DSD Business Systems

MAS 90 Enhancements

ARMC
SQL-compatible
Accounts Receivable Multi-Currency

Version 3.74

Information in this document is subject to change without notice.

Accounts Receivable Multi-Currency User's Manual
Version 3.74

31 January, 2008

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Table of Contents

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

ARMC Accounts Receivable Multi-Currency: http://www.dsdinc.com/enh/pages/ARMC.htm

The product web page contains:

Product Description
Adobe Acrobat Product Description
Web Links
Current Product Version Table
Product Installation File Download
Product Manual in Word 97 and Adobe Acrobat Formats
Revision History
FAQ

Support

DSD provides product support through MAS 90 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.

How the Multi-Currency A/R Enhancement Works

The Multi-Currency Accounts Receivable enhancement provides the MAS 90 user with the ability to generate invoices, receive payment for those invoices, and print reports in any currency using any exchange rate. This enhancement is essential for any company with customers in more than one country.

Accounts Receivable Multi-Currency Features

- Bank Accounts in Foreign Currencies: You may define the Currency for each Bank Account.
- Gain/Loss Account: You may define a Gain or Loss G/L Account by Division to use when updating transactions of cash receipts for invoices entered with a different Exchange Rate.
- Round-off Error Account: You may define a Round-off Error Account by Division to use when posting round-off error amounts generated during currency conversion.
- Default Entry Currency by Customer: You may define a default Entry Currency by Customer to be used when entering transactions for that customer.
- Historical Units by Customer: You may define a Currency for each Customer, in which the Customer's activity history such as Period to Date Sales, etc., will be kept.
- Transaction Display Color by Currency: Open Invoice and Order Detail transactions are viewed in the Currency Display Color specified in General Ledger.
- Currency Toggle: You may toggle between Activity, Base and Transaction Currency amounts in the Open Invoice and Order Detail screens.
- Invoice History Inquiry displays Transaction and Base Currency Amounts: The Invoice History Inquiry screen displays Base Currency amounts as well as the Invoice Currency amounts, Currency Code and Exchange Rate.
- Repetitive Invoices in Any Currency: You may establish Customer Repetitive Invoices in the Customer's Default Entry Currency or in any other established currency.
- Invoice Entry in Any Currency: You may enter customer invoices in the Customer's Default Entry Currency or in any other established currency.

- **Invoice Entry using Any Exchange Rate:** You may use the current Exchange Rate for the Entry Currency being used or you may override the Exchange Rate.
- **Invoice Printing and Invoice History Reprint in Transaction or Base Currency:** You may print and reprint Customer Invoices in Transaction or Base Currency.
- **Enhanced Printing Forms:** Invoice, Statement, and Invoice History Printing have been enhanced to print in either Transaction or Base Currency. The **Crystal Reports** Data Dictionaries and Printing Forms have been enhanced also.[
- **Registers / Journals in Base and Transaction Currency:** For audit purposes, the Multi-Currency system prints Accounts Receivable Registers in both the Entry Currencies and the Base Currency using the appropriate Exchange Rates.
- **Cash Receipts Entry in Any Currency:** You may enter a Cash Receipt of one currency to a Bank Account of a different currency, as well as apply the Cash Receipt to a Customer Invoice of a third currency.
- **Cash Receipts Entry using Any Exchange Rate:** When entering Cash Receipts the system uses three different Exchange Rates: 1) Deposit Currency to Base Currency Rate, 2) Check Currency to Base Currency Rate and 3) Check Currency to Deposit Currency Rate. You may use these rates or override any of them.
- **Deposits Posted to B/R in Bank Currency:** Transactions posted from the Cash Receipts Journal to Bank Reconciliation are posted in Base and Bank Currency for reconciliation and reporting purposes.
- **Finance Charge Calculation in Any Currency:** Finance Charges may be calculated in Any Currency.
- **Unrealized Gain or Loss Report:** You may generate an Unrealized Gain or Loss Report of Open Customer Invoices as of any date for any Entry Currency.

List of Disabled Programs

The following programs have been disabled and may not be used with the Multi-Currency Accounts Receivable module installed.

- Match Credits to Open Invoices
- Balance Forward Customer transactions may only be entered in Base Currency.
- The MATCH CREDITS TO INVOICES feature in the Period End Menu has been disabled due to the complexities of cross-currency applications.
- Balance Forward customers are limited to transactions in Base Currency.

Reports

The following reports have been added or modified by the Multi-Currency Accounts Receivable module:

- Invoice Printing

- Sales Journal
- Gross Profit Journal
- Cash Receipts Journal
- Daily Transaction Register
- Customer Listing
- Customer Mailing Labels
- Aged Invoice Report
- Trial Balance Report
- Cash Expectation Report
- Customer Sales Analysis
- Sales Analysis by Salesperson
- Salesperson Commission Report
- Sales Tax Report
- Monthly Sales Report
- Monthly Cash Receipts Report
- Invoice History Report
- Accounts Receivable Analysis
- G/L Posting Recap
- Invoice History Printing
- Unrealized Gain/Loss Report
- Finance Charge Journal
- Statement Printing

Section B: Getting Started

CAUTION

- If you reinstall or upgrade one of the MAS 90 modules listed in the following table, you must also reinstall this Enhancement.
- Enhancements from different Master 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 Module	Module Required	Required Level
A/R	Y	3.74
J/C	N	3.74
DSD BRMC	If B/R is integrated	3.74
DSD GLMC	Y	3.74

Installation

The following instructions are for installing to Windows. *For UNIX instructions see the “INSTALL.HTM” HTML file on the CD-ROM (you can use a Windows machine to view it.) It will guide you in mounting the CD-ROM on the UNIX file system and running a UNIX installation script.*

1. Back-up: Exit all MAS 90 / MAS 200 sessions. Back-up existing MAS 90 / MAS 200 data.
2. Check Levels: MAS 90 / MAS 200 module levels **must match** those listed above.
3. Run Enhancement Setup Program: Insert the installation CD-ROM. The installation will normally run automatically, otherwise, run SETUP.EXE on the CD-ROM. This can be run from the server or a workstation. Follow on-screen instructions. *If installing from an e-mail message or from a Web download, run the program sent to you (or downloaded). This will self-extract and run same Setup program.*
4. Re-Start MAS 90 / MAS 200: MAS 90 / MAS 200 will be updated.
5. 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 Normal, Demo and Web.

Normal Unlock: You will need to unlock the Enhancement by calling DSD during business hours (8am to 5pm PST) at 858-550-5900.

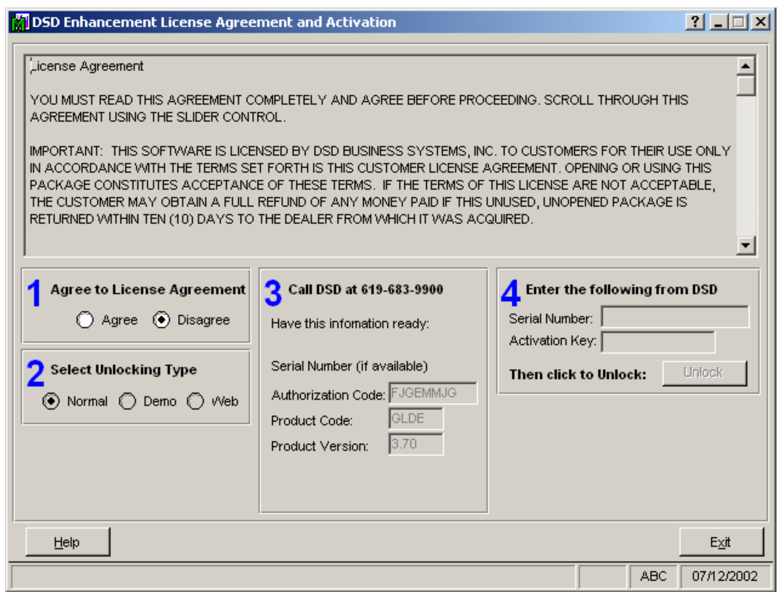
Web Unlock: If the system that is running the DSD Enhancement *has web access* and you *have a DSD WebUnlock code*, can unlock the Enhancement without assistance using WebUnlock. When this option is selected, the window will change to show the WebUnlock entry section. Enter the WebUnlock code and click the Unlock button.

- *Entering a WebUnlock code will unlock all DSD Enhancements that have been licensed.*
- *The MAS 90 / MAS 200 system that is being used must have web access for this option to be available.*
- *You can get a WebUnlock Code from 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 access and/or an WebUnlock code. Later, you can unlock the product fully, during business hours.*

Note: You can also unlock a DSD Enhancement through the DSD Enhancement Control Panel window. This is accessed at the bottom of the Library Master Utility menu. Select the Enhancement with your mouse from the list of Enhancements and click the ***Unlock Product*** *button on the right side of the window.*

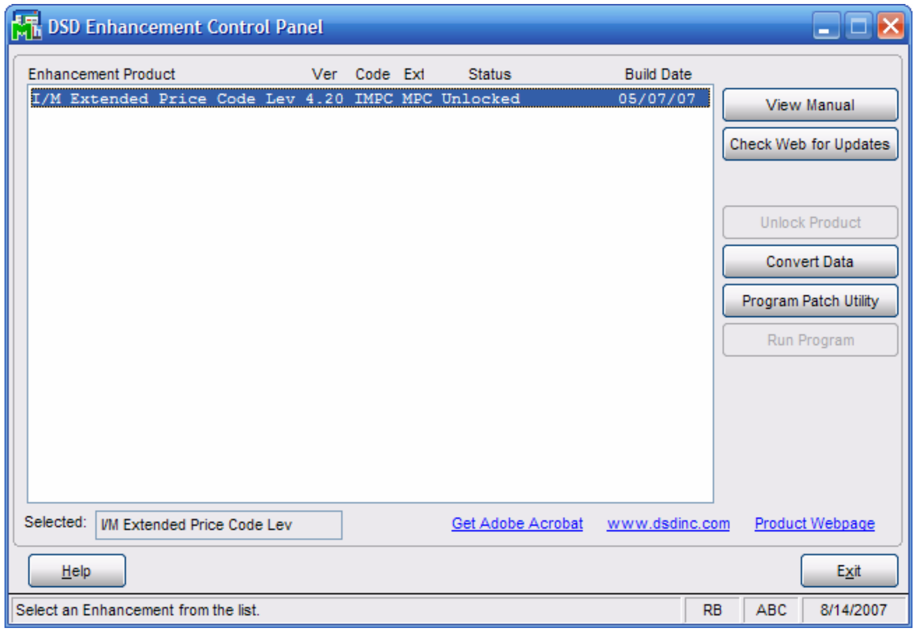


6. Convert Data: After registration, the Data Conversion window will appear. Follow on-screen instructions to complete data conversion. *You can exit the conversion program without converting data. The Enhancement will not proceed, however, until data is converted. If you enter an enhanced program and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

DSD Enhancement Control Panel

Starting with version 3.74, 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 / MAS 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 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 a web connection on the MAS 90 / MAS 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.*

Convert Data: After verification, the selected Enhancements data conversion program will run.

