

DSD Business Systems

Sage 100 Enhancements

J012

Enhanced Burden and Overhead AllocationJC-1012

Version 5.30





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Enhanced Burden and Overhead Allocation User's Manual Version 5.30

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DSD Business Systems 5120 Shoreham Place Suite 280 San Diego, CA 92122 858/550-5900 8:00am to 5:00pm PST 858/550-4900 Fax

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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

J012 Enhanced Burden and Overhead Allocation:

http://www.dsdinc.com/enh/pages/J012.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
FAO

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.

Enhanced Burden and Overhead Allocation Features

This is an Extended Solution to the way standard Sage 100 handles the posting of burden and overhead. Standard Sage 100 posts burden and overhead at the rates specified by job type/cost type. With this Extended Solution, burden and overhead can be posted to the accounts at the rate specified for a particular **cost code/cost type** and overhead can further be posted according to a 'Schedule.' When posting by schedule, many options have been added: selective posting by job, support for two types of overhead with different rates, rate overrides by job, G/L Account setup by job, and the ability to allocate a portion of one job's overhead to other jobs and multiple schedules per job.

This Extended Solution is *not* integrated with the Inventory module.

Section B: Getting Started



- 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	Required
Module	Required	Level
J/C	Υ	5.30

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.

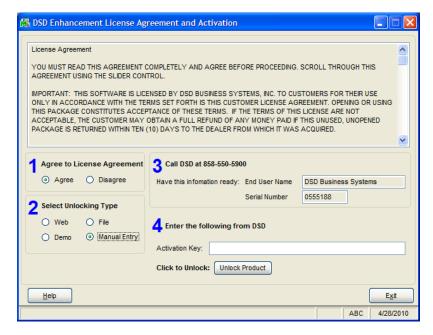
Web Unlock: If the system that is running the DSD Enhancement *has web access* and you *have* sent DSD your Sage Serial number, you can unlock the Enhancement without assistance using

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.

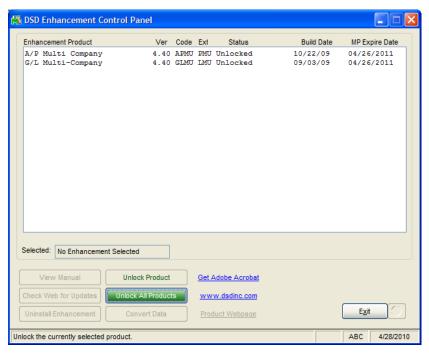
7. Convert Data: After registration, the Data Conversion window will appear. Follow on-screen instructions to complete data conversion. You can exit the conversion program without converting data. The Enhancement will not proceed, however, until data is converted. If you enter an enhanced program and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

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.

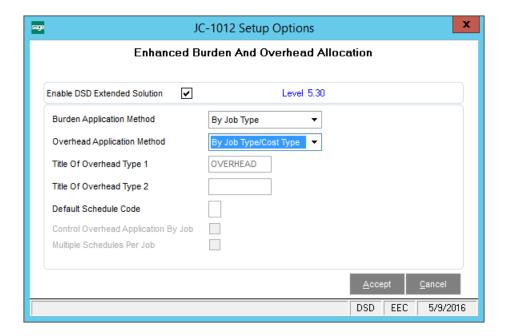
Get Adobe Acrobat: Opens the Adobe Acrobat website to the page where Acrobat can be downloaded and installed.

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 Job Cost 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:

Burden Application Method: You can elect to post by Job Type (standard Sage 100) or by Cost Code/Cost Type.

Overhead Application Method: You can elect to post by Job Type/Cost Type (standard Sage 100), Cost Code/Cost Type, or by Schedule which is only available if 'Apply Overhead' is set to 'Monthly' in Job Options (see Helpful Hints for a full explanation of posting by schedule). If Overhead Application Method is set to 'Schedule,' then the following prompts will appear:

Title of Overhead Type 1: Enter the title for overhead type 1. If you will be using only one type of overhead, simply enter 'OVERHEAD.' You must enter a title for Type 1.

Title of Overhead Type 2: Enter the title for overhead type 2. If you will not be using a second type of overhead, leave this field blank.

