



DSD Business Systems

Sage 100 Enhancements

SOPL

Product Label Printing

Version 7.10



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Product Label Printing User's Manual
Version 7.10

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Section A: Introduction

This manual contains a description and instructions for this DSD product. Operating instructions are included for the features added by this product to Sage 100. For instructions on using Sage 100, refer to the appropriate Sage 100 manual, or call your Sage 100 reseller. DSD Business Systems offers excellent Sage 100 support, at an hourly rate.

Web Resources

DSD web site: <http://www.dsdinc.com>

The Enhancement page contains:

- Current Release Schedule*
- Purchasing Information*
- Installation Instructions*
- Product Support*
- Enhancement Links*

SOPL Enhancement name:

<http://www.dsdinc.com/enh/pages/SOPL.htm>

The product web page contains:

- Product Description*
- Web Links*
- Current Product Version Table*
- Product Installation File Download*
- Product Manual in .pdf Format*
- Revision History*
- FAQ*

Support

DSD provides product support through Sage 100 resellers. Support is provided for the current version. Older versions are supported at an hourly rate. DSD's telephone number is **858-550-5900**. Fax: **858-550-4900**.

For a hard error, where the program displays an error dialog, report:

- Error number.*
- Program name.*
- Line number.*
- Program version.*

*Exact sequence that caused the error, including menus and menu selections.
Other pertinent information.*

If leaving a message or faxing, please include:

Your name.

Your phone number (and fax if applicable) and extension.

It is possible to be unable to duplicate a problem, because of data corruption or because we have not exactly duplicated a particular operating environment. In such circumstances, we can only continue to try to fix the problem if we can either access the system with Symantec PCAnywhere or by some other means access or duplicate the system.

Product Label Printing Features

A new menu item, Product Label Printing, has been added to the Sales Order Main menu. This new option will allow the user to print product labels from sales order detail lines, using user-defined fields in Inventory Management and Sales Order to control the printing and the number of labels printed.

Section B: Getting Started

CAUTION

- **If you reinstall or upgrade one of the Sage 100 modules listed in the following table, you must also reinstall this Enhancement.**
- Enhancements from different Sage Developers are generally not designed to work together. If installed together, problems are likely to occur.
- **Check with DSD before installing more than one Enhancement.**

Required Levels

Sage 100 Module	Module Required	Required Level
S/O	Y	7.10

Installation

1. **Back-up:** Exit all Sage 100 sessions. Back-up existing Sage 100 data.
2. **Check Levels:** Sage 100 module levels **must match** those listed above.
3. **Run Enhancement Setup Program:** Save the executable installation program (sent to you or downloaded from our website) in a convenient location on the Sage 100 server. Launch the program from Windows Explorer or by selecting Start/Run, and then browse for the file in the location you saved it. Follow on-screen instructions.
4. **Send your Sage Serial Number to your DSD Representative:** Send your Sage Serial Number to your DSD representative in order for us to send you back the encrypted keys to unlock your system. This serial number can be found in Library Master\Setup\System Configuration, Tab 3. Registration as Serial Number.
5. **Re-Start Sage 100:** Sage 100 will be updated.
6. **Unlock the Enhancement:** DSD Enhancements must be unlocked to run. When any part of the Enhancement is run for the first time, the **DSD Enhancement License Agreement and Activation** window will appear. Follow the steps shown on that window. *You can click the Help button for more detailed instructions.*

Note: On the next page is a screenshot of the DSD Enhancement License Agreement and Activation window.

After accepting the License Agreement, you can then select the type of unlocking that you'd prefer. The choices are File, Web, Demo and Manual Entry.

File Unlock: After receiving your encrypted serial number key file from DSD, and placing that file in the MAS90/SOA directory, selecting this option will unlock all products keys contained in the file. This means you can unlock all enhancements at once using this option.

Web Unlock: If the system that is running the DSD Enhancement *has web access* and you *have sent DSD your Sage Serial number*, you can unlock the Enhancement without assistance using Web Unlock. When this option is selected, the program will attempt to download encrypted serial number key file from DSD *and then proceed to unlock all enhancements contained in the file*.

- *The Sage 100 system that is being used must have web access for this option to be effective.*
- *You can send your Sage Serial Number to your DSD Enhancements sales representative.*

Demo Unlock: If a Demo mode is available for the Enhancement you're running, you will be able to Demo unlock the product without assistance from DSD for demo purposes.

- *Creating a Demo Unlock is a good way to temporarily unlock DSD Enhancements off-hours, if you do not have web or email access. Later, you can unlock the product fully, during business hours.*

Manual Entry Unlock: If you want to unlock a single enhancement using a single encrypted key, you can select this option and enter the 64 character key you receive from DSD by copy and paste.

Note: You can also unlock a DSD Enhancement through the [DSD Enhancement Control Panel](#) found on the Library Master Utilities Menu. Then, select the Enhancement with your mouse from the list of Enhancements and click the **Unlock Product** button on the right side of the window.