Program Patch Utility: Only use this option under the guidance of a DSD Enhancement Technician. That person will guide you in its use.

Run Program: This button is enabled for certain DSD Utility programs only.

Additional Controls

Help: The Help button, located at the bottom left of the window, opens an HTML help file similar to the above.

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

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

Section C: Setup

Initial Set-up

After data conversion, set-up ARMC in the following order. See other parts of this section for details of each.

1. Set-up Gain/Loss and Round-off account in Division Maintenance.
2. Setup Currency Code in Bank Maintenance.
3. Setup Vendors/Customers currencies.

Conversion Notes

The system will designate the following values for each transaction converted from an existing MAS 90 System:

1. Entry Currency = Base Currency
2. Entry Date = Transaction Date
3. Entry Rate = 1
4. Entry Amount = Original Transaction Amount

Multi-Currency Accounts Receivable Setup

Data You Need

Before beginning the Multi-Currency Startup process, you should have the following information assembled and available for use:

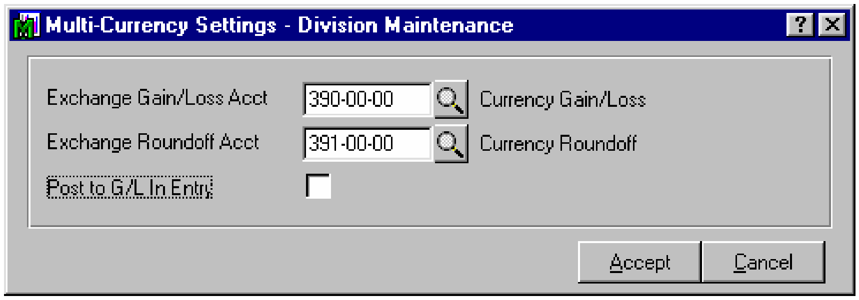
- List of Accounts Receivable Divisions including their respective Gain/Loss and Round-off Error Accounts.
- List of Bank Accounts used including their respective Currency Codes.
- List of Customers, including their Default Entry Currencies and Period to Date Activity Currencies.
- List of Repetitive Invoices in their corresponding Transaction Currencies.

A new Currency Button has been added to all Multi-Currency related screen prompts. Select this button access the new Multi-Currency fields via a pop-up panel.

Most screens have been modified to display on the bottom of the screen the Currency of amounts being displayed or entered.

Division Maintenance

The Accounts Receivable Division Maintenance screen has been modified to include a new **Currency Button**. Select this button to access the **Multi-Currency Settings** screen:



Exchange Gain/Loss Acct: This is a General Ledger Account Number field. Since the exchange rate may fluctuate between the time the Receivable is posted and the time a check is cut, the amount of Base Currency (Cash) needed to pay the invoice may be more or less than that originally posted. The gain or loss amounts for this division will be posted to this account. A gain or loss will only occur if an invoice is entered in a non-Base Currency, and then paid in that same currency.

Exchange Round-off Acct: This is a General Ledger Account Number field, representing the Account to which any round-off errors for this division are to be posted.

Post to G/L in Entry: Please refer to **Section I** for a description of this. Do NOT check this box without a complete understanding of the implications.

Bank Code Maintenance

This program is used to set up a Currency Code for each Bank Account. This allows the user to keep bank account balances in their own currency, and facilitates the reconciliation of bank statements.

Conversion Note: *If you are converting to Multi-Currency Accounts Receivable from an existing MAS 90 system, the Bank Currency Code for all existing Bank Accounts will be set to the Base Currency.*

Bank Code Maintenance has been modified to include a new **Currency Button**. Select this button to access the **Multi-Currency Settings** screen:

Currency Code: Enter the Currency Code for this Bank Account. Select the Lookup Button to display a list of Currency Codes on file.

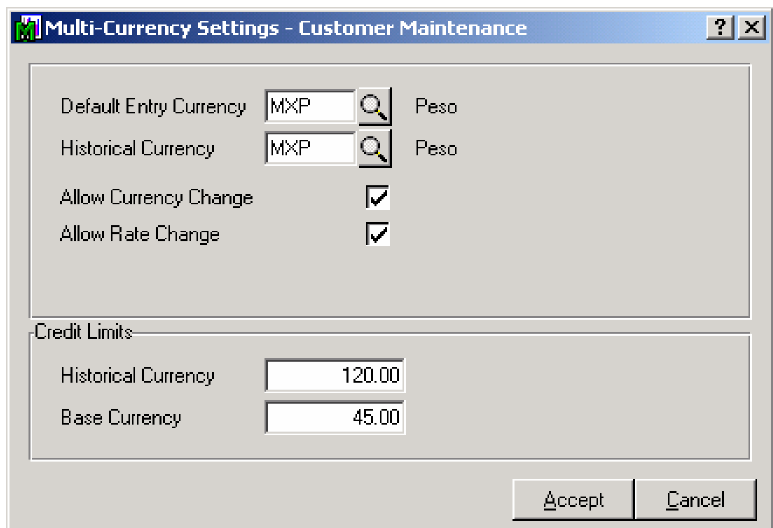
Section D: System Operations

Customer Maintenance

The Customer Maintenance program has been enhanced to maintain Customer activity in Base, Transaction, and Customer Historical currencies.

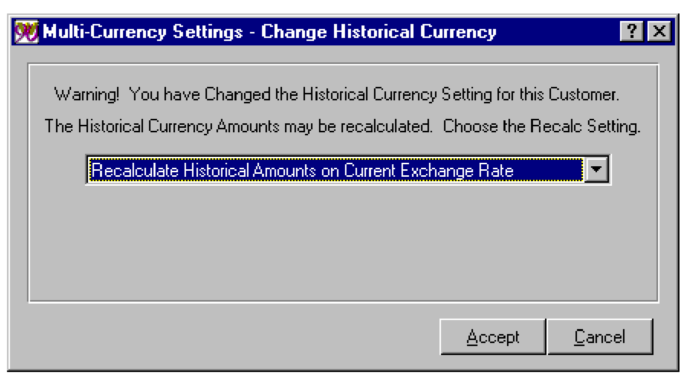
Customer Maintenance Main Panel

The Customer Maintenance Main Panel has been modified to include a new **Currency Button.** Select this button to access the **Multi-Currency Settings** screen:



Default Entry Units: Enter the Default Entry Currency for this Customer. This field will default to the Base Currency Code. During Data Entry, whenever this Customer is selected the Entry Units will default to this Currency. The Default Entry Currency may be changed at any time.

Historical Currency: Enter the Currency in which you want to keep all Period-to-Date Activity for this Customer (in addition to the Base Currency). If this field is changed after it has been set for the first time, the system will display the following window:



Select **Recalculate Historical Amounts on Currency Exchange Rate** to convert the activity amounts to the new currency using the current Exchange Rate.

Select **Leave Historical Amounts Unchanged** to keep the activity amounts which will be considered to be in the new Historical Currency.

Select **Zero-out Historical Amounts** to reset the activity amounts to zero.

Select **Cancel Historical Currency Change** to cancel the change of the Historical Currency.

Allow Currency Change: Select this check box if you want to be able to override the Transaction Currency for each transaction during Data Entry. Clear this check box if you do not want to allow Transaction Currency override. This field will default to checked. If you change the Transaction Currency for a transaction, the system will ask you for the Supervisor Password if one was set up in General Ledger.

Allow Rate Change: Select this check box if you want to be able to override the Exchange Rate for each transaction during Data Entry. Clear this check box if you do not want to allow Exchange Rate override. This field will default to checked. If you change the Entry Currency for a transaction, the system will ask you for the Supervisor Password if one was set up in General Ledger.

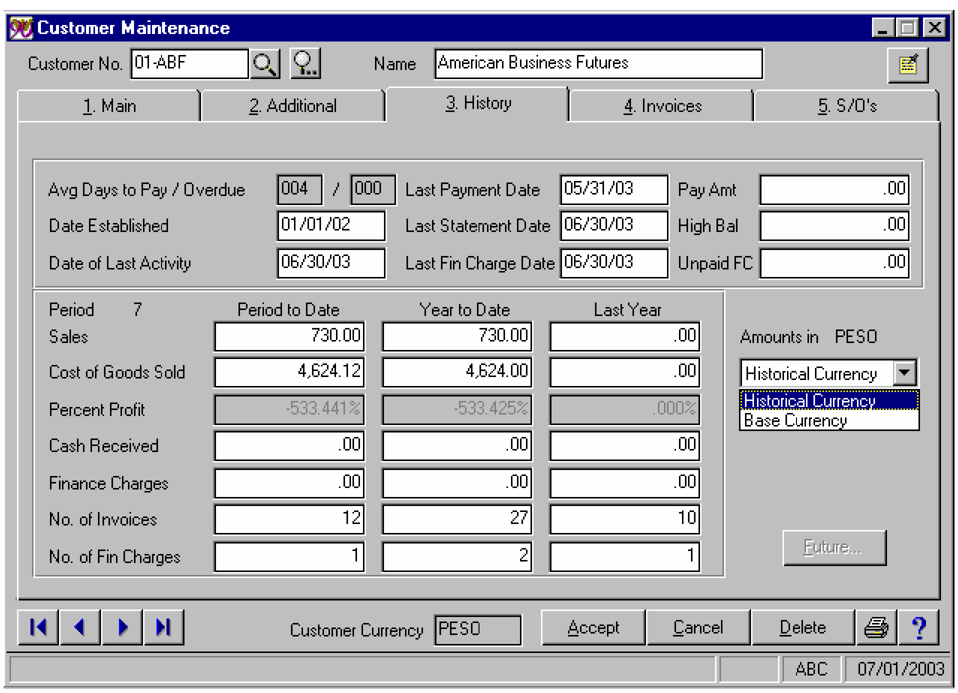
Historical Currency Credit Limit: Enter the Credit Limit used for transactions in the Customer Historical Currency.

