
Lot/Serial Distribution Entry from Sales Order

SO-1175

Overview

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.

Installation

Before installing this Extended Solution, please verify that the version level(s) printed on the CD label are the same as the version level(s) of the MAS 90 MAS 200 module(s) you are using. For further information, please see the Upgrades and Compatibility section below. Check your Shipping Manifest for a complete list of Extended Solutions shipped.

For detailed installation instructions, please refer to the Sage website at:
http://support.sagesoftwareonline.com/mas/extended_solutions/main.cfm

Installing Your Extended Solutions under Windows From a CD

If you have the *autorun* function turned on for your PC, the installation program will start up automatically. If not, find the **autorun.exe** file on your CD-ROM drive and double-click it to start the installation program. Follow the on-screen instructions.

From the Sage FTP site

When your Extended Solution is ready to be downloaded, you will receive an email from 'extendedsolutions.na@sage.com' telling you that it is ready. The email will contain the Customer Name, Cross Reference, a case-sensitive Password, a link via which you can download your Extended Solution, instructions, and a Shipping Manifest. If you have any problems with this order, please email extendedsolutions.na@sage.com and we will assist you during normal business hours.

Extended Solutions Control Center

Installing any Extended Solution will add an Extended Solutions Control Center to the MAS 90 MAS 200 Library Master Utilities menu. When you open the Control Center, the following options will be available:

- Extended Solutions Manuals
- Remove Extended Solutions
- Unlock Extended Solutions
- Merge Installation Files
- Extended Solutions Setup options

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Custom Office

If you customize your MAS 90 MAS 200, then you must run the Update Utility *every time* you install a Sage Software Extended Solution.

Setup

Upon completion of software installation, you will need to access Extended Solutions Setup from the Sales Order Setup menu. Select this part number and the Setup screen for this Extended Solution will appear (Figure 1). Check the 'Enable Extended Solution' box to activate this Extended Solution. The manual for this Extended Solution can be viewed by clicking the 'Manual' button next to the 'Enable Extended Solution' check box. It can also be viewed via the Extended Solutions Control Center (see Installation, above).

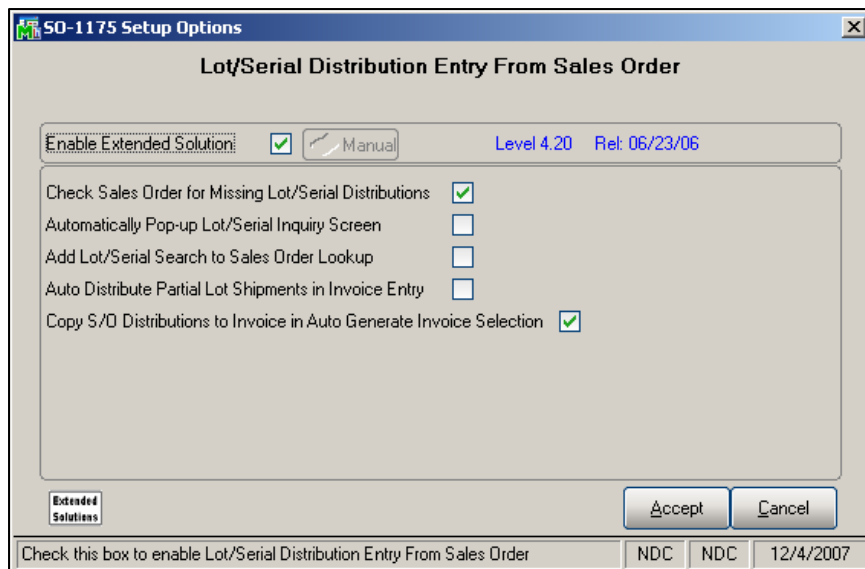


Figure 1

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' button 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.

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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:

- Extended Solutions Setup

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

Operation

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 (Figure 2).

