

Planning [MPS-MRP] Process

SEI Templates Functional Specification

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1 Revision history

Date	Who	Description
2013/06/21	Johann Salas	Document creation
2013/07/09	Edgardo Mejia	Document Update

2 Business need

The Planning (MPS-MRP) process provides useful fields to manipulate data around the manufacturing transactions placed by employees. Statistics such as the MRP and MPS Suggestion List offers data per product about the remaining and reordering policy, in the same way other manufacturing 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
ORDERS	ORDERS	Fact Table
ITMMASTER	ITMMASTER	Table
ITMFACILIT	ITMFACILIT	Table
FACILITY	FACILITY	Table
ATEXTRA	ATEXTRA	Table
ATEXTRA	ATEXTRA_1	Table
APLSTD	APLSTD	Table
APLSTD	APLSTD_1	Table
APLSTD	APLSTD_2	Table
APLSTD	APLSTD_3	Table

4.2 Joins between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
ORDERS	ORDERS	Left	ITMMASTER	ITMMASTER	ORDERS.ITMREF_0 = ITMMASTER.ITMREF_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA	ITMMASTER.ITMREF_0 = ATEXTRA.IDENT1_0

ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_1	ITMMASTER.TCLCOD_0 = ATEXTRA_1.IDENT1_0
ORDERS	ORDERS	Left	ITMFACILIT	ITMFACILIT	ORDERS.ITMREF_0 = ITMFACILIT.ITMREF_0
ORDERS	ORDERS	Left	FACILITY	FACILITY	ORDERS.STOFCY_0 = FACILITY.STOFCY_0
ORDERS	ORDERS	Left	APLSTD	APLSTD	ORDERS.STOFCY_0 = APLSTD.FCY_0
ORDERS	ORDERS	Left	APLSTD	APLSTD_1	ORDERS.VCRTYPORI_0 = APLSTD_1.LANNUM_0
ORDERS	ORDERS	Left	APLSTD	APLSTD_2	ORDERS.WIPTYP_0 = APLSTD_2.LANNUM_0
ORDERS	ORDERS	Left	APLSTD	APLSTD_3	ORDERS.MRPMES_0 = APLSTD_3.LANNUM_0

4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
ATEXTRA	CODFIC_0	Equal	'ITMMASTER'
ATEXTRA	ZONE_0	Equal	'DES1AXX'
ATEXTRA	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_1	CODFIC_0	Equal	'ITMCATEG'
ATEXTRA_1	ZONE_0	Equal	'TCLAXX'
ATEXTRA_1	LANGUE_0	Equal	@CurrentLang;
APLSTD	LANCHP_0	Equal	318
APLSTD	LANNUM_0	Greaterthan	0
APLSTD	LAN_0	Equal	@CurrentLang;
APLSTD_1	LANCHP_0	Equal	341
APLSTD_1	LANNUM_0	Greaterthan	0
APLSTD_1	LAN_0	Equal	@CurrentLang;
APLSTD_2	LANCHP_0	Equal	701
APLSTD_2	LANNUM_0	Greaterthan	0
APLSTD_2	LAN_0	Equal	@CurrentLang;
APLSTD_3	LANCHP_0	Equal	342
APLSTD_3	LANNUM_0	Greaterthan	0
APLSTD_3	LAN_0	Equal	@CurrentLang;

4.4 Fields

Table	Alias	Field	Description	Type	Prompt
*SERVER	*SERVER	FLD0000002	Year	Dimension	No
*SERVER	*SERVER	FLD0000003	Month	Dimension	No
*SERVER	*SERVER	FLD0000004	Day	Dimension	No
ORDERS	ORDERS	STRDAT_0	Date Start	Dimension	No
ORDERS	ORDERS	ENDDAT_0	Date End	Dimension	No
ORDERS	ORDERS	STOFCY_0	Site Code	Dimension	No
FACILITY	FACILITY	FCYNAM_0	Site Name	Description	No
*SERVER	*SERVER	FLD0000001	Status	Description	No
ORDERS	ORDERS	ITMREF_0	Product Code	Dimension	No
ATEXTRA	ATEXTRA	TEXTE_0	Product Description	Description	No
ITMMASTER	ITMMASTER	TCLCOD_0	Product Category Code	Dimension	No
ATEXTRA	ATEXTRA_1	TEXTE_0	Product Category Desc.	Description	No
ITMFACILIT	ITMFACILIT	FOHUOT_0	Request Horizon Time Unit	Dimension	No
ITMMASTER	ITMMASTER	SSU_0	Statistic Unit	Dimension	No
ORDERS	ORDERS	ITMREFORI_0	Source Product	Dimension	No
ORDERS	ORDERS	MRPMES_0	MRP Message Code	Dimension	No
APLSTD	APLSTD_2	LANMES_0	MRP Message Description	Description	No
ORDERS	ORDERS	ORI_0	Source	Dimension	No

ORDERS	ORDERS	VCRNUM_0	Document	Dimension	No
ORDERS	ORDERS	VCRNUMORI_0	Source Document Number	Dimension	No
ORDERS	ORDERS	VCRTYPORI_0	Source Document Type Code	Dimension	No
APLSTD	APLSTD	LANMES_0	Source Document Type Desc.	Description	No
ORDERS	ORDERS	WIPTYP_0	Order type Code	Dimension	No
APLSTD	APLSTD_1	LANMES_0	Order type Description	Description	No
ITMFACILIT	ITMFACILIT	FOH_0	Demand Horizon	Measure	No
ITMFACILIT	ITMFACILIT	PLH_0	Firm Horizon	Measure	No
ITMFACILIT	ITMFACILIT	PLHUOT_0	Planning Horizon Time Unit	Measure	No
ITMFACILIT	ITMFACILIT	REOPOL_0	Reordering Policy	Measure	No
ORDERS	ORDERS	RMNEXTQTY_0	Remaining	Measure	No
ORDERS	ORDERS	WIPSTA_0	WIP status Code	Dimension	No
APLSTD	APLSTD_3	LANMES_0	WIP status Description	Description	No

4.5 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000002	Year	Dimension	No	Year(ORDERS.STRDAT_0)
FLD0000003	Month	Dimension	No	Month(ORDERS.STRDAT_0)
FLD0000004	Day	Dimension	No	Day(ORDERS.STRDAT_0)
FLD0000001	Status	Description	No	APLSTD_1.LANMES_0 + APLSTD_3.LANMES_0

4.6 SQL Views

No Sql Views are required for this process.

4.7 Recommended Links

Planning (MPS-MRP) can be linked to the following processes:

- Product Process with the field ITMREF.

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.