

# Sales Returns Process

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## SEI Templates Functional Specification

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## Table of contents

<b>1</b>	<b>Revision history .....</b>	<b>3</b>
<b>2</b>	<b>Business need .....</b>	<b>3</b>
<b>3</b>	<b>Constraints &amp; restrictions .....</b>	<b>3</b>
<b>4</b>	<b>Technical specification.....</b>	<b>3</b>
4.1	<i>Involved tables/views .....</i>	<i>3</i>
4.2	<i>Joins between tables.....</i>	<i>4</i>
4.3	<i>Specific Joins.....</i>	<i>4</i>
4.4	<i>Fields.....</i>	<i>5</i>
4.5	<i>Calculated fields.....</i>	<i>6</i>
4.6	<i>Prompts .....</i>	<i>6</i>
4.7	<i>Notes: .....</i>	<i>7</i>

## 1 Revision history

Date	Who	Description
2013/05/13	Johann Salas	Document creation
2013/07/07	Edgardo Mejia	Document Update

## 2 Business need

The Sales Returns process provides with useful fields to manipulate data around the returns transactions, the customers and the products. Statistics such as the quantities of products returned by customer, the total “cost” of the returned goods and the repartition of returns types 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
SRETURNND	SRETURNND	Fact Table
ITMMASTER	ITMMASTER	Table
COMPANY	COMPANY	Table
FACILITY	FACILITY	Table
SRETURN	SRETURN	Table
BPARTNER	BPARTNER	Table
BPCUSTOMER	BPCUSTOMER	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
APLSTD	APLSTD_1	Table
APLSTD	APLSTD_2	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
SRETURNND	SRETURNND	Left	ITMMMASTER	ITMMMASTER	SRETURNND.ITMREF_0 = ITMMMASTER.ITMREF_0
ITMMMASTER	ITMMMASTER	Left	AEXTRA	AEXTRA	ITMMMASTER.TSICOD_0 = AEXTRA.IDENT2_0
ITMMMASTER	ITMMMASTER	Left	AEXTRA	AEXTRA_1	ITMMMASTER.TSICOD_1 = AEXTRA_1.IDENT2_0
ITMMMASTER	ITMMMASTER	Left	AEXTRA	AEXTRA_2	ITMMMASTER.TSICOD_2 = AEXTRA_2.IDENT2_0
ITMMMASTER	ITMMMASTER	Left	AEXTRA	AEXTRA_3	ITMMMASTER.TSICOD_4 = AEXTRA_3.IDENT2_0
ITMMMASTER	ITMMMASTER	Left	AEXTRA	AEXTRA_4	ITMMMASTER.TSICOD_3 = AEXTRA_4.IDENT2_0
ITMMMASTER	ITMMMASTER	Left	AEXTRA	AEXTRA_5	ITMMMASTER.TCLCOD_0 = AEXTRA_5.IDENT1_0
ITMMMASTER	ITMMMASTER	Left	APLSTD	APLSTD	ITMMMASTER.ITMSTA_0 = APLSTD.LANNUM_0
ITMMMASTER	ITMMMASTER	Left	AEXTRA	AEXTRA_8	ITMMMASTER.CFGLIN_0 = AEXTRA_8.IDENT1_0
SRETURNND	SRETURNND	Left	COMPANY	COMPANY	SRETURNND.CPY_0 = COMPANY.CPY_0
SRETURNND	SRETURNND	Left	FACILITY	FACILITY	SRETURNND.STOFY_0 = FACILITY.FCY_0
SRETURNND	SRETURNND	Left	SRETURN	SRETURN	SRETURNND.SRHNUM_0 = SRETURN.SRHNUM_0
SRETURN	SRETURN	Left	BPARTNER	BPARTNER	SRETURN.BPCORD_0 = BPARTNER.BPRNUM_0
SRETURN	SRETURN	Left	BPCUSTOMER	BPCUSTOMER	SRETURN.BPCINV_0 = BPCUSTOMER.BPCNUM_0
SRETURNND	SRETURNND	Left	ZTABCHANGE	ZTABCHANGE	SRETURNND.RTNDAT_0 = ZTABCHANGE.DATE_0
SRETURNND	SRETURNND	Left	APLSTD	APLSTD_1	SRETURNND.CUR_0 = APLSTD_1.CUR_0
SRETURNND	SRETURNND	Left	APLSTD	APLSTD_2	SRETURNND.ORDUPD_0 = APLSTD_2.LANNUM_0
SRETURNND	SRETURNND	Left	AEXTRA	AEXTRA_6	SRETURNND.RTNSTOUPD_0 = AEXTRA_6.LANNUM_0
SRETURNND	SRETURNND	Left	AEXTRA	AEXTRA_7	SRETURNND.RTNREN_0 = AEXTRA_7.IDENT2_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	LANGUE_0	Equal	@CurrentLang;
AEXTRA_3	IDENT1_0	Equal	'23'
AEXTRA_4	CODFIC_0	Equal	'ATABDIV'
AEXTRA_4	ZONE_0	Equal	'LNGDES'
AEXTRA_4	IDENT1_0	Equal	'24'
AEXTRA_4	LANGUE_0	Equal	@CurrentLang;
AEXTRA_5	CODFIC_0	Equal	'ITMCATEG'
AEXTRA_5	ZONE_0	Equal	'TCLAXX'
AEXTRA_5	LANGUE_0	Equal	@CurrentLang;
APLSTD	LANCHP_0	Equal	246
APLSTD	LAN_0	Equal	@CurrentLang;
APLSTD	LANNUM_0	Greater than	0
AEXTRA_8	CODFIC_0	Equal	'TABLINCFCG'
AEXTRA_8	ZONE_0	Equal	'CFGLINAXX'
AEXTRA_8	LANGUE_0	Equal	@CurrentLang;
APLSTD_1	LANCHP_0	Equal	1

