

Sales Orders Process

SEI Templates Functional Specification

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1 Revision history

Date	Who	Description
2013/05/21	Johann Salas	Document creation
2013/06/17	Johann Salas	Document update
2013/07/07	Edgardo Mejia	Document Update

2 Business need

The Sales Orders process provides with useful fields to manipulate data around the Orders transactions placed by customers. Statistics such as the orders by product and customer and the orders follow up with delivery and returns 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
SORDERP	SORDERP	Fact Table
SORDERQ	SORDERQ	Table
BPCARRIER	BPCARRIER	Table
ZNECORDRTN	ZNECORDRTN	View
ITMMASTER	ITMMASTER	Table
SALESREP	SALESREP	Table
FACILITY	FACILITY	Table
SORDER	SORDER	Table
BPCUSTOMER	BPCUSTOMER	Table
TABCUR	TABCUR	Table
TABSOHTYP	TABSOHTYP	Table
COMPANY	COMPANY	Table
BPARTNER	BPARTNER	Table
ZTABCHANGE	ZTABCHANGE	View
ATEXTRA	ATEXTRA	Table
ATEXTRA	ATEXTRA_1	Table
ATEXTRA	ATEXTRA_2	Table
ATEXTRA	ATEXTRA_3	Table
ATEXTRA	ATEXTRA_4	Table
ATEXTRA	ATEXTRA_5	Table
ATEXTRA	ATEXTRA_6	Table
SALESREP	SALESREP_1	Table

APLSTD	APLSTD	Table
APLSTD	APLSTD_1	Table
APLSTD	APLSTD_2	Table
APLSTD	APLSTD_3	Table
APLSTD	APLSTD_4	Table
APLSTD	APLSTD_5	Table
SAL_DELIVERY_VIEW	SAL_DELIVERY_VIEW	View