- Convert Data:** After unlocking, the DSD Conversion Wizard will appear. Follow on-screen instructions to complete data conversion. *You can exit the conversion program without converting data. The Enhancement will not proceed, however, until data is converted. If you enter an enhanced program and data has not been converted, the conversion program will run again.*

DSD Enhancement Control Panel

Starting with version 3.61, all DSD Enhancement products include DSD's Enhancement Control Panel. The **DSD Enhancement Control Panel is accessed from the Library Master Utilities menu.**

The DSD Enhancement Control Panel is a simple to use yet powerful system to help maintain DSD Enhancements installed on a Sage 100 system. To use it, select an Enhancement product from the list on the window and then click the button, on the right side of the window, which corresponds with the desired task.

View Manual: This button will display the product manual for the selected Enhancement using Adobe Acrobat. For this to be possible, the PDF file for the corresponding manual must be in the "MAS90/PDF" folder in the Sage 100 system. If the file is not

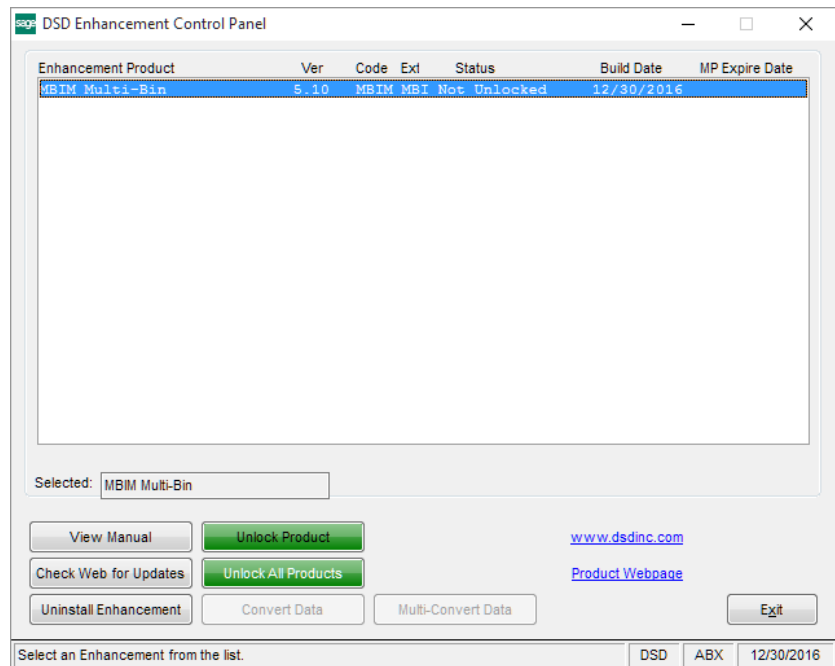
present, and the system has web access, the correct PDF file will be automatically downloaded from the DSD website, put into the "MAS90/PDF" folder and then displayed.

Check the Web for Updates: This button will check the DSD website to see what the current build is the selected Enhancement and alert the user if a later version is available. *This requires an internet connection on the Sage 100 system.*

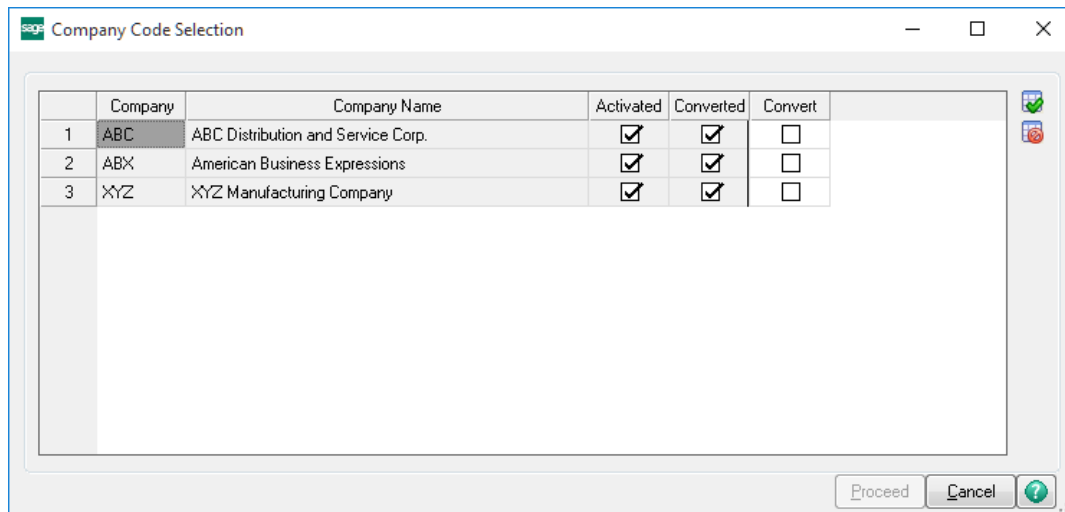
Unlock Product: This will cause the DSD Enhancement License Agreement and Activation window to appear. Using this window is described on the previous page. *This button is disabled if the selected Enhancement is already unlocked or if unlocking is not required.*

Unlock All Products: This will cause the DSD Enhancement All License Agreement and Activation window to appear. This window is similar to the one described on the previous page, but has only web and file as options to unlock. *This button is never disabled.*

Convert Data: After verification, the selected Enhancement's data conversion program will run. Data conversion is non-destructive, and may be triggered any number of times. Sometimes this is required to fix data records imported or updated from a non-enhancement installation.



