



DS0085
Multi-bin Enhancements



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Problem Definition

<i>Problem Definition</i>	CCDA
<p>There are several areas in the system where the multi-bin functionality requires manual selections from the user, and/or does not print the bin selections when a transaction posts, and/or does not keep a record of the bins used in the transaction.</p> <p>The Item Site Default Bins window allows specifying bin priorities, and Minimum/Maximum quantities for each bin, but this information is not “connected” to GP transactions.</p> <p>The specific areas of concern are:</p> <ul style="list-style-type: none"> • Purchase Order Receiving: when inventory is received, the system should automatically select which bins to use based on the Bin Priorities and Min/Max levels. Additionally, when posting the receipt there is no report that shows the bin distributions for the inventory. • Inventory Transfers: when moving inventory between sites, the system should automatically select which bins to draw inventory from, and which bins to put inventory in to. Also, during posting there is no report that shows the bins. • Bin Transfers: the bin transfer transaction does not actually create a transaction, so there is no record of what moved inventory between bins. 	

Solution Overview

<i>Solution Overview</i>	CCDA
<p>The proposed solution will “connect” the Item Site Default Bins setup to Purchase Receipts and Inventory Transfers. The bin priority will be used to figure out which bins to use first, second, and so on, while also considering the Min/Max quantities for each bin. This information will be used to create “default” bin/quantity selections during Purchase Receipts and Inventory Transfers.</p> <p>For both of these transactions a new “Put Away” report will be created that will print information about which bin(s) will receive the inventory (or where it will be drawn from). The general purpose of this report is to serve as directions for warehouse personnel to use when picking inventory.</p> <p>Lastly, a new Bin Transfer Transaction will be added to provide a traceable and auditable record in history of the movement of inventory between bins.</p>	

Design Features

<i>Item Site Default Bins</i>	CCDA
<p>Navigation: Cards >> Inventory >> Quantity/Sites >> Bins button</p> <p>Add ability to delete rows, and sort the bin priority by moving a selected row up or down.</p> <p>Extras menu options will be added to this window:</p> <ul style="list-style-type: none">• Delete Row• Move Row Up• Move Row Down	

PO Receiving	CCDA
<p>The PO Receiving process will be modified to auto-create Bin Entry distribution records based on Item Site Default Bins settings. When a PO Line is received, the default bin selections from Dynamics GP will be rewritten by assigning inventory to bins based on (1) Bin Priority and (2) Maximum Quantity allowed in the bin.</p> <p>The entire quantity received will be put into one bin, as long as that quantity will not exceed the bin's Maximum Quantity. A single receipt may be split into several bins, depending on the quantity needed to reach a bin's Maximum, and the Unit of Measure being received. For example, the first priority bin could be below max, but a single "Case" being received would exceed the maximum, so the receipt will be put into a different bin. In other words, if a CASE is 10-eaches, the system will perform the put away in whole multiples of 10.</p> <p>In the event all bins are full, the default bin for all receipts will be the lowest priority bin. So if there are three bins, A, B, and C, if the receipt quantity would exceed the Maximum for A and B, the receipt will go into C regardless of the maximum set on C.</p> <p>The user can go to Bin Quantity Entry to override or change the bin allocations calculated by the system. From this window the user can also re-calculate the distributions by going to Extras >> Reallocate Bins.</p> <p>Additionally, a Put Away report will be available from the Receivings Transaction Entry window from Extras >> Print Put Away Report. It will show the following information:</p> <ul style="list-style-type: none"> • Receipt Number • PO Number • Item Number • Item Description • Quantity & U of M Received • Bin <p>The customization will not support serial or lot numbered inventory, and will not support GP Manufacturing QA-Site functionality.</p>	

<i>Bin Transfers - Overview</i>	CCDA
<p>The Dynamics GP Item Bin Transfer Entry window moves inventory from bin to bin without creating a record of the transaction. The proposed solution in this location will replace that window with a new window (same name) which creates a bin transfer transaction. This will follow typical transaction functionality for Dynamics GP. The bin transfer transaction will have the following features:</p> <ul style="list-style-type: none"> • It can be Saved into a Bin Transfer Batch • It can be Posted at the transaction level • It can be Posted at the batch level • It provides a posting journal (note—no journal entries occur with this transaction, so the posting “journal” is a report showing the inventory items, quantities, and from/to bins. • Transactions are separated into open, editable transactions from posted, historical (non-editable) transactions. • Historical transactions can be viewed in an Inquiry window. <p>There will be no support for serial/lot numbers.</p>	

