



Property of WillowWare Incorporated

DS0194
Blanket PO



Table of Contents

Table of Contents	2
Problem Definition	3
Solution Overview.....	4
Design Features	5
Setup	5
PO Blanket Entry.....	6
PO Release Entry.....	9
Receivings Entry Modification.....	14
PO Release Inquiry	16

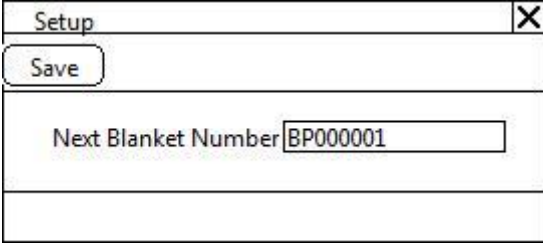
Problem Definition

<i>Problem Definition</i>	CCDA
ACMECO needs to create a Blanket PO that contains multiple item numbers. The GP Blanket PO supports one item number per blanket PO.	

Solution Overview

<i>Solution Overview</i>	CCDA
<p>Blanket PO with multiple item control lines Ability to create a “release” in a manner that is tracked, so that a specific release can be viewed and reprinted.</p> <p>The following terminology is used below:</p> <ul style="list-style-type: none"> • Control Line: a PO Line that specifies an Item and target quantity to order. The sum of all releases for a Control Line cannot exceed the total quantity, or dollar amount, of the Control Line (depending on setup). • Planned Release Line: Specifies a Release Date and Quantity. Planned Release Lines are “informational” until they are Firmed. Planned Releases can be changed, or deleted at any time. • Firmed Release Line: a Firmed Release Line is marked as “released”, causing GP to print it on Purchase Orders, see the quantity as Quantity On PO in the inventory module, and be able to receive it in Receivings Transaction Entry. Firmed Releases are like any regular PO Line, in that once it has been released GP no longer allows the line to be deleted. Quantities not received can be canceled. • Release Transaction: the new Blanket PO functionality will support a “release event” in which a number of Control Lines on a PO can have a Planned Release changed to Firmed at the same time. The system will track this Release Transaction so that it is possible at a later date to reprint a specific release, or view all of the lines that were released together. 	

Design Features

Setup	CCDA				
<p>Setup will be used to maintain the Next Blanket Purchase Order Number. Blanket PO's will have a document numbering sequence separate from regular purchase orders.</p> <p>Navigation: Tools >> Setup >> Purchasing</p> 					
<table border="1"> <thead> <tr> <th data-bbox="191 878 457 906">Field</th> <th data-bbox="457 878 1270 906">Function</th> </tr> </thead> <tbody> <tr> <td data-bbox="191 906 457 1239">Next Blanket Number</td> <td data-bbox="457 906 1270 1239"> <p>User enters the starting Blanket PO Number. It should have an alpha-prefix, followed by enough zeros to allow for future document numbering requirements.</p> <p>In the event the system cannot generate a next Blanket Number, the user will receive a warning message and be prevented from opening the Blanket PO Entry window.</p> <p>The system will attempt to prevent gaps in the numbering sequence, however there are circumstances which may result in gaps.</p> </td> </tr> </tbody> </table>	Field	Function	Next Blanket Number	<p>User enters the starting Blanket PO Number. It should have an alpha-prefix, followed by enough zeros to allow for future document numbering requirements.</p> <p>In the event the system cannot generate a next Blanket Number, the user will receive a warning message and be prevented from opening the Blanket PO Entry window.</p> <p>The system will attempt to prevent gaps in the numbering sequence, however there are circumstances which may result in gaps.</p>	
Field	Function				
Next Blanket Number	<p>User enters the starting Blanket PO Number. It should have an alpha-prefix, followed by enough zeros to allow for future document numbering requirements.</p> <p>In the event the system cannot generate a next Blanket Number, the user will receive a warning message and be prevented from opening the Blanket PO Entry window.</p> <p>The system will attempt to prevent gaps in the numbering sequence, however there are circumstances which may result in gaps.</p>				