Multi-Convert Data: Multiple Companies can be converted at the same time for a given Enhancement. (If you have a large number of Companies to convert, please do in batches of 20 or fewer due to memory limitations.)



Help: The Help button, located at the bottom right of the window, opens an HTML help file.

Get Adobe Acrobat: Opens the Adobe Acrobat website to the page where Acrobat can be downloaded and installed.

Uninstall Enhancement If this option is available, then selecting this button will start the un-install process, removing the enhancement from the system. (for more information see [Uninstall DSD Enhancements](#))

Section C: Setup

Define User-Defined Fields

There are three user-defined fields that are required for the proper functioning of this modification. Use Custom Office – Main – User-Defined Field and Table Maintenance to define the fields as shown below. You must use the exact names that are shown below. Note that the user-defined field definition will add additional characters to the front of the names after you have entered them.

CI Item Master:

PRT_PROD_LABELS – This checkbox should be placed on the Item Maintenance screen. If checked, this item needs to have product labels printed using the new tool. If not checked, then sales order lines with this item will not have product labels printed.

Source:	Manual Entry
Object Type	Checkbox
Default Value:	N
Caption:	Print Product Labels

LBL_QTY_FACTOR – This field should be placed on the Item Maintenance screen. If the PRT_PROD_LABELS box is checked, then enter the factor to use in calculating the number of labels to print for each sales order line for this item. The default will be to print one label per unit sold on the line. However, it is possible that you might want one label for every two units, which would be a factor of .50. If you wanted three labels per unit, that would be a factor of 3.00. When the number of labels is calculated, it will always be rounded up to the nearest integer.

Source:	Manual Entry
Object Type:	Multi-Line
Data Type:	Numeric
Mask:	##.000
Default Value:	1
Caption:	Label Quantity Factor

S * Item Maintenance (ABC) 12/21/2022

Item Code: 1001-HON-H252
 Description: HON 2 DRAWER LETTER FILE W/O LK

1. Main 2. Additional 3. Quantity 4. History 5. Transactions 6. Orders 7. Cost Detail

Product Line: WF&A WORKSTATION FURN & ACCESS
 Product Type: Finished Good Weight: 35
 Valuation: FIFO Volume: 0.0000
 Procurement: Buy Inventory Cycle: B

Unit of Measure:
 Standard: EACH No. of EACH: 1
 Purchases: EACH No. of EACH: 1
 Sales: EACH No. of EACH: 1
 Print Product: Label Quantity Factor: 2.000

Price Code: STD STANDARD QUANTITY PRICING Primary Vendor: 01-CONT Container Corporation Of Usa
Default Whse: 000 CENTRAL WAREHOUSE Warranty Code: 30 DAY 30 days from shipment

Sales:
 Retail Price: 84.000
 Standard Price: 84.000
 Last Sold: 5/16/2025

Purchases:
 Standard Cost: 32.750
 Average Cost: 34.250
 Last Receipt: 5/1/2025

Last Costs:
 Item: 34.250
 Allocated: .000
 Total: 34.250

Quantities:

Whse	Description	On Hand	On PO	On SO	On Bk Ord	Committed	Available	In Shipping
000	CENTRAL ...	2,677.00	11.00	.00	.00	.00	2,677.00	.00
001	EAST WAR...	990.00	.00	11.00	.00	11.00	979.00	3.00
002	WEST WA...	1,519.00	.00	12.00	11.00	23.00	1,496.00	.00
098	SCRAP WA...	1.00	.00	.00	.00	.00	1.00	.00

Accept Cancel Delete

Above is an example of the new fields shown on the Inventory Item Maintenance panel.

SO Sales Order Detail:

PRD_LBL_PRINTED – This field should be placed on the Sales Order Entry line screen. This checkbox will show if the Product Labels have already been printed for this sales order line. By default, the box will not be checked. When labels have been printed for this order, using the new print feature, this box will be automatically checked, so that this line will be skipped in the next printing. If labels have already been printed for a line and you wish to print them again, you can go to the order line and clear the check in this box.