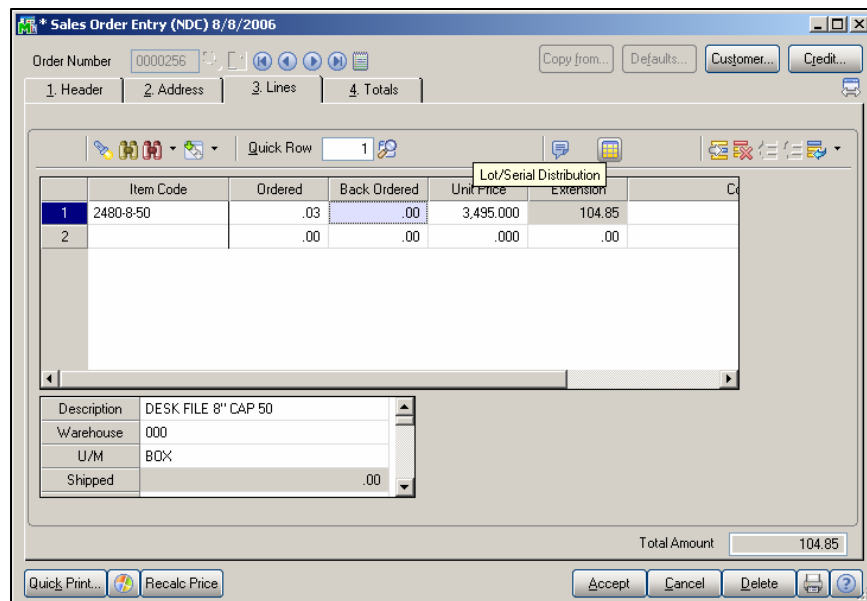


Figure 2

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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 on-hand 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 (Figure 3), a new column 'On SO' has been added to display the quantity distributed on sales order.

	Lot Number	Available	Distribute	On SO
1	101	96.91	.03	.03
2			.00	.00

Item Code: 2480-8-50 DESK FILE 8" CAP 50 U/M: BOX

Distribution Balance: .00

Buttons: OK, Cancel, ?

Figure 3

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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 (Figure 4), Sales Order Quick Print (Figure 4a), Picking Sheet Printing (Figure 4b), and Open Sales Order Report (Figure 4c). Click the 'Lot/Ser' button to access this option (Figure 4d).

Figure 4

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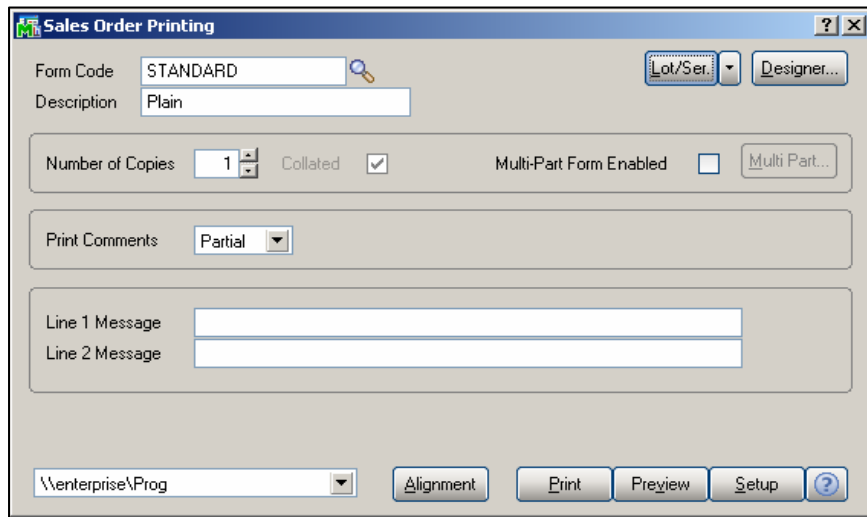


