



Demand Fulfillment Scenario with and without Shelf Life planning using PPDS:

Product has Shelf life and Maturation time as shown below:

Change Product T0001263 for Location ABML

Product: T0001263 Base Unit: EA

Prod. Descriptn: 049US FDP 60MG/ML 1ML VI

Location: ABML

Administr. | Properties | Units of Meas. | Classification | Pkg Data | ATP

TMOREY 07/26/2006 05:33:23 MZISHAN 08/24/2006 00:53:36

General Data

Material Group: Transp. Group: Other: SDP Relevance:

EAN/UPC: Prod.Hierarchy: **Shelf Life**

EAN/UPC Ping with Shelf Life

Measurements and Weights

Gross Weight: 0.000 Shelf Life: 10.00

Volume: 0.000 Maturation Time: 9.00

Stacking Factor: Req.Min.Sh.Life: Req.Max.Sh.Life:

Additional Data

Future Use 1: Product Family: DENOSUMAB

Mfg Stage: FDP Standard Cost: Device (only applies): VIAL

Product Heuristics for Shelf Life planning in PPDS will help address the planning with consideration of Shelf life specified in the business scenario in this example:

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Business Scenario: Shelf Life – 41

Author: Anjali Kumar

Module: GATP/ PPDS

Please note **the scenario** is that

- Stock exists on 8/23/06 which is expired for a requirement on 9/7/06
- A production receipt of 75 exist which is expired for a shelf life
- A production receipt of 50 exists which is not expired and can be used to meet the requirement on 9/7/06

Outcomes of Case 1 (Without Shelf life consideration) and Case 2 (With Shelf life consideration)

- **Case 1:** A new receipt of missing 25 qty needs to be created if Shelf life is not considered.
- **Case 2:** A new receipt of missing 150 needs to be created if Shelf life is considered.

Planning Situation at start with

Total Requirement = 200

Total Receipts = 175

Avail/ReqD	Avail/ReqT	Category	Receipt/Rqmt. Elemt.	Rec/ReqQty	Conf. Qty.	Available	Surp/short	PP-Firmed	Conv. Ind.	Not PegRel	Miss.Prt
08/23/2006	20:25:31	Stock	/CC/(12/31/1969)	50	50	50	50			<input type="checkbox"/>	
08/24/2006	23:59:59	P/Ord. (F)	200000000027/000010	75	0	125	75	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
09/01/2006	23:59:59	P/Ord. (F)	200000000028/000010	50	0	175	50	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
09/07/2006	12:00:00	FC req.		200	0	25	200			<input type="checkbox"/>	
10/31/2006	23:59:59		SNP Product Horizon								
10/31/2006	23:59:59		PP/DS Horizon								
				0	0	0	0				

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Case 1: Run product heuristics **without the shelf life consideration**. The 200 pieces forecast is fulfilled by pre-existing receipts of stock 50 + Planned Firm order of 75 + Planned Firm order of 50 + the system creates the planned order of 25 to fulfillment.

Based on the shelf life established in the product master, the forecast requirement of 200 should not be fulfilled with the current stock on hand of 50 as it does not meet the 10 days shelf life for this product.

Interactive Planning Edit Goto Settings DS Planning Board System Help

Product View: T0001263, Planning Version TAS

Order Product Heuristic Strategy Variable Heuristic

Product: T0001263 049US FDP 60MG/ML 1ML VI
 Location: ABML
 Acct Assignment:
 AmgenDS [D]: 14.67

Elements Periods Quantities Stock Pegging Overview Product Master Forecast

T0001263 in ABML (Make-to-stock)

Avail/ReqD	Avail/ReqT	Category	Receipt/Rqmt. Elermt.	Rec/ReqQty	Conf. Qty.	Available	Surp/short	PP-Firmed	Conv. Ind.	Not PegRel	Miss.I
08/23/2006	20:39:42	Stock	/CC/(12/31/1969)	50	50	50	50			<input type="checkbox"/>	
08/24/2006	23:59:59	PIOrd. (F)	200000000027/000010	75	0	125	75	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
09/01/2006	23:59:59	PIOrd. (F)	200000000028/000010	50	0	175	50	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
09/07/2006	12:00:00	PIOrd.	200000000033/000010	25	0	200	25	<input type="checkbox"/>		<input type="checkbox"/>	
09/07/2006	12:00:00	FC req.		200	0	0	200			<input type="checkbox"/>	
10/31/2006	23:59:59		SNP Product Horizon								
10/31/2006	23:59:59		PP/DS Horizon								
				0	0	0	0				
				0	0	0	0				
				0	0	0	0				

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Case 2: We now run Variable heuristics to fulfill Demand (Forecast or Sales Order) after deleting the planned order created in previous Case 1 PPDS planning run with following Settings with Shelf life planning turned on.

The screenshot shows the SAP 'Execute Heuristic' dialog box. The 'Heuristic' field is set to '/SAPAPO/HEU_PLAN_STANDARDLOTS'. The 'Basic Settings' tab is active, showing the 'Net Requirements Calculation' section. The 'Procedure' is set to 'Avoid Surpluses'. The 'Plan with Shelf Life' checkbox is checked and circled in red. Other options include 'Group Past Requirements' (unchecked), 'Consider Shortages Outside the PP/DS Horizon' (unchecked), and 'Period Outside the PP/DS Horizon' (with 'Period Type' set to 'None', 'No. of Periods' set to '0', and 'Planning Calendar' set to 'None'). The 'Create New Receipt Elements' section shows 'Sort Procedure' set to 'Chronological Order' and 'Reuse Mode' set to 'Use Suitable Receipt Elements'.

