

DSD Business Systems

MAS 90/200 Enhancements

S175

Lot/Serial Distribution from Sales Order

SO-1175

Version 4.40.PU2



Sage Software
Development Partner
GOLD

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Lot/Serial Distribution from Sales Order User's Manual Version 4.40.PU2

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Lot/Serial Distribution from Sales Order		3
User's Manual	Copyright © 1993-2010 DSD BUSINESS	SYSTEMS

Table of Contents

SECTION A: INTRODUCTION	5
Web Resources	5
Support	5
LOT/SERIAL DISTRIBUTION FROM SALES ORDER FEATURES	6
SECTION B: GETTING STARTED	7
Required Levels	7
Installation	7
DSD ENHANCEMENT CONTROL PANEL	9
SECTION C: SETUP	11
SECTION D: SYSTEM OPERATIONS	13
Sales Order Entry	13
SALES ORDER INVOICE ENTRY AND SHIPPING ENTRY	
AUTO GENERATE INVOICE SELECTION	
SALES ORDER, PICKING SHEET, AND OPEN SALES ORDER REPORT	15
INVENTORY MAINTENANCE/INQUIRY	
Inventory Stock Status Report	19
LOT/SERIAL ORDER LOOKUP	20
CUSTOM OFFICE USER DEFINED FIELD MAINTENANCE	21
INTEGRATION WITH BAR CODE MASTER S/O INVOICE IMPORT	21
ODBC DICTIONARY	
SECTION E: UNINSTALL DSD ENHANCEMENTS	24
LICENSE AGREEMENT	27
FAX TRANSMITTAL FORM	29

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 MAS 90/200. For instructions on using MAS 90/200, refer to the appropriate MAS 90/200 manual, or call your MAS 90/200 reseller. DSD Business Systems offers excellent MAS 90/200 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

S175 Lot/Serial Distribution from Sales Order:

http://www.dsdinc.com/enh/pages/S175.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 MAS 90/200 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.

Lot/Serial Distribution from Sales Order Features

This Extended Solution provides the ability to distribute Lot Numbers and Serial Numbers during Sales Order Entry.

This Extended Solution is integrated with the Bar Code module's S/O Invoice Import.

Section B: Getting Started



- If you reinstall or upgrade one of the MAS 90/200 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.
- Do not install this Enhancement on MAS SQL Systems.

Required Levels

MAS 90/200	Module	Required		
Module	Required	Level		
I/M	Y	4.40.PU2		
S/0	Y	4.40.PU2		
B/C	N	4.40.PU2		

Installation

- 1. Back-up: Exit all MAS 90/200 sessions. Back-up existing MAS 90/200 data.
- 2. Check Levels: MAS 90/200 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 MAS 90/200 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 MAS 90/200: MAS 90/200 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.

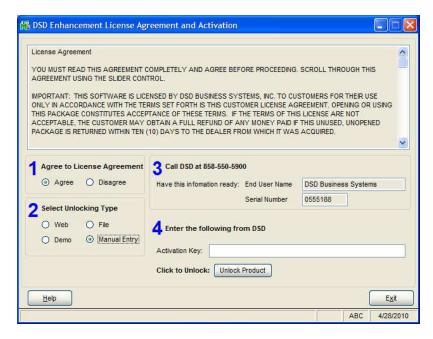
File Unlock: After receiving your encrypted serial number key file from DSD, and placing that file in the MAS90/SOA directory, selecting this option will unlock all products keys contained in the file. This means you can unlock all enhancements at once using this option.

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 MAS 90/ 200 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.

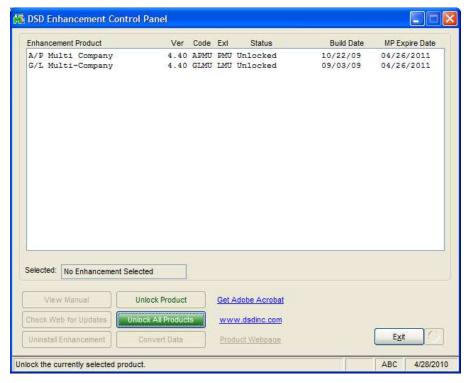
7. Convert Data: After registration, the Data Conversion window will appear. Follow on-screen instructions to complete data conversion. You can exit the conversion program without converting data. The Enhancement will not proceed, however, until data is converted. If you enter an enhanced program and 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
MAS 90/200 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 MAS 90/200 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 ftp web connection on the MAS 90/200 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.