Base Currency Credit Limit: Enter the Credit Limit used for transactions in the Base / Other Currency.

*NOTE: The Customer's **Historical Currency** is always displayed at the bottom of the Customer Maintenance Panel as **Customer Currency: XXXX.***

Customer Maintenance - History

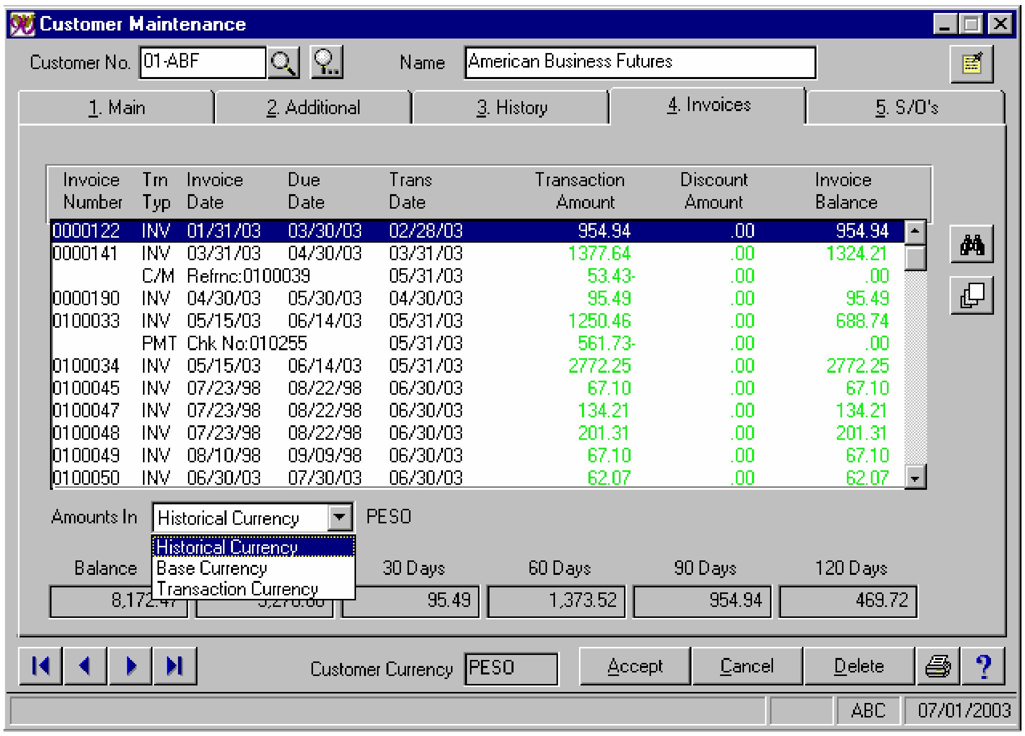
The History panel has been modified to allow display of amounts in both **Base Currency** and the Customer's **Historical Currency**. An **Amounts In** Drop Box has been added to this panel to allow display toggle between these two currencies:



Customer Maintenance - Invoices

The Invoices Panel has been modified to allow display of amounts in **Base Currency, Transaction Currency**, and Customer's **Historical Currency**. An **Amounts In** Drop Box has been added to this panel to allow display toggle between these three currencies:

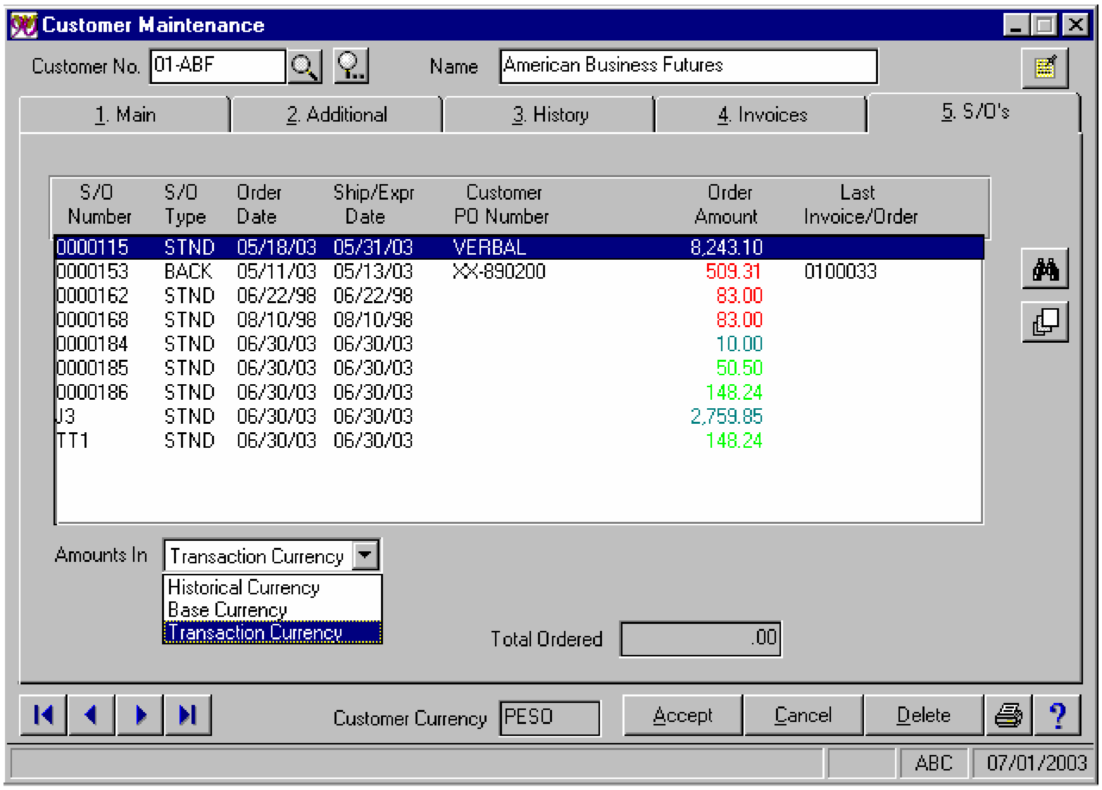
All amounts displayed in the Inquiry screens will be in the Display Color of the selected Currency.



Customer Maintenance - Open Orders

The Open Orders Panel has been modified to allow display of amounts in **Base Currency, Transaction Currency**, and Customer's **Historical Currency**. An **Amounts In** Drop Box has been added to this panel to allow display toggle between these three currencies:

All amounts displayed in the Inquiry screens will be in the Display Color of the selected Currency.



Customer Inquiry

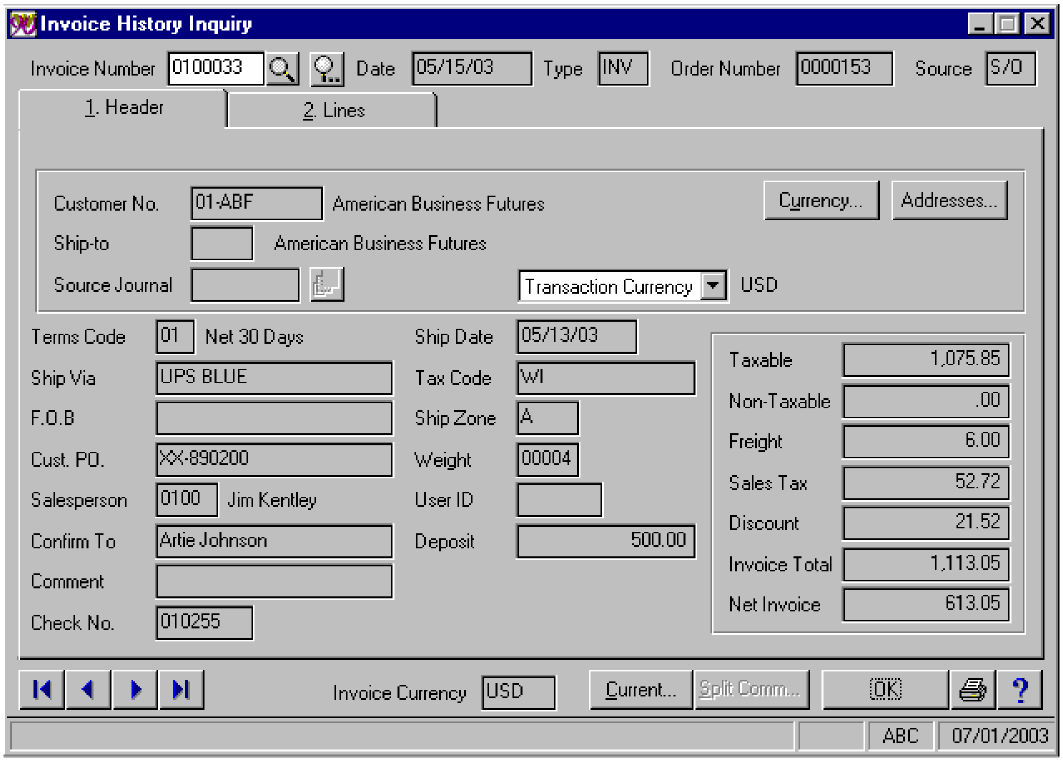
The Multi-Currency enhancements in Customer Maintenance are also found in Customer Inquiry.

Invoice History Inquiry

The Invoice History Inquiry programs have been modified to allow display of information in both **Base Currency** and **Transaction Currency**. The Header, Lines, Current, and Credit Panel have been modified to include an **Amounts In Drop Box** to toggle display of these amounts.

