

Business One in Action - What is the date used by MRP to calculate the requirements?



Applies to:

SAP Business One, [Logistics](#), [Stock](#)

Summary:

This article discusses the dates used by MRP to calculate stock requirements.

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Author Bio:

Noreen Armstrong joined SAP in 2004 and is currently active as Senior Support Consultant for SAP Business One. She has worked as both technical and business consultant. She authored this article as a direct response to a partner enquiry during the Expert-on-Phone project, where she consulted on mainly logistics and administrative related topics.

Table of Contents

What is the date used by MRP to calculate the requirements?.....	3
Related Contents	6
Copyright	7

What is the date used by MRP to calculate the requirements?

Document: [How to Configure and Use MRP](#)

In a Sales or Production Order the 'Delivery Date' or 'Document Date' indicates the specific date at which the item needs to be in the warehouse in order to deliver it or facilitate production of a parent item.

When calculating the recommendation date for ordering this item, the delivery date from these documents is the date which is taken into consideration by the Material Resource Planning (MRP) calculation.

In the following example:

- The current system date is 14 October 2008.
- The item has a lead time of two days.

The screenshot shows the 'Item Master Data' dialog box in SAP, with the 'Planning Data' tab selected. The 'Lead Time' field is highlighted with a red rectangle and contains the value '2' Days. Other fields include 'Item Number' (NL), 'Description' (Newsletter), 'Item Type' (Items), 'Item Group' (Items), 'Price List' (IMPORT1&2WH1), and 'Unit Price' (GBP 37.50). The 'MRP' method is selected in the 'Planning Method' dropdown.

Item Number	NL	Bar Code		<input checked="" type="checkbox"/> Stock Item
Description	Newsletter			<input checked="" type="checkbox"/> Sales Item
Desc. in Foreign Lang.				<input checked="" type="checkbox"/> Purchased Item
Item Type	Items			<input type="checkbox"/> Fixed Assets
Item Group	Items			
Price List	IMPORT1&2WH1	Unit Price	GBP 37.50	

Planning Method	MRP
Procurement Method	Buy
Order Interval	
Order Multiple	
Minimum Order Qty	0.000

Lead Time	2	Days
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- The delivery date in the Sales Order is the 18 October 2008 which is four days from today's date.

The screenshot shows the SAP Sales Order window for customer TIE_C. The 'Delivery Date' field is highlighted with a red rectangle and contains the value 18.10.08. Other fields include Posting Date (14.10.08) and Document Date (14.10.08). The item list below shows one item: Item No. NL, Item Description Newsletterq, Quantity 1, Unit Price GBP 25.00, and Total (LC) GBP 25.00.

Customer	TIE_C	No.	Primary	36
Name	Take it Easy	Status	Open	
Contact Person		Posting Date	14.10.08	
Customer Ref. No.		Delivery Date	18.10.08	
Local Currency		Document Date	14.10.08	

#	Type	Item No.	Item Descri...	Quan...	Unit Price	VAT Code	Total (LC)	Freight...
1		NL	Newsletterq	1	GBP 25.00	E1	GBP 25.00	

- The MRP Wizard is run for 7 days from 14.10.2008 to 20.10.2008 and considers the holiday table for 'Purchase Planning'.

The screenshot shows the SAP MRP Wizard - NL window. The 'Scenario Details' section is active, showing the planning horizon from 14.10.08 to 20.10.08 for 7 days. The 'Consider Holiday Table for:' section has 'Purchase Planning' selected. The 'Items' section shows 'From NL To NL' and 'Item Group All'. The 'Display Preferences' section shows 'Sort by Item Number'. The 'Save Scenario' button is visible.

Scenario Details
Define the planning horizon and the items you would like to include in the MRP report. Choose Display Preferences.

Description: NL Simulation

Planning Horizon

View Data in Periods of: 1 Days

Start Date: 14.10.08

End Date: 20.10.08

Report Length: 7 Days

Max. Cumulative Lead Time: Days

Consider Holiday Table for:

Production Planning

Purchase Planning

Items

Code: From NL To NL

Item Group: All

Properties: Ignore

Display Preferences

Sort by: Item Number

Display Items Without Requirements

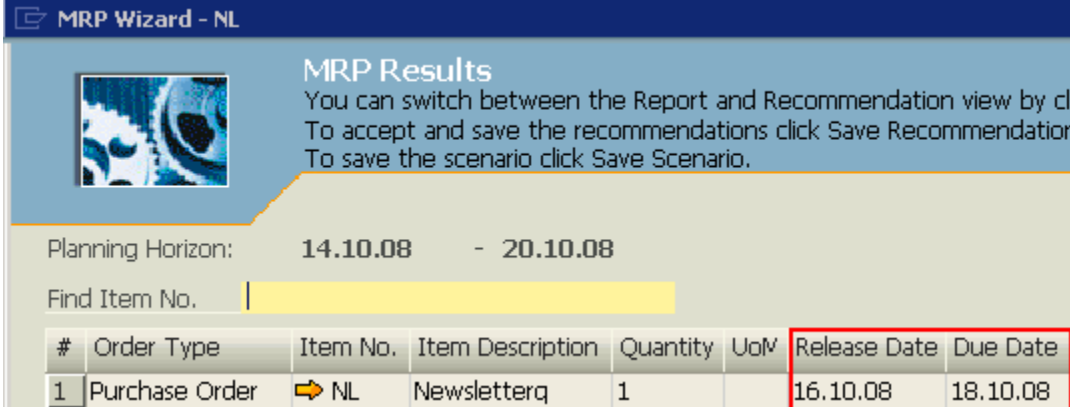
Save Scenario

Step 2 of 4

Cancel < Back Next > Run

MRP Results

The 'MRP Results' displays the 'Release Date' of the 16 October 2008 for this item. This 'Release Date' indicates the last date by which the 'Purchase Order' must be added in order to meet the 'Delivery Date' defined in the Sales Order. The 'Release Date' is dependent on the lead time. Consequently, in this example the 'Release Date' is the 16.10.08 because our lead time is 2 days and the 'Delivery Date' is the 18.10.08.



The screenshot shows the 'MRP Wizard - NL' window. The title bar reads 'MRP Wizard - NL'. Below the title bar, there is a header area with the text 'MRP Results' and instructions: 'You can switch between the Report and Recommendation view by clicking on the corresponding icon. To accept and save the recommendations click Save Recommendation. To save the scenario click Save Scenario.' Below this, the 'Planning Horizon' is set to '14.10.08 - 20.10.08'. There is a search field for 'Find Item No.' with a yellow highlight. Below the search field is a table with the following data:

#	Order Type	Item No.	Item Description	Quantity	UoM	Release Date	Due Date
1	Purchase Order	➔ NL	Newsletterq	1		16.10.08	18.10.08

The 'Due Date' displays the suggested 'Due Date' for the production orders or 'Delivery Date' for the purchase orders. If the recommended order is past due, according to the items' lead time, the due date appears in red.

Related Contents

- [SAP Business One in Action Catalog Page](#)
- DRC: [How to Configure and Use MRP](#)
- For more information, visit the [Business One homepage](#).

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