

# Purchasing Returns Process

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## SEI Templates Functional Specification

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## 1 Revision history

Date	Who	Description
2013/06/03	Johann Salas	Document creation
2013/07/09	Edgardo Mejia	Document Update

## 2 Business need

The Purchasing Returns process provides useful fields to manipulate data around the Purchasing Returns transactions placed by employees. Statistics such as the Returns by supplier, Returns by Reason and the Orders Vs 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
PRETURND	PRETURND	Fact Table
PRETURN	PRETURN	Table
BPCARRIER	BPCARRIER	Table
BPARTNER	BPARTNER	Table
ITMMASTER	ITMMASTER	Table
FACILITY	FACILITY	Table
BPSUPPLIER	BPSUPPLIER	Table
BPSCATEG	BPSCATEG	Table
COMPANY	COMPANY	Table
ZTABCHANGE	ZTABCHANGE	Table
PORDER	PORDER	Table
AEXTRA	AEXTRA	Table
AEXTRA	AEXTRA_1	Table
AEXTRA	AEXTRA_2	Table
AEXTRA	AEXTRA_3	Table
AEXTRA	AEXTRA_4	Table
AEXTRA	AEXTRA_5	Table
AEXTRA	AEXTRA_6	Table
AEXTRA	AEXTRA_7	Table
AEXTRA	AEXTRA_8	Table
AEXTRA	AEXTRA_9	Table

### 4.2 Joins between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
PRETURND	PRETURND	Left	PRETURN	PRETURN	PRETURND.PNHNUM_0 = PRETURN.PNHNUM_0
PRETURN	PRETURN	Left	BPCARRIER	BPCARRIER	PRETURN.BPTNUM_0 = BPCARRIER.BPTNUM_0
PRETURN	PRETURN	Left	BPARTNER	BPARTNER	PRETURN.BPRPAY_0 = BPARTNER.BPRNUM_0
PRETURN	PRETURN	Left	ATEXTRA	ATEXTRA_9	PRETURN.BUY_0 = ATEXTRA_9.IDENT1_0
PRETURND	PRETURND	Left	ITMMASTER	ITMMASTER	PRETURND.ITMREF_0 = ITMMASTER.ITMREF_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA	ITMMASTER.TCLCOD_0 = ATEXTRA.IDENT1_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_1	ITMMASTER.TSICOD_0 = ATEXTRA_1.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_2	ITMMASTER.TSICOD_1 = ATEXTRA_2.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_3	ITMMASTER.TSICOD_2 = ATEXTRA_3.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_4	ITMMASTER.TSICOD_3 = ATEXTRA_4.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_5	ITMMASTER.TSICOD_4 = ATEXTRA_5.IDENT2_0
PRETURND	PRETURND	Left	FACILITY	FACILITY	PRETURND.PNHFCY_0 = FACILITY.FCY_0
PRETURND	PRETURND	Left	BPSUPPLIER	BPSUPPLIER	PRETURND.BPSNUM_0 = BPSUPPLIER.BPSNUM_0
BPSUPPLIER	BPSUPPLIER	Left	BPSCATEG	BPSCATEG	BPSUPPLIER.BSGCOD_0 = BPSCATEG.BSGCOD_0
PRETURND	PRETURND	Left	COMPANY	COMPANY	PRETURND.CPY_0 = COMPANY.CPY_0
PRETURND	PRETURND	Left	PORDER	PORDER	PRETURND.POHNUM_0 = PORDER.POHNUM_0
PORDER	PORDER	Left	ZTABCHANGE	ZTABCHANGE	PORDER.CUR_0 = ZTABCHANGE.CUR_0
PRETURND	PRETURND	Left	ATEXTRA	ATEXTRA_6	PRETURND.CHGTYP_0 = ATEXTRA_6.CHGTYP_0
PRETURND	PRETURND	Left	ATEXTRA	ATEXTRA_7	PRETURND.ORDDAT_0 = ATEXTRA_7.DATE_0
PRETURND	PRETURND	Left	ATEXTRA	ATEXTRA_8	PRETURND.RTNREN_0 = ATEXTRA_8.IDENT2_0

### 4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
ATEXTRA_9	CODFIC_0	Equal	'AUTILIS'
ATEXTRA_9	ZONE_0	Equal	'INTUSR'
ATEXTRA_9	LANGUE_0	Equal	@CurrentLang;
ATEXTRA	CODFIC_0	Equal	'ITMCATEG'
ATEXTRA	ZONE_0	Equal	'TCLAXX'
ATEXTRA	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_1	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_1	ZONE_0	Equal	'LNGDES'
ATEXTRA_1	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_1	IDENT1_0	Equal	'20'
ATEXTRA_2	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_2	ZONE_0	Equal	'LNGDES'
ATEXTRA_2	LANGUE_0	Equal	@CurrentLang;
ATEXTRA	IDENT1_0	Equal	'21'
ATEXTRA_3	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_3	ZONE_0	Equal	'LNGDES'
ATEXTRA_3	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_3	IDENT1_0	Equal	'22'
ATEXTRA_4	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_4	ZONE_0	Equal	'LNGDES'
ATEXTRA_4	IDENT1_0	Equal	'23'
ATEXTRA_4	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_5	CODFIC_0	Equal	'ATABDIV'