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 Enhancements 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.

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

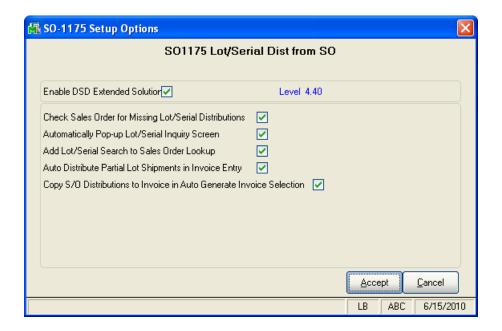
Get Adobe Acrobat: Opens the Adobe Acrobat website to the page where Acrobat can be downloaded and installed.

Uninstall Enhancement If this option is available, then selecting this button will start the un-install process, removing the enhancement from the system.

There are also links to the DSD website and the Enhancement page on that site.

Section C: Setup

Upon completion of software installation, you will need to access the DSD Extended Solutions Setup from the Sales Order Setup menu. Select this part number and the Setup screen for this Extended Solution will appear. Check the 'Enable DSD Extended Solution' box to activate this Extended Solution.



Answer the following prompts:

- Check Sales Order for Missing Lot/Serial Distributions: Check this box to require that the Sales Order line be fully distributed before exiting.
- **Automatically Pop-up Lot/Serial Inquiry Screen:** Check this box to have the Lot/Serial Inquiry screen pop up automatically in I/M Inquiry. If you leave this unchecked, you must click the 'L/S Inquiry' option on the 'More...' drop list to pop up this screen.
- **Add Lot/Serial Search to Sales Order Lookup:** When you check this box, a search button ('SRCH') will be added to the Sales Order Number lookup.
- **Auto Distribute Partial Lot Shipments in Invoice Entry:** Check this box to have the distribution quantity adjusted to the quantity shipped when there is only one lot number on the line.
- The following option is available only if you checked the option to 'Check Sales Order for Missing Lot/Serial Distributions':
- Copy S/O Distributions to Invoice in Auto Generate Invoice Selection: Check this box to have the existing Lot/Serial distributions from Sales Order copied to Invoice Entry as part of the Auto Generate Invoice process.

You should visit this Setup screen after each upgrade or reinstallation of this Extended Solution.

Role Maintenance

The following Task has been added to Sales Order, Setup Options:

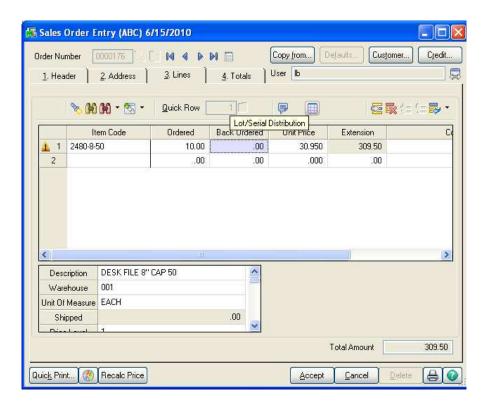
M DSD Extended Solutions Setup

Please review your security setup in Role Maintenance and make appropriate changes.

Section D: System Operations

Sales Order Entry

During Sales Order Entry, you will have the option of distributing lot or serial numbers associated with lot or serial valued Inventory items the same way as S/O Invoice Entry.



Lot/Serial distribution entries made during Sales Order Entry will change inventory commitments the same way Invoice Data Entry does. It is not required that the Sales Order line be fully distributed before exiting, unless you have checked the setup option to 'Check Sales Order for Missing Lot/Serial Distributions.' All other requirements present during Invoice Data Entry regarding Lot/Serial distribution entry are in effect. A Lot cannot be over-distributed; the Lot must have onhand quantity in the line referenced warehouse to be distributed. Lot/Serial Numbers can be printed on the Sales Order form.

