



**DS0070**  
**MO Generator**



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## Problem Definition

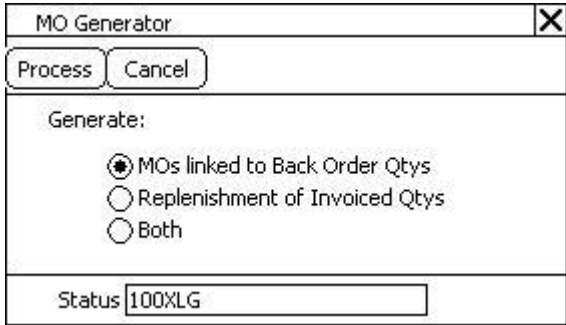
<b><i>Problem Definition</i></b>	<b>CCDA</b>
<p>ACME Co.is generating manufacturing orders from Sales Transaction Entry. The processing of these orders is taking a significant amount of time while the order entry person is on the phone with the customer.</p> <p>A solution is desired that will allow a complete order to be taken without generating an MO per line, then create all MOs for the sales document after the order is complete.</p>	



## Solution Overview

<b><i>Solution Overview</i></b>	<b>CCDA</b>
<p>The Manufacturing switches that Enable MO Generation will be turned off so that the user is not required to create manufacturing orders during sales transaction entry.</p> <p>The customization will allow the user to initiate a process from Sales Transaction Entry that will generate manufacturing orders for all lines on the sales order (if needed).</p> <p>The customization will also provide a method to execute a batch process that will examine all open sales documents and create manufacturing orders as needed. This process might be run as a nightly job, thus freeing the user from having to create any manufacturing orders from Sales Transaction Entry.</p>	

## Design Features

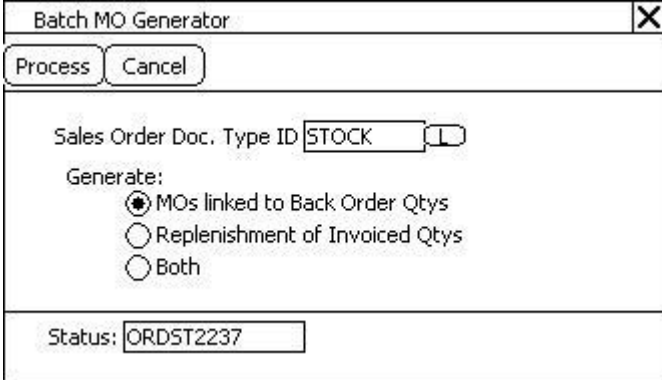
<b>Sales Transaction Entry</b>		<b>CCDA</b>
<p>The customization will provide an Extras menu option to initiate the MO Generation process (Extras &gt;&gt; Additional &gt;&gt; Generate MOs).</p> 		
<b>Field</b>	<b>Function</b>	
Process	Initiates the batch processing of sales documents.	
Cancel	Aborts the process. The current line will be completed, and any changes already made will not be reversed.	
Generate options	<p>MOs linked to Back Order Qtys: creates an MO linked to each SOP line that has a Quantity to Back Order</p> <p>Replenishment of Invoiced Qtys: creates an MO for each SOP Line that has a Quantity to Invoice. These MOs are not linked to the sales line.</p> <p>Both: performs both of the above functions. If a sales line has a Quantity to Invoice (fulfilled from stock), and a Quantity to Back</p>	