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Execute Heuristic

Plan Product

Heu Product T0001263 049US FDP 60MG/ML 1ML VI
Plan Location ABML PIng Version TAS Unit EA 08/23/2006 at 23:1
frn Acct Assignment Make-to-stock
To Use Lot Size Settings from Heuristic

Lot Size/Days' Supply

Procedures

Lot-for-Lot Lot size unit EA
 Fixed Lot Size 153,769
 By Period Period Type Planning Calendar
 Reorder Point Notific. Proc. Number of Periods 1
Reorder Days' Supply

Quantity Determination

Minimum Lot Size Assembly Scrap (%)
Maximum Lot Size Rounding Value
Targ. Stk Lvl Method Rounding Profile
Target Days' Supply

Scheduling

Safety Days'S.
 Use Period Factor Period Factor

Stock Data

Safety Stock 0 SStk method MB
Reorder Point

An order as highlighted is created to cover the requirement with shelf life consideration. The stock that exist

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Product View: T0001263, Planning Version TAS

Product: T0001263 049US FDP 60MG/ML 1ML VI
 Location: ABML
 Acct Assignment: []
 DS [D]: 14.67

Elements Periods Quantities Stock Pegging Overview Product Master Forecast

T0001263 in ABML (Make-to-stock)

Avail/ReqD	Avail/ReqT	Category	Receipt/Rqmt. Elemnt.	Rec/ReqQty	Conf. Qty.	Available	Surp/short	PP-Firmed	Conv. Ind.
08/23/2006	20:32:55	Stock	/CC/(12/31/1969)	50	50	50	50		
08/24/2006	23:59:59	PIOrd. (F)	200000000027/000010	75	0	125	75	<input checked="" type="checkbox"/>	
08/29/2006	12:00:00	PIOrd.	200000000032/000010	150	0	275	0	<input type="checkbox"/>	
09/01/2006	23:59:59	PIOrd. (F)	200000000028/000010	50	0	325	50	<input checked="" type="checkbox"/>	
09/07/2006	12:00:00	FC req.		200	0	125	50		
10/31/2006	23:59:59		SNP Product Horizon						
10/31/2006	23:59:59		PP/DS Horizon						
				0	0	0	0		

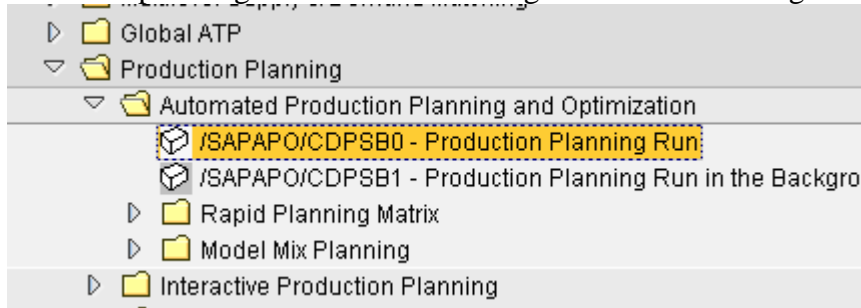
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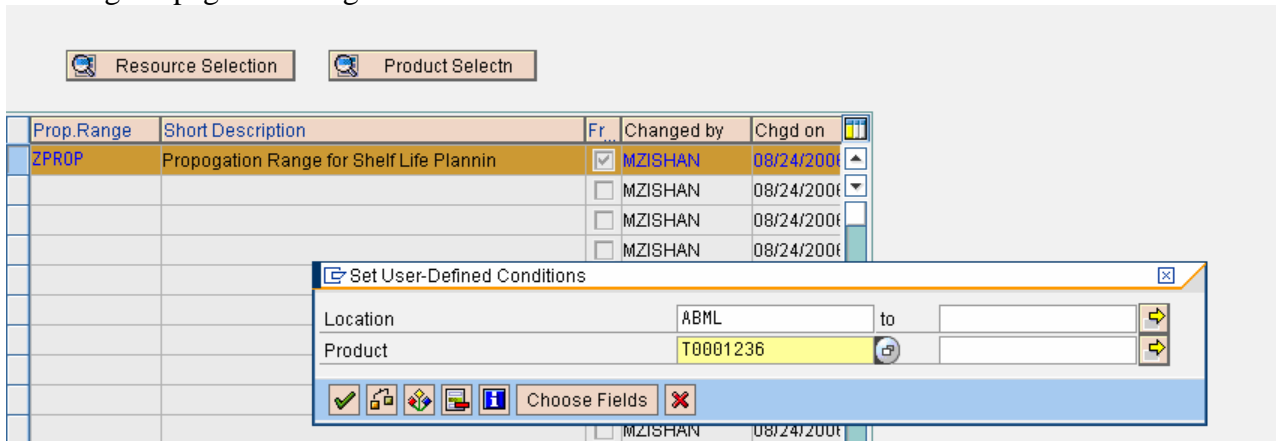


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The same planning can be achieved using Automatic Planning:



Defining Propagation Range:



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Production Planning Run

Settings for Heuristic Strategy

Global Settings

Planning Version	TAS
Time Profile	SAP001
Propagation Range	SAPALL
Simulation Version	

Control Parameters

Display Logs

Processing Steps

Step	Function/Heuristic	Profile	Cust.ID	Obj . Save	Select.Crit.
01	Planning of Std Lots with St	SAP002		4 <input type="checkbox"/>	
02				<input type="checkbox"/>	
03	Planning of Std Lots with Shelf Life			<input type="checkbox"/>	
04				<input type="checkbox"/>	
05				<input type="checkbox"/>	
06				<input type="checkbox"/>	
07				<input type="checkbox"/>	
08				<input type="checkbox"/>	
09				<input type="checkbox"/>	
10				<input type="checkbox"/>	

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