Default Schedule Code: This is the schedule code that will be used if you choose not to control overhead application by job or if you do but a job does not have a schedule code entered.

Control Overhead Application by Job: If you check this box, then during Job Maintenance you will be able to 'turn on' and 'turn off' overhead allocation for each job. In addition, you will be prompted to enter for each job: a schedule code, an override Debit and Credit G/L Account number, an overhead allocation rate for Type 1 and Type 2, and the allocation to other jobs information. *If you*

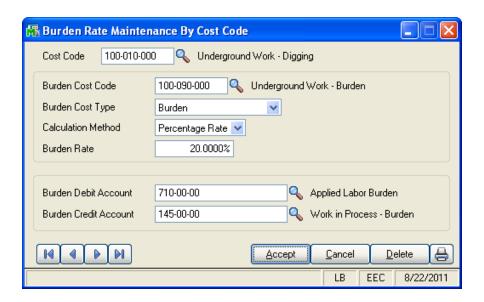
control overhead application by job, you must go to Job Masterfile Maintenance and check the 'Apply Overhead' box before that job will have overhead applied to it. Further, the rate(s) used will be the rate entered for that job; the rate(s) in the Schedule Masterfile will not be used.

Multiple Schedules per Job: Check this box to allow multiple schedules per job. This prompt can be accessed only if the Overhead Application Method is set to 'Schedule' and the 'Control Overhead Application by Job' box is checked.

If you are using multiple schedules per job, then you will not be able to split expenses to other jobs.

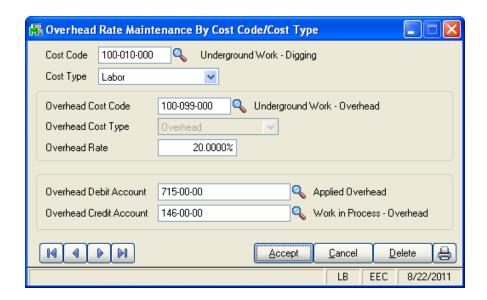
Burden Application by Cost Code

If you elected to post Burden by Cost Code/Cost Type, you will need to go to the Burden Rate Maintenance screen on the Setup menu and set up the cost codes that should have burden. Essentially, the process for burden rate maintenance is the same regardless of whether you are posting by cost code or by job type. Refer to your Job Cost Manual for a full explanation.



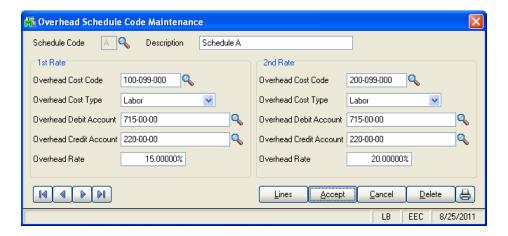
Overhead Application by Cost Code/Cost Type

If you elected to post Overhead by Cost Code/Cost Type, you will need to go to the Overhead Rate Maintenance screen on the Setup menu and set up the cost code/cost type combinations that should have overhead. Essentially, the process for overhead rate maintenance is the same regardless of whether you are posting by cost code/cost type or by job type/cost type. See your Job Cost Manual for a full explanation.



Overhead Application by Schedule

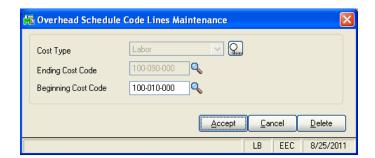
If you elected to post Overhead by Schedule, you will need to do two things to complete the Setup process: set up the schedule codes in the Overhead Rate Maintenance screen on the Setup menu and then go to Job Masterfile Maintenance and set up each job that will have overhead.



Schedule Code Maintenance

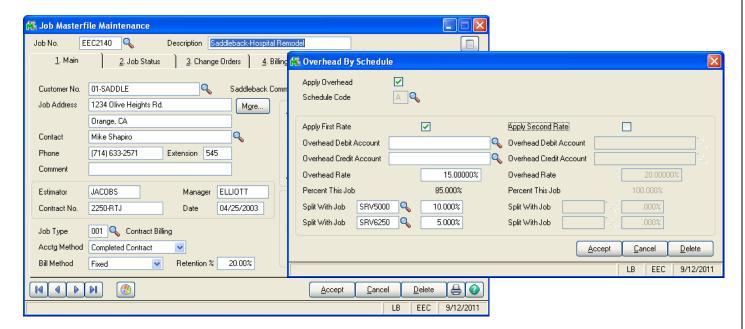
A schedule consists of a set of general information (e.g. rates and G/L Accounts) and a list of cost type/cost code ranges that define which costs should have overhead applied to them. This list constitutes the allocation base for this schedule. Essentially, the process for entering the general information is the same regardless of whether you are posting by Schedule or by job type/cost type. This Extended Solution allows a–z and 0–9 as valid schedule codes. Please refer to your Job Cost Manual for a full explanation of this portion.

