



# Infor XA – Euro Currency Conversion Aid

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## To the reader

This guide is intended to explain euro currency local amounts conversion and how it applies to your XA environments. It is intended for XA users with one or more operations in a euro-participating country. For a more complete understanding of euro support, including functional enhancements to support trading partners in euro-participating countries, see the users guides for Cross Application Support, Customer Order Management, International Financial Management, Purchasing, Accounting Management Accounts Payable, and Accounting Management Accounts Receivable.

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## Before you begin

If you are not familiar with the System i (or previous products iSeries and AS/400 ), please complete the system education for the basic concepts of the server and its operating system.

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## What this book contains

Chapter 1 discusses the introduction of the euro in Europe, euro support provided in XA, and preparation you will need to make to convert to the euro.

Chapter 2 introduces the functions of the euro currency conversion aid and provides some detailed information you need to plan for and perform a conversion to euro.

Chapter 3 describes the steps used to install and run ECCA on your system.

Chapter 4 describes the reports generated by ECCA.

Appendix A contains file layouts for driver files used during the conversion.

Appendix B contains checklists you can use to plan and implement the conversion.

Appendix C contains a list of messages you may see during the conversion process. It also details the response you should make to the message.

Appendix D describes a technique you can use to prevent duplicate keys in COM.

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## Chapter 1. Introducing euro currency conversion

This chapter discusses the following:

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### Overview of euro currency support

As of January 1, 2002, the euro currency became effective and replaced the following European currencies:

- **ATS** Austria, Schilling
- **BEF** Belgium, Franc
- **DEM** Germany, Deutsche Mark
- **ESP** Spain, Peseta
- **FIM** Finland, Markka
- **FRF** France, Franc
- **GRD** Greece, Drachma
- **IEP** Ireland, Pound
- **ITL** Italy, Lira
- **LUF** Luxembourg, Franc
- **NLG** The Netherlands, Guilder (also called Florin)
- **PTE** Portugal, Escudo
- **VAL** Vatican City, Lira

For possible new EU members, the European Monetary Union (EMU) regulations provide for a *transition phase* during which the currencies are said to be *euro-participating*. During this time EMU regulations state that members can comply with governmental reporting requirements in either their national currency or in euros. Your company's employees have the right to be paid in your national currency and government payroll reports must be in that currency once the transition phase is over.

Ensure that your business is completely ready to convert to euros before you attempt this effort. Be aware, though, that the actual conversion process is lengthy, so do not wait to begin the planning process.

**Warning:** Convert all your systems, offline files, and spreadsheets at the same time. You risk contamination of your data if your conversion is incomplete.

**Warning:** These XA applications do not support the conversion of local currency amounts to euros:

- Accounting Management Accounts Payable
- Accounting Management Accounts Receivable
- Accounting Management General Ledger
- Financial Analysis
- Payroll

XA provides two types of assistance to help you deal with euro currency:

- Application functional enhancements: XA provides enhancements to help you manage trading currency amounts when your trading partners start doing business in euros in:
  - Customer Order Management (COM)

- Purchasing/Procurement Management (PUR/PM)
  - International Financial Management (IFM)
  - Accounting Management Accounts Payable (AP)
  - Accounting Management Accounts Receivable (AR).
- Local currency conversion tool: For companies within euro-participating countries, XA provides a tool to convert your local currency when your organization converts your books to euros. Use this tool only once.

The tool, the Euro Currency Conversion Aid (ECCA), is available to all XA Release 5 and later customers. Use the *Euro Currency Conversion Aid Guide* to help plan and implement your conversion efforts. ECCA converts the local currency values from a euro-participating currency to the euro in one or more of the following:

- Local currency values in a Infor environment
- IFM financial divisions in a Infor or non-Infor administrative division
- IFM cash books in a Infor or non-Infor administrative division.

XA provides these functions in support of euro conversion:

- The ability to:
  - Convert current currency through triangulation
  - Print alternate currencies on trading partner documents and reports
  - Toggle between currencies: local, trading, or an alternate
- Additional customer and vendor capabilities for multiple currencies
- Additional COM price book capabilities through offline load and euro price book generation
- Additional IFM capabilities for multiple currencies.

See the XA user’s guides for information about euro support for the following specific applications:

- Cross Application Support
- Customer Order Management
- International Financial Management
- Procurement Management
- Purchasing
- Accounting Management Accounts Payable
- Accounting Management Accounts Receivable.