4.2 Joins between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
SORDERP	SORDERP	Left	SORDERQ	SORDERQ	SORDERP.SOHNUM_0 = SORDERQ.SOHNUM_0
SORDERQ	SORDERQ	Left	BPCARRIER	BPCARRIER	SORDERQ.SOPLIN_0 = BPCARRIER.SOPLIN_0
SORDERQ	SORDERQ	Left	ZNECORDRTN	ZNECORDRTN	SORDERQ.SOPSEQ_0 = ZNECORDRTN.SQSEQ_0
SORDERQ	SORDERQ	Left	SAL_DELIVERY_VIEW	SAL_DELIVERY_VIEW	SORDERQ.BPTNUM_0 = SAL_DELIVERY_VIEW.BPTNUM_0
SORDERP	SORDERP	Left	ITMMASTER	ITMMASTER	SORDERP.SOHNUM_0 = ITMMASTER.SOHNUM_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA	ITMMASTER.SOPLIN_0 = ATEXTRA.SOPLIN_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_1	ITMMASTER.SQSEQ_0 = ATEXTRA_1.SQSEQ_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_2	ITMMASTER.SOHNUM_0 = ATEXTRA_2.SOHNUM_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_3	ITMMASTER.SOPLIN_0 = ATEXTRA_3.SOPLIN_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_4	ITMMASTER.SQSEQ_0 = ATEXTRA_4.SQSEQ_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_5	ITMMASTER.ITMREF_0 = ATEXTRA_5.ITMREF_0
SORDERP	SORDERP	Left	SALESREP	SALESREP	SORDERP.TSICOD_0 = SALESREP.IDENT2_0
SORDERP	SORDERP	Left	FACILITY	FACILITY	SORDERP.TSICOD_1 = FACILITY.IDENT2_0
SORDERP	SORDERP	Left	SORDER	SORDER	SORDERP.TSICOD_2 = SORDER.IDENT2_0
SORDER	SORDER	Left	BPCUSTOMER	BPCUSTOMER	SORDER.TSICOD_3 = BPCUSTOMER.IDENT2_0
BPCUSTOMER	BPCUSTOMER	Left	ATEXTRA	ATEXTRA_6	BPCUSTOMER.TSICOD_4 = ATEXTRA_6.IDENT2_0
SORDER	SORDER	Left	TABCUR	TABCUR	SORDER.TCLCOD_0 = TABCUR.IDENT1_0
SORDER	SORDER	Left	TABSOHTYP	TABSOHTYP	SORDER.REP1_0 = TABSOHTYP.REPNUM_0
SORDER	SORDER	Left	COMPANY	COMPANY	SORDER.STOFCY_0 = COMPANY.FCY_0
SORDER	SORDER	Left	BPARTNER	BPARTNER	SORDER.SOHNUM_0 = BPARTNER.SOHNUM_0
SORDER	SORDER	Left	ZTABCHANGE	ZTABCHANGE	SORDER.BPCORD_0 = ZTABCHANGE.BPCNUM_0
SORDER	SORDER	Left	APLSTD	APLSTD	SORDER.BCGCOD_0 = APLSTD.IDENT1_0
SORDER	SORDER	Left	APLSTD	APLSTD_1	SORDER.CUR_0 = APLSTD_1.CUR_0
SORDER	SORDER	Left	APLSTD	APLSTD_2	SORDER.SOHTYP_0 = APLSTD_2.SOHTYP_0
SORDER	SORDER	Left	APLSTD	APLSTD_4	SORDER.CPY_0 = APLSTD_4.CPY_0
SORDER	SORDER	Left	APLSTD	APLSTD_3	SORDER.BPCINV_0 = APLSTD_3.BPRNUM_0
SORDER	SORDER	Left	APLSTD	APLSTD_5	SORDER.ORDDAT_0 = APLSTD_5.DATE_0
SORDERP	SORDERP	Left	SALESREP	SALESREP_1	SORDERP.CUR_0 = SALESREP_1.CUR_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'
AEXTRA_5	CODFIC_0	Equal	'ITMCATEG'
AEXTRA_5	ZONE_0	Equal	'TCLAXX'
AEXTRA_5	LANGUE_0	Equal	@CurrentLang;
AEXTRA_6	CODFIC_0	Equal	'BPSCATEG'
AEXTRA_6	ZONE_0	Equal	'DESAXX'
AEXTRA_6	LANGUE_0	Equal	@CurrentLang;
APLSTD	LANCHP_0	Equal	415
APLSTD	LANNUM_0	Greater than	0
APLSTD	LAN_0	Equal	@CurrentLang;
APLSTD_1	LANCHP_0	Equal	416
APLSTD_1	LANNUM_0	Greater than	0
APLSTD_1	LAN_0	Equal	@CurrentLang;
APLSTD_2	LANCHP_0	Equal	417
APLSTD_2	LANNUM_0	Greater than	0
APLSTD_2	LAN_0	Equal	@CurrentLang;
APLSTD_4	LANCHP_0	Equal	243
APLSTD_4	LANNUM_0	Greater than	0
APLSTD_4	LAN_0	Equal	@CurrentLang;
APLSTD_3	LANCHP_0	Equal	418
APLSTD_3	LANNUM_0	Greater than	0
APLSTD_3	LAN_0	Equal	@CurrentLang;
APLSTD_5	LANCHP_0	Equal	419
APLSTD_5	LANNUM_0	Greater than	0
APLSTD_5	LAN_0	Equal	@CurrentLang;