PO Blanket Entry	CCDA																												
<p>The Blanket PO will be entered using the normal Purchase Order Entry window, however, new navigation will be added to reach it. The navigation will be: Transactions >> Purchasing Blanket PO Entry.</p> <p>When opened through this navigation, the title bar of the window will be changed to “Blanket PO Entry”, and the next Blanket PO Number will be used instead of the GP PO Number (see Setup for Next Blanket PO Number).</p> <table border="1" data-bbox="191 662 1018 935"> <thead> <tr> <th>Line</th> <th>Item</th> <th>U of M</th> <th>Quantity Ordered</th> </tr> <tr> <th>Description</th> <th>Site ID</th> <th></th> <th>Quantity Canceled</th> </tr> </thead> <tbody> <tr> <td>200</td> <td>HDWR-SWM-0100</td> <td>Each</td> <td></td> </tr> <tr> <td></td> <td>Switching Module (<100)</td> <td>WAREHOUSE</td> <td></td> </tr> <tr> <td>300</td> <td>HDWR-SHG-0001</td> <td>Each</td> <td></td> </tr> <tr> <td></td> <td>Surge Protector Panel</td> <td>WAREHOUSE</td> <td></td> </tr> <tr> <td>0</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Control Lines will be entered through the PO Entry window, like regular PO Lines. Release lines will be entered and maintained through the PO Release Entry window (next section).</p> <p>The following rules/changes will be applied to Control Lines:</p> <ul style="list-style-type: none"> The PO Line Number will increment by 100. So the first control line will be 100, the second will be 200, and so on. Releases will be numbered by 1, so the first release for control line 100 will be line 101. The second release will be 102. This structure creates the following limits: <ul style="list-style-type: none"> 99 Control Lines 99 Releases per control line The Quantity Canceled will automatically be set to the Quantity Ordered. This is needed to keep the Purchasing Module from seeing the Control Line as a normal PO Line. 	Line	Item	U of M	Quantity Ordered	Description	Site ID		Quantity Canceled	200	HDWR-SWM-0100	Each			Switching Module (<100)	WAREHOUSE		300	HDWR-SHG-0001	Each			Surge Protector Panel	WAREHOUSE		0				
Line	Item	U of M	Quantity Ordered																										
Description	Site ID		Quantity Canceled																										
200	HDWR-SWM-0100	Each																											
	Switching Module (<100)	WAREHOUSE																											
300	HDWR-SHG-0001	Each																											
	Surge Protector Panel	WAREHOUSE																											
0																													

- The user will not be allowed to change the Quantity Canceled. The Quantity Canceled will be changed automatically to match the Control Line Quantity Ordered.
- The Quantity Ordered can be changed up or down at any time, but cannot be set lower than the total quantity of the existing release lines (Planned and Firmed), less quantity canceled on Firmed Releases.
- Inserting lines will be prevented. New Control Lines must always be added to the last row in the window. Inserting a line causes GP to renumber all lines, which could cause a problem with previously printed releases as well as disrupting the control line numbering.
- Deleting lines will only be allowed if there are no Firmed Releases. If a control line can be deleted, it will also delete all associated Planned Release lines.

When releases are created using the window below (PO Release Entry), the lines will be inserted beneath the control line.

Line	Item	U of M	Quantity Ordered
Description	Site ID		Quantity Canceled
200	HDWR-SWM-0100	Each	
	Switching Module (<100)	WAREHOUSE	
201	HDWR-SWM-0100	Each	
	Switching Module (<100)	WAREHOUSE	
300	HDWR-SRG-0001	Each	
	Surge Protector Panel	WAREHOUSE	

As shown above, one release has been added (201) to the control line 200.

The following rules/changes apply to a **release line** in the PO Entry window, or the PO Item Detail Entry window. Releases are primarily managed through the PO Release Entry window described below.

- Cannot be deleted
- Will not allow changes to:
 - Quantity Canceled
 - Quantity Ordered
 - Unit Cost

<ul style="list-style-type: none">○ Extended Cost○ Unit of Measure○ Site● Will allow changes to the other fields not listed above	
--	--

PO Release Entry **CCDA**

PO Release Entry is used to:

- Enter, change, delete Release Lines
- Create a Release Transaction.
- View a previous Release Transaction.

X
PO Release Entry

Done

* A *

- PO2101
 - 128 SDRAM: 128meg sdram Qty: 100
 - 08/15/2009 Qty: 10
 - 09/01/2009 Qty: 10
 - 09/15/2009 Qty: 10
 - 256 SDRAM: 256meg sdram Qty: 50

Control By * B *

Item Number

Description

Control Qty

Qty Remaining * C *

Req. Date	Qty Order	Qty Cancel	U of M	Unit Cost	Ext. Cost	Release
08/15/2009	10	0	EA	\$5.00	\$50.00	X
09/01/2009	10	0	EA	\$5.00	\$50.00	
09/15/2009	10	0	EA	\$5.00	\$50.00	

Save

Release Number * D *

Item Number	Description	U of M	Qty	Req. Date	Unit Cost	Extended Cost
128 SDRAM	128meg sdram	EA	10	08/15/2009	\$5.00	\$50.00