- Source: Manual Entry
- Object Type: Checkbox
- Default Value: N
- Caption: Product Label Printed

* Sales Order Entry (ABC) 9/12/2019

Order Number: 0000105

1. Header 2. Address 3. Lines 4. Totals 5. Payment User: DefaultUser

	Item Code	Original Qty	Balance	Unit Price	Extension	Comment	Product Label Printed
1	1001-HON-H252	100.00	.00	75.600	7,560.00		<input checked="" type="checkbox"/>
2		.00	.00	.000	.00		<input type="checkbox"/>

Quick Row: 2

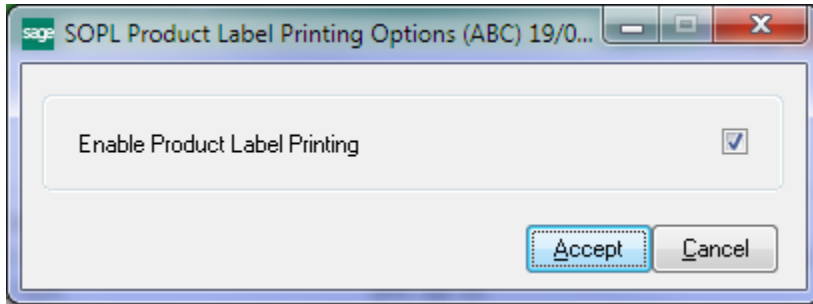
Description: _____
Warehouse: _____
Unit Of Measure: _____
Ordered To Date: .00
Price Level: _____

Total Amount: 7,560.00

Print Order... Print Pick... Recalc Price Accept Cancel Delete

Above is an example of the Sales Order Entry lines grid with the new field added. When a line is first entered on the sales order, the box will be cleared by default. Once the product labels are printed for this detail line, the box will be checked. To reprint the labels, clear the box.

A new menu item has been added to the Sales Order Setup menu. Product Label Printing Options will allow you to enable the SOPL enhancement for the particular company.

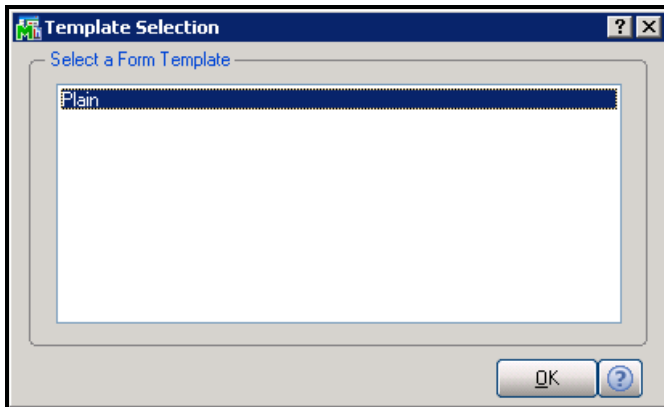


Section D: System Operations

Sales Order Product Label Printing

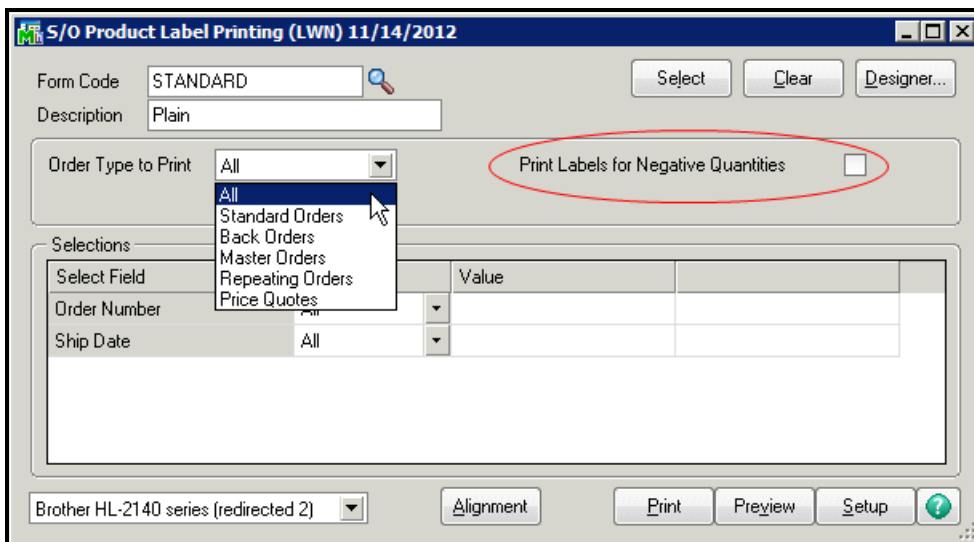
A new option, Product Label Printing, now appears on the Sales Order Main menu. Select this option to print product labels for the lines on sales orders.

Template Selection



The first time you run Product Label Printing you will be prompted to select which Crystal Reports template to use. There is only one Crystal Reports form available, so select Plain and click OK to continue. You can use the Designer to modify the label format.

Form Printing



Order Type To Print – The new Product Label Printing task allows you to determine which order types will be printed. Select the order type you wish from the drop down box as shown above. The program will only print those lines for which the PRD_LABEL_PRINTED box is cleared.

Print Labels for Negative Quantities – In some cases the actual quantity may be negative. If you wish to print labels for those quantities anyway, check this box. This applies primarily to systems where JobOps is used.