4.4 Fields

Table	Alias	Field	Description	Type	Prompt
SORDER	SORDER	CPY_0	Company Code	Dimension	Yes
COMPANY	COMPANY	CPYNAM_0	Company Name	Description	No
*SERVER	*SERVER	FLD0000006	Year	Dimension	Yes
*SERVER	*SERVER	FLD0000007	Month	Dimension	Yes
*SERVER	*SERVER	FLD0000008	Day	Dimension	No
SORDER	SORDER	ORDDAT_0	Order Date	Dimension	No
SORDER	SORDER	SOHNUM_0	Order Number	Dimension	Yes
SORDER	SORDER	ORDSTA_0	Order Status code	Dimension	Yes
APLSTD	APLSTD	LANMES_0	Order Status	Dimension	No
SORDER	SORDER	SOHTYP_0	Order Type code	Dimension	No
TABSOHTYP	TABSOHTYP	TSODES_0	Order Type	Description	No
SORDER	SORDER	BPCORD_0	Sold-to Customer	Dimension	Yes
BPCUSTOMER	BPCUSTOMER	BPCNAM_0	Sold-to Name	Description	No
BPCUSTOMER	BPCUSTOMER	BPCSTA_0	Sold-to Active	Dimension	No
BPCUSTOMER	BPCUSTOMER	BCGCOD_0	Sold-to Category	Dimension	Yes
ATEXTRA	ATEXTRA_6	TEXTE_0	Sold-to Category desc.	Description	No
SORDER	SORDER	BPAADD_0	Sold-to Address	Description	No
SORDER	SORDER	CUSORDREF_0	Customer Reference	Dimension	Yes
SORDER	SORDER	DEMDLV DAT_0	Date Requested delivery	Dimension	No
SORDERQ	SORDERQ	DEMDLV DAT_0	Date Expected Del.	Dimension	No
SORDER	SORDER	CUR_0	Currency Code	Dimension	No
TABCUR	TABCUR	CURDES_0	Currency Desc.	Description	No
SORDER	SORDER	PRITYP_0	Taxes Applied	Dimension	No
APLSTD	APLSTD_4	LANMES_0	Taxe App. desc.	Description	No
SORDER	SORDER	VACBPR_0	Tax rule	Dimension	No
SORDER	SORDER	PTE_0	Payment Terms	Dimension	No
SORDER	SORDER	DLVSTA_0	Shipment Status code	Dimension	Yes
APLSTD	APLSTD_2	LANMES_0	Shipment Status	Description	No
SORDER	SORDER	ALLSTA_0	Allocation Status code	Dimension	Yes
APLSTD	APLSTD_1	LANMES_0	Allocation Status	Description	No
SORDER	SORDER	CDTSTA_0	Credit Status code	Dimension	Yes
APLSTD	APLSTD_5	LANMES_0	Credit Status	Description	No
SORDER	SORDER	INVSTA_0	Invoice Status code	Dimension	Yes
APLSTD	APLSTD_3	LANMES_0	Invoice Status	Description	No
SORDERP	SORDERP	SOPLIN_0	Line Number	Dimension	No
SORDERP	SORDERP	SOQSTA_0	Line Status	Dimension	No
SORDERP	SORDERP	SAU_0	Unit	Dimension	No
SORDERP	SORDERP	STU_0	Stock Unit	Dimension	No
SORDERP	SORDERP	SAUSTUCOE_0	Sales - Stk conv. rate	Dimension	No
SORDERP	SORDERP	REP1_0	Representative 1 Code	Dimension	Yes
SALESREP	SALESREP	REP NAM_0	Representative 1 Name	Description	No
SORDERP	SORDERP	REP2_0	Representative 2 Code	Dimension	Yes
SALESREP	SALESREP_1	REP NAM_0	Representative 2 Name	Description	No
SORDERQ	SORDERQ	BPTNUM_0	Carrier Code	Dimension	Yes
BPCARRIER	BPCARRIER	BPTNAM_0	Carrier Desc.	Description	No
SORDERQ	SORDERQ	MDL_0	Shipping Mode	Dimension	No
SORDERQ	SORDERQ	DLVPIO_0	Shipping Priority	Dimension	No
SORDERP	SORDERP	ITMREF_0	Product Code	Dimension	Yes
ITMMASTER	ITMMASTER	ITMDES1_0	Product Description	Description	No
ITMMASTER	ITMMASTER	ITMSTA_0	Product Status	Dimension	Yes