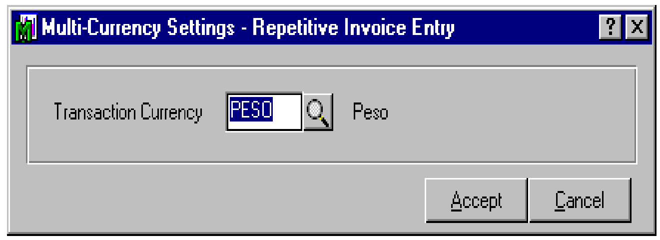
The Header Screen has also been modified to include a **Currency Button**. Select this button to access the **Currency Code** and **Exchange Rate** of the transaction.

The Currency of the Invoice is displayed at the bottom of the Invoice History Inquiry Panel.



Repetitive Invoice Entry

The Repetitive Invoice Header Panel has been modified to include a new **Currency Button**. Select this button to access the **Multi-Currency Settings** screen:



Transaction Currency: Enter the Currency Code for the Repetitive Invoice. Select the Lookup Button to list all Currency Codes on file. If you change the Transaction Currency, the system will ask you for the Supervisor Password if one was setup in General Ledger.

All amounts entered for a Repetitive Invoice will be in the selected currency.

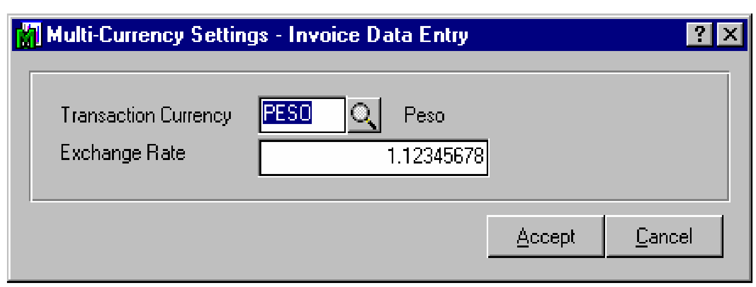
Repetitive Invoice Selection

The Entry Currency for all Invoices generated through Repetitive Invoice Selection will be the **Transaction Currency** of the Repetitive Invoice. The Exchange Rate will be the Exchange Rate effective as of the Invoice Date (setup in the General Ledger).

Invoice Data Entry

The Invoice Header Panel has been modified to include a new **Currency Button**. Select this button to access the **Multi-Currency Settings** screen:

Transaction Currency: Enter the Transaction Currency Code for the invoice. Select the Lookup Button to list all Currency Codes on file. The system will ask you for the Supervisor Password if one was set up in General Ledger.



If amounts have already been entered, and the currency is changed, the Invoice amounts remain the same and will be considered to be in the new currency.

This field will not be accessible if the **Allow Currency Change** flag is not checked for the Customer in Customer Maintenance.

Exchange Rate: Enter the Exchange Rate for the invoice. The rate will default to the exchange rate found in Currency Code Maintenance for the Invoice Date. If the default exchange rate is overridden, then the Invoice amounts remain the same and will be converted to Base Currency when posting to General Ledger using the new Exchange Rate.

The system will ask you for the Supervisor Password if one was set up in General Ledger. This field will not be accessible if the **Allow Rate Change** flag is not checked for the Customer in Customer Maintenance.

Invoice Printing and Invoice History Reprint

The Invoice Printing and Invoice History Reprint programs have been modified to allow printing in either Base Currency of Transaction Currency. Select the **Currency Button** to access this option.

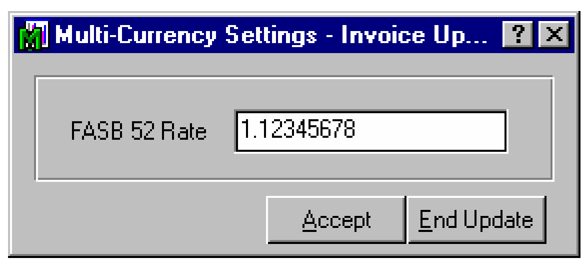
Crystal Report Printing has been modified to also all to allow printing in either Base Currency of Transaction Currency.

Sales Journal

The Sales Journal will be printed in **Transaction Currency.** If the system finds that a Transaction Currency other than the Base Currency has been entered then it will print the register in **Base Currency.**

The Recap Report will be printed in **Base Currency** and will include any round-off error amounts calculated during currency conversions.

Invoice Update



If a **FASB 52** Currency is tracked (see the GLMC manual for a description of this), then the user has the option of overriding the FASB 52 Rate used in the update. Once the Registers have been printed, the user will be prompted as shown.

FASB 52 Rate: Enter the FASB 52 exchange rate used in the posting of the invoices. Select **End Update** to cancel the update.

Cash Receipts Entry

The Cash Receipts Entry program has been modified to allow the entry of Cash Receipts of any Currency to any Bank Account and apply the Cash Receipt to Customer Invoices of any Currency. Additionally, you may use the Exchange Rates as of the Deposit Date or override them with a new rate.
The Cash Receipt Entry program uses these Currencies and Exchange Rates to process deposits:

> **Deposit Currency:** This is the currency in which you are making the deposit; in other words, this is the Bank Account Currency.

Check Currency: This is the actual currency of the check, letter of credit, draft, etc., that you received from your Customer and that you deposited in the bank.

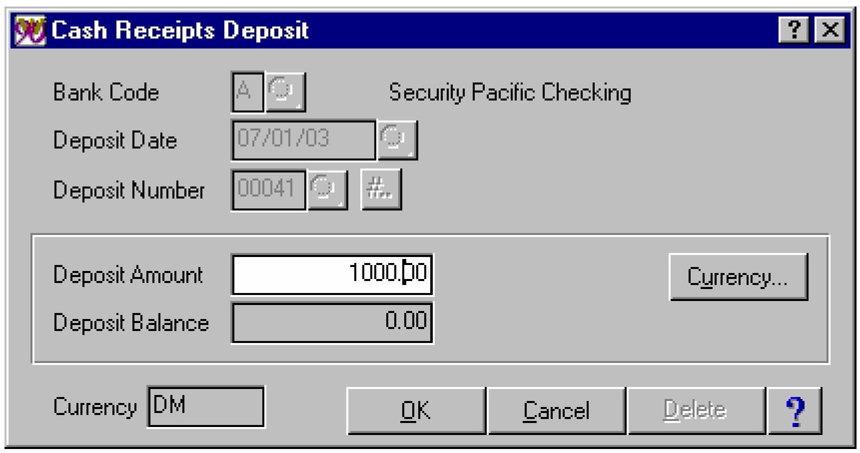
Invoice Currency: This is the Entry Currency of the Invoice being paid by the check.

Deposit -> Base Rate: This is the Exchange Rate of the Deposit/Bank Currency in relation to the Base Currency.

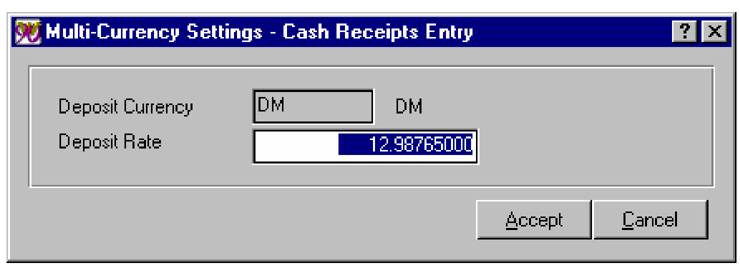
Check -> Base Rate: This is the Exchange Rate of the Check Currency in relation to the Base Currency.

Check -> Deposit Rate: This is the Exchange Rate of the Check Currency in relation to the Deposit Currency. This Rate is the actual rate that the bank used to convert the check deposited in the Bank Account to the Deposit Currency.

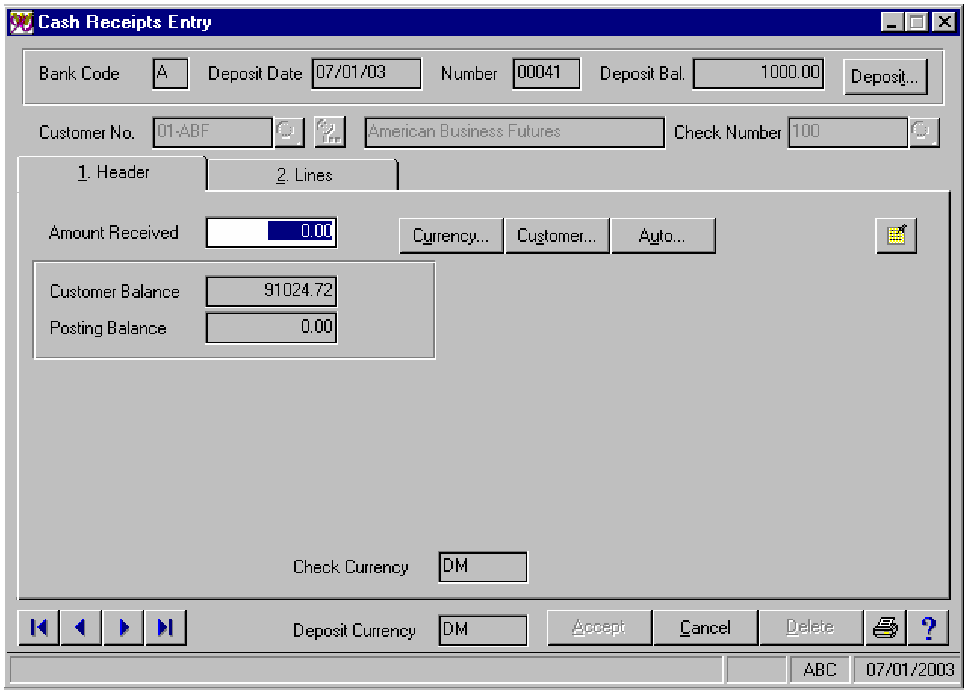
When a Bank Code is first entered in the **Cash Receipts Deposit screen**, the Bank Currency Code will be displayed at the bottom of the screen. Select the **Currency Button** to access the Multi-Currency Settings Panel to change the Deposit Rate if desired:



Note: If records exist for this deposit, then the Deposit Rate may not be changed. The rate may only be changed at the start of the Deposit entry.



