

Sales Deliveries Process

SEI Templates Functional Specification

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1 Revision history

Date	Who	Description
2013/05/21	Johann Salas	Document creation
2013/07/07	Edgardo Mejia	Document Update

2 Business need

The Sales Delivery process provides useful fields to manipulate data around deliveries' transactions, shipping and invoicing. Statistics such as the deliveries by product and customer, the total "cost" of the delivered goods and the delivery history transactions can be extracted from the Sage ERP X3 databases using this process.

3 Constraints & restrictions

- This process is only compatible with Sage ERP X3 V6 and V7.
- Views associated to the process must be created prior installation.
- New prompts associated to the process must be created prior installation.

4 Technical specification

4.1 Involved tables/views

Element	Alias	Type
SDELIVERYD	SDELIVERYD	Fact Table
SORDERQ	SORDERQ	Table
SORDERP	SORDERP	Table
SORDER	SORDER	Table
ITMMASTER	ITMMASTER	Table
SDELIVERY	SDELIVERY	Table
BPCARRIER	BPCARRIER	Table
SINVOICE	SINVOICE	Table
BPCUSTOMER	BPCUSTOMER	Table
COMPANY	COMPANY	Table
FACILITY	FACILITY	Table
ZTABCHANGE	ZTABCHANGE	Table
AEXTRA	AEXTRA	Table
AEXTRA	AEXTRA_1	Table
AEXTRA	AEXTRA_2	Table
AEXTRA	AEXTRA_3	Table
AEXTRA	AEXTRA_4	Table
AEXTRA	AEXTRA_5	Table
APLSTD	APLSTD	Table
AEXTRA	AEXTRA_6	Table
AEXTRA	AEXTRA_7	Table
AEXTRA	AEXTRA_8	Table

4.2 Joins between tables.

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
SDELIVERYD	SDELIVERYD	Left	ITMMASTER	ITMMASTER	SDELIVERYD.ITMREF_0 = ITMMASTER.ITMREF_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA	ITMMASTER.TSICOD_0 = AEXTRA.IDENT2_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_1	ITMMASTER.TSICOD_1 = AEXTRA_1.IDENT2_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_2	ITMMASTER.TSICOD_2 = AEXTRA_2.IDENT2_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_3	ITMMASTER.TSICOD_3 = AEXTRA_3.IDENT2_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_4	ITMMASTER.TSICOD_4 = AEXTRA_4.IDENT2_0
ITMMASTER	ITMMASTER	Left	APLSTD	APLSTD	ITMMASTER.ITMSTA_0 = APLSTD.LANNUM_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_6	ITMMASTER.TCLCOD_0 = AEXTRA_6.IDENT1_0
SDELIVERYD	SDELIVERYD	Left	SDELIVERY	SDELIVERY	SDELIVERYD.SDHNUM_0 = SDELIVERY.SDHNUM_0
SDELIVERY	SDELIVERY	Left	BPCARRIER	BPCARRIER	SDELIVERY.BPTNUM_0 = BPCARRIER.BPTNUM_0
SDELIVERY	SDELIVERY	Left	SINVOICE	SINVOICE	SDELIVERY.SIHNUM_0 = SINVOICE.NUM_0
SINVOICE	SINVOICE	Left	ZTABCHANGE	ZTABCHANGE	SINVOICE.CUR_0 = ZTABCHANGE.CUR_0
SDELIVERY	SDELIVERY	Left	AEXTRA	AEXTRA_8	SDELIVERY.RATDAT_0 = AEXTRA_8.DATE_0
SDELIVERYD	SDELIVERYD	Left	BPCUSTOMER	BPCUSTOMER	SDELIVERYD.CURTYP_0 = BPCUSTOMER.CHGTYTYP_0
BPCUSTOMER	BPCUSTOMER	Left	AEXTRA	AEXTRA_5	BPCUSTOMER.MDL_0 = AEXTRA_5.IDENT1_0
SDELIVERYD	SDELIVERYD	Left	COMPANY	COMPANY	SDELIVERYD.BPCORD_0 = COMPANY.BPCNUM_0
SDELIVERYD	SDELIVERYD	Left	FACILITY	FACILITY	SDELIVERYD.BCGCOD_0 = FACILITY.IDENT1_0
SDELIVERYD	SDELIVERYD	Left	AEXTRA	AEXTRA_7	SDELIVERYD.CPY_0 = AEXTRA_7.CPY_0
SDELIVERYD	SDELIVERYD	Left	SORDERQ	SORDERQ	SDELIVERYD.STOFY_0 = SORDERQ.FCY_0
SDELIVERYD	SDELIVERYD	Left	SORDERP	SORDERP	SDELIVERYD.ITMREF_0 = SORDERP.IDENT1_0
SDELIVERYD	SDELIVERYD	Left	SORDER	SORDER	SDELIVERYD.SOHNUM_0 = SORDER.SOHNUM_0