Figure 4a

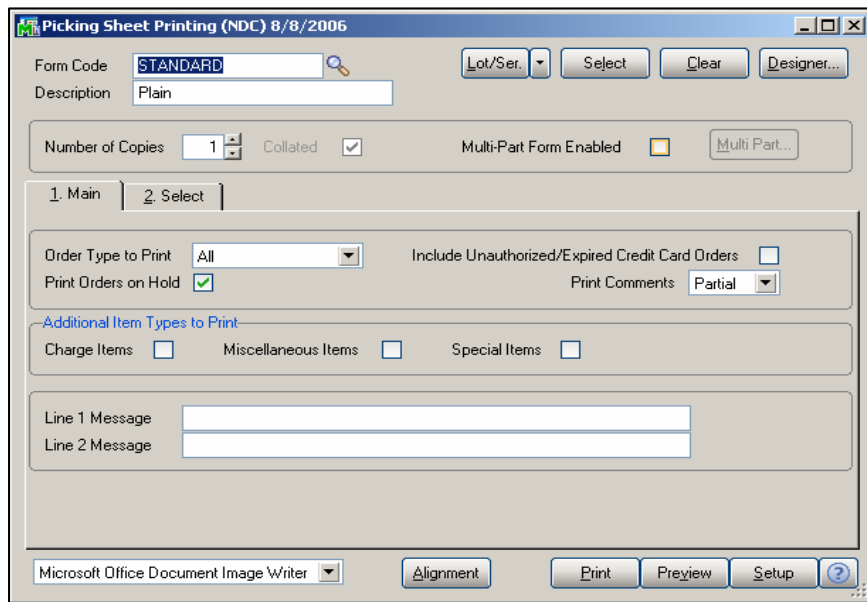


Figure 4b

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Figure 4c

Figure 4d

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' box has been added to the top of the Inquiry tab. Check it to view Sales Order Lot/Serial Distribution information (Figure 5).

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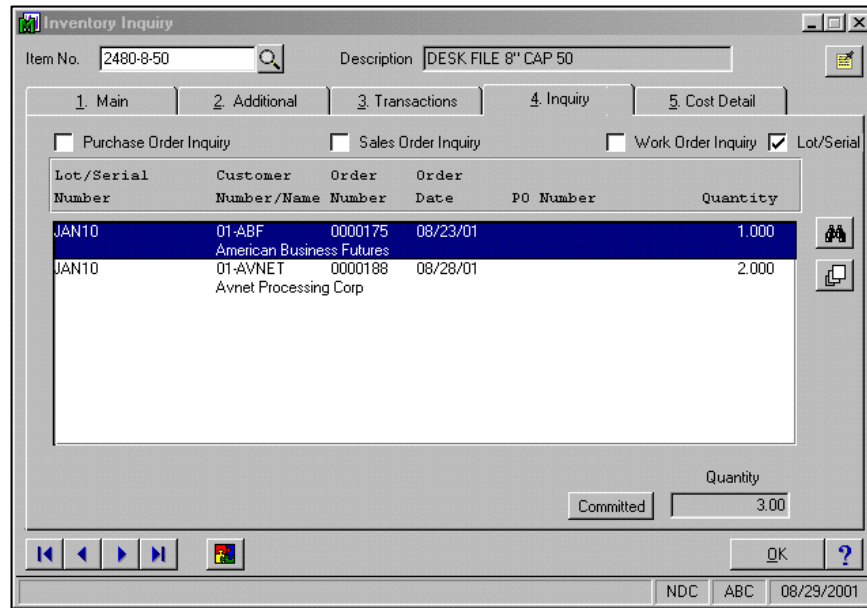


Figure 5

A 'Committed' button has been added to this Lot/Serial Inquiry. When you click this button, a screen will pop up, displaying the following (Figure 6): 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 Customer Number, Order Number, Line Promise Date and Qty distributed to that line (Figure 7).