This table shows how XA applications are affected by conversion to euro:

*Table 1-1. XA applications affected by euro*

<b>Application</b>	<b>Functional changes</b>	<b>Local conversion</b>
Accounting Management Accounts Payable	Yes	No
Accounting Management Accounts Receivable	Yes	No
Accounting Management General Ledger	No	No
Capacity Requirements Planning	No	No
Contract Accounting	No	Yes
Cross Application Support	Yes	No
Customer Order Management	Yes	Yes
EDI support (pre-EC)	Yes	No
Electronic Commerce	No	Yes

*Table 1-1. (Continued)XA applications affected by euro*

<b>Application</b>	<b>Functional changes</b>	<b>Local conversion</b>
Enterprise Product Data Management	No	Yes
Estimate and Quote Management	No	Yes
Executive Information System	Yes	Yes
Financial Analysis	No	No
Finite Capacity Planning/Scheduling	No	No
Forecasting	No	Yes
International Financial Management	Yes	Yes
InterSite Logistics	No	Yes
Inventory Management	No	Yes
Knowledge-Based Configurator	Yes	Yes
Maintenance Management System	No	No
Manufacturing Performance Analysis	No	Yes
Marketing Monitoring and Analysis	Yes	No
Master Production Schedule Planning	No	Yes
Material Requirements Planning	No	No
Materials Management	No	No
Multiple Environment InterSite Logistics	No	Yes
Order-Based Production Management	No	No
Payroll	No	No
PowerVision	No	No
Procurement Management	Yes	No
Production Control and Costing	No	Yes
Product Data Management	No	Yes
<i>PDMPlus</i>	No	No
Production Monitoring and Control	No	Yes
Purchasing	Yes	Yes
Repetitive Manufacturing	Yes	No
Sales Analysis	No	Yes
XA Browser	No	No

## **Application functional enhancements**

These functional enhancements are used by many XA applications:

- Alternate currency printing
- Toggle between currencies
- Support for financials, depending on which of the following is installed:
  - XA Accounting Management financials
  - XA IFM
  - Third-party financials
- Currency conversion routines
- Currency exchange rate overrides
- Trading partner reports.



## Alternate currency printing

Documents you send to your trading partners can be printed with the details in euro-participating currency or in euro. Where applicable, you can print the totals in both euro-participating currencies and euros. These include:

- Customer quotes
- Invoices
- Purchase orders
- Debit memos
- Shipping schedules
- Order acknowledgements
- Customer statements
- Delinquency notices
- Collection letters
- Audit confirmation letters.

## Toggle among currencies

With the introduction of the euro, your customers and vendors may convert to the euro at any point of time during the transition period. They may have orders, quotes, invoices, and so forth, denominated in both euro-participating currencies and the euro. The toggling enhancement modifies the current toggling function available in Infor. This function allows a users to view a euro-participating order, quote, invoice, and so forth, in euro and is intended to help you handle inquiries about the status of a trading partner's account.

## IFM installations

You can toggle between euro-participating amounts and the euro. Depending on the inquiry you use, if the ledger, entity, or transaction is denominated in a currency that is euro participating, the toggle to euro is available. The following inquiries are included:

- Online Business inquiry
- Personal Ledger inquiry
- Cashbook inquiry.

## Non-IFM installations

You can see the amounts of a transaction in up to three currencies: local, trading, and alternate. The alternate currency is available as an alternative to the trading currency when the trading currency is either euro or euro-participating. Toggling capabilities allow you to see amounts in all three currencies when they are different. This provides the ability to work with transactions in currencies other than the currency in which they were entered. This is especially useful during the euro transition period when transactions are sometimes viewed in the national currency and sometimes need to be looked at in the euro currency.

As an example, a payment is made in euros but the quote, contract, order, or invoice is denominated in a euro-participating currency. You can view the original transaction in euro even though it was entered in the national currency. You define the transaction's alternate currency as the euro in order to toggle.

Another example is one in which a euro-denominated order or invoice will be paid in a euro-participating currency. In this case, you define the alternate currency as the national currency and toggle from euro to the national currency.

The following XA applications use this feature:

- COM
- Purchasing/Procurement Management
- AP
- AR.

## **Euro support with Accounting Management financials installed**

A customer or vendor can only have one primary currency. You cannot change the currency ID for these customers and vendors. If a customer or vendor uses a euro-participating currency, you must create a new customer or vendor for the trading partner when the trading partner converts to euro. You can copy an existing customer or vendor record and change the currency to euro.

- **COM Customer Copy:** This function copies all default customer information such as ship-to and tax registration to the new customer number. It defines a reference between the newly created customer number and the old customer number. Use credit checking to account for the new customer number you created.
- **Purchasing Vendor Copy:** This function copies all default vendor information and, optionally, all vendor/items records. It also optionally updates the Item Master and Item Balance files with the new vendor number.

**Warning:** Accounting Management Accounts Payable and Accounting Management Accounts Receivable do not support the conversion of local currency amounts to euro.