4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
AEXTRA	CODFIC_0	Equal	'ATABDIV'
AEXTRA	ZONE_0	Equal	'LNGDES'
AEXTRA	LANGUE_0	Equal	@CurrentLang;
AEXTRA	IDENT1_0	Equal	'20'
AEXTRA_1	CODFIC_0	Equal	'ATABDIV'
AEXTRA_1	ZONE_0	Equal	'LNGDES'
AEXTRA_1	LANGUE_0	Equal	@CurrentLang;
AEXTRA_1	IDENT1_0	Equal	'21'
AEXTRA_2	CODFIC_0	Equal	'ATABDIV'
AEXTRA_2	ZONE_0	Equal	'LNGDES'
AEXTRA_2	LANGUE_0	Equal	@CurrentLang;
AEXTRA_2	IDENT1_0	Equal	'22'
AEXTRA_3	CODFIC_0	Equal	'ATABDIV'
AEXTRA_3	ZONE_0	Equal	'LNGDES'
AEXTRA_3	IDENT1_0	Equal	'23'
AEXTRA_3	LANGUE_0	Equal	@CurrentLang;
AEXTRA_4	CODFIC_0	Equal	'ATABDIV'
AEXTRA_4	ZONE_0	Equal	'LNGDES'
AEXTRA_4	LANGUE_0	Equal	@CurrentLang;
AEXTRA_4	IDENT1_0	Equal	'24'
APLSTD	LANCHP_0	Equal	246
APLSTD	LAN_0	Equal	@CurrentLang;
APLSTD	LANNUM_0	Greaterthan	0
AEXTRA_6	CODFIC_0	Equal	'ITMCATEG'
AEXTRA_6	ZONE_0	Equal	'TCLAXX'
AEXTRA_6	LANGUE_0	Equal	@CurrentLang;
AEXTRA_8	CODFIC_0	Equal	'TABMODELIV'

AEXTRA_8	ZONE_0	Equal	'DESAXX'
AEXTRA_8	LANGUE_0	Equal	@CurrentLang;
AEXTRA_5	CODFIC_0	Equal	'BPSCATEG'
AEXTRA_5	ZONE_0	Equal	'DESAXX'
AEXTRA_5	LANGUE_0	Equal	@CurrentLang;
AEXTRA_7	CODFIC_0	Equal	'ITMMASTER'
AEXTRA_7	ZONE_0	Equal	'DES1AXX'
AEXTRA_7	LANGUE_0	Equal	@CurrentLang;