When a Customer number is entered to identify the source of the cash receipt, both the Deposit (Bank) and Check Currency Codes will be displayed at the bottom of the screen:

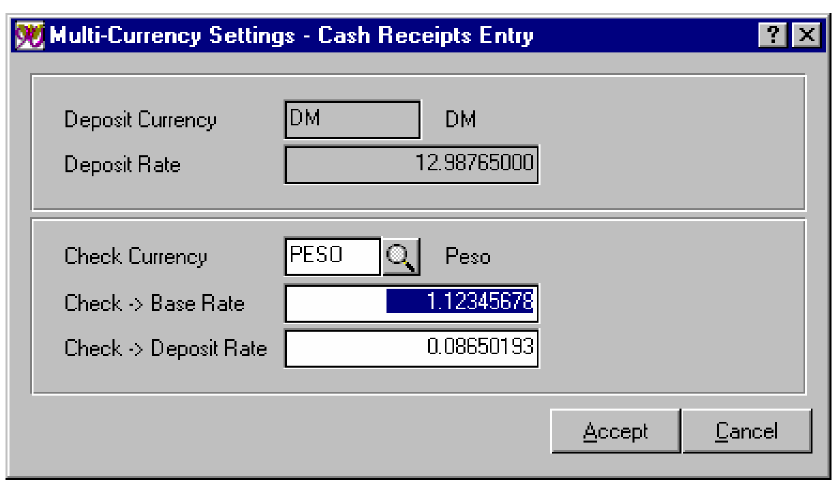


Select the **Currency Button** to access the **Check Currency** settings. The Check Currency, Check Rate, and Check-to-Deposit Rate can be changed if:

a) The **Amount Received** field on the Header Panel is set to zero, that is, no check amount has been entered yet, and

b) There are no invoice records created yet.

Therefore, you must change the Check Currency Code and Rates prior to entering in the check information.



Check Currency: Enter the Check Currency. This field will default to the Deposit / Bank Currency. Select the **Lookup Button** to list all Currency Codes on file. This field may not be changed once you enter an Invoice or a G/L distribution line.

Check -> Base Rate: Enter an Exchange Rate to be used when converting amounts from the Check to the Base Currency. This field may not be changed once you enter an Invoice or G/L distribution line or if you are using a

Customer Contract. The system will ask for the Supervisor Password if one was set up in General Ledger.

Check -> Deposit Rate: Enter an Exchange Rate to be used when converting amounts from the Check to the Deposit Currency. This field may not be changed once you enter an Invoice or G/L distribution line or if you are using a Customer Contract. The system will ask for the Supervisor Password if one was set up in General Ledger.

Cash Receipts Entry - Invoice Lines

When you are entering an Invoice line against a Customer Check, you may select the **Lookup Button** to display all Invoices on file. This Listing has been modified to display the Invoice Currency of each invoice.

Cash Receipts Journal

The Cash Receipts Journal will be printed in **Transaction Currency**. If the system finds that a Transaction Currency other than the Base Currency has been entered then it will print the register in **Base Currency**.

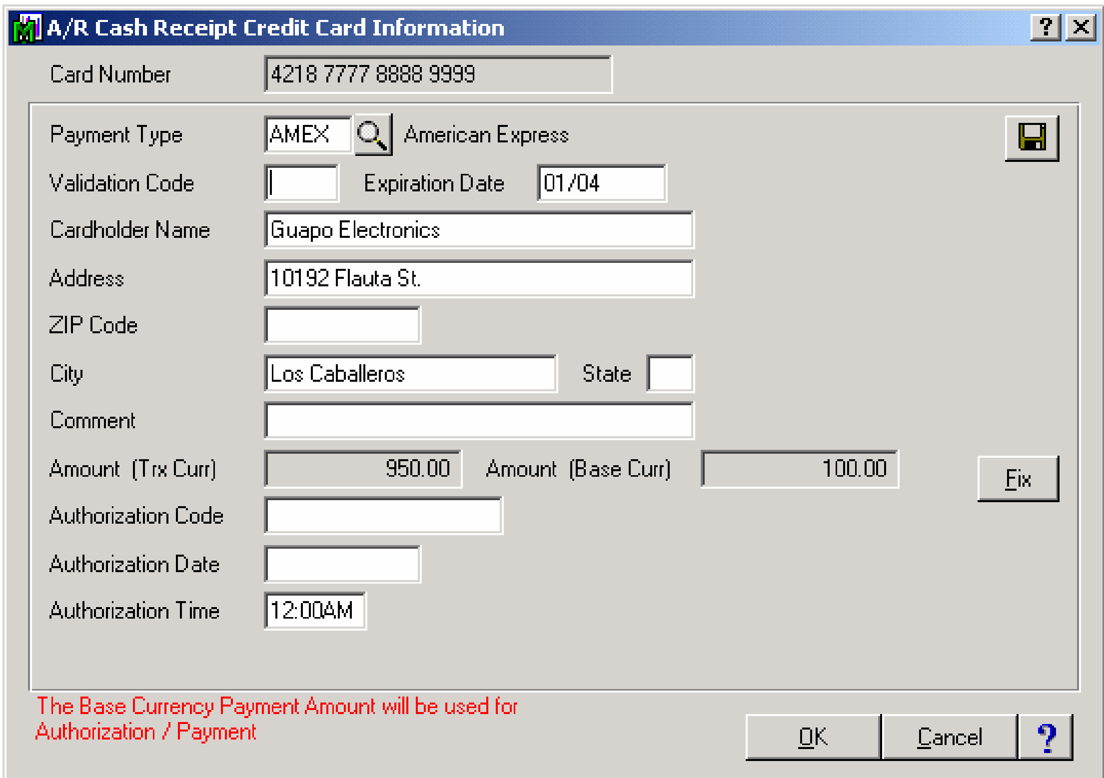
The Recap Reports will be printed in **Base Currency** and will include any round-off error amounts calculated during currency conversions.

Cash Receipts Update

The Cash Receipts Journal Update has been modified to perform all the appropriate currency conversions. The Gain/Loss will be calculated and will post to the General Ledger Account defined in Division Maintenance. This amount is caused by the difference between the original Invoice Exchange Rate and the Check -> Base Rate at the time that the Invoice is paid.

Cash Receipts – Credit Card Processing

Since Credit Card Processing in Cash Receipts Entry does NOT involve Bank Codes, the Deposit Currency Code and Deposit Amount will always be in Base Currency. The “Check” Currency and “Check” Amounts may still be in different currencies, but those amounts will be converted back to Base Currency for Credit Card Pre-Authorization, Post-Authorization, and Payments.

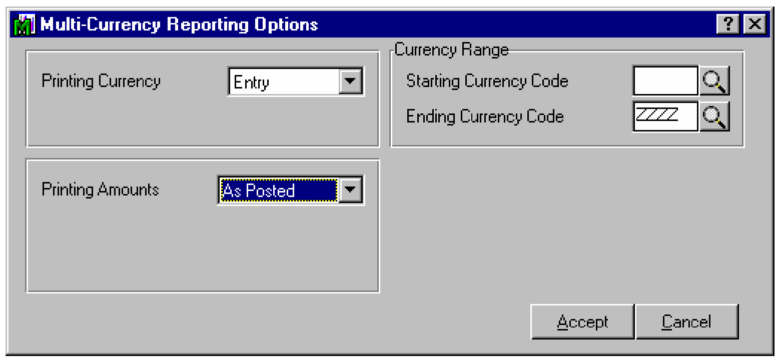


Please note that the Credit Card Information panel has been modified to display the Credit Card Amount in both Transaction Currency and Base Currency.

Section E: Reports

Standard Reports

When printing any Accounts Receivable Reports, you may define the Currency and Exchange Rate to use. A new **Currency Button** has been added to the Report Panel, and when selected, the following screen will be displayed (This screen will vary slightly depending on the report being printed and the options entered):



Currency Range: Enter a range of Currencies for a specific group of transactions. Select the Lookup Button to list all Currencies on file. This field will be displayed only for reports that print amounts from individual transactions.

Printing Currency: Select **Entry** for Transaction Currency, **Base** for Base Currency, **Customer** for Customer Currency, **Other** for Other Currency, or **Rate Override** for Override Rate.

Currency Code: Enter the Currency Code in which to print all amounts. This field will be displayed only if you selected **Other** as the **Printing Currency** option.

Printing Amounts: Select **As Posted** to import all amounts As Posted or **Override Date** to convert amounts using an Exchange Rate as of an Override Date. This field will be displayed only if you selected **Other** as the **Printing Currency.**

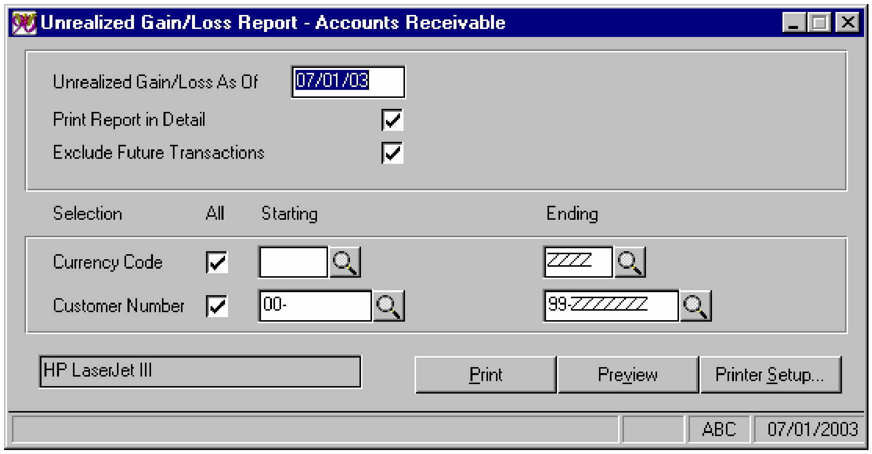
Override Date: Enter a date using the MMDDYY format to import amounts converted to the Printing Currency using the Exchange Rate as of this date. This field will be displayed only if you selected **Override Date** as the **Printing Amounts.**

Rate Type: Select **Buy Rate** or **Sell Rate.** This field will be displayed only if you selected **Override Date** as the **Printing Amounts.**

Override Rate: Enter a Rate to be used when exporting amounts. This field will be displayed only if you selected **Rate Override** as the **Printing Currency.**

Unrealized Gain/Loss Report

The Unrealized Gain/Loss Report has been added to the Reports Menu in Accounts Receivable. This report calculates the Unrealized Gain or Loss for all open invoices based upon the reporting date. This report may be used to enter the Gain/Loss amounts through a General Journal at the end of one month and reverse it at the beginning of the next. The Selection Screen for this new Report is displayed below:



Unrealized Gain/Loss As Of: The default date displayed will be the current System Date. This date will be used to calculate the current Exchange Rate for the Transaction Currencies.