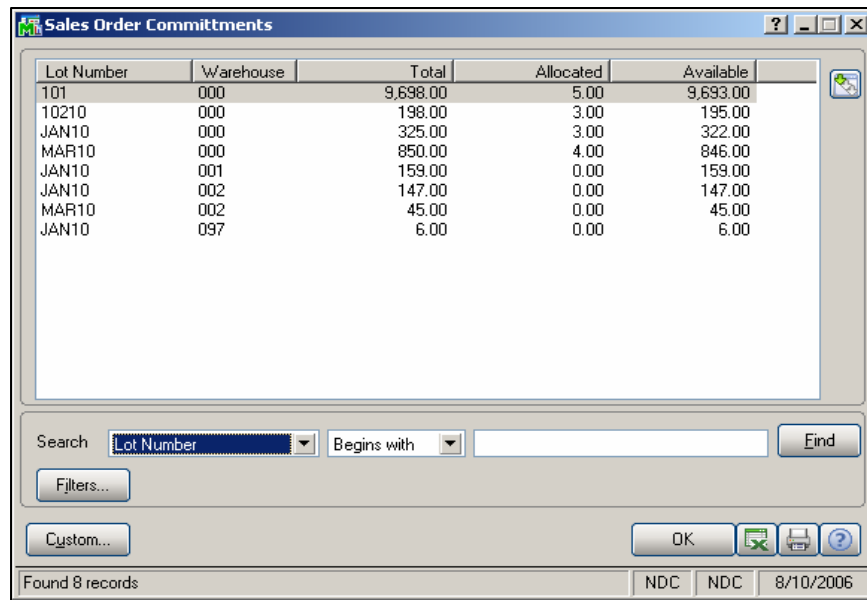


Figure 6

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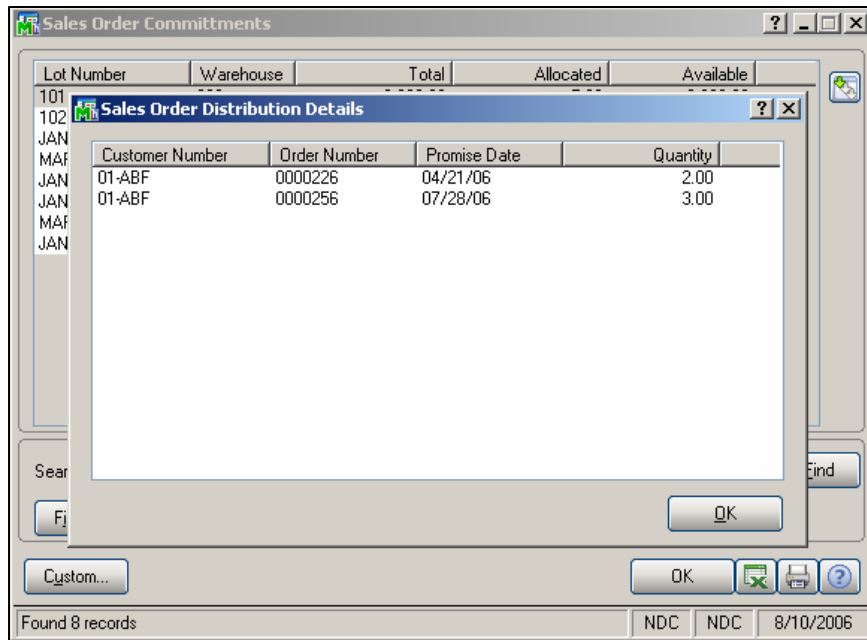


Figure 7

A new 'L/S Inquiry' button has been added to the Main tab of I/M Inquiry (Figure 8), which will be available if the valuation method is Lot or Serial. When you click this button, you will be presented with a window (Figure 9).

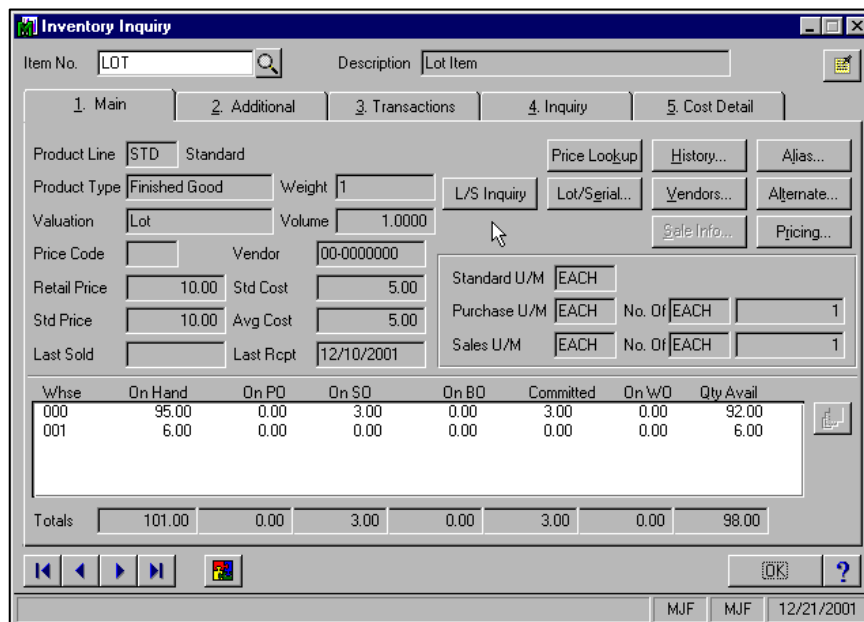


Figure 8

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Whse	On Hand	On PD	On SO	On BO	Committed	On W/O	Qty Avail
000	15.00	0.00	14.00	0.00	14.00	10.00	11.00
Totals							
	15.00	0.00	14.00	0.00	14.00	10.00	11.00