If you checked the 'Check Sales Order for Missing Lot/Serial Distributions' option, then the user MUST distribute the line or delete the line in order for the sales order to be Accepted.

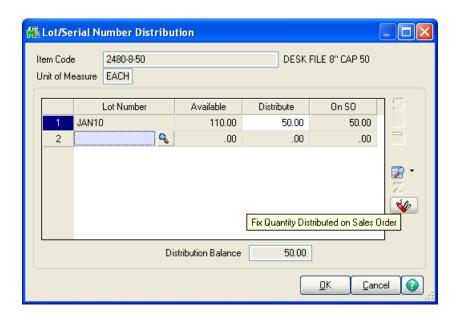
Sales Order Invoice Entry and Shipping Entry

All lot and serial distribution records from a sales order line will be copied to the invoice line when Quantity Shipped on that line is changed from zero to non-zero via one of the following methods:

- In Shipping Data Entry, click the 'Ship Remain' button.
- Manually change quantity shipped from zero to non-zero.
- In Invoice Data Entry, answer 'Yes' to Ship Complete Sales Order'

The distributed quantity on the invoice will default from the distributed quantity on the sales order. Unless you specified to 'Auto Distribute Partial Lot Shipments In Invoice Entry' in Setup (see below) you will have to manually adjust the distribution quantity if the quantity shipped does not match this default.

In the tier distribution grid, a new column 'On SO' has been added to display the quantity distributed on sales order.



Click the 'Fix' button to unlock and change the On SO quantity if needed. Only lot/serial number that comes from sales order will unlock. The changed On SO quantity will write back to the sales order. Changing the On SO quantity to zero will delete the lot/serial distribution record from the sales order. Deleting a lot/serial number in invoice distribution entry will not delete the same record from the sales order if the On SO quantity is not zero.

You should not change the On SO quantity simply because you are shipping partial. The remaining On SO quantity will stay committed for the back order.

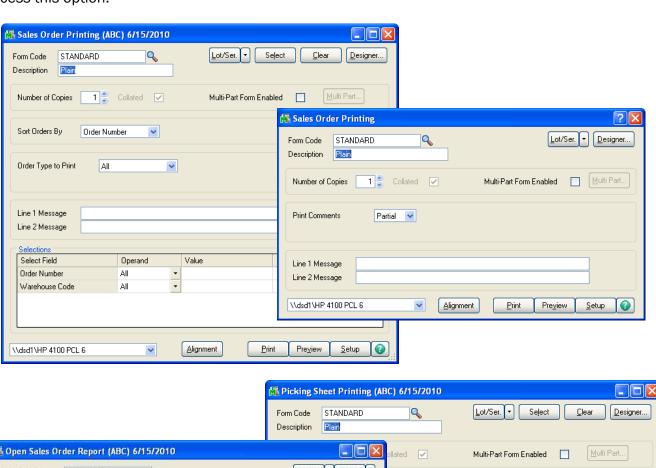
If you checked 'Auto Distribute Partial Lot Shipments In Invoice Entry' in setup, Invoice Entry will set the quantity distributed to equal the quantity shipped as changes are made to the quantity shipped field so long as there is only one lot referenced on the sales order, and the quantity shipped does not exceed the quantity distributed on the sale order. Automatic adjustment will not occur if there are multiple lots or the quantity shipped exceeds the quantity distributed on sales order.

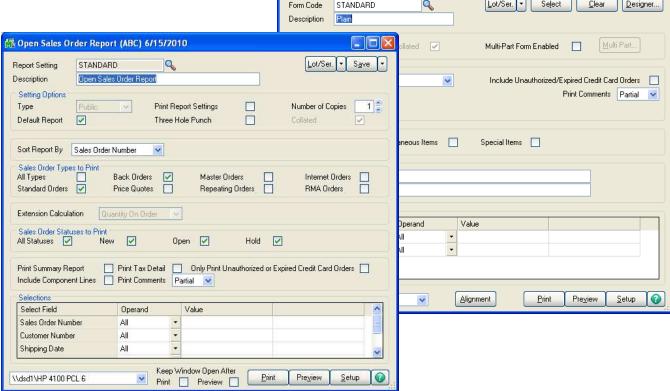
Auto Generate Invoice Selection

If you checked the option 'Copy S/O Distributions to Invoice in Auto Generate Invoice Selection,' existing order entry distributions will be copied to the invoice generated from the order.