= Lookup Button

Field	Function
<p>Treeview See * A *</p>	<p>The treeview displays an overview of the entire PO, showing the control lines and all releases. If a release is Firmed it will be shown with a checkmark next to it.</p> <p>NOTE: since the 128 SDRAM release for 8/15/09 is in the Released Scroll, it would be marked in the treeview but the mock-up software does not allow that.</p> <p>Clicking on a line in the treeview displays the Control Line information in section * B * and the releases in section * C *. Clicking on a release line in the treeview has the same effect as clicking on the Control Line above it (i.e. section * B * displays the Control Line information and the releases display in section * C *).</p> <p>New releases are added in section * C *. This is also where changes are made to the cost and quantities.</p> <p>To change a release from Planned to Firmed, the "Release" checkbox is marked in section * C *. This causes the line to be added to the Release Transaction displayed in section * D *.</p>
<p>Control Line Information Section * B *</p>	
<p>Control By</p>	<p>Sets how the release lines are controlled by the Control Line. Options are:</p> <ul style="list-style-type: none"> • Quantity • Cost <p>When Quantity is selected, the total Quantity Ordered minus Quantity Canceled on the release lines must not exceed the Control Line Quantity Ordered.</p>

	<p>Similarly, if Control By = Cost, the sum of the lines extended cost must not exceed the control line cost (quantity canceled is subtracted from the calculation).</p> <p>Once a release is Firmed, the Control By setting cannot be changed.</p>	
Item Number	Displays the item number of the selected release line	
Description	Displays the item description	
Control Qty	Qty Ordered on the Control Line.	
Qty Remaining	<p>Control Line Qty Ordered minus the sum of release line Quantity Ordered less Canceled Qty.</p> <p>NOTE: the labels Control Qty and Qty Remaining change to Control Amount and Amount Remaining when Control By = Cost. Also, the fields display a dollar value instead of a quantity.</p>	
<p>Release Lines Scroll</p> <p>Section * C *</p>	<p>Releases for the control line are entered, edited, and deleted here. As changes are made in this window, they are reflected in the treeview, and on the underlying purchase order lines.</p> <p>Lines added here result in a new Planned Release line being inserted below the control line on the purchase order.</p> <p>See rules for release lines below.</p>	
<p>Release Transaction</p> <p>Section * D *</p>		
Release Number	<p>When the window opens the next Release Number will be calculated and displayed. This will be calculated by looking at the largest current release number from the lines on the PO, and incrementing it by 1.</p> <p>The scrolling buttons on the right and left of this field allow viewing previous Releases.</p>	

	<p>The Release Number is an integer that starts at 1 and increments by 1 for each release. It may increment in a manner that matches the PO Line Numbers (i.e. line 101 may be the first release), but since lines can be released at different times the PO Line Number may not correspond to the Release Number.</p> <p>When a Planned Release is Firmed, the Release Number will be stored in the PO Line "Project Number" field (POP10110.ProjNum).</p>	
Released Scroll window	<p>Displays the lines selected for release. This window is view only. No changes can be made here. A line can be selected and removed, which changes its status back to Planned and unmarks the "release" box in section * C *.</p> <p>Until the RELEASE button is clicked the Release Transaction is "temporary", allowing the Firmed Releases in section * D * to still be removed if necessary.</p> <p>Once the Release Transaction is committed, Firmed Releases cannot be deleted.</p> <p>The user can change the Release Number to view a prior Release Transaction. When viewing a prior release lines cannot be deleted from section * D *.</p>	
SAVE	<p>Saves the release. When a line is added to the Release scroll, the "Release" flag will be set on the PO Line (POP10110). When Save is clicked the system will set the PO Line Status to "Release" (a status of 2 in POP10110). This will indicate to the system that the blanket line has been released, and that the line is ready to be printed.</p> <p>All lines released (Firmed) at the same time receive the same Release Number.</p> <p>This changes a release line from Planned to Firmed. Firmed</p>	

	releases cannot be deleted.	
DONE	Closes the window	

All lines released together receive the same Release Number. This window can also be used to view prior releases.

When viewing prior releases, no changes can be made to any of the existing release lines. If the existing release is the “most current” release (i.e. the Release Number is the highest number found on any line for that PO), the system will allow adding additional lines to the release.

The following rules/changes will be applied to release lines:

- The user cannot delete a release line from PO Entry, or PO Item Detail Entry.
- Adding and deleting release lines can only be done with the PO Release Entry window.
- When a new release line is added to the blanket PO by the PO Release Entry window, the PO Line Status is NEW and the Release flag is set to FALSE.
- A release line with a PO Line Status of NEW can be deleted. This is a Planned Release.
- When a Planned release is added to a Release Transaction, the “Release” flag is set on the PO Line. These are provisional releases. When SAVE is clicked the PO Line Status of these lines is changed to Release, and the lines are considered Firmed. The user cannot close the PO Release Entry window without either Saving (and thereby FIRMING) the releases, or deleting them (which reverts the status back to Planned).
- A Firmed release line allows changes to quantities, costs, dates, etc., but it cannot be deleted.