If any lines in an order have already been printed via Sales Order Product Label Printing, you can override this by changing the corresponding Product Label Printing checkbox on the order line in Sales Order Entry, or by entering a range of orders on the Product Label Printing screen and clicking the Select button. The select button will then create a list of orders to include, even if they have already been printed.

The items to print for each order are selected based upon the PRT_PROD_LABELS checkbox field that you added to the Item Maintenance screen. If the box is checked, the item will be included in the product label print. If the box is not checked, a label will not print for this item, even if it is on an order for which labels have not been printed. However, that item will still be marked as "Product Label Printed" in the corresponding Sales Order line.

The number of labels to print for each line is calculated using the LBL_QTY_FACTOR number that you set up on the Inventory Item Maintenance screen. This program will first calculate the quantity that remains to be shipped by subtracting the Shipped Quantity from the Ordered Quantity. This open quantity is then multiplied by the factor to arrive at the number of labels. If the factor is zero, it is assumed to be one. The quantity of labels is rounded up to the nearest integer.

Once the options on the print screen are correct, press the Print or Preview button to generate the work file and produce the Crystal form.

When the form has been successfully printed, the PRD_LBL_PRINTED flag on the sales order header will be checked.

On the Select tab during label printing, any user-defined fields on either the Sales Order Header or the Sales Order Detail tables are now available for selection. A new field, LabelRunNo, has been added to the work table for product labels. Every time the labels are printed this number is incremented.

In Shipping Selection

A new feature will allow the user to easily flag which sales orders are currently in shipping with the user of a user-defined field. This field, combined with a new check box on the Product Label Print screen, will allow for easy filtering and selection of the item labels that need to be printed.

To use this feature, a new user-defined field must be defined as follows:

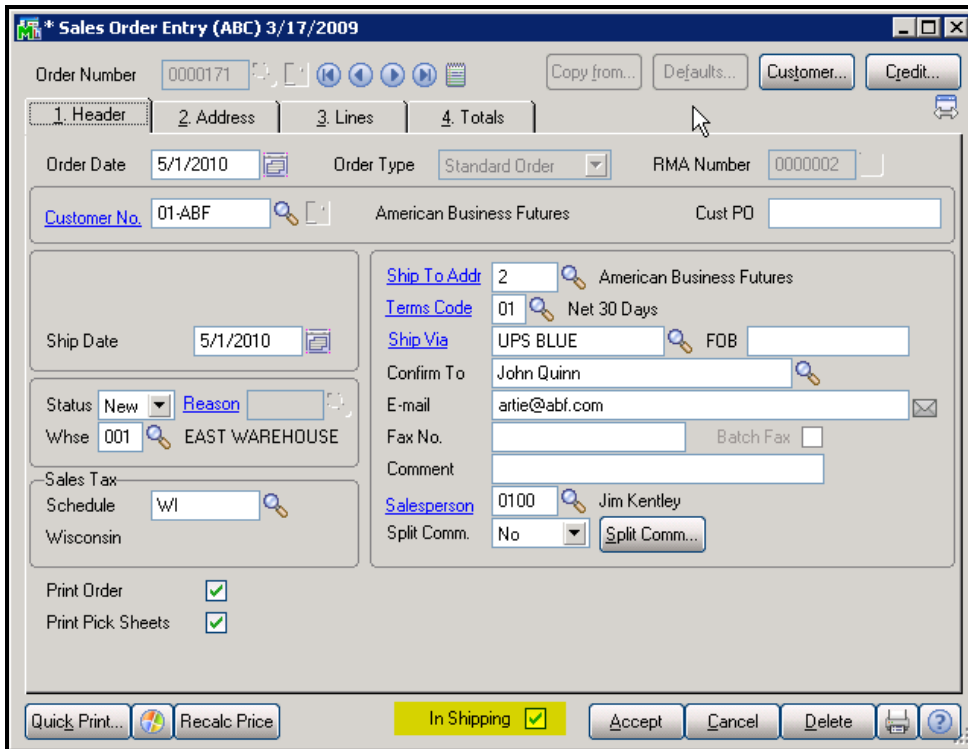
SO Sales Order Header:

IN_SHIPPING – This is a checkbox field that the user can check if the order is in shipping.