Print Report in Detail: Select this check box to print a detailed report including Invoice Number and Date information. Clear this check box to print a Summary report providing total amounts by Currency and Customer only.

Exclude Future Transactions: Check this box to exclude any open invoices with an invoice date after the reporting date. Clear this box to include future-dated invoices.

Currency Code Range: Select the **All** check box to select transactions in all Transaction Currencies, or enter a range of Currencies for a specific group of Transactions. Select the Lookup Button to list all Currencies on file.

Customer Number Range: Select the **All** check box to accept all Customers on file, or enter a range of Customer Numbers for a specific group of Customers. Select the Lookup Button to list all Customers on file.

After making your selections a report similar to the following will be printed:

RUN DATE: 12/31/99 Multi-Currency Data PAGE: 1
SYS DATE: 12/31/99 ACCOUNTS RECEIVABLE UNREALIZED GAIN/LOSS REPORT TIME: 12:00 AM
PRINTED IN: DETAIL, AS OF: 03/31/99
ENTRY CURR SELECTED: to ZZZZ

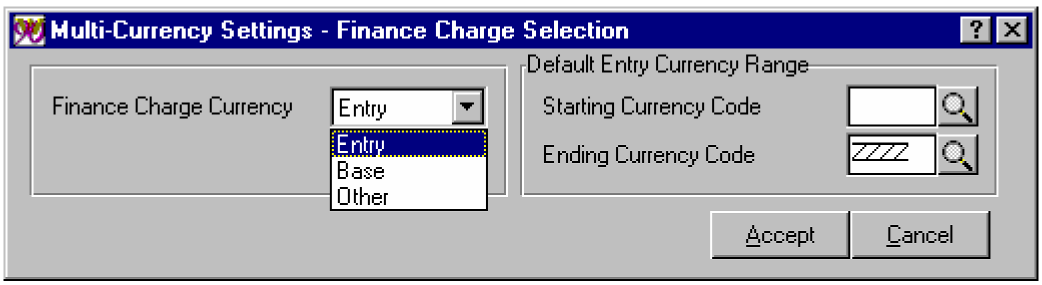
CUSTOMER/ INVOICE NO.	INVOICE DATE	INVOICE BAL ENTRY CURR	INVOICE BAL SYSTEM CURR	ENTRY RATE	CURRENT RATE	GAIN/LOSS ENTRY CURR	GAIN/LOSS SYSTEM CURR
CURRENCY: DOLR							
01-PLM PLASTICOS DE MEXICO, S.A.							
1095	02/27/99	1000.00	3345.00	3.345000	6.535000	488.14-	3190.00-
1103	03/11/99	500.00	1678.50	3.357000	6.535000	243.15-	1589.00-
1112	03/14/99	850.00	2854.30	3.358000	6.535000	413.23-	2700.45-
1176	04/27/99	1100.00	3795.00	3.450000	6.535000	519.28-	3393.50-
1245	04/27/99	950.00	3277.50	3.450000	6.535000	448.47-	2930.75-
1287	05/01/99	4550.00	16052.40	3.528000	6.535000	2093.63-	13681.85-
1298	05/03/99	750.00	2647.50	3.530000	6.535000	344.87-	2253.75-
1309	06/17/99	3500.00	12526.50	3.579000	6.535000	1583.17-	10346.00-
1315	06/25/99	2125.00	7626.63	3.589000	6.535000	957.96-	6260.25-
1323	10/20/99	850.00	3143.30	3.695000	6.535000	369.01-	2411.45-
1325	11/13/99	1125.00	4272.75	3.798000	6.535000	471.17-	3079.13-
1331	11/29/99	825.00	3155.63	3.825000	6.535000	342.12-	2235.75-
1378	02/14/99	5350.00	34470.05	6.443000	6.535000	75.32-	492.20-
1384	03/02/99	3150.00	20512.80	6.512000	6.535000	11.09-	72.45-
CUSTOMER PLM TOTALS:		26625.00	119357.86			8360.61-	54636.53-
01-MANG MANUFACTURERA DEL GOLFO, S.A. DE C.V.							
45715	11/14/99	1500.00	5697.00	3.798000	6.535000	628.23-	4105.50-
CUSTOMER MANG TOTALS:		1500.00	5697.00			8988.84-	58742.03-
CURRENCY DOLR TOTALS:		28125.00	125054.86			55264.75-	12466.10-

Sample Unrealized Gain/Loss Report

Section F: Period End Menu

Finance Charge Calculation

The Finance Charge Calculation program has been modified to allow the calculation to be performed in the Customer Default Entry Currency, Base or Other Currency. The Main Panel has been modified to include a new **Currency Button**. Select this button to access the **Multi-Currency Settings** screen:



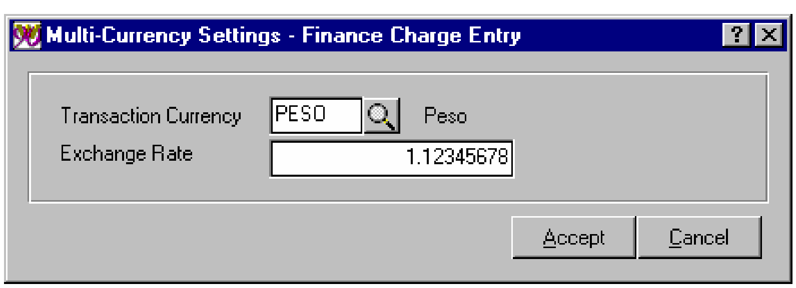
Finance Charge Currency: Select **Entry** for Entry Currency, **Base** for Base Currency, or **Other** for Other Currency. This field will default to Entry Currency.

Currency Code: Enter the Currency Code in which to generate Finance Charges. This field will be displayed only if you selected **Entry** at the **Finance Charge Currency** drop box.

Default Entry Currency Range: Select a range of Default Entry Currencies. A **Lookup Button** is available to select a specific Currency Code.

Finance Charge Entry

The Finance Charge Entry program has been modified to generate Finance Charges in the Customer Default Entry Currency, Base or Other Currency.



This Multi-Currency Options screen will be displayed after you enter the Customer Number for a new Finance Charge. If a Finance Charge was already generated, then this screen will be displayed when you select the **Currency Button** from the Finance Charge Entry panel.

Transaction Currency: Enter a Transaction Currency for this Finance Charge. This field will default to the Customer's Default Entry Currency. Select the **Lookup Button** to list all Currency Codes on file.

If the Entry Currency is changed after the Finance Charge has been calculated, the system will recalculate the Finance Charge to be in the new currency.

Exchange Rate: Enter an Exchange Rate for this Finance Charge. This field will default to the Exchange Rate as of the Accounts Receivable System Date.

If the Exchange Rate is changed after the Finance Charge has been calculated, the Finance Charge will remain the same and will be converted to Base Currency when posting to General Ledger using the new Exchange Rate.

Finance Charge Journal / Update

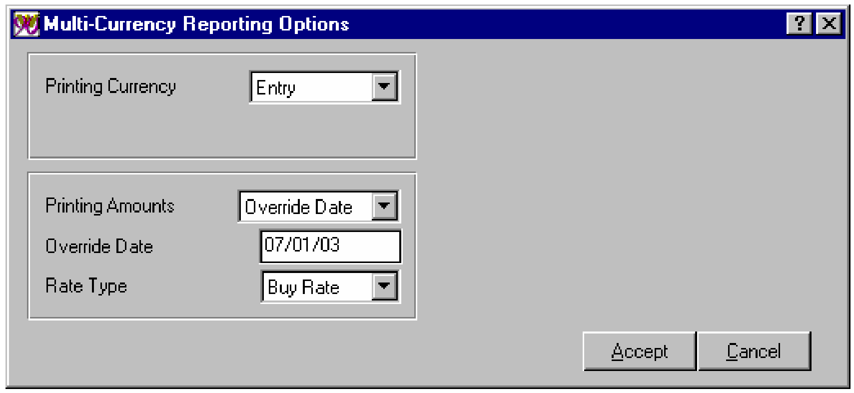
The Finance Charge Journal will be printed in Base Currency. If the system finds that a Transaction Currency other than the Base Currency has been entered then it will prompt to print the register in **entry units**.

Select **Yes** to print the Finance Charge Journal in Entry Currency. This register will not print Customer or Report Totals.

The Finance Charge Journal Update has been modified to perform all the appropriate currency conversions. Round-off error amounts will be calculated and will post to the General Ledger Account defined in Division Maintenance.

Statement Printing – Non-Graphical Forms

When printing a Customer Statement, you may define the Currency and Exchange Rate to use. A new **Currency Button** has been added to the Statement Printing Panel, and when selected, the following screen will be displayed:



Printing Currency: Select **Entry** for Transaction Currency, **Base** for Base Currency, **Customer** for Customer Currency, or **Other** for Other Currency.

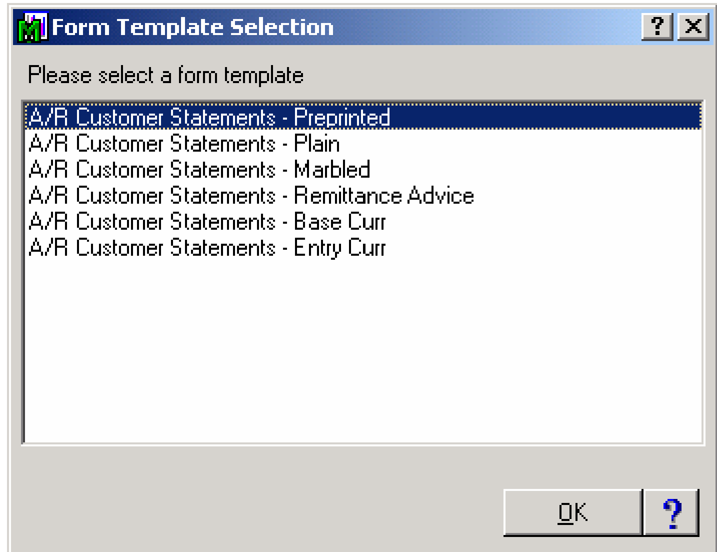
Printing Amounts: Select **As Posted** to import all amounts As Posted or **Override Date** to convert amounts using an Exchange Rate as of an Override Date.