To enter the list of Cost Type/Cost Code ranges for the allocation base, click the 'Lines' button. The lines entry screen will be displayed. Enter the cost type, the ending cost code and the beginning cost code. Clicking the 'List Entries' button by the cost type field will display a list of the entries already set up.



Job Masterfile Maintenance

A new screen has been added following the Main tab of Job Masterfile Maintenance. Click the 'More...' button, and the following prompts will be presented:



Apply Overhead: You must check this box, or no overhead will be applied to this job.

Schedule Code: This is the schedule code to be used for posting overhead to the job; if left blank, the default schedule code from Setup will be used. If you are using multiple schedules, the 'List Entries' button is available to list all the schedules that have been set up for the job. The 'Browse' buttons are available to read the next schedule on file.

Apply Type 1/Type 2: For each overhead type you have enabled in Setup, you will be prompted to 'Apply' that type to this job. You can apply just one type or both types.

Overhead Debit/Credit Accounts: These are the G/L Accounts you want to use for posting overhead; if left blank, the values from the Schedule Masterfile will be used.

Note: If JC-1042: Revenue & Expense Posting by Job is installed and enabled, the debit account will be defaulted from the G/L Expense Account for the job.

Overhead Rate: This is the overhead rate that will be used when calculating overhead for this job. This field initially will default to the value in the Schedule Masterfile and can be changed; it is the rate entered here and NOT the rate in the Schedule Masterfile that will be used.

If you are **not** using multiple schedules, you will see the following prompt:

Split with Job: If you want to allocate a percentage of the overhead expense applied to this job to another job, enter that job number here and the percentage to be applied in the percentage field beside it. You can split the expenses for a job to up to two other jobs. The total allocation cannot exceed 100%. For a complete discussion of split-expense posting, see Helpful Hints below.

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

Section D: System Operations

Operations

Once the setup is complete, the only changes that will be noticed are in the appearance of the Overhead Allocation and Burden Allocation registers. The Burden Allocation Register, when posting by Cost Code, will be titled 'Burden Allocation by Cost Code Register'; all columns will be unchanged from the standard register. Below is a sample of the Overhead Allocation Register when posting by Cost Code/Cost Type; and underneath it is a sample of the Overhead Allocation Register when posting by Schedule. Notice how the split job information is presented.

									REGISTER NO: OA-
JOB NUMBER	OVERHEA	AD TYPE	APPI COST TYPE/ COST	LIED FROM CODE CO	ST AMOUNT	OVERHD RATE	OVERHEAD AMOUNT	G/L A DEBIT	CCOUNTS CREDIT
EEC2140	Saddleback-Ho	spital Rer	nodel	JOB TYPE:	001				
	100-099-000	0	L/ 100-010-000		1,800.00	20.00000%	360.00	146-00-00	715-00-00
	200-099-000	0	L/ 200-000-000		400.00	30.00000%	120.00	146-00-00	715-00-00
		JO	B EEC2140 TOTAL:		2,200.00	-	480.00		
EEC3350	Nexus-17th Fl	oor Buildo	rut	JOB TYPE:	001				
	100-099-000	0	L/ 100-010-000		1,500.00	20.00000%	300.00	146-00-00	715-00-00
	200-099-000	0	L/ 200-000-000		800.00	30.00000%	240.00	146-00-00	715-00-00
	JOB EEC3350 TOTAL:			2,300.00		540.00			
	REPORT TOTAL:					-			
				L:	4,500.00		1,020.00		