Source: Manual Entry

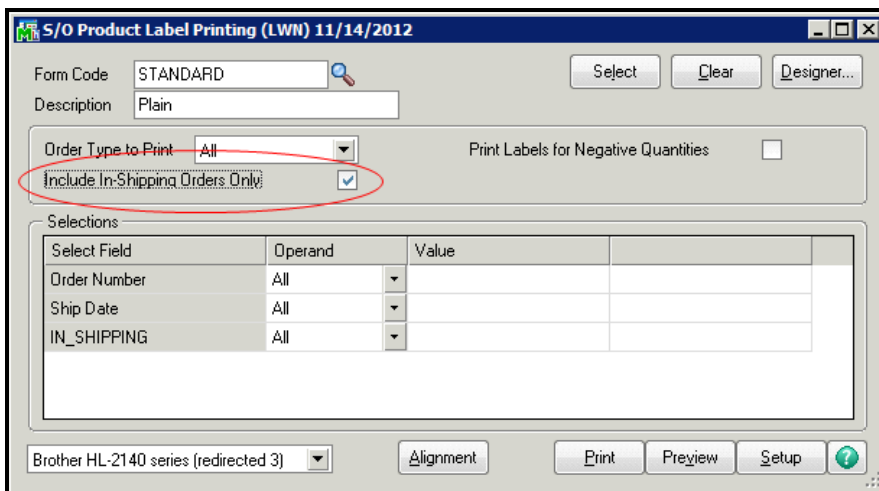
Object Type: Checkbox

Default Value: N
Caption: In Shipping



Place the new user defined field on the sales order entry header screen. The picture above shows a possible placement of the field, but this is only a suggestion.

When the IN_SHIPPING user defined field exists, the Product Label Print screen will have a new check box as shown below.



If this box is checked when the labels are printed, then only those orders with the IN_SHIPPING box checked will be selected for label printing. If the above box is not checked, then all orders will be selected, subject to other selection criteria.

Remember that since IN_SHIPPING is a user defined field, and user defined fields are also in the selection list, it could be possible to select IN_SHIPPING on the first screen and select the opposite in the selection grid.

Label Quantity Override

Under normal usage the number of labels printed for a sales order line is determined by multiplying the line quantity times the LBL_QTY_FACTOR in the Item Code master table. A new feature uses a user defined field to override the calculated quantity of labels. In order to use this feature, create a user defined field in the sales order detail table as follows:

SO Sales Order Detail:

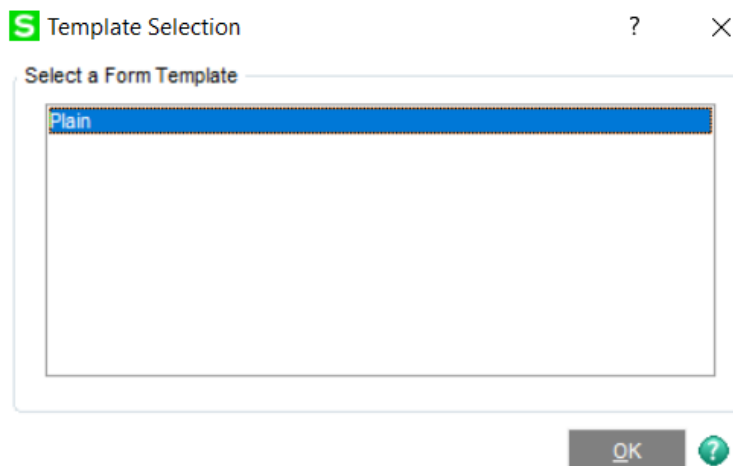
LABEL_QTY_OVERRIDE – This is a STRING field in which the user can enter the number of labels to print for a line. It is important that this be a string field so that it can be left completely blank. If it is blank, then the calculated quantity will be used. However, if the user enters any number, including zero (0), that number will be used.

Source:	Manual Entry
Object Type:	String
Default Value:	(leave this blank)
Caption:	Label Qty Override

Invoice Product Label Printing

A new option, Invoice Product Label Printing, now appears on the Sales Order Main menu. Select this option to print product labels for the lines in Invoice Data Entry.

Template Selection



The first time you run Invoice Product Label Printing you will be prompted to select which Crystal Reports template to use. There is only one Crystal Reports form available, so select Plain and click OK to continue. You can use the Designer to modify the label format.

Form Printing

Invoice Product Label Printing (ABC) 12/30/2022

Form Code: STANDARD

Description: Plain

Invoice Type to Print: All Print Labels for Negative Quantities
 Include Credit Memos

Selections

Select Field	Operand	Value
Invoice Number	All	
Invoice Date	All	

Microsoft Print to PDF

Invoice Type To Print – The new Invoice Product Label Printing task allows you to determine which invoice types will be printed. Select the invoice type you wish from the drop down box as shown above.

Print Labels for Negative Quantities – In some cases the actual quantity may be negative. If you wish to print labels for those quantities anyway, check this box. This applies primarily to systems where JobOps is used.

The items to print for each invoice are selected based upon the PRT_PROD_LABELS checkbox field that you added to the Item Maintenance screen. If the box is checked, the item will be included in the product label print. If the box is not checked, a label will not print for this item, even if it is on an invoice for which labels have not been printed.