APLSTD_1	LANNUM_0	Equal	0
APLSTD_1	LAN_0	Equal	@CurrentLang;
APLSTD_2	LANCHP_0	Equal	1
APLSTD_2	LANNUM_0	Greater than	0
APLSTD_2	LAN_0	Equal	@CurrentLang;
ATEXTRA_6	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_6	IDENT1_0	Equal	'7'
ATEXTRA_6	CODFIC_0	Equal	@CurrentLang;
ATEXTRA_6	ZONE_0	Equal	'LNGDES'
ATEXTRA_7	CODFIC_0	Equal	'ITMMASTER'
ATEXTRA_7	ZONE_0	Equal	'DES1AXX'
ATEXTRA_7	LANGUE_0	Equal	@CurrentLang;

#### 4.4 Fields

Table	Alias	Field	Description	Type	Prompt
SRETURND	SRETURND	CPY_0	Company Code	Dimension	Yes
COMPANY	COMPANY	CPYNAM_0	Company Name	Description	No
*SERVER	*SERVER	FLD0000003	Year	Dimension	Yes
*SERVER	*SERVER	FLD0000004	Month	Dimension	Yes
*SERVER	*SERVER	FLD0000005	Day	Dimension	No
SRETURND	SRETURND	RTNDAT_0	Return Date	Dimension	No
SRETURND	SRETURND	SRHNUM_0	Return Number	Dimension	Yes
SRETURND	SRETURND	SRDLIN_0	Return Line	Dimension	No
SRETURN	SRETURN	BPCORD_0	Sold-to Customer Code	Dimension	Yes
BPARTNER	BPARTNER	BPRNAM_0	Sold-to Customer Name	Description	No
SRETURN	SRETURN	BPCINV_0	Bill-to Customer Code	Dimension	Yes
BPCUSTOMER	BPCUSTOMER	BPCNAM_0	Bill-to Customer Name	Description	No
SRETURND	SRETURND	STOFCY_0	Receiving Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Receiving Site Description	Description	No
SRETURN	SRETURN	BPAADD_0	Ship-to address	Description	No
SRETURND	SRETURND	ITMREF_0	Product Code	Dimension	Yes
ATEXTRA	ATEXTRA_7	TEXTE_0	Product Description	Description	No
ITMMASTER	ITMMASTER	CFGLIN_0	Product Line Code	Dimension	Yes
ATEXTRA	ATEXTRA_8	TEXTE_0	Product Line Desc.	Description	No
ITMMASTER	ITMMASTER	ITMSTA_0	Product Status	Dimension	Yes
APLSTD	APLSTD	LANMES_0	Product Status Desc.	Description	No
ITMMASTER	ITMMASTER	TCLCOD_0	Product Category	Dimension	Yes
ATEXTRA	ATEXTRA_5	TEXTE_0	Product Category Desc.	Description	No
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
SRETURN	SRETURN	EXTRTNDAT_0	Expected return date	Dimension	No
SRETURND	SRETURND	RTNREN_0	Reason Code	Dimension	Yes
ATEXTRA	ATEXTRA_6	TEXTE_0	Reason Description	Description	No
SRETURND	SRETURND	ORDUPD_0	Reactivated Order Code	Dimension	No
APLSTD	APLSTD_1	LANMES_0	Reactivated Order Description	Description	No

SRETURNND	SRETURNND	RTNSTOUPD_0	Actual Stock Return Code	Dimension	No
APLSTD	APLSTD_2	LANMES_0	Actual Stock Return Description	Description	No
SRETURN	SRETURN	LNDRTN_0	Loan return	Dimension	No
SRETURNND	SRETURNND	SAU_0	Sales Unit	Dimension	No
SRETURNND	SRETURNND	SAUSTUCOE_0	SAL - STK Conversion	Dimension	No
SRETURNND	SRETURNND	STU_0	Stock Unit	Dimension	No
SRETURNND	SRETURNND	RTNINVUPD_0	Deduct From Invoice	Dimension	No
SRETURNND	SRETURNND	RTNCNOFLG_0	Credit Memo	Dimension	No
SRETURNND	SRETURNND	SIHNUM_0	Credit Memo Number	Dimension	No
SRETURNND	SRETURNND	SDHNUM_0	Shipment Number	Dimension	No
SRETURNND	SRETURNND	PNHNUM_0	No Supplier Return	Dimension	No
SRETURNND	SRETURNND	EXTQTY_0	Quantity Expected Return	Measure	No
SRETURNND	SRETURNND	QTY_0	Quantity Returned	Measure	No
SRETURNND	SRETURNND	DLVQTY_0	Quantity Shipped	Measure	No
SRETURNND	SRETURNND	NETPRI_0	Trans. Currency Net price	Measure	No
SRETURNND	SRETURNND	NETPRINOT_0	Trans. Currency Net price -tax	Measure	No
SRETURNND	SRETURNND	NETPRIATI_0	Trans. Currency Net price +tax	Measure	No
*SERVER	*SERVER	FLD0000009	Global Net price	Measure Calculated	No
*SERVER	*SERVER	FLD0000008	Global Net price -tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000007	Global Net price +tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000002	Returned Vs Expected	Measure Calculated	No
*SERVER	*SERVER	FLD0000001	Trans. Currency Return Total	Measure Calculated	No
*SERVER	*SERVER	FLD0000006	Count	Measure Calculated	No
*SERVER	*SERVER	FLD0000010	Global Return Total	Measure Calculated	No

#### 4.5 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000003	Year	Dimension	Yes	Year(SRETURNND.RTNDAT_0)
FLD0000004	Month	Dimension	Yes	Month(SRETURNND.RTNDAT_0)
FLD0000005	Day	Dimension	No	Day(SRETURNND.RTNDAT_0)
FLD0000009	Global Net price	Measure Calculated	No	SRETURNND.NETPRI_0*ZTABCHANGE.RAT_0
FLD0000008	Global Net price -tax	Measure Calculated	No	SRETURNND.NETPRINOT_0*ZTABCHANGE.RAT_0
FLD0000007	Global Net price +tax	Measure Calculated	No	SRETURNND.NETPRIATI_0*ZTABCHANGE.RAT_0
FLD0000002	Returned Vs Expected	Measure Calculated	No	EXTQTY_0 - QTY_0
FLD0000001	Trans. Currency Return Total	Measure Calculated	No	QTY_0 * NETPRI_0
FLD0000006	Count	Measure Calculated	No	((1.0))
FLD0000010	Global Return Total	Measure Calculated	No	QTY_0 * NETPRI_0*ZTABCHANGE.RAT_0

#### 4.6 Prompts

List of required prompts for this process compared to the standard template

Name
Company
Year
Month
Return Number
Customer
Customer

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Facility (Site)
Item
Product Line
Product Status
Product Category
Product Statistical Group 1
Product Statistical Group 2
Product Statistical Group 3
Product Statistical Group 4
Product Statistical Group 5
Return Reason

#### 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.