Lot/Serial Number	Whse	Customer Name	Qty On Hand	U/M	On S/O	Qty Available
	000	American Busine		EACH	4.00	
	000	Breslin Electro		EACH	1.00	
BK,CH,NL	000	American Busine	6.00	EACH	5.00	1.00
BK,CH,NL	000	Breslin Electro	6.00	EACH	1.00	0.00
BL,CH,NL	000		1.00	EACH		1.00
GR,CH,NL	000		6.00	EACH		2.00
GR,CH,NL	000	American Busine	6.00	EACH	1.00	5.00
GR,CH,NL	000	Breslin Electro	6.00	EACH	2.00	3.00
RD,CH,NL	000		1.00	EACH		1.00

Figure 9

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 # **WHS** **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:

- Every Lot and Serial Number with a positive Qty On Hand
- If they are distributed on a Sales Order, then there will be one line per Sales Order. 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 Qty.
- 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.

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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 (Figure 10).

STOCK STATUS REPORT											NDC Company	
											SORTED BY ITEM NUMBER	
ITEM NUMBER	DESCRIPTION/ VENDOR NUMBER	PROD LN	PROD TYP	UNIT	WHSE	ON HAND	ON P.O.	QUANTITY ON S.O.	ON B.O.	AVAILABLE	RE-ORDER POINT	AVERAGE COST
2480-8-50	DESK FILE 8" CAP 50										CYCLE	15.472
01-UNITED	FD&A		FINISHED GOOD			11071.00	0.00	884.00-	780.00-	12735.00	300.00	
						001	159.00	101.00-	0.00	260.00	200.00	
						002	192.00	201.00	20.00	29.00-	200.00	
						097	6.00	0.00	0.00	6.00	0.00	
		LOT		101				2.00				
				10210				2.00				
				JAN10				2.00				
				MAR10				2.00				
				10210				1.00				
				JAN10				1.00				
				MAR10				2.00				
				101				3.00				
ITEM 2480-8-50 TOTAL:						11428.00	0.00	784.00-	760.00-	12972.00	0.00	
REPORT TOTAL:						11428.00	0.00	784.00-	760.00-	12972.00		

Figure 10

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 (Figure 11).

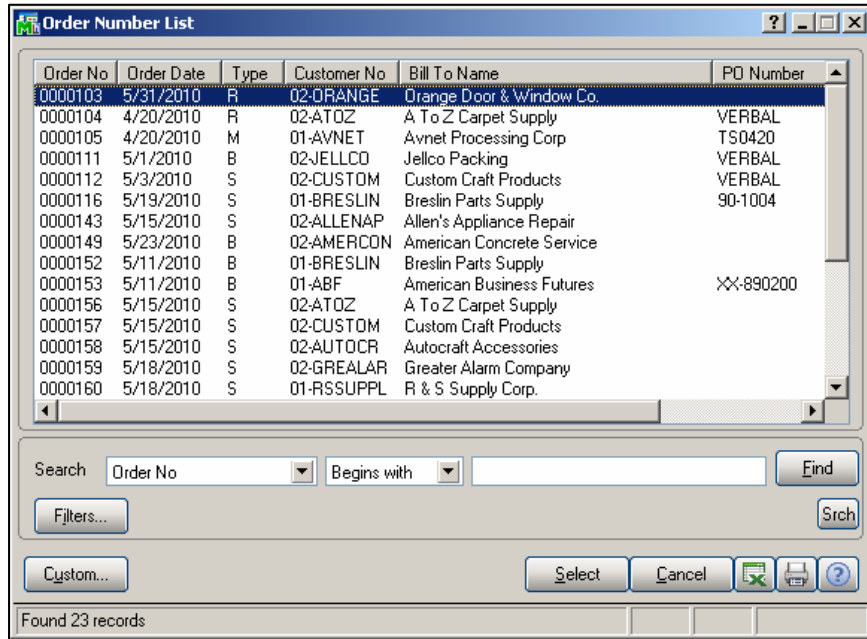


Figure 11

When you click this button, a Lot/Serial Number entry window will pop up (Figure 12).

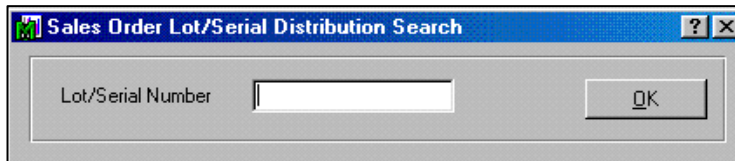


Figure 12

Enter the Lot/Serial Number to search for and click 'OK'. A list of orders referencing this Lot/Serial Number will display (Figure 13). You can select Order Number from this list.