							REGISTER	NO: OA-0013
JOB NUMBER	OVERHEAD COST CODE TYPE	APPLIED FR COST TYPE/ CODE/SCH	COST AMOUNT	OVERHD RATE	OVERHEAD AMOUNT	G/L A DEBIT	CCOUNTS CREDIT	 OVRHD TYP ALLOC PCN
EEC2140	Saddleback-Hospital Rez 100-099-000 L		PE: 001 700.00	15.00000%	90.05	141-00-00	220-00-00	OVERHEAD
	100-099-000 L	L/ 200-000-000 / A Job No: SRV5000	/00.00	15.00000%	89.25 10.50	715-00-00	220-00-00	10.00%
		Job No: SRV6250			5.25	715-00-00		5.00%
				-		.15 00 00		3.0070
	JC	OB EEC2140 TOTAL:	700.00		105.00			
EEC3350	Nexus-17th Floor Builde	out JOB TY	PE: 001					
	200-099-000 L	L/ 200-000-000 / A	375.00	20.00000%	75.00	141-00-00	625-00-00	OH2nd
	T/	OB EEC3350 TOTAL:	375.00	-	75.00			

Helpful Hints

- During Job Masterfile Maintenance, the value in the Rate 1 Split field will default to 100% for jobs currently being maintained unless values are entered for rate fields 2 and 3.
- The G/L accounts for Type 1 and Type 2 for the originator job will be used no matter which jobs Type 1 and Type 2 are split to, but the expense side will post the split job number(s).
- Enhanced overhead allocation methods are supported only for postings from Payroll,
 TimeCard, Accounts Payable, Purchase Order, Sales Order and Job Cost; postings from Inventory will not receive overhead allocations (at this time).
- If you have JC-1042: Revenue & Expense Posting by Job, be aware that it is not active for expense postings for Burden and Overhead.
- The Cost Amount Total in the Monthly Overhead Allocation Report can be meaningless if you
 use multiple schedules per job or apply more than one type of overhead to a job: the Cost
 Amount will be printed more than once on the report, causing the total to be multiplied.
- If you are posting by Schedule and are using two types of overhead, be aware that you
 cannot use the same combination of overhead cost code/cost type for both types on a single
 schedule. If you attempt to set up a schedule in this fashion, you will be warned and forced
 to change one of the entries.

Overhead Allocation by Schedule

Overhead Allocation by Schedule (OAS) is a variation on the concept of overhead allocation by cost code/cost type. When OAS is in effect, all overhead postings are controlled by the schedule (and by the Job Masterfile settings if Setup enables 'Control by Job'). The schedule determines the rate, the cost code and type used to post the overhead, the credit and debit G/L accounts used for posting and the allocation base. The allocation base is the set of cost codes and cost types that the overhead rate is applied to. Each entry in the set is comprised of a cost type and a beginning and ending cost code. There can be an unlimited number of entries in the allocation base for a single schedule. Up to 62 (A–Z+a–z+0–9) schedules can be entered and maintained. All jobs can use the same schedule, or the schedule can be assigned on a job-by-job basis. Only Monthly Allocations are supported by the schedule method, and the 'Post to G/L for Work in Progress' option must be set to 'N.'

Split Overhead Expense Postings

If you are posting overhead by schedule and you have elected to control overhead posting by job (via Setup), then you can set up split overhead postings. The overhead expense that would normally post to a job can be split by percentage and posted to one or two other jobs. This split occurs when the Monthly Allocation Register is printed and updated. The overhead amount is calculated using the rate of the 'Master' job and is posted using the overhead cost code/cost type of the master job as well as the credit G/L account of the master job. The debit posting is made using the debit account of the split job. If no debit account was entered for the split job or if the split job is not set up in Job Masterfile Maintenance for that type of overhead allocation, then the debit account for the Schedule (not the Master Job) is used.

Burden and Overhead Rate Precision

The burden and overhead rate can be entered with up to 5 decimal places of precision if you are using one of the 'enhanced' posting methods (Method 'C' for Burden, and methods 'C' or 'S' for Overhead). When using the standard methods ('J'), only 4 decimal places are available. Also, if you override the Burden rate using the Labor Code option in payroll, the burden rate is also restricted to 4 decimal places (as with standard Sage 100).

Visual Integrator

The files listed below have been added or changed in the Data Dictionary by this Extended Solution for Visual Integrator purposes.