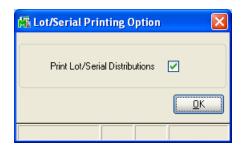
Sales Order, Picking Sheet, and Open Sales Order Report

An option to 'Print Lot/Serial Distributions' has been added to Sales Order Printing, Sales Order Quick Print, Picking Sheet Printing, and Open Sales Order Report. Click the 'Lot/Ser' button to access this option.



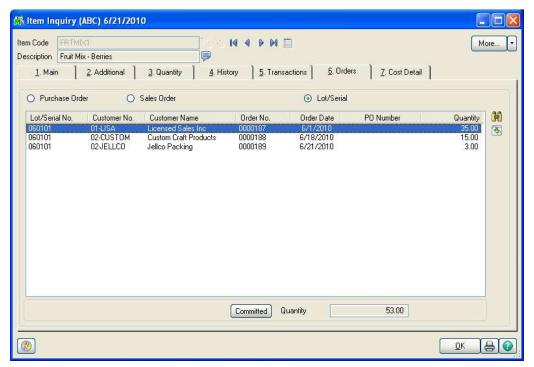


If you check the option to print Lot/Serial distributions, one record per lot/serial number will be written to the work file. You must modify your form/report to check for the value in the LotSerialNo_001 field. A blank LotSerialNo_001 field indicates a regular item record. A non-blank LotSerialNo_001 field indicates a lot/serial distribution record. See Appendix for more printing information.

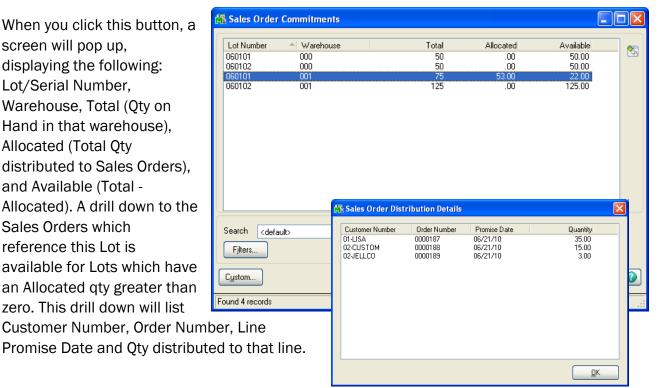


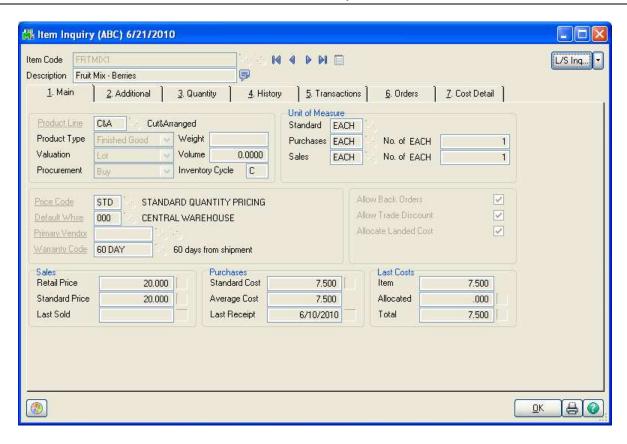
Inventory Maintenance/Inquiry

A 'Lot/Serial' radio button has been added to the top of the Orders tab. Check it to view Sales Order Lot/Serial Distribution information. A 'Committed' button has been added to this Lot/Serial Inquiry.