Bin Transfers - Setup

Navigation: Tools >> Setup >> Inventory >> Setup Bin Transfers

Setup X

Save

Document Prefix Allow Transaction Level Posting

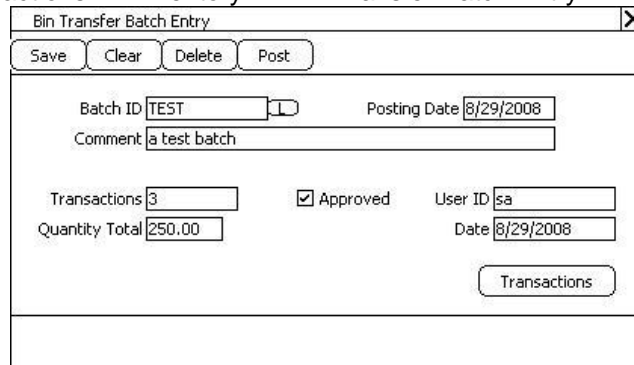
Next Number Require Batch Approval Password

Total Length ▼

Field	Function
Document Prefix	A 3-character string field. This provides the prefix for the document numbering sequence.
Next Number	A long integer (11 digits) that starts at one and increments by one for each document.
Total Length	The combination of Prefix and Number is padded with zeros to reach the correct total length. In the example above, the document number would be BT00001.
Allow Transaction Level Posting	If marked the user can Post a bin transfer from the bin transfer window. If not marked the bin transfer must be saved in a batch, and posted from the Bin Transfer Batch Entry window.
Require Batch Approval	If marked, the password field becomes enabled and a password will be required. When attempting to post a batch the user will have to provide the approval password.

Bin Transfers – Batch Entry

Navigation: Transactions >> Inventory >> Bin Transfer Batch Entry



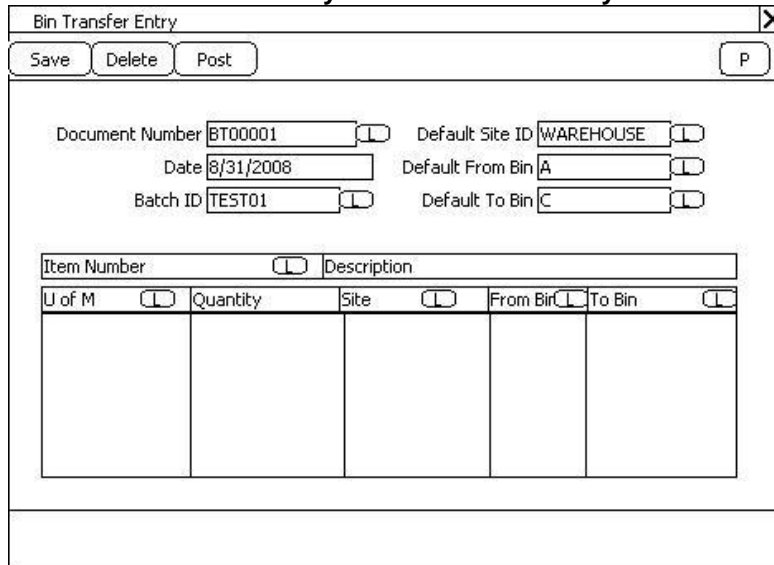
Field	Function
Batch ID	Enter or lookup a Batch ID. Lookup window is not shown.
Posting Date	Defaults to the User Date. User can override.
Comment	Free text entry. Provide description of the batch;
Transactions	System maintained count of the number of transactions in the batch.
Quantity Total	System maintained total quantity of inventory in the batch
Approved	User can mark to indicate approval. If Require Batch Approval is marked in Setup, the user will have to enter a password to be able to mark the Approved box, and will be required to have it marked before the batch can be posted.
UserID	Set to the User ID when the Approved box is marked
Date	Set to the System Date when the Approved box is marked
Transactions	Opens the Bin Transfer Entry window with the selected Batch ID already displayed.
Save	Saves the batch information
Clear	Clears the window without saving changes
Delete	Deletes the batch and all pending Bin Transfers in the Batch

Post	Posts all Bin Transfers in the Batch. Note: since no journal entries are created when moving inventory between bins, this is not a true posting process, and no posting journals will print. This Post function causes the inventory to move between bins, and the Bin Transfer documents move to history.	
Print	Print button will be in right-hand corner of the window. Prints a report showing the Bin Transfers in the Batch, with the Item, Quantity, and Bin transfer information for each transaction.	