## **Euro support with IFM installed**

### **Multiple currency vendors**

If you use IFM financial applications, you may change the currency ID in the vendor master file when the trading partner converts to euro. This currency ID will be the default when you enter quotes or orders. You may override the currency to any valid currency ID. Vendor totals in the vendor master file are converted from the old trading currency to the new trading currency as defined in the file. Throughout XA, the currency is no longer dictated by the currency ID of the customer or vendor; it is defined by either the transaction or the order record.

### **Multiple currency customers**

When IFM and COM are both installed, the IFM financial division is the same as a COM company. The customer number created in COM is a combination of an IFM entity and a two-digit suffix derived from the personal ledger defined for the customer.

You can define a personal ledger on the customer master file. This is the default on order entry. You can override the personal ledger on the customer master on order entry to any valid personal ledger. A personal account data record must exist for the personal ledger override.

### **Personal accounts**

Once you create personal ledgers for IFM accounts receivable and accounts payable for the euro in each financial division, you can “mass create” personal account records for each entity identified. The defaults from the personal ledger are used to create the personal accounts.

## Credit check

You can credit check IFM entities within a financial division. In COM, any customers within a COM company for the associated entity can be credit checked in the entity currency.

## IFM accounts receivable cash receipt

You may receive a cash payment that is different than the invoice amount because of rounding differences. Because these differences can have a major impact on IFM cash receipt processing, IFM supports both positive or negative adjustments to invoices to allow for efficient processing of cash receipts.

## IFM alternate currency automated payments

IFM can automatically generate payments using Payment List and Notes Collection Lists in a currency different from the invoice's transaction or cash book currency. You can:

- Enter an exchange rate override if either the payment currency or the financial division currency are non-euro participating.
- Use a payment currency different than the cash book or invoice currency. Payment lists are generated based on the selection criteria and the personal ledgers you select.
- Check to ensure valid exchange rates exist for a split payment list. In they exist, the payment currency is the same as the original payment list.

Payment list reports and lists identify the payment currency. Any gain or loss is based on the payment currency. The generic payment file records show the payment currency amounts.

## Euro support with third-party financials installed

If you use third-party financial applications, you may change the currency ID in the customer or vendor master file when the trading partner converts to euro. This currency ID will be the default when you enter quotes or orders. You may override the currency to any valid currency ID. Vendor totals in the vendor master file are converted from the old trading currency to the new trading currency as defined in the file. Throughout XA, the currency is no longer dictated by the currency ID of the customer or vendor; it is defined by either the transaction or the order record.

## Currency conversion routine

The Infor currency conversion routine supports the euro. After you establish any currency as euro participating, no direct exchange rate is recognized between a euro-participating currency and any currency other than euro. All currency conversions between euro-participating currencies and all other non-euro currencies are done via the euro in a process known as triangulation.

## Currency exchange rate override

Exchange rates between the euro and euro-participating currencies will be established. These exchange rates will be fixed and will not change throughout the transition period. When you set an exchange rate between the currency of the euro-

participating countries and the euro, you cannot change this rate, nor can you create a new effective exchange rate. All Infor orders or transactions ensure the exchange rate cannot be overridden between the euro and the euro-participating currency, and between two euro-participating currencies during:

- COM order entry
- Purchasing order entry
- IFM transaction processing.

## Trading partner reports

During the transition period, various reports can be printed in euro or the trading partner's currency. After the transition period, when all transactions are in euro, all reports and documents will only be available in euro. These reports are intended for analyzing trading partner performance and account status, and are not intended to be sent to your trading partners.

