

# Inventory Management Process

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## SEI Templates Functional Specification

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## 1 Revision history

Date	Who	Description
2013/06/27	Johann Salas	Document creation
2013/07/09	Edgardo Mejia	Document Update

## 2 Business need

The Inventory process provides useful fields to manipulate data around the products, statistics like Inventory per product category which contains useful information such as quantities stocked, allocated and in process per each item among other information that 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
ITMMASTER	ITMMASTER	Fact Table
STOCK	STOCK	Table
FACILITY	FACILITY	Table
COMPANY	COMPANY	Table
ITMFACILIT	ITMFACILIT	Table
AEXTRA	AEXTRA	Table
AEXTRA	AEXTRA_1	Table
AEXTRA	AEXTRA_2	Table
AEXTRA	AEXTRA_3	Table

## 4.2 Joins between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
ITMMASTER	ITMMASTER	Left	STOCK	STOCK	ITMMASTER.ITMREF_0 = STOCK.ITMREF_0
STOCK	STOCK	Left	FACILITY	FACILITY	STOCK.STOFCY_0 = FACILITY.FCY_0
FACILITY	FACILITY	Left	COMPANY	COMPANY	FACILITY.LEGCPY_0 = COMPANY.CPY_0
STOCK	STOCK	Left	ITMFACILIT	ITMFACILIT	STOCK.ITMREF_0 = ITMFACILIT.ITMREF_0
STOCK	STOCK	Left	AEXTRA	AEXTRA_2	STOCK.STOFCY_0 = AEXTRA_2.STOFCY_0
STOCK	STOCK	Left	AEXTRA	AEXTRA_3	STOCK.STOFCY_0 = AEXTRA_3.IDENT1_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA	ITMMASTER.LOCTYP_0 = AEXTRA.IDENT2_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_1	ITMMASTER.STA_0 = AEXTRA_1.IDENT1_0

## 4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
AEXTRA_2	CODFIC_0	Equal	'TABLOCTYP'
AEXTRA_2	ZONE_0	Equal	'TYPDESAXX'
AEXTRA_2	LANGUE_0	Equal	@CurrentLang;
AEXTRA	CODFIC_0	Equal	'ITMCATEG'
AEXTRA	ZONE_0	Equal	'TCLAXX'
AEXTRA	LANGUE_0	Equal	@CurrentLang;
AEXTRA_1	CODFIC_0	Equal	'ITMMASTER'
AEXTRA_1	ZONE_0	Equal	'DES1AXX'
AEXTRA_1	LANGUE_0	Equal	@CurrentLang;

## 4.4 Fields

Table	Alias	Field	Description	Type	Prompt
FACILITY	FACILITY	LEGCPY_0	Company Code	Dimension	No
COMPANY	COMPANY	CPYNAM_0	Company Description	Description	No
STOCK	STOCK	STOFCY_0	Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Site Description	Description	No
STOCK	STOCK	LOC_0	Location	Dimension	Yes
STOCK	STOCK	LOCCAT_0	Location category	Dimension	No
STOCK	STOCK	LOCTYP_0	Loc Type Code	Dimension	No
AEXTRA	AEXTRA_2	TEXTE_0	Loc Type Description	Description	No
STOCK	STOCK	LOT_0	Lot	Dimension	Yes
STOCK	STOCK	SLO_0	Sub-Lot	Dimension	No
STOCK	STOCK	STA_0	Stock Status	Dimension	Yes
AEXTRA	AEXTRA_3	TEXTE_0	Stock Status Desc	Description	No
ITMMASTER	ITMMASTER	ITMREF_0	Product Code	Dimension	Yes
AEXTRA	AEXTRA_1	TEXTE_0	Product Description	Description	No
ITMMASTER	ITMMASTER	TCLCOD_0	Product Categ. Code	Dimension	Yes
AEXTRA	AEXTRA	TEXTE_0	Product Categ. Description	Description	No
STOCK	STOCK	LASISSDAT_0	Date Last Issue	Dimension	No
STOCK	STOCK	LASRCPDAT_0	Date Last Receipt	Dimension	No
STOCK	STOCK	SERNUM_0	Serial Number	Dimension	No
STOCK	STOCK	QTYPCU_0	Quantity Pack	Measure	No
STOCK	STOCK	QTYSTU_0	Quantity Stock	Measure	No
STOCK	STOCK	CUMALLQTY_0	Quantity Allocated	Measure	No
STOCK	STOCK	CUMWIPQTY_0	Quantity In Process	Measure	No
*SERVER	*SERVER	FLD0000002	Quantity Available	Measure Calculated	No
STOCK	STOCK	QTYSTUACT_0	Quantity Active	Measure	No

*SERVER	*SERVER	FLD0000001	Quantity Stock - Net	Measure Calculated	No
ITMFACILIT	ITMFACILIT	REOTSD_0	Planning Reorder Point	Measure	No
ITMFACILIT	ITMFACILIT	SAFSTO_0	Planning Safety Stock	Measure	No

#### 4.5 SQL Views

No SQL Views are required for this process.

#### 4.6 Prompts

List of required prompts for this process:

Name
Facility (Site)
location
Lot
Stock Status
Item
Product Category

#### 4.7 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000002	Quantity Available	Measure Calculated	No	STOCK.QTYSTU_0 - STOCK.CUMALLQTY_0
FLD0000001	Quantity Stock - Net	Measure Calculated	No	STOCK.QTYSTU_0 - ITMFACILIT.SAFSTO_0

#### 4.8 Recommended Links

Inventory can be linked to the following processes:

- Sales Orders Process with the field ITMREF.
- Products Process with the field ITMREF.
- Sales Deliveries with the field ITMREF.

#### 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.