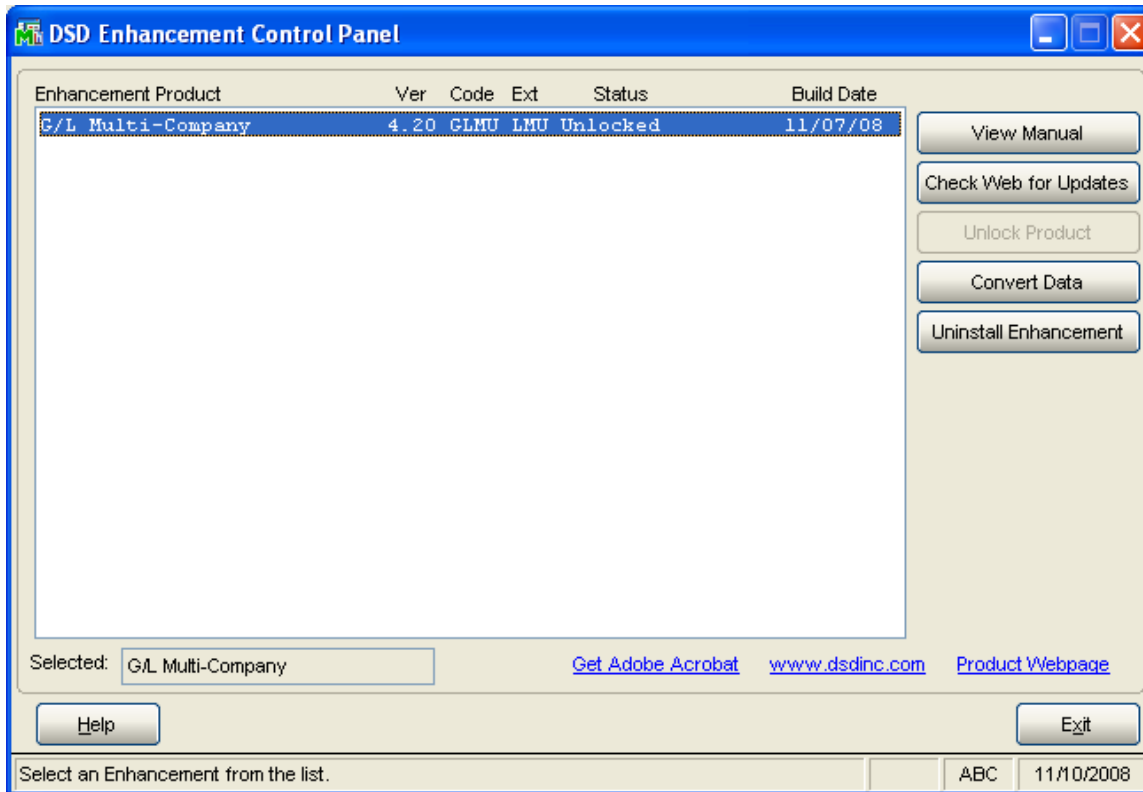
The number of labels to print for each line is calculated using the LBL_QTY_FACTOR number that you set up on the Inventory Item Maintenance screen.

Once the options on the print screen are correct, press the Print or Preview button to generate the work file and produce the Crystal form.

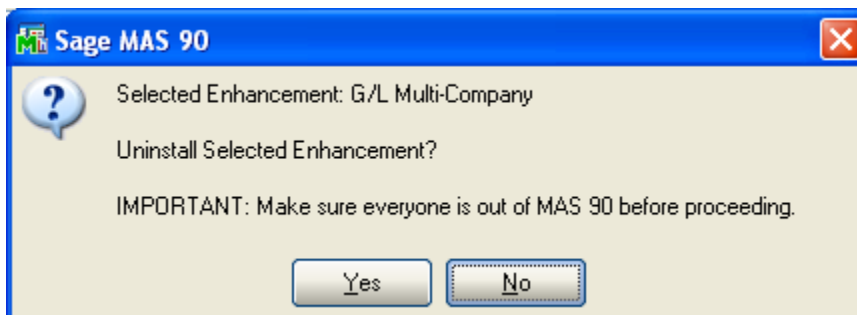
On the Selections tab during label printing, any user-defined fields on either the Invoice Header or the Invoice Detail tables are now available for selection.

Section E: Uninstall DSD Enhancements

A DSD Enhancements Uninstall Utility has been provided for the purposes of removing DSD Enhancements from your Sage 100 System. This utility may be accessed from the **DSD Enhancement Control Panel** menu option on the **Library Master / Utilities** menu.

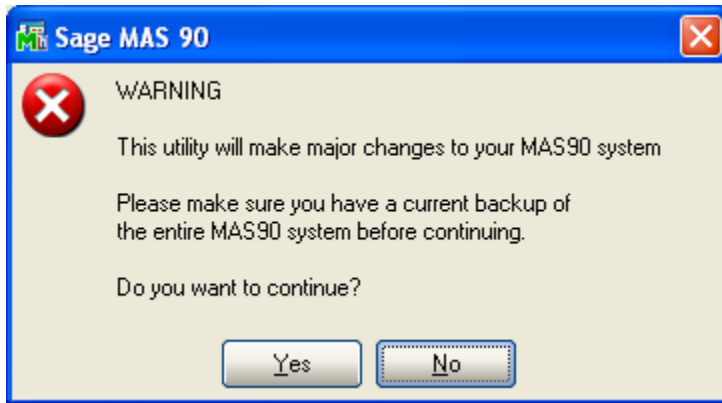


When accessing the **DSD Utility Suite**, select the enhancement that you wish to Uninstall, and then select the **Uninstall Enhancement** button. The following message box will appear:



Select **No** to exit the Uninstall Process.
 Select **Yes** to continue with the Uninstall Process.