4.4 Fields

Table	Alias	Field	Description	Type	Prompt
SDELIVERYD	SDELIVERYD	CPY_0	Company Code	Dimension	Yes
COMPANY	COMPANY	CPYNAM_0	Company Description	Description	No
*SERVER	*SERVER	FLD0000002	Year	Dimension	Yes
*SERVER	*SERVER	FLD0000001	Month	Dimension	Yes
*SERVER	*SERVER	FLD0000003	Day	Dimension	No
SDELIVERY	SDELIVERY	DLVDAT_0	Date	Dimension	No
SDELIVERYD	SDELIVERYD	SDHNUM_0	Number	Dimension	No
SDELIVERY	SDELIVERY	LND_0	Loan Flag	Dimension	No
SDELIVERY	SDELIVERY	SDHCAT_0	Manufacturing Flag	Dimension	No
SDELIVERY	SDELIVERY	CFMFLG_0	Validated flag	Dimension	No
SDELIVERY	SDELIVERY	INVFLG_0	Invoiced flag	Dimension	No
SDELIVERYD	SDELIVERYD	SHIDAT_0	Shipment date	Dimension	No
SDELIVERY	SDELIVERY	DAYLTI_0	Lead-Time	Measure	No
SDELIVERY	SDELIVERY	SALFCY_0	Sales site	Dimension	Yes
SDELIVERYD	SDELIVERYD	STOFCY_0	Shipping Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Shipping Site Description	Description	No
SDELIVERYD	SDELIVERYD	BPCORD_0	Customer Code	Dimension	Yes
BPCUSTOMER	BPCUSTOMER	BPCNAM_0	Customer Name	Description	No
SDELIVERY	SDELIVERY	BPAADD_0	Customer Address	Description	No
BPCUSTOMER	BPCUSTOMER	BPCSTA_0	Customer Active	Dimension	No
BPCUSTOMER	BPCUSTOMER	BCGCOD_0	Customer Category	Dimension	Yes
AEXTRA	AEXTRA_5	TEXTE_0	Customer Category Description	Description	No
SDELIVERY	SDELIVERY	BPCINV_0	Invoiced customer	Dimension	Yes
SDELIVERY	SDELIVERY	BPTNUM_0	Carrier Code	Dimension	Yes
BPCARRIER	BPCARRIER	BPTNAM_0	Carrier Description	Description	No
SDELIVERY	SDELIVERY	MDL_0	Transport Method Code	Dimension	Yes
AEXTRA	AEXTRA_8	TEXTE_0	Transport Method Description	Description	No
SDELIVERY	SDELIVERY	WEU_0	Weight unit	Dimension	No
SDELIVERY	SDELIVERY	VOU_0	Volume unit	Dimension	No
SDELIVERY	SDELIVERY	PRNNPR_0	Pick slip printed	Dimension	No
SDELIVERY	SDELIVERY	PRNNDE_0	Packing slip printed	Dimension	No
SDELIVERY	SDELIVERY	BPDCRY_0	Country Code	Dimension	Yes
SDELIVERY	SDELIVERY	BPDCRYNAM_0	Country Name	Description	No
SDELIVERY	SDELIVERY	BPDCY_0	City	Dimension	Yes
SDELIVERY	SDELIVERY	CNDNAM_0	Contact	Description	No
SDELIVERY	SDELIVERY	DRN_0	Route number	Dimension	No
SDELIVERYD	SDELIVERYD	SDDLIN_0	Line	Dimension	No
SDELIVERYD	SDELIVERYD	SAU_0	Sales unit	Dimension	No
SDELIVERYD	SDELIVERYD	STU_0	Stock unit	Dimension	No
SDELIVERYD	SDELIVERYD	RCPFLG_0	Shipment inquiry	Dimension	No
SDELIVERYD	SDELIVERYD	LOC_0	Location	Dimension	No
SDELIVERYD	SDELIVERYD	LOT_0	Lot	Dimension	No