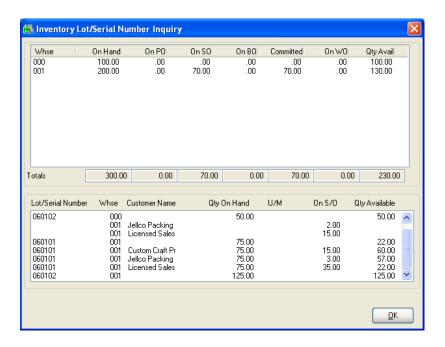


When you click this button, a screen will pop up, displaying the following: Lot/Serial Number, Warehouse, Total (Qty on Hand in that warehouse), Allocated (Total Qty distributed to Sales Orders), and Available (Total -Allocated). A drill down to the Sales Orders which reference this Lot is available for Lots which have an Allocated qty greater than zero. This drill down will list





A new 'L/S Inquiry' option has been added to the 'More...' drop down list of I/M Inquiry, which will be available if the valuation method is Lot or Serial. When you click this button, you will be presented with a window.



If you checked the 'Automatically Pop Up Lot/Serial Inquiry Screen' option in Setup, the screen will pop up automatically. The top portion of the screen will contain the IM2 recap, and underneath that will be a list box:

Lot # Whse Customer Name Qty On Hand U/M On S/O Qty Available (first 15 characters) (qty on THIS S/O) (On Hand – On S/O)

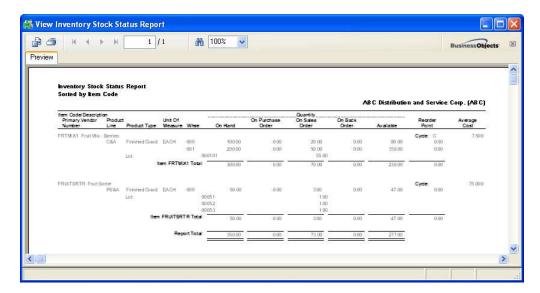
The following entries will appear in the List Box in Warehouse/Lot or Serial Number order:

- A line for every Lot and Serial Number with a positive Qty On Hand.
- If the Lot/Serial item is distributed on a Sales Order, then there will be one line per Sales Order displayed under the original Lot/Serial line. The first 15 characters of the Customer Name and the difference between the Quantity Ordered and Quantity Shipped on the order will be included, and a 'calculated' Lot or Serial Qty Available will be calculated. The Qty Available calculation is a running summation and includes previous On SO quantities for that lot.
- Every reference to this Item on a Sales Order that has not yet been distributed to a Lot or Serial Number will also print. These undistributed entries will sort to the top within warehouse and will appear as 'blank' Lots or Serial Numbers for the warehouse referenced on the Sales Order line.

The Qty Available column in the top display box may not be the same total the Qty Available in the lower display. The lower display window lists only committed and uncommitted quantities from Sales Orders. Items can be committed from other modules and will not be included in the Qty Available in the lower display box.

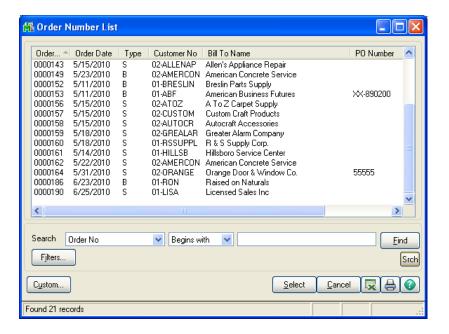
Inventory Stock Status Report

The Inventory Stock Status Report has been enhanced to print all Lot/Serial numbers (and their distributed quantities) that are on Open Sales Orders associated with each Item number. This option is available only if the 'Print Whse Detail' box is checked.

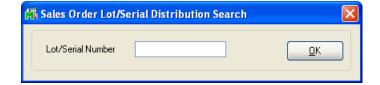


Lot/Serial Order Lookup

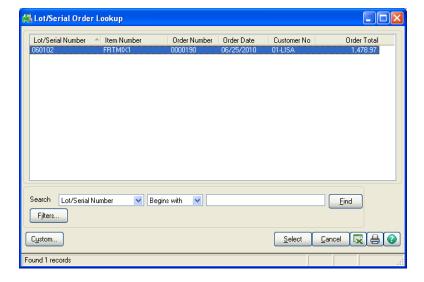
If you checked the Setup option to 'Add Lot/Serial Search to Sales Order Lookup,' a search button ('SRCH') will be added to the Sales Order Number List lookup.