Bin Transfers – Bin Transfer Entry

This is the transaction window where bin transfers will be created.

Navigation: Transactions >> Inventory >> Bin Transfer Entry



Item Number	Description	U of M	Quantity	Site	From Bin	To Bin

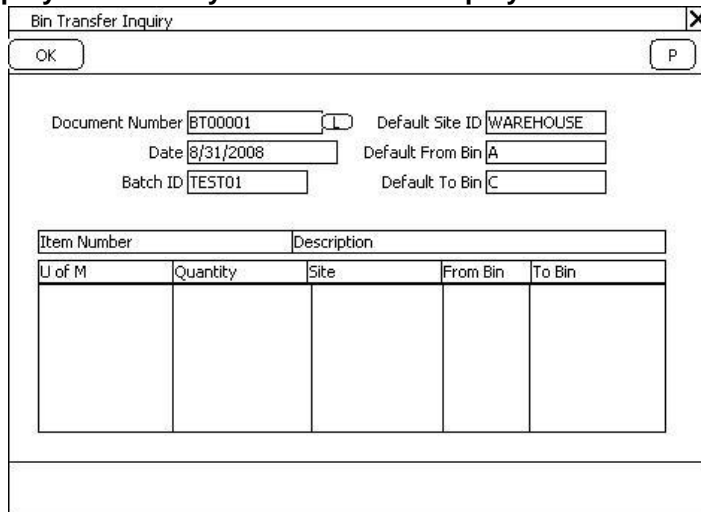
Field	Function
Document Number	Will default to the next document number. User can enter or lookup a different number to work with an existing transaction. The Lookup window is not shown.
Date	Defaults to User Date
Batch ID	Required to save a document. Posting can occur at the transaction level if the document is not assigned to a batch.
Default Site ID	If provided, the Site ID field will populate automatically.
Default From Bin	If provided, the From Bin field will populate automatically.
Default To Bin	If provided, the To Bin field will populate automatically.

Save	Saves the transaction. A Batch ID must be provided to save a transaction.	
Delete	Asks the user for confirmation, then deletes the transaction.	
Post	Posting the transaction moves the inventory between bins, and prints a "posting journal" with details of the transaction.	
<p>As soon as the Item, Site, From Bin and Quantity are specified, the inventory in that bin becomes allocated to this transaction, making it unavailable for any other GP transaction.</p>		

Bin Transfers – Bin Transfer Inquiry

The Inquiry window is a “view only” version of the Bin Transfer Entry window that allows a user to view posted bin transfer transactions.

Navigation: Inquiry >> Inventory >> Bin Transfer Inquiry



Item Number	Description	U of M	Quantity	Site	From Bin	To Bin

Field	Function
Document Number	Enter or lookup an existing, historical Bin Transfer transaction. The Bin Transfer Lookup window is not shown.
	All other fields are not editable.

<i>Item Transfer Entry</i>	
<p>The Item Transfer Entry process will be modified so that GP automatically creates the bin distributions based on Item-Site-Bin priorities. The quantities will be drawn out of the From Site/Bin in (1) the order of Bins based on bin priority, and (2) so Minimum Quantity specified for each bin. If the quantity required exceeds what is available in the #1 bin, the system will draw down that bin to its Minimum Quantity, then proceed to draw inventory out of the #2 bin.</p> <p>The system will attempt to draw inventory from the From Site/Bin(s) based on the Unit of Measure being used. As with PO Receipts, if the unit of measure is a CASE (10-eaches), it will draw down inventory from the bins in multiples of 10.</p> <p>The same logic will be used to select Bins in the To Site. It will attempt to put away the inventory in multiples of the Unit of Measure, based on the Bin Priority, and the Maximum Quantity. All “excess” inventory gets put into the lowest priority bin if the others are full.</p> <p>A “Put Away” report will be available from Item Transfer Entry via Extras >> Put Away Report. This will show:</p> <ul style="list-style-type: none"> • Inventory Transfer Number • Date • Item Number & Description • Quantity and Unit of Measure • From Site & Bin & Quantity (in base U of M). If inventory was drawn from multiple bins in the From Site, there could be multiple lines. • To Site & Bin & Quantity (in base U of M). As above, there may be multiple lines for the To Site. 	