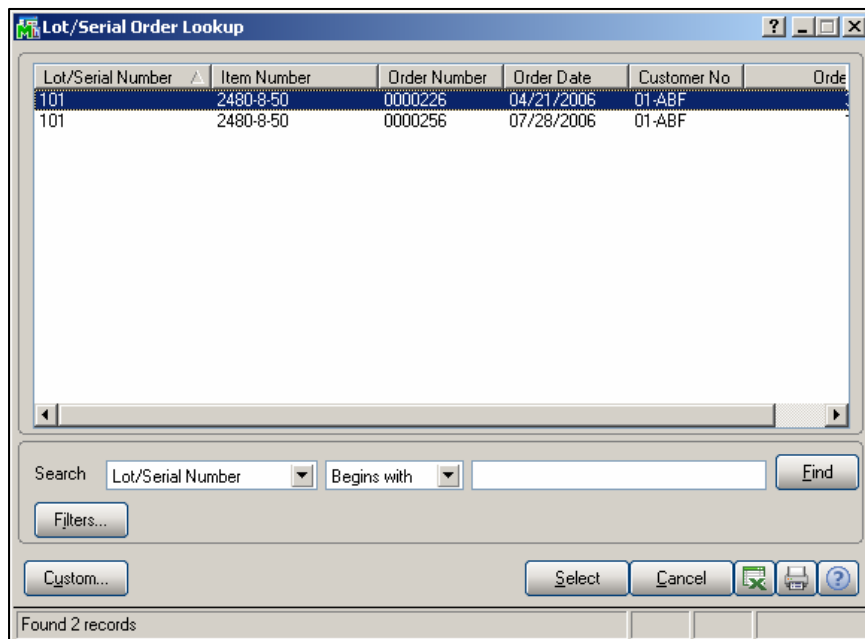


Figure 13

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.

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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 (Figure 14). Use this data source to default user defined field values from S/O Order Tier Distribution file.

Business Object	Select	Data Source	Column
SO_InvoiceTierDistribution_bus	<input type="checkbox"/>		
RA_GenerateTransactions_upd	<input type="checkbox"/>		
SO_InvoiceTierDistribution_bus;CopyFromSalesOrder	<input checked="" type="checkbox"/>	SO_OrderTierDistribution_001	UDF_DATE

Figure 14

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 (Figure 15).

LOT SERIAL EXCEPTION REPORT				
Invoice No	Order No	Item No	Lot/Serial No	Quantity
0100263	0000422	2480-8-50	2002-11-08A	1.000

Figure 15

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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.

<i>File:</i>	<i>Field:</i>
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.

What's New

With the 12-05-07 release:

- Added Setup option: Copy S/O Distributions to Invoice in Auto Generate Invoice Selection.

With the 01-10-07 release:

- Added Setup option: Auto Distribute Partial Lot Shipments in Invoice Entry

Upgrades and Compatibility

The installation CD is labeled with the version of the MAS 90 MAS 200 module for which this Extended Solution was prepared. This Extended Solution will check its compatibility with the appropriate MAS 90 MAS 200 modules and will be disabled if an incompatibility is found. If you upgrade your MAS 90 MAS 200 modules, this Extended Solution must be upgraded as well. Your MAS 90 MAS 200 dealer can supply this upgrade.

Documentation

Only changes made by Sage Software, Inc. to the standard operation of Sage Software, Inc. MAS 90 MAS 200 have been documented in this manual. Operations not documented in this



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manual are standard procedures of MAS 90 MAS 200 processing. Standard MAS 90 MAS 200 processes, data entry screens, inquiry screens, reports, updates, etc., have not been changed unless addressed in this document.

Parts of this document may refer to the *Specific Purpose Rule*. When referenced, the described feature was developed for a specific client to its specifications and may not conform to generally accepted MAS 90 MAS 200 standards and procedures. These features may or may not benefit you in your application of MAS 90 MAS 200.

Acknowledgments

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Appendix

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 Expert. Add LotSerialNo_001 and LotSerialQuantityOrdered_001 to the new Detail Section. Go to Record Sort Expert, add SO_SalesOrderWrk.SortField 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_OpenSalesOrderWrk.LotSerialNo_001} <> ""

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

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