New File: Field:

JC.BRDN_CC All Fields

JC.OHALLOC APPLD_FROM_CC

JC.JOBS_II APPLY_OVERHEAD, SCHEDULE_CODE, APPLY_TYPE_1, TYPE_1_DR_ACT,

TYPE_1_CR_ACT, ALLOC_JOB_1_1, ALLOC_JOB_1_2, APPLY_TYPE_2, TYPE_2_DR_ACT, TYPE_2_CR_ACT, ALLOC_JOB_2_1, ALLOC_JOB_2_2,

OVERHEAD_RATE_1, SPLIT_%_1_JOB1, SPLIT_%_2_JOB1, OVERHEAD_RATE_2,

SPLIT_%_1_JOB2, SPLIT_%_2_JOB2

JC.OH_SCH All Fields
JC.MULTSCH All Fields

The Data Dictionary may contain other files and data fields that are not available without their corresponding Sage Software Extended Solutions installed.

ODBC Dictionary

The files listed below have been added, or changed, in the ODBC Dictionaries by this Extended Solution for Crystal Reports purposes. Be aware that the Crystal Dictionaries may contain other files and data fields that will be unavailable without their corresponding Extended Solutions installed.

File: Fields:

JC_BA All Fields

JC_BS All Fields

JC_MS All Fields

JC_A1 JobNumber

ApplyOverhead
ApplyType1
OHDebitAcct1
OHCreditAcct1
SplitExpJob1_1
SplitExpJob1_2
ApplyType2
OHDebitAcct2
OHCreditAcct2
SplitExpJob2_1

SplitExpJob2_2

OverheadRate1

SplitPercentJob1_1

SplitPercentJob1_2

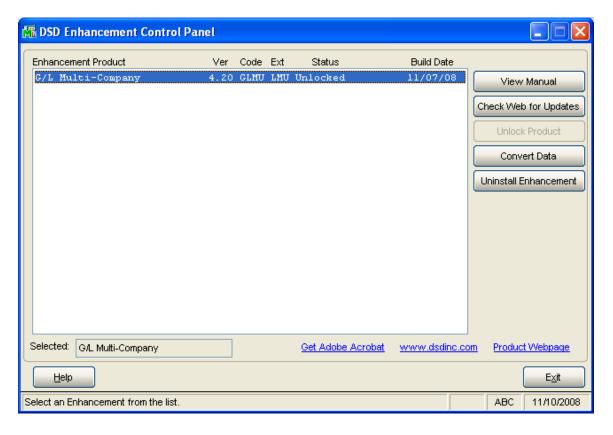
OverheadRate2

SplitPercentJob2_1

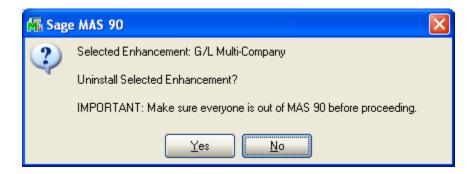
SplitPercentJob2_2

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.



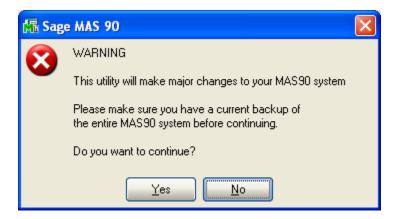
When accessing the **DSD Utility Suite**, select the enhancement that you wish to Uninstall, and then select the **Uninstall Enhancement** button. The following message box will appear:



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.

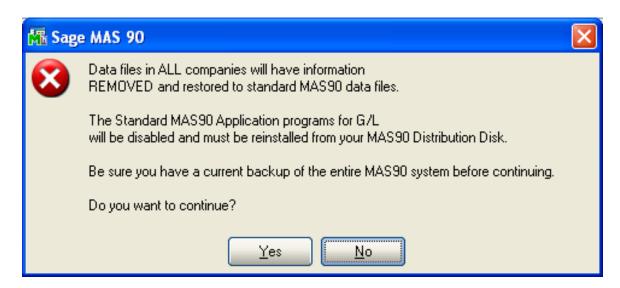


Select **No** to exit the Uninstall Process.
Select **Yes** to continue with the Uninstall Process.

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).

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