When you click this button, a Lot/Serial Number entry window will pop up.



Enter the Lot/Serial Number to search for and click 'OK'. A list of orders referencing this Lot/Serial Number will display. You can select Order Number from this list.

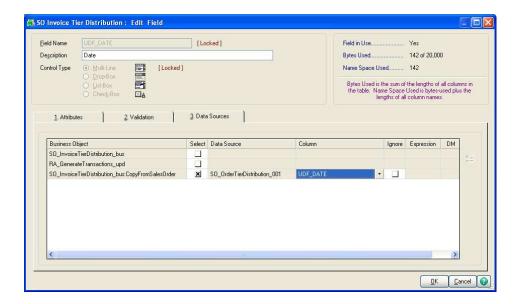


The search function is available in (but not limited to) the following places:

- Sales Order Entry
- Sales Order Inquiry
- Sales Order Copy From Sales Order Number field (when copying from Sales Order) Invoice Entry - Sales Order Number field.

Custom Office User Defined Field Maintenance

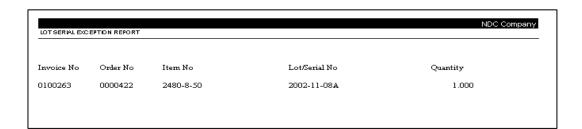
A new data source, 'SO_InvoiceTierDistribution_bus;CopyFromSalesOrder', has been added to S/O Invoice Tier Distribution User Defined Fields. Use this data source to default user defined field values from S/O Order Tier Distribution file.



Integration with Bar Code Master S/O Invoice Import

This Extended Solution is integrated with the Bar Code module's S/O Invoice Import. The import will be aware of the lot/serial distributions made during Sales Order Entry. The import will accept the imported records and overwrite any existing Lot/Serial Distribution entries.

If an imported lot/serial number doesn't exist on the sales order, or the quantity distributed from a lot/serial number exceeds quantity distributed on the sales order, it will appear on an exception report, which lists the order number, item number, new lot/serial number and quantity.



Helpful Hint

• Inventory Sort File rebuild will recalculate committed quantities based on the Lot/Serial quantities in sales orders when you answer 'Yes' to clear lot/serial quantities committed.

ODBC Dictionary

The files listed below have been added or changed in the ODBC Dictionaries by this Extended Solution for Crystal Reports purposes. Remember to Verify the Database before attempting to add the fields.

File: Field: SO_OrderTierDistribution_001 All Fields

SO_InvoiceTierDistribution QuantityOrdered_001

SO_SalesOrderDetail Valuation_001

LotSerialFullyDistributed_001

SO_SalesOrderWrk LotSerialNo_001

TierType_001

LotSerialQuantityOrdered_001

SO_PickingSheetWrk LotSerialNo_001

LotSerialQuantityOrdered 001

SO_OpenOrdersWrk LotSerialNo_001

LotSerialQuantityOrdered_001

QuantityOnHand_001

Be aware that the ODBC Dictionaries may contain other files and data fields that will be unavailable without their corresponding Extended Solutions installed.

To print Lot/Serial Distributions on Sales Orders:

Go to Section Expert, create a new Detail Section and set up this suppression formula: formula = {SO_SalesOrderWrk.LotSerialNo_001} = ""

In existing Detail Sections, include the following condition in the suppression formula: {SO_SalesOrderWrk.LotSerialNo_001} <> ""

Exit Section Export. Add LotSerialNo_001 and LotSerialQuantityOrdered_001 to the new Detail Section. Go to Record Sort Expert, add SO_SalesOrderWrk.LotSerialNo_001 to Sort Fields (after SO_SalesOrderWrk.LineSeqNo).