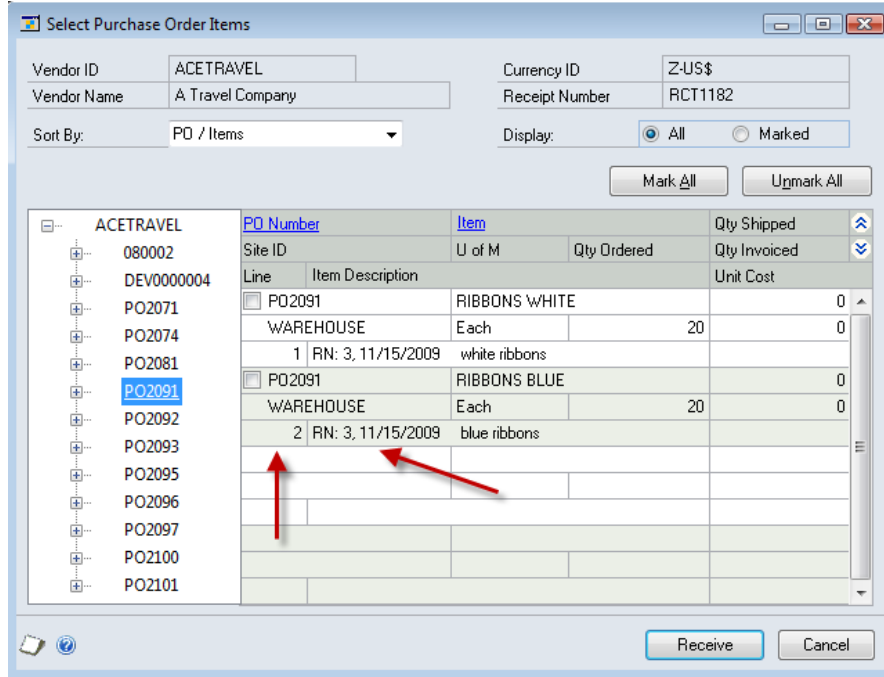
Receivings Entry Modification

CCDA

ACMECO requested that the following information be made available during PO Receiving:

- PO Line Number
- Release Number
- Promise Date

Also, the item cost information should be hidden.



One method to provide these changes would be to directly modify the Receivings Transaction Entry window. Modification of GP windows has the following implications:

- Upgrades are more difficult and costly because the window modifications may need to be redone from scratch (sometimes they do not upgrade)
- You can only have one version of a window, so if you customize the window it excludes the use of any other 3rd party product that modifies the same window
- Deployment is more difficult because you need to ensure users have security rights to the correct version of the window.

In some cases requirements are such that window modification cannot be avoided. However, in this case we can provide the needed changes through code that changes how the window displays at run-time, without actually making physical changes to the window.

Clicking the Auto-Receive button on Receivings Transaction Entry opens the Select Purchase Order Items window (shown above). We suggest this window be used for receiving because it already displays the PO Line Number.

As each line fills in the scrolling window we will add Release Number and Promise Date to the Item Description field. It will be appended to the beginning, as shown above. By placing the inserted text at the beginning of the field, Line Number, Release Number and Promise Date will all be next to each other. This text will not actually be part of the item description, and will not appear on any documents. It is just inserted into the field when the window displays.

The Item Description field is 100 characters, but if necessary, the Item Description may be truncated at the right-side to ensure the inserted text will fit.

The following fields will be hidden:

- Unit Cost on Select Purchase Order Items
- Unit Cost and Extended Cost on Receivings Transaction Entry
- Unit Cost and Extended Cost on Receivings Item Detail Entry

Field	Function

PO Release Inquiry

When the Purchase Order Inquiry Zoom window is used to view a Purchase Order, the system will recognize a Blanket PO and enable the Blanket button. Clicking the Blanket button will open the PO Release Inquiry window, which is a read-only copy of the Entry window described above.

PO Release Inquiry
✕

- PO2101
- 128 SDRAM: 128meg sdram Qty: 100
 - 08/15/2009 Qty: 10
 - 09/01/2009 Qty: 10
 - 09/15/2009 Qty: 10
- 256 SDRAM: 256meg sdram Qty: 50

Control By:

Item Number:

Description:

Control Qty:

Qty Remaining:

Req. Date	Qty Order	Qty Cancel	U of M	Unit Cost	Ext. Cost
08/15/2009	10	0	EA	\$5.00	\$50.00
09/01/2009	10	0	EA	\$5.00	\$50.00
09/15/2009	10	0	EA	\$5.00	\$50.00

Release Number:

Item Number	Description	U of M	Qty	Req. Date	Unit Cost	Extended Cost
128 SDRAM	128meg sdram	EA	10	08/15/2009	\$5.00	\$50.00