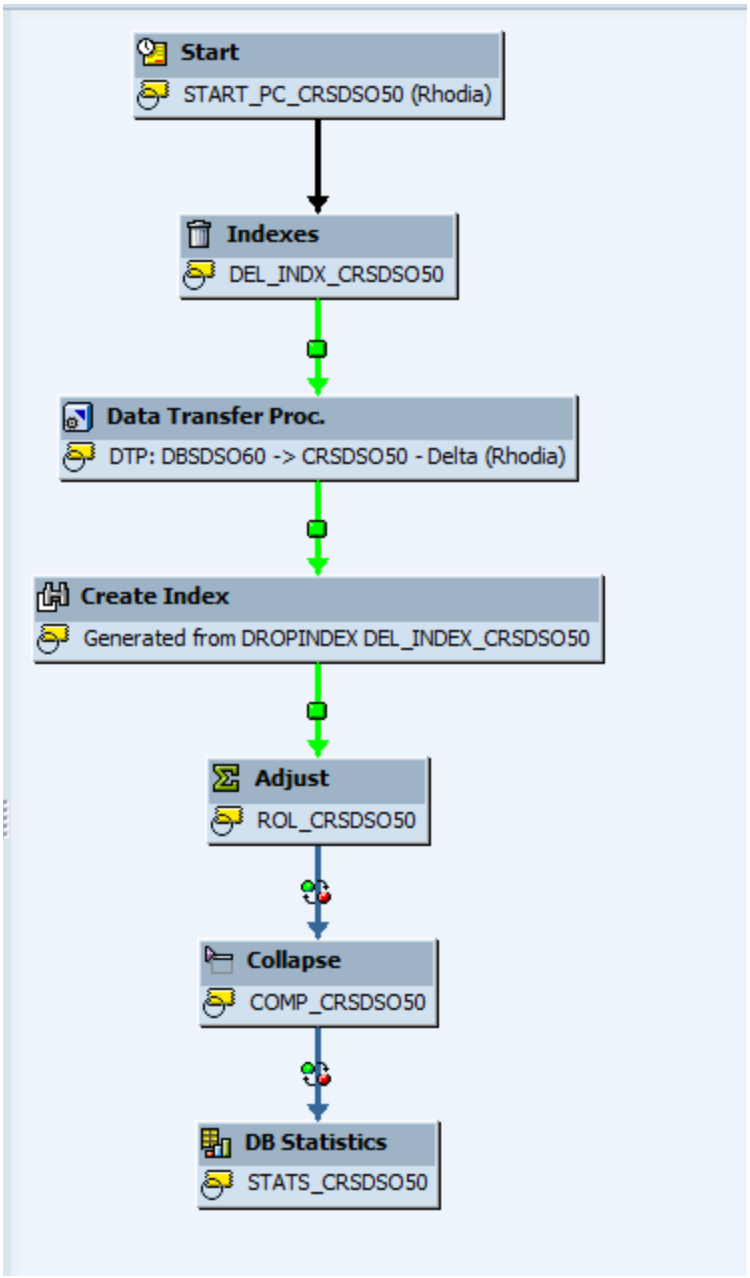


4 - Reporting Level

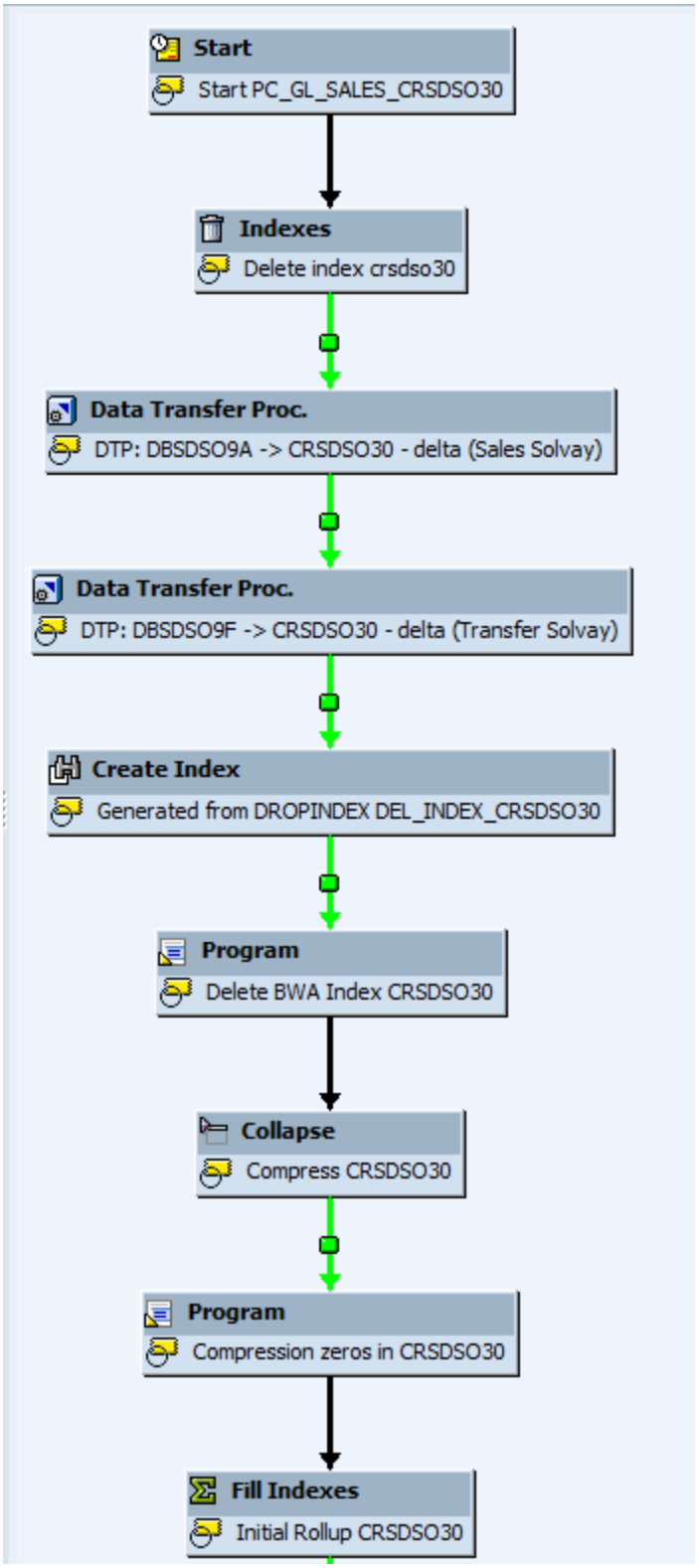
This process chain is responsible to load all the cubes