To print Lot/Serial Distributions on Picking Sheets:

Go to Section Expert, create a new Detail Section and set up this suppression formula: formula = {SO_PickingSheetWrk.LotSerialNo_001} = ""

In existing Detail Sections, include the following condition in the suppression formula: {SO_PickingSheetWrk.LotSerialNo_001} <> ""

Exit Section Expert. Add LotSerialNo_001 and LotSerialQuantityOrdered_001 to the new Detail Section. Go to Record Sort Expert, add SO_PickingSheetWrk.LotSerialNo_001 to Sort Fields (after SO_PickingSheetWrk.LotSerialSeqNo).

To print Lot/Serial Distributions on Open Sales Order Report:

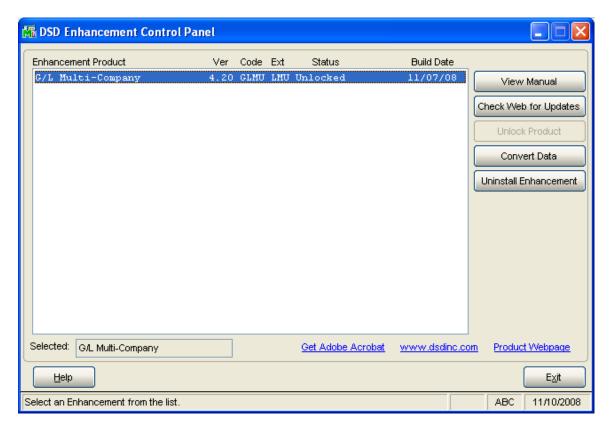
Go to Section Expert, create a new Detail Section and set up this suppression formula: formula = {@PrintSummaryReport} = "Y" or {SO_OpenOrdersWrk.LotSerialNo_001} = ""

In existing Detail Sections, include the following condition in the suppression formula: {SO_OpenOrdersWrk.LotSerialNo_001} <> ""

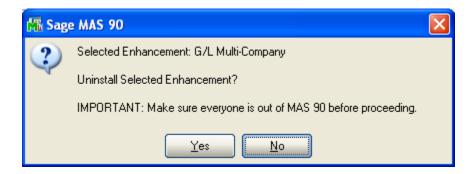
Exit Section Export. Add LotSerialNo_001, LotSerialQuantityOrdered_001, and QuantityOnHand_001 to the new Detail Section.

Section E: Uninstall DSD Enhancements

A DSD Enhancements Uninstall Utility has been provided for the purposes of removing DSD Enhancements from your MAS 90/200 System. This utility may be accessed from the **DSD Enhancement Control Panel** menu option on the **Library Master / Utilities** menu.



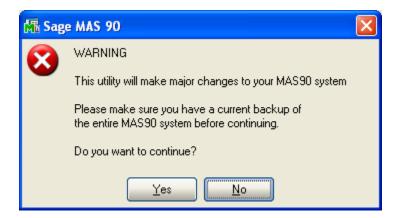
When accessing the **DSD Utility Suite**, select the enhancement that you wish to Uninstall, and then select the **Uninstall Enhancement** button. The following message box will appear:



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 MAS 90/200 modules, followed by reinstallation of MAS Service Packs / Updates, if applicable.

The following message box will appear, and will display which of those specific MAS 90/200 modules you must reinstall afterwards.

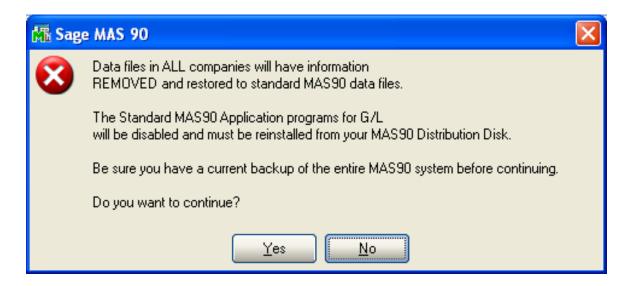


Select **No** to exit the Uninstall Process.
Select **Yes** to continue with the Uninstall Process.

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 MAS 90/200 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 MAS 90/200 modules
- Reinstall the latest MAS 90/200 Service Pack/Updates, if applicable.
- Reinstall any other DSD Enhancements or Developer products that are affected from the reinstallation of the standard MAS 90/200 module(s).

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