ITMMASTER	ITMMASTER	TSICOD_0	Product Stats. Group 1	Dimension	Yes
ATEXTRA	ATEXTRA	TEXTE_0	Product Stats. Group 1 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_1	Product Stats. Group 2	Dimension	Yes
ATEXTRA	ATEXTRA_1	TEXTE_0	Product Stats. Group 2 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_2	Product Stats. Group 3	Dimension	Yes
ATEXTRA	ATEXTRA_2	TEXTE_0	Product Stats. Group 3 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_3	Product Stats. Group 4	Dimension	Yes
ATEXTRA	ATEXTRA_3	TEXTE_0	Product Stats. Group 4 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_4	Product Stats. Group 5	Dimension	Yes
ATEXTRA	ATEXTRA_4	TEXTE_0	Product Stats. Group 5 Desc.	Description	No
ITMMASTER	ITMMASTER	TCLCOD_0	Product Category	Dimension	Yes
ATEXTRA	ATEXTRA_5	TEXTE_0	Product Category Desc.	Description	No
SORDERP	SORDERP	STOFCY_0	Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Site Desc.	Description	No
SORDER	SORDER	BPCINV_0	Bill-to Customer	Dimension	Yes
BPARTNER	BPARTNER	BPRNAM_0	Bill-to Name	Description	No
BPARTNER	BPARTNER	CRY_0	Bill-to Country	Dimension	Yes
SORDER	SORDER	BPCPYR_0	Pay-by Customer	Dimension	Yes
SORDER	SORDER	BPCGRU_0	Group Customer	Dimension	Yes
SORDERQ	SORDERQ	QTY_0	Quantity Ordered	Measure	No
SORDERQ	SORDERQ	DLVQTY_0	Quantity Shipped	Measure	No
SORDERQ	SORDERQ	QTYSTU_0	Quantity Ordered STU	Measure	No
SORDERQ	SORDERQ	ALLQTY_0	Quantity Allocated	Measure	No
SORDERQ	SORDERQ	SHTQTY_0	Quantity Shortage	Measure	No
SORDERQ	SORDERQ	TDLQTY_0	Quantity To Be Delivered	Measure	No
*SERVER	*SERVER	FLD0000010	Quantity Not Shipped	Measure Calculated	No
SORDERQ	SORDERQ	SHTQTYSTU_0	Quantity Shortage STU	Measure	No
SORDERQ	SORDERQ	ALLQTYSTU_0	Quantity Allocated STU	Measure	No
SORDERQ	SORDERQ	DLVQTYSTU_0	Quantity Shipped	Measure	No
SORDERQ	SORDERQ	ODLQTYSTU_0	Quantity Being Ship. STU	Measure	No
SORDERP	SORDERP	NETPRI_0	Transaction Currency Unit Net price	Measure	No
SORDERP	SORDERP	CPRPRI_0	Transaction Currency Unit Cost	Measure	No
SORDERP	SORDERP	PFM_0	Transaction Currency Unit Margin	Measure	No
*SERVER	*SERVER	FLD00000018	Global Unit Net price	Measure Calculated	No
*SERVER	*SERVER	FLD00000017	Global Unit Cost	Measure Calculated	No
*SERVER	*SERVER	FLD00000016	Global Unit Margin	Measure Calculated	No
*SERVER	*SERVER	FLD00000003	Transaction Currency Amt - tax	Measure Calculated	No
*SERVER	*SERVER	FLD00000005	Transaction Currency Cost	Measure Calculated	No
*SERVER	*SERVER	FLD00000004	Transaction Currency Margin	Measure Calculated	No
*SERVER	*SERVER	FLD00000015	Global Amt - tax	Measure Calculated	No
*SERVER	*SERVER	FLD00000014	Global Cost	Measure Calculated	No
*SERVER	*SERVER	FLD00000013	Global Margin	Measure Calculated	No
SORDER	SORDER	DAYLTI_0	Delivery days	Measure	No
*SERVER	*SERVER	FLD00000001	Days to deliver	Measure Calculated	No
*SERVER	*SERVER	FLD00000002	Days to ship	Measure Calculated	No

*SERVER	*SERVER	FLD0000009	Days late	Measure Calculated	No
*SERVER	*SERVER	FLD0000011	Transaction Currency Net Margin	Measure Calculated	No
*SERVER	*SERVER	FLD00000019	Global Net Margin	Measure Calculated	No
ZNECORDRTN	ZNECORDRTN	QTY_RTN	Return Qty Returns	Measure	No
*SERVER	*SERVER	FLD0000012	Return % of Return	Measure Calculated	No
SAL_DELIVERY_VIEW	SAL_DELIVERY_VIEW	TOTAL_DEL	Delivery Total Delivered	Measure	No
SAL_DELIVERY_VIEW	SAL_DELIVERY_VIEW	TOTAL_STU	Delivery Total Delivered Stock Unit	Measure	No
SAL_DELIVERY_VIEW	SAL_DELIVERY_VIEW	TOTAL_RCPST U	Delivery Total Received STK	Measure	No
SAL_DELIVERY_VIEW	SAL_DELIVERY_VIEW	TOTAL_WRT	Delivery Total Waiting Return	Measure	No
SAL_DELIVERY_VIEW	SAL_DELIVERY_VIEW	TOTAL_WRTS TU	Delivery Total Waiting Return Stock Unit	Measure	No