	<p>Order (because on hand was less than needed), the system will generate two MOs.</p>	
<p>The MO Generator window will open. The user will select one of the MO Generation options, then click Process.</p> <p>The MO Generator will be available for Orders and Invoices.</p> <p>After clicking Process, the status field window will display the current line being processed, and the new MO Number being created. To be processed, the following must be true:</p> <ul style="list-style-type: none"> <li>• The sales line has a Quantity to Back Order (depending on selection)</li> <li>• The Item Number is Make to Order Silent (other fulfillment methods will be ignored)</li> <li>• The item has a Manufacturing BOM, and a Primary Routing</li> </ul> <p>At the end of the process an Error Log report will print that shows any error conditions, as well as information about the following information about each MO:</p> <ul style="list-style-type: none"> <li>• Item number</li> <li>• MO Number</li> <li>• Quantity</li> <li>• Due Date</li> </ul> <p>NOTE: the system will track which lines have been processed, so will not create duplicates if run a second time. Linked orders (MOs that are generated for Back Ordered Quantity lines) will be recorded in the Manufacturing MOP-SOP Links table. Normal MOP-SOP linking functionality will be observed for these orders. Replenishment orders (generated from Qty To Invoice lines), will not be recorded in the MOP-SOP links table, but will be stored in a separate table so the module knows which SOP lines have already been processed.</p> <p>If a SOP line with a Replenishment order is changed (SOP line quantity increase or decrease, or if the SOP line is deleted) there will be no change to the Manufacturing Order.</p> <p>The system will follow the same logic GP Manufacturing uses to generate MOs from the Manufacturing Series Sales Item Detail window. If any error conditions are encountered (such as the sales line does not have a Qty to Back Order), these will be reported in the Error Log, and processing will continue with the next sales line.</p> <p>For one type of Sales Order (see Setup), ACME wants to be able to Back Order All</p>		



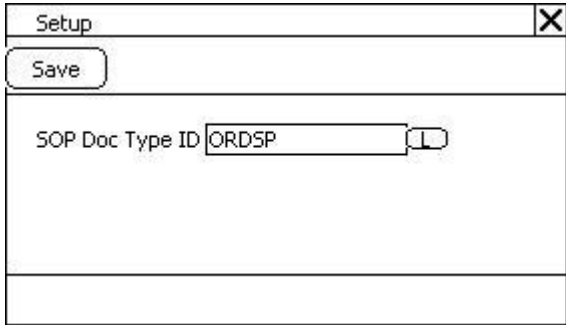
Quantities, regardless of On Hand Quantity. For this Order Type the "Allocate By" option will be set to None, and the Document Type ID will be stored in Setup. When this Order Type is selected, the user will be able to change all quantities on the Order to Qty To Back Order by going to Extras >> Additional >> Back Order All.

The user will be asked to confirm they want to change all quantities on the Order to Qty To Back Order. If any line has any quantity invoiced, allocated or fulfilled, the line will be skipped.

<b>Batch MO Generator</b>		<b>CCDA</b>
<p>The Batch MO Generator window will be accessed from Tools &gt;&gt; Utilities &gt;&gt; Sales &gt;&gt; Batch MO Generator.</p> 		
Field	Function	
Process	Initiates the batch processing of sales documents.	
Cancel	Aborts the process. The current document line will be completed, and any changes already made will not be reversed.	
Sales Order Doc.Type ID	User enters or selects a SOP Document Type ID for Orders. The system will only generate MOs for orders with the specified ID.	
Generate options	<p>MOs linked to Back Order Qtys: creates an MO linked to each SOP line that has a Quantity to Back Order</p> <p>Replenishment of Invoiced Qtys: creates an MO for each SOP Line that has a Quantity to Invoice. These MOs are not linked to the sales line.</p> <p>Both: performs both of the above functions. If a sales line has a Quantity to Invoice (fulfilled from stock), and a Quantity to Back Order (because on hand was less than needed), the system will</p>	



generate two MOs.	
<p>After clicking Process the user will be asked to confirm they are ready to begin. The status field on the bottom of the window will display progress.</p>	
<p>When finished, the system will print an Error Log report showing the documents and items that were processed, or where processing was attempted but had errors.</p>	
<p>See comments in the MO Generator section about how the MO Generation process will work.</p>	

<b>Setup</b>	<b>CCDA</b>						
<p>The Setup window is used to specify a Sales Order Document Type ID for which the "Backorder All" modification will be available (see Sales Transaction Entry section).</p> <p>The window will be access from Tools &gt;&gt; Setup &gt;&gt; Sales &gt;&gt; MO Generator</p>  <table border="1" data-bbox="191 902 1272 1029"> <thead> <tr> <th>Field</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>SOP Doc Type ID</td> <td>This must be a Document Type ID for an Order, where the Allocate By option is set to NONE</td> </tr> <tr> <td>Save</td> <td>Saves the setup information</td> </tr> </tbody> </table>	Field	Function	SOP Doc Type ID	This must be a Document Type ID for an Order, where the Allocate By option is set to NONE	Save	Saves the setup information	
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