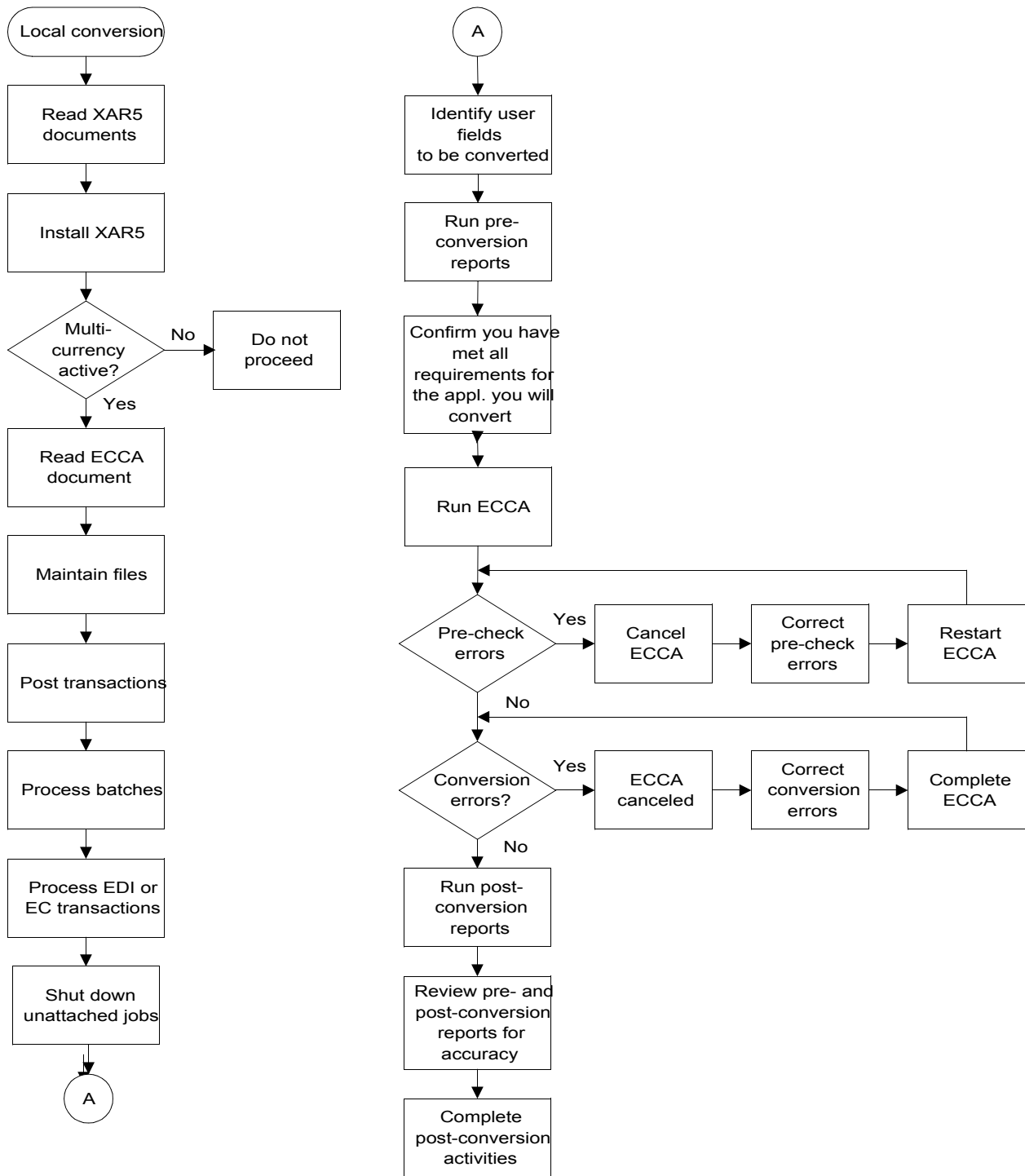
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## Process overview

This section outlines the steps you will take when you convert to euro. See Appendix B, "Implementing euro conversion checklist".

1. Plan and schedule your conversion. Install ECCA on your System i. Prepare to run your conversion. Use this chapter and Chapter 2, "Introducing the Euro Currency Conversion Aid" to identify what you must do before you convert an environment.
2. Start ECCA and interactively identify to ECCA the environment to convert and the type of conversion.
3. ECCA validates the environment ID. It ensures that XA Release 5 or later is installed, that the local currency is euro participating if you did not select an IFM-only conversion and if the local conversion is to be done, and that the euro currency has been defined.
4. ECCA runs pre-check programs to ensure that all identified requirements for conversion have been met. It prints a report that identifies any error conditions that you must correct before ECCA can run.
5. If no errors occur, ECCA shows you a confirmation display. If you select the Yes option, ECCA:
  - Backs up the required files, depending on the type of conversion
  - Converts the data you specified and produces a conversion report and rounding differences file. See Chapter 3, "Using the Euro Currency Conversion Aid" for more information.
6. If the conversion is interrupted, or if an error stops the conversion, ECCA identifies the error on the conversion report, and allows you to restart conversion from where ECCA stopped.
7. When the conversion completes successfully, ECCA backs up the required files again so you have a before- and after-backup so you can produce required audit reports.

The following flowchart documents the conversion process.



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## Plan for euro conversion

Develop a euro conversion project team. This team will gather information about the introduction of the euro and the associated legal requirements, determine the effects of the euro on your business, prepare a changeover strategy, and manage the implementation of the strategy. This team needs to know and understand:

- Euro regulations
- Your business and the software used by your business
- Design and development of information systems
- Technical aspects of your information systems
- Accounting.

## Decide if you are affected by the introduction of the euro

The introduction of the euro has an impact on all aspects of your business, including your corporate strategy, organizational structures, pricing and marketing strategies, manufacturing, and human resources.

You are affected by the euro introduction if you:

- Have any business operations in any