SDELIVERYD	SDELIVERYD	STA_0	Status	Dimension	No
SDELIVERYD	SDELIVERYD	SOHNUM_0	Order Number	Dimension	Yes
SDELIVERYD	SDELIVERYD	SOPLIN_0	Order Line	Dimension	No
SORDER	SORDER	ORDDAT_0	Order Date	Dimension	No
SORDER	SORDER	ORDSTA_0	Order State	Dimension	No
SORDER	SORDER	CUR_0	Order Currency	Dimension	No
SDELIVERY	SDELIVERY	SIHNUM_0	Invoice Number	Dimension	No
SDELIVERY	SDELIVERY	INVORN_0	Invoice Seq. number	Dimension	No
SINVOICE	SINVOICE	CUR_0	Invoice Currency	Dimension	No
SDELIVERYD	SDELIVERYD	ITMREF_0	Product Code	Dimension	Yes
ATEXTRA	ATEXTRA_7	TEXTE_0	Product Description	Description	No
ITMASTER	ITMASTER	TCLCOD_0	Product Category	Dimension	Yes
ATEXTRA	ATEXTRA_6	TEXTE_0	Product Category Desc.	Description	No
ITMASTER	ITMASTER	ITMSTA_0	Product Status	Dimension	Yes
APLSTD	APLSTD	LANMES_0	Product Status Desc.	Description	No
ITMASTER	ITMASTER	TSICOD_0	Product Stats. Group 1	Dimension	Yes
ATEXTRA	ATEXTRA	TEXTE_0	Product Stats. Group 1 Desc.	Dimension	No
ITMASTER	ITMASTER	TSICOD_1	Product Stats. Group 2	Dimension	Yes
ATEXTRA	ATEXTRA_1	TEXTE_0	Product Stats. Group 2 Desc.	Description	No
ITMASTER	ITMASTER	TSICOD_2	Product Stats. Group 3	Dimension	Yes
ATEXTRA	ATEXTRA_2	TEXTE_0	Product Stats. Group 3 Desc.	Description	No
ITMASTER	ITMASTER	TSICOD_3	Product Stats. group 4	Dimension	Yes
ATEXTRA	ATEXTRA_3	TEXTE_0	Product Stats. Group 4 Desc.	Description	No
ITMASTER	ITMASTER	TSICOD_4	Product Stats. Group 5	Dimension	Yes
ATEXTRA	ATEXTRA_4	TEXTE_0	Product Stats. Group 5 Desc.	Description	No
SDELIVERY	SDELIVERY	PACNBR_0	Number of packages	Measure	No
SDELIVERY	SDELIVERY	NETWEI_0	Net weight	Measure	No
SDELIVERY	SDELIVERY	GROWEI_0	Gross weight	Measure	No
SDELIVERY	SDELIVERY	DEP_0	Settlement discount	Measure	No
SDELIVERYD	SDELIVERYD	SAUSTUCOE_0	Sales/stock unit rate	Measure	No
SDELIVERYD	SDELIVERYD	QTY_0	Quantity Delivered	Measure	No
SDELIVERYD	SDELIVERYD	RTNQTY_0	Quantity Returned	Measure	No
SDELIVERYD	SDELIVERYD	QTYSTU_0	Quantity Stock Unit	Measure	No
SDELIVERYD	SDELIVERYD	RTNQTYSTU_0	Quantity Returned Stock Unit	Measure	No
SORDERQ	SORDERQ	QTY_0	Quantity Ordered	Measure	No
SORDERQ	SORDERQ	DLVQTY_0	Quantity Shipped	Measure	No
SINVOICE	SINVOICE	AMTNOT_0	Invoice Amount - taxes Global	Measure	No
*SERVER	*SERVER	FLD0000007	Invoice Amount - taxes Global	Measure Calculated	No
*SERVER	*SERVER	FLD0000006	Trans. Currency Total amt - tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000005	Trans. Currency Total Cost	Measure Calculated	No
*SERVER	*SERVER	FLD0000004	Trans. Currency Total Margin	Measure Calculated	No
*SERVER	*SERVER	FLD00000010	Global Total amt - tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000009	Global Total Cost	Measure Calculated	No
*SERVER	*SERVER	FLD0000008	Global Total Margin	Measure Calculated	No

4.5 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000002	Year	Dimension	Yes	Year(SDELIVERY.DLV DAT_0)
FLD0000001	Month	Dimension	Yes	Month (SDELIVERY.DLV DAT_0)
FLD0000003	Day	Dimension	No	Day(SDELIVERY.DLV DAT_0)
FLD0000007	Invoice Amount - taxes Global	Measure Calculated	No	SINVOICE.AMTNOT_0*ZTABCHANGE.RAT_0
FLD0000006	Trans. Currency Total amt - tax	Measure Calculated	No	SORDERP.NETPRI_0 * SORDERQ.QTY_0
FLD0000005	Trans. Currency Total Cost	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.CPRPRI_0
FLD0000004	Trans. Currency Total Margin	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.PFM_0
FLD00000010	Global Total amt - tax	Measure Calculated	No	SORDERP.NETPRI_0 * SORDERQ.QTY_0*ZTABCHANGE.RAT_0
FLD0000009	Global Total Cost	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.CPRPRI_0*ZTABCHANGE.RAT_0
FLD0000008	Global Total Margin	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.PFM_0*ZTABCHANGE.RAT_0

4.6 Prompts

List of required prompts for this process:

Name
Company
Year
Month
Facility (Site)
Facility (Site)
Customer
Customer Category
Customer
Carrier
Transport Method
Country
City
Order
Item
Product Category
Product Status
Product Statistical Group 1
Product Statistical Group 2
Product Statistical Group 3
Product Statistical Group 4
Product Statistical Group 5

4.7 Notes:

Quantity fields in this process must be handled with caution. They have been summed up in order to appear in grouped lines; however, the values will only be significant if the sums are done on the same units.

When working with data in a multi-company and/or multi-currency data environment, some fine tuning is necessary. The fields containing prices and other numbers that are related to a particular currency are gathered as they are entered at the transaction level. Adjustments may be needed to compare different currencies, such as applying rates to bring all data to the same currency.