Override Date: Enter a date using the MMDDYY format to import amounts converted to the Printing Currency using the Exchange Rate as of this date. This field will be displayed only if you selected **Override Date** as the **Printing Amounts.**

Rate Type: Select **Buy Rate** or **Sell Rate.** This field will be displayed only if you selected **Override Date** as the **Printing Amounts.**

Statement Printing – Crystal Graphical Forms

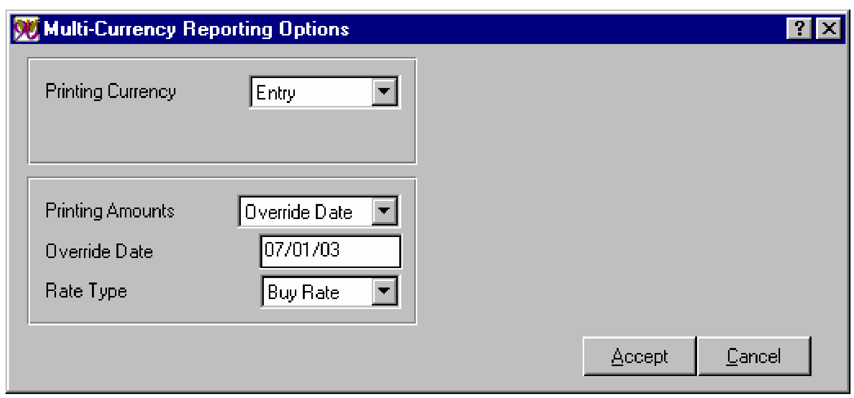
When using Crystal Graphical Forms, 2 new form templates have been added: **Entry Currency** and **Base Currency** (see right).



The Entry Currency template prints the Currency Code of each invoice and prints all transactions in Invoice Currency.

The Base Currency Template prints all transactions in Base Currency.

When you define the Graphical Form, you must also select the Currency to print Statements. A new **Currency Button** has been added to the Statement Printing Panel, and when selected, the following screen will be displayed:



Printing Currency: Select **Entry** for Transaction Currency or **Base** for Base Currency.

Printing Amounts: Select **As Posted** to import all amounts As Posted or **Override Date** to convert amounts using an Exchange Rate as of an Override Date. This field will be displayed only if you selected **Other** as the **Printing Currency.**

Override Date: Enter a date using the MMDDYY format to import amounts converted to the Printing Currency using the Exchange Rate as of this date. This field will be displayed only if you selected **Override Date** as the **Printing Amounts.**

Rate Type: Select **Buy Rate** or **Sell Rate.** This field will be displayed only if you selected **Override Date** as the **Printing Amounts.**

Section G: Crystal Reports

Data Dictionaries

The following Multi-Currency Data Dictionaries have been created or modified for use in Crystal Reports.

NOTE: DSD Business Systems is not responsible for any problems with use of Crystal Reports. DSD is only responsible for providing the Data Dictionaries to report from.

The Customer Masterfile Data Dictionary, AR1_CustomerMaster, contains Customer historical data in Base Currency. A new Dictionary has been added, called AR_M1_MCCustomerMaster that contains the Customer Currency information, along with the historical data in the Customer's Historical Currency.

Since all other A/R files store amounts in Entry Currency, the Currency Code and Exchange Rate have been added to the following Crystal Data Dictionaries:

AR3_MonthlyCashReceipts
AR4_OpenInvoice
AR6_TransPaymentHistory
AR7_InvoiceDataEntryHeader
AR9_CashRcptDataEntryHeader
ARA_CashRecptDataEntryLine
ARJ_FinanceChrgMaintenance
ARL_RepetitiveInvoiceHeader
ARN_InvHistoryHeader
ARO_InvHistoryDetail
AR_14DepTransHistory

The Currency Code has been added to the following Crystal Data Dictionaries

AR_21CrystalInvoiceHeader

The Gain/Loss Account and the Roundoff Account fields have been added to the ARB_DivisionMasterfile Data Dictionary.

Printing using Crystal Reports

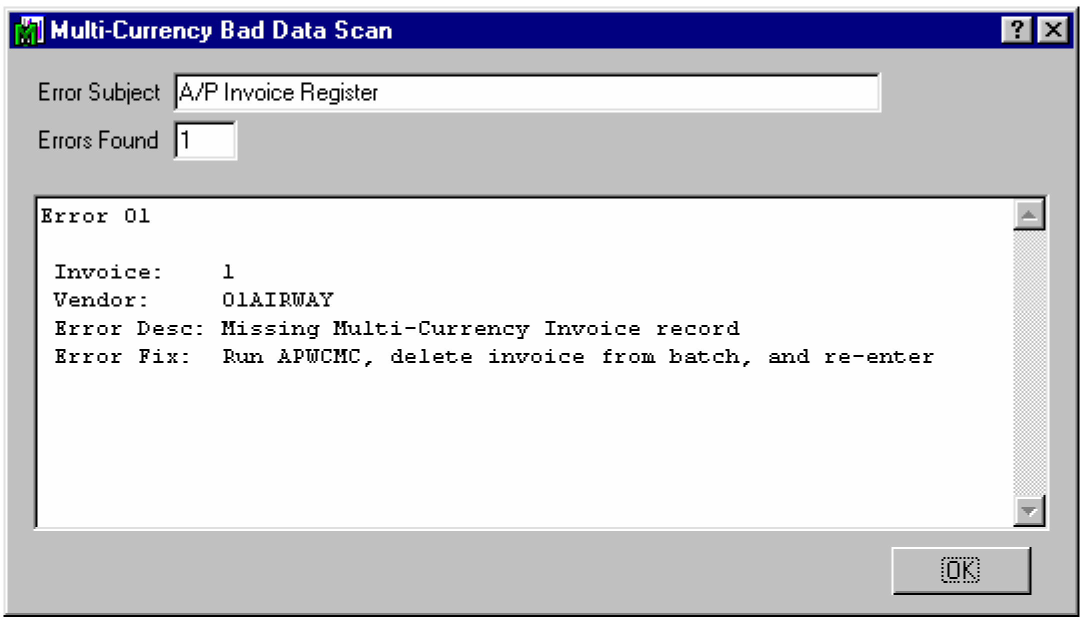
The Invoice Printing and Invoice History Reprint programs have been modified to provide Crystal with Invoice amounts in Transaction Currency. You will have to add the Currency Code if printing it is desired.

Section H: Troubleshooting

Bad Data Scan

Each of the Data Entry Registers has been enhanced to perform a "Bad Data Scan" prior to register printing. This scan will check the data entry files and associated master files and determine if there are any problems. The purpose of this feature is to eliminate errors that can occur during the data entry registers or updates that are caused by corrupt or missing data.

The following is a sample of a Bad Data Scan Screen that may pop-up when a register is run. In this example, the A/P Invoice Register was run and it found that a currency record was missing:



The Bad Data Scan panel displays the record information, the error description, and the solution to fixing the error. If Batch Processing is used, the Batch Number will also be displayed. If there are multiple errors found in the same batch, then all of the errors will be displayed on the panel and you can then scroll up/down to review all errors.

When the OK button is pressed, the panel will close and you will be back at the MAS90 menu. The register will not print.

If no errors are found, then the Bad Data Scan panel will not be displayed, and the register will print as normal.

In Accounts Receivable, the following errors are possible due to missing or corrupt data. Also presented are the solutions to fixing the errors:

Error: Missing Multi-Currency Invoice/Deposit record
Solution: Run ARWCMC, deleted the invoice / deposit from the batch, and re-enter

Error: Exchange Rate is set to Zero
Solution: Delete invoice/deposit from batch –OR- reset the exchange rate in data entry

Error: Invalid or missing Currency Code on Invoice/Deposit Record
Solution: Check Currency Code on invoice/deposit record

Error: Missing MC Customer record
Solution: Run ARWCMC

Error: Invalid or missing Currency Code on Customer record
Solution: Check Currency Panel in Customer Maintenance

Error: Missing MC Line record
Solution: Deleted invoice/deposit from the batch, and re-enter

If the solution is to Run ARWCMC, then select "File / Run" from the MAS90 Launcher menu and enter "ARWCMC" for the Program Name. Click OK to proceed. This will trigger the DSD Multi-Currency Conversion Wizard for that Multi-Currency module. Click the Next button to start the conversion.

You might ask: "Why would data be corrupt?" There are 2 types of problems that can occur with data entry:

Bad Data: Sometimes a user will be entering information into data entry, and for whatever reason, the system hangs or reboots, thus causing incomplete or corrupt data to be saved. This problem occurs more frequently with users on a WAN. If the user doesn't delete the data entry in progress and re-do it, then the register or update will usually cause errors.

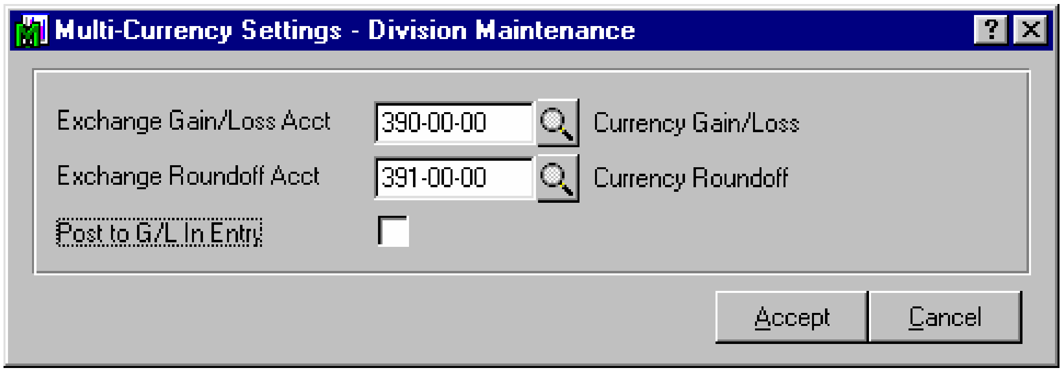
Missing Customer/Vendor Data: If a Vendor/Customer record has missing Currency Codes, then the update programs will cause errors.

