ACMECO

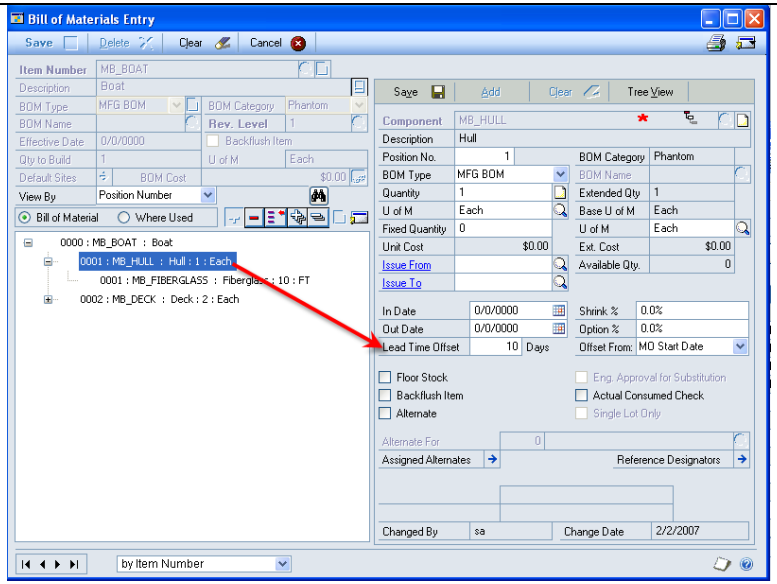
DS0038

Picklist Scheduling

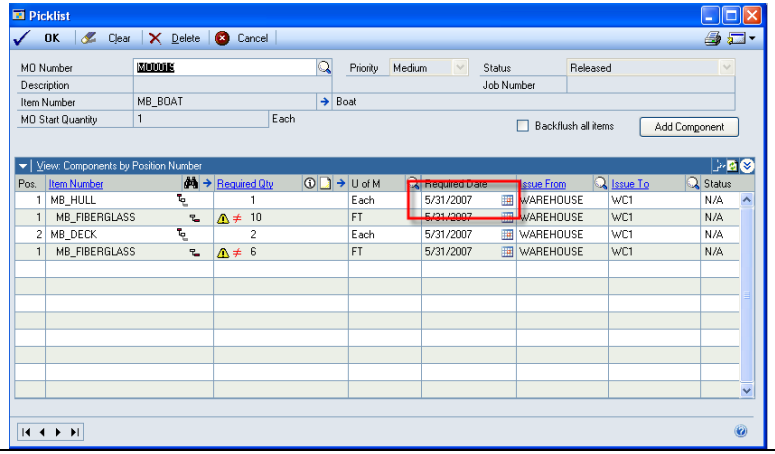
Table of Contents

Problem Definition

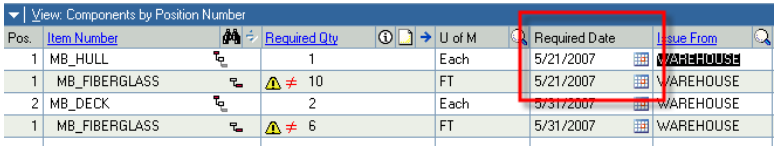
Document – Problem Definition	CCDA
ACMECO uses the GP Sales Configurator to create MOs for the widget manufacturing. The manufacturing process takes 8 days. Al levels on the BOM are phantoms, so they have flattened their BOM to one level. On the phantom level BOMs they have input the lead time offset in order to time the requirements for materials needed to the shop floor. They areusing a JIT-type of process for getting materials to the right work center at the right time. Dynamics GP only uses the lead time offset from the top level when calculating component required dates. It does not use the lead time offsets from all of the components on the phantom BOMs. The required date of the phantom and its components should be offset from the required date of its parent. ACMECO is using the Component Transaction Entry window to issue components. They would like to be able to view which materials need to be issued to a work center on a specific day. In the example below, one of the subcomponents has a lead time offset of 10-days.	



However, when an MO is created for ACMECO, the Picklist shows that all materials are due on the Start Date of the MO:



ACMECO would like to picklist requirements to be scheduled using the Lead Time Offset. As shown below, the Required Date for MB_HULL has been correctly calculated using the Lead Time Offset of 10 days.



View: Components by Position Number

Pos.	Item Number	Required Qty	U of M	Required Date	Issue From
1	MB_HULL	1	Each	5/21/2007	WAREHOUSE
1	MB_FIBERGLASS	≠ 10	FT	5/21/2007	WAREHOUSE
2	MB_DECK	2	Each	5/31/2007	WAREHOUSE
1	MB_FIBERGLASS	≠ 6	FT	5/31/2007	WAREHOUSE

Design Features

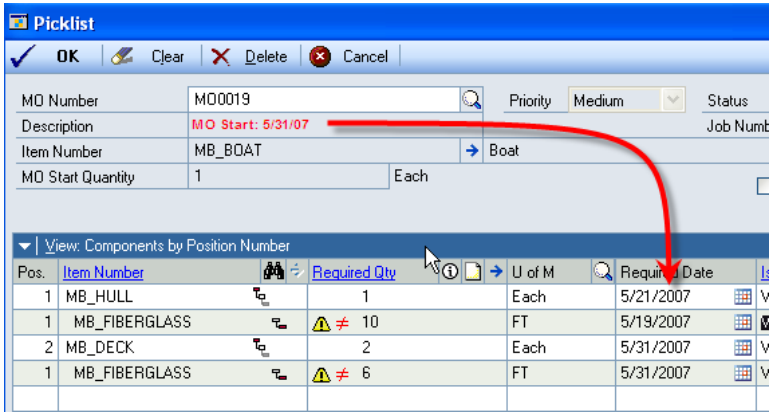
Picklist Scheduling	CCDA

A new routine will be created that performs Picklist Scheduling. This routine will be run when either one of two events occur on the Manufacturing Order Entry window to ensure the Picklist lines get rescheduled. The events that will trigger this are:

- Clicking the Schedule MO button
- Changing the MO Status to Released

The user will also be able to force a rescheduling by going to Extras >> Additional >> Reschedule Picklist.

The routine will set the Required Date for each picklist line by moving downwards through the BOM and offsetting the Required Date for the component by the Lead Time Offset. At each level it will set the Required Date for that component by subtracting the Lead Time Offset (in Days) from the Required Date of the parent item. The first level items are offset from the Start Date of the MO.



The example above shows that the MO Start is 5/31/07. MB_HULL has a Lead Time Offset

of 10 days, so it Required Date has been rescheduled to 5/21/07. The Fiberglass used in MB_HULL has a Lead Time Offset of 2 days, so it has been rescheduled 2 days prior to its parent, and is now required on 5/19/07. The LTO rescheduling will look at the Work Center of the first sequence on the Routing to retrieve the Work Center Calendar. Down Days for the Work Center will be considered when the picklist release dates are calculated.	