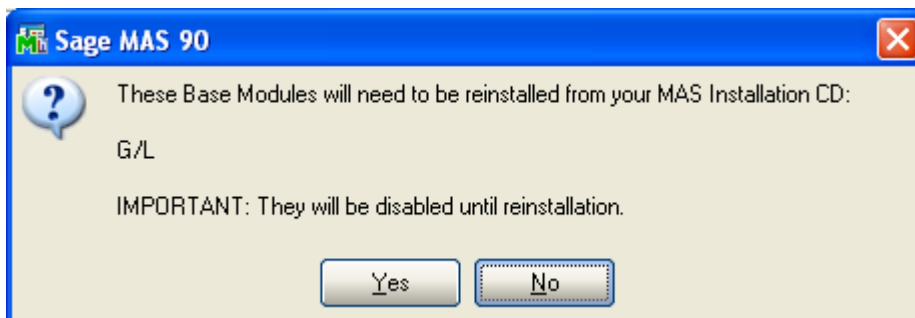
The following message box will appear, to remind you that a complete backup of your entire MAS90 system should be completed prior to uninstalling a DSD product.



Select **No** to exit the Uninstall Process.
Select **Yes** to continue with the Uninstall Process.

After the Uninstall of the DSD Enhancement, you **MUST** reinstall certain standard Sage 100 modules, followed by reinstallation of MAS Service Packs / Updates, if applicable.

The following message box will appear, and will display which of those specific Sage 100 modules you must reinstall afterwards.

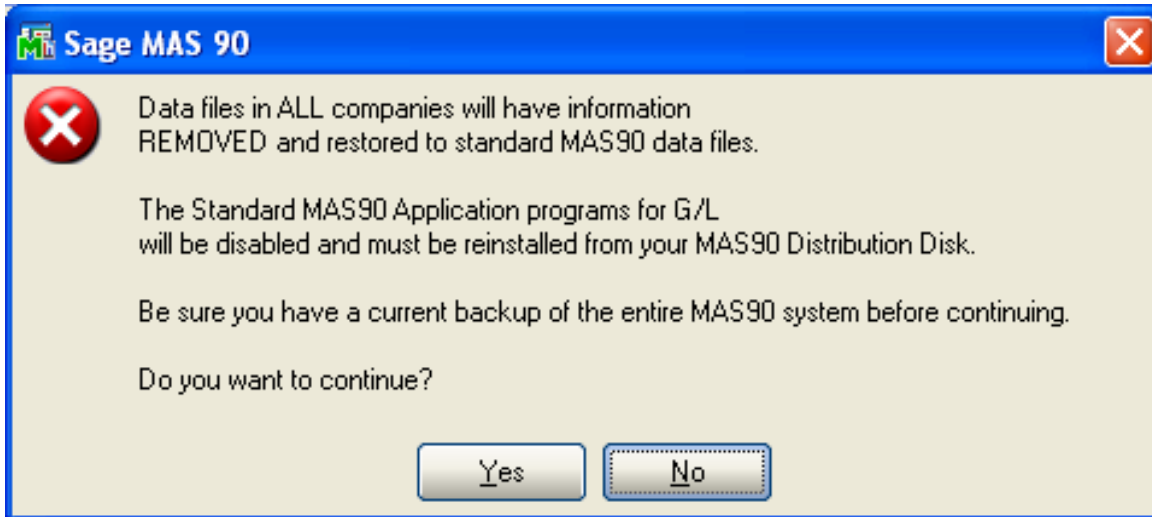


Select **No** to exit the Uninstall Process.
Select **Yes** to continue with the Uninstall Process.

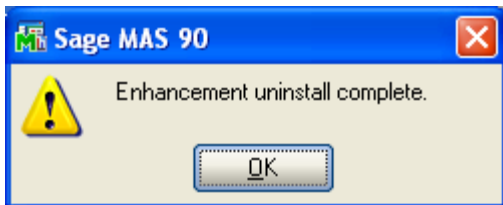
The following message box will appear, displaying the final warning message.

Select **No** to exit the Uninstall Process.

Select **Yes** to continue with the Uninstall Process. At this point, the DSD Enhancement will be removed from the Sage 100 system.



After completion of the Uninstall, the following message box will appear. Select OK to continue.



Now that the Uninstall process is completed, you must:

- Reinstall the applicable standard Sage 100 modules
- Reinstall the latest Sage 100 Service Pack/Updates, if applicable.
- Reinstall any other DSD Enhancements or Developer products that are affected from the reinstallation of the standard Sage 100 module(s).