If you are experiencing recurring data problems with the Multi-Currency modules, please contact DSD Business Systems immediately for consultation.

Section I: Update Postings to the General Ledger

Version 3.50 changes

A new checkbox has been added to A/R Division Maintenance called **Post to G/L in Entry**:



Selecting this checkbox changes the way currencies are posted to the General Ledger, specifically the Accounts Receivable Account, Discount Account, Cash Accounts, and Gain/Loss Account.

Important: *If you are upgrading from a prior version of Multi-Currency and you already have data in these accounts, then* ***DO NOT CHECK THIS BOX.***

When you check this box, all non-Base currency data is posted to the Accounts Receivable Account, Discount Account, Cash Accounts in **Entry Currency instead of Base Currency** and the difference is posted to the **Gain/Loss Account.**

The following sections describe the way this new checkbox works:

Invoice Update

There are now two ways to post to the General Ledger from the Invoice Update:

"Post to G/L in Entry" is unchecked

In this scenario, the Sales accounts and the A/R accounts are posted in Base Currency. For example:

Currency: Non-Base
Exchange Rate: 3.0
Entry Amount: $300

Posting:	DB	A/R	$100	
	CR	Sales		$100

"Post to G/L in Entry" is checked

In this scenario, the Sales accounts are posted in Base Currency, the A/R Account is posted in Entry Currency and the difference is posted to Gain/Loss. Using the same example:

Posting:	DB	A/R	$300	
	CR	Gain/Loss		$200
	CR	Sales		$100

Cash Receipts Update

There are now two ways to post to the General Ledger from the Cash Receipts update program:

"Post to G/L in Entry" is unchecked

In this scenario:

a. The Cash Account is posted in Base Currency using the Deposit Rate,
b. The A/R account is posted in Base Currency using the original Invoice Rate,
c. The difference is posted to the Gain/Loss account

Using the same example as above, a check is cut for the full amount but the exchange rate has changed from 3.0 to 2.0:

Currency:	Non-Base
Exchange Rate:	2.0
Check Amount:	$300

Posting:	DB	Cash	$150	
	CR	Gain/Loss		$50
	CR	A/R		$100

"Post to G/L in Entry" is checked

In this scenario:

a. The Cash Account is posted in Entry Currency,
b. The A/R account is posted in Entry Currency,
c. There is no Gain/Loss. The exchange rate is completely ignored.

Using the same example:

Posting:	DB	Cash	$300	
	CR	A/R		$300

Why Post to the General Ledger in Entry?

This new 3.50 feature has been added at the request of some Canadian end-users. If you plan on using this new feature, then you must follow some guidelines:

1. Use multiple divisions.
2. Each division will represent a currency. For example, Division 01 will be U.S. Dollars, Division 02 will be Canadian Dollars, etc.
3. The division accounts must be different between divisions.
4. The bank currencies will have different cash accounts.
5. You will always collect payment in the currency of the invoice.
6. You must **never** check or uncheck the “Post to G/L in Entry” checkbox if data already exists in the Division or Cash accounts.

The benefits of this new feature are:

1. The Financial Statements will display Current Asset accounts in Entry Currency.
2. Easier reconciliation between General Ledger and Bank Reconciliation.

The drawbacks of this feature are:

1. True Gain and Loss on Exchange Rate is never realized.
2. This feature is not FASB-52 compliant.

Section J: What's New?

Version 3.50

1. A new "**Post to G/L in Entry**" flag has been added to **Division Maintenance.** Please refer to **Section I** of this manual for a detailed explanation of this new feature.

2. The Currency Code has been added to the **ALE Lookups** for Customer and transaction lookups.

3. All A/R reports default to print in **Entry Currency, As Posted** instead of **Base Currency**.

4. The new credit card features in A/R and S/O are Multi-Currency compliant.

5. The Deposit Transaction Report has been modified to print in Base or Entry Currency.

Version 3.51

There have been two changes in the 3.51 versions of Multi-Currency:

1. A new drop box has been added to the G/L Multi-Currency Options panel called "**Default Currency for Reports.**" You may now select subsidiary (non-G/L) reports to default to **Base Currency** or **Entry Currency**.

2. A new checkbox has been added to the G/L Multi-Currency Options panel called "**Print Report Totals when printing in Entry Currency.**" Select this checkbox if you want to print report totals when printing in Entry Currency. Please note that if you print in Entry Currency and there are multiple currencies being reported, that the totals will be useless.

Note: *The G/L Multi-Currency Options panel is accessible from G/L Options Main Panel by selecting the* ***Currency Button.***

Version 3.60

No additional features have been added to this release of Multi-Currency.

Version 3.61

The Sales Journal and Cash Receipts Journal have been modified to print totals in entry currency if the “Print Report Totals when printing in Entry Currency” flag in GL Options is checked.

Version 3.70

There have been some significant changes in this version of A/R Multi-Currency:

1. The A/R and S/O Multi-Currency file structures has been revamped. Please refer to the **Version 3.70 – Technical** subsection of this section for a detailed explanation.
2. Cash Receipt Credit Card Processing, new to version 3.70, has been enhanced to do foreign payments in Base Currency.
3. Statement Printing in Graphical Forms has been enhanced to have 2 new templates: Base Currency and Entry Currency
4. The VI Import programs have been modified to **automatically** create data entry in the Customer’s Default Entry Currency. Prior to 3.70, DSD Perform Logic needed to be added to the import’s Perform Section. This is no longer needed.

Version 3.70 - Technical

The pre-3.70 versions of Multi Currency A/R and S/O used a “piggyback” file system for the Multi-Currency Data.

For example, the AR4 Open Invoice file stored amounts in **Base Currency** and the AR_M4 Multi-Currency Open Invoice file stores the amounts in **Entry Currency**, along with the **Currency Code** and **Exchange Rate**.

The problems associated with this file structure are:

1. Problems arise in synchronization of the data files,
2. Increased I/O,
3. Difficulty in importing using Visual Integrator.

The 3.70 version of ARMC and SOMC no longer use this file structure, but instead store the data in the main MAS90 files (AR4 for example) in **Entry Currency**, and therefore the Multi-Currency piggyback files (AR_M4 for example) are no longer needed. The **Currency Code** and the **Exchange Rate** are also now stored in the main MAS90 files.

The only exception is the Customer Masterfile (AR1). The 3.70 version of Multi-Currency still uses the Multi-Currency Customer (AR_M1) piggyback file to store all historical data in the Customer's Historical Currency.

The benefits of this change are:

1. No more problems with synchronization,
2. Increase in speed,
3. Easier use of Visual Integrator,
4. Easier use and better speed for the SQL version of Multi-Currency.

The drawbacks of this change are:

1. If you have any existing Crystal Reports, Report Master Reports, or Visual Integrator Imports that use the old Multi-Currency piggyback files, you will have to change those reports/imports.

Please contact DSD Business Systems if you need any support regarding these drawbacks.

Version 3.71

1. A/R Multi-Currency is now SQL-compatible.

2. A new section has been added to the User Manual: Appendix A.

Section K: VI Imports

The VI Import programs have been modified to automatically create data entry in the Customer's Default Entry Currency. Prior to 3.70, DSD Perform Logic needed to be added to the import's Perform Section. This is no longer needed.

Appendix A: M*A*S 90/200 Program & File Changes

The following M*A*S 90/200 Programs are modified or added by A/R Multi-Currency:

ARWCAA	ARWFHA	ARWMAB	ARWRHB	ARWRUA.LIB
ARWCAB	ARWFHA.LIB	ARWMAC	ARWRIA	ARWRUB
ARWCBA	ARWFHB	ARWMNA	ARWRIA.LIB	ARWRZA
ARWCMC	ARWFRA	ARWMNA.LIB	ARWRIB	ARWSAA
ARWDAA	ARWFRA.LIB	ARWPAA	ARWRKA	ARWSAA.LIB
ARWDAA.LIB	ARWFRB	ARWQAA	ARWRKA.LIB	ARWSAC
ARWDAB	ARWFRC	ARWR10	ARWRKB	ARWSBA
ARWDAE	ARWFSA	ARWR10.LIB	ARWRMA	ARWSBA.LIB
ARWDAG	ARWFSA.LIB	ARWRAA	ARWRMA.LIB	ARWSGA
ARWDBA	ARWIAA	ARWRAA.LIB	ARWRMB	ARWSGA.LIB
ARWDBA.LIB	ARWIAA.LIB	ARWRAB	ARWRNA	ARWUAA
ARWDBB	ARWIAB	ARWRBA	ARWRNA.LIB	ARWUAB
ARWDBC	ARWIAC	ARWRBB	ARWRNB	ARWUBA
ARWDBD	ARWIAD	ARWRCA	ARWROA	ARWUDA
ARWDCA	ARWIBA	ARWRCA.LIB	ARWROA.LIB	ARWUZA
ARWDCA.LIB	ARWIBA.LIB	ARWRCB	ARWROB	ARWVIP
ARWDDA	ARWIBB	ARWRDA	ARWRQA	ARZCAA.MAR
ARWDDA.LIB	ARWIBC	ARWRDA.LIB	ARWRQA.LIB	ARZREM
ARWDEA	ARWJAA	ARWRDB	ARWRQB	ARZU1D
ARWDEA.LIB	ARWJAB	ARWREA	ARWRRA	ARZU1M
ARWDFA	ARWJAC	ARWREB	ARWRRA.LIB	ARZU1R
ARWDGA	ARWJAD	ARWRGA	ARWRRB	ARZU1S
ARWDHA	ARWJBA	ARWRGA.LIB	ARWRRC	
ARWFGA	ARWJDA	ARWRGB	ARWRSA	JCWJDA
ARWFGA.LIB	ARWMAA	ARWRHA	ARWRSA.LIB	JCWUDA
ARWFGB	ARWMAA.LIB	ARWRHA.LIB	ARWRUA	

The following M*A*S 90/200 Data Files are modified or added by A/R Multi-Currency:

AR0	AR7	ARJ	ARO	AR_M1
AR3	AR9	ARL	ARS	
AR4	ARA	ARN	AR_14	
AR6	ARB	ARNALE	AR_21	

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