4.5 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000006	Year	Dimension	Yes	Year(SORDER.ORDDAT_0)
FLD0000007	Month	Dimension	Yes	Month(SORDER.ORDDAT_0)
FLD0000008	Day	Dimension	No	Day(SORDER.ORDDAT_0)
FLD0000010	Quantity Not Shipped	Measure Calculated	No	SORDERQ.SHTQTY_0 - SORDERQ.QTY_0
FLD0000018	Global Unit Net price	Measure Calculated	No	SORDERP.NETPRI_0*ZTABCHANGE.RAT_0
FLD0000017	Global Unit Cost	Measure Calculated	No	SORDERP.CPRPRI_0*ZTABCHANGE.RAT_0
FLD0000016	Global Unit Margin	Measure Calculated	No	SORDERP.PFM_0*ZTABCHANGE.RAT_0
FLD0000003	Transaction Currency Amt - tax	Measure Calculated	No	SORDERP.NETPRI_0 * SORDERQ.QTY_0
FLD0000005	Transaction Currency Cost	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.CPRPRI_0
FLD0000004	Transaction Currency Margin	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.PFM_0
FLD0000015	Global Amt - tax	Measure Calculated	No	SORDERP.NETPRI_0 * SORDERQ.QTY_0*ZTABCHANGE.RAT_0
FLD0000014	Global Cost	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.CPRPRI_0*ZTABCHANGE.RAT_0
FLD0000013	Global Margin	Measure Calculated	No	SORDERQ.QTY_0 * SORDERP.PFM_0*ZTABCHANGE.RAT_0
FLD0000001	Days to deliver	Measure Calculated	No	Case SORDER.DEMDLVDAT_0 when '1753-01-01' then - 1 else Datediff(day,SORDER.ORDDAT_0,SORDER.DEMDLVDAT_0) end
FLD0000002	Days to ship	Measure Calculated	No	Case SORDER.DEMDLVDAT_0 when '1753-01-01' then - 1 else Datediff(day,SORDER.ORDDAT_0,SORDER.SHIDAT_0) end
FLD0000009	Days late	Measure Calculated	No	Case SORDER.DEMDLVDAT_0 when '1753-01-01' then - 1 else case SORDER.SHIDAT_0 when '1753-01-01' then Datediff(day,'@ @CURDATE',SORDER.DEMDLVDAT_0) else Datediff(day,SORDER.SHIDAT_0,SORDER.DEMDLVDAT_0) end end
FLD0000011	Transaction Currency Net Margin	Measure Calculated	No	(SORDERP.NETPRI_0 * SORDERQ.QTY_0) - ZNECORDRTN.TOTAL
FLD0000019	Global Net Margin	Measure Calculated	No	((SORDERP.NETPRI_0 * SORDERQ.QTY_0) - ZNECORDRTN.TOTAL)*ZTABCHANGE.RAT_0
FLD0000012	Return % of Return	Measure Calculated	No	ZNECORDRTN.QTY_RTN / SORDERQ.QTY_0

4.6 SQL Views

List of required views for this process:

- SAL_DELIVERY_VIEW
- ZNECORDRTN

For detailed information about the views, please refer to the provided installation script

4.7 Prompts

Prompts added to this process will be listed next:

Name
Company
Year
Month
Order
Order Status
Customer
Customer Category
Customer
Shipment Status
Allocated Status
Credit Status
Invoice Status
Salesrep
Salesrep
Carrier
Item
Product Status
Product Statistical Group 1
Product Statistical Group 2
Product Statistical Group 3
Product Statistical Group 4
Product Statistical Group 5
Product Category
Facility (Site)
Customer
Country
Customer
Customer

4.8 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.