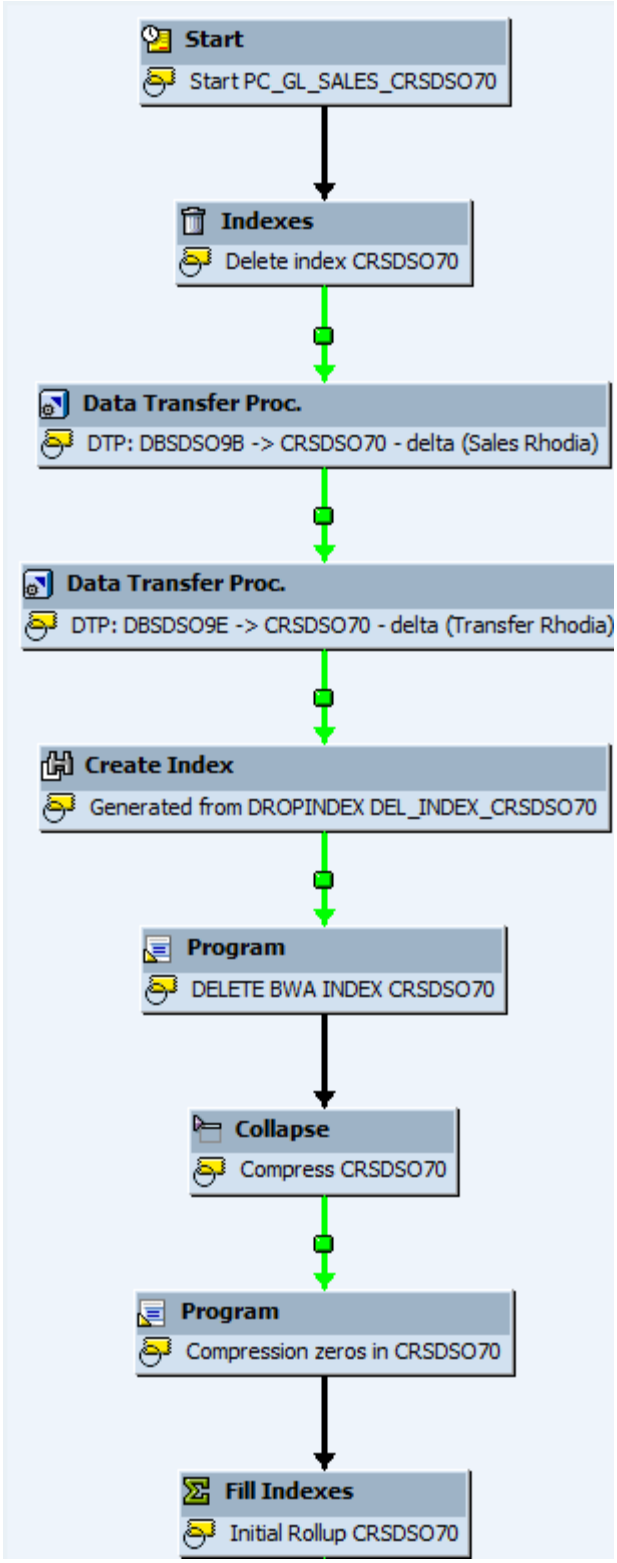
The must important ones are:PC_GL_SALES_CRSDSO10 (SD - Global Sales: Cube CRSDSO10 OTIF Sales (Solvay)) and PC_GL_SALES_CRSDSO50 (SD - Global Sales: Cube CRSDSO50 OTIF Sales (Rhodia))


Start
Start PC_GL_SALES_CRSDSO10 (Solvay)
Indexes
DEL_INDEX_CUBES
Data Transfer Proc.
DTP: DBSDSO20 -> CRSDSO10 - Delta (Solvay)
Create Index
Generated from DROPINDEX DEL_INDEX_CUBES
Adjust
Rollup CRSDSO10
Collapse
Compress CRSDSO10
DB Statistics
Statistics CRSDSO10



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
- 0TRZONE - 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_OTSFC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0067	OTS FC - Class 2	IF OTS FC - Class 2 = 1 and K_OTSFC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0068	OTS FC - Class 3	IF OTS FC - Class 3 = 1 and K_OTSFC = 0 THEN 1
CKF	BW_CKF_MVSDSO50_0069	OTS FC - Class 4	IF OTS FC - Class 4 = 1 and K_OTSFC = 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_DTTYPE2 = 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 detais (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 syncronize 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, VTTS	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

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