AEXTRA_5	ZONE_0	Equal	'LNGDES'
AEXTRA_5	LANGUE_0	Equal	@CurrentLang;
AEXTRA_5	IDENT1_0	Equal	'24'
AEXTRA_6	CODFIC_0	Equal	'ATABDIV'
AEXTRA_6	ZONE_0	Equal	'LNGDES'
AEXTRA_6	LANGUE_0	Equal	@CurrentLang;
AEXTRA_6	IDENT1_0	Equal	'7'
AEXTRA_7	CODFIC_0	Equal	'ITMMASTER'
AEXTRA_7	ZONE_0	Equal	'DES1AXX'
AEXTRA_7	LANGUE_0	Equal	@CurrentLang;
AEXTRA_8	CODFIC_0	Equal	'TABCUR'
AEXTRA_8	ZONE_0	Equal	'INTDES'
AEXTRA_8	LANGUE_0	Equal	@CurrentLang;

#### 4.4 Fields

Table	Alias	Field	Description	Type	Prompt
PRETURND	PRETURND	CPY_0	Company Code	Dimension	Yes
COMPANY	COMPANY	CPYNAM_0	Company Description	Description	No
*SERVER	*SERVER	FLD0000001	Year	Dimension	Yes
*SERVER	*SERVER	FLD0000002	Month	Dimension	Yes
*SERVER	*SERVER	FLD0000003	Day	Dimension	No
PRETURND	PRETURND	RTNDAT_0	Return Date	Dimension	No
PRETURND	PRETURND	PNHNUM_0	Number	Dimension	No
PRETURND	PRETURND	BPSNUM_0	Supplier Code	Dimension	Yes
BPSUPPLIER	BPSUPPLIER	BPSNAM_0	Supplier Description	Description	No
BPSUPPLIER	BPSUPPLIER	BSGCOD_0	Supplier Category Code	Dimension	Yes
BPSCATEG	BPSCATEG	BSGDES_0	Supplier Category Desc.	Description	No
PRETURN	PRETURN	BUY_0	Buyer Code	Dimension	Yes
AEXTRA	AEXTRA_9	TEXTE_0	Buyer Name	Description	No
PRETURN	PRETURN	BPTNUM_0	Carrier Code	Dimension	Yes
BPCARRIER	BPCARRIER	BPTNAM_0	Carrier Description	Description	No
PRETURN	PRETURN	BPRPAY_0	Pay-to Code	Dimension	Yes
BPARTNER	BPARTNER	BPRNAM_0	Pay-to Name	Description	No
PRETURND	PRETURND	PNHFCY_0	Return Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Return Site Description	Description	No
PRETURND	PRETURND	ITMREF_0	Product Code	Dimension	Yes
AEXTRA	AEXTRA_7	TEXTE_0	Product Description	Description	No
ITMMASTER	ITMMASTER	TCLCOD_0	Product Category	Dimension	Yes
PRETURND	PRETURND	PNDLIN_0	Line	Dimension	No
AEXTRA	AEXTRA	TEXTE_0	Product Category Description	Description	No
ITMMASTER	ITMMASTER	TSICOD_0	Product Stats. Group 1 Code	Dimension	Yes
AEXTRA	AEXTRA_1	TEXTE_0	Product Stats. Group 1 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_1	Product Stats. Group 2 Code	Dimension	Yes
AEXTRA	AEXTRA_2	TEXTE_0	Product Stats. Group 2 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_2	Product Stats. Group 3 Code	Dimension	Yes
AEXTRA	AEXTRA_3	TEXTE_0	Product Stats. Group 3 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_3	Product Stats. Group 4 Code	Dimension	Yes
AEXTRA	AEXTRA_4	TEXTE_0	Product Stats. Group 4 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_4	Product Stats. Group 5 Code	Dimension	Yes
AEXTRA	AEXTRA_5	TEXTE_0	Product Stats. Group 5 Desc.	Description	No
PRETURND	PRETURND	RTNREN_0	Reason Code	Dimension	Yes

AEXTRA	AEXTRA_6	TEXTE_0	Reason Description	Description	No
PRETURND	PRETURND	WEU_0	Weight Unit	Dimension	No
PRETURND	PRETURND	PUU_0	Purchase Unit	Dimension	No
PRETURND	PRETURND	UOMPIUCOE_0	STK-PUR Conversion	Dimension	No
PRETURND	PRETURND	STU_0	Stock unit	Dimension	No
PRETURND	PRETURND	UOMSTUCOE_0	STK Conversion	Dimension	No
PRETURND	PRETURND	UOM_0	Return Unit	Dimension	No
PRETURND	PRETURND	POPLIN_0	Order Line	Dimension	No
PRETURND	PRETURND	CPRCUR_0	Currency Code	Dimension	No
AEXTRA	AEXTRA_8	TEXTE_0	Currency Description	Description	No
PRETURND	PRETURND	QTYSTU_0	Quantity STK	Measure	No
PRETURND	PRETURND	QTYPUU_0	Quantity PUR	Measure	No
PRETURND	PRETURND	QTYUOM_0	Quantity Returned	Measure	No
PRETURND	PRETURND	GROPRI_0	Gross Price	Measure	No
PRETURND	PRETURND	NETPRI_0	Net Price	Measure	No
PRETURND	PRETURND	NETPRIPUU_0	Net Price PUR	Measure	No
PRETURND	PRETURND	LINAMT_0	Line Amount -Tax	Measure	No
PRETURND	PRETURND	LINATIAMT_0	Line Amount +Tax	Measure	No
PRETURND	PRETURND	CPR_0	Cost Price	Measure	No
*SERVER	*SERVER	FLD0000005	Cost Total	Measure Calculated	No
*SERVER	*SERVER	FLD0000006	Count	Measure Calculated	No
*SERVER	*SERVER	FLD0000004	Total Returned	Measure Calculated	No
*SERVER	*SERVER	FLD0000014	Global Gross Price	Measure Calculated	No
*SERVER	*SERVER	FLD0000013	Global Net Price	Measure Calculated	No
*SERVER	*SERVER	FLD0000012	Global Net Price PUR	Measure Calculated	No
*SERVER	*SERVER	FLD0000011	Global Line Amount -Tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000010	Global Line Amount +Tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000009	Global Price	Measure Calculated	No
*SERVER	*SERVER	FLD0000008	Global Total	Measure Calculated	No
*SERVER	*SERVER	FLD0000007	Global Total Returned	Measure Calculated	No

4.5 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000001	Year	Dimension	Yes	Year(PRETURND.RTNDAT_0)
FLD0000002	Month	Dimension	Yes	Month(PRETURND.RTNDAT_0)
FLD0000003	Day	Dimension	No	Day(PRETURND.RTNDAT_0)
FLD0000005	Cost Total	Measure Calculated	No	PRETURND.QTYUOM_0 * PRETURND.CPR_0
FLD0000006	Count	Measure Calculated	No	((1.0))
FLD0000004	Total Returned	Measure Calculated	No	PRETURND.QTYUOM_0 * PRETURND.NETPRI_0
FLD0000014	Global Gross Price	Measure Calculated	No	(ZTABCHANGE.RAT_0*PRETURND.GROPRI_0)
FLD0000013	Global Net Price	Measure Calculated	No	(ZTABCHANGE.RAT_0*PRETURND.NETPRI_0)
FLD0000012	Global Net Price PUR	Measure Calculated	No	ZTABCHANGE.RAT_0*PRETURND.NETPRIPUU_0

FLD00000011	Global Line Amount -Tax	Measure Calculated	No	ZTABCHANGE.RAT_0*PRETURND.LINAMT_0
FLD00000010	Global Line Amount +Tax	Measure Calculated	No	ZTABCHANGE.RAT_0*PRETURND.LINATIAMT_0
FLD00000009	Global Price	Measure Calculated	No	ZTABCHANGE.RAT_0*PRETURND.CPR_0
FLD00000008	Global Total	Measure Calculated	No	ZTABCHANGE.RAT_0*PRETURND.QTYUOM_0 * PRETURND.CPR_0
FLD00000007	Global Total Returned	Measure Calculated	No	PRETURND.QTYUOM_0 * PRETURND.NETPRI_0*ZTABCHANGE.RAT_0

**4.6 SQL Views**

No SQL Views needed for this process.

**4.7 Prompts**

List of required prompts for this process:

Name
Company
Year
Month
Supplier Name
Supplier Category
Buyer
Carrier
Partner
Facility (Site)
Item
Product Category
Product Statistical Group 1
Product Statistical Group 2
Product Statistical Group 3
Product Statistical Group 4
Product Statistical Group 5
Return Reason

**4.8 Recommended Links**

Purchasing Returns can be linked to the following processes:

- Order Process with the fields: POHNUM, POPLIN, POQSEQ.
- Product Process with the field ITMREF.
- Business Partner with the field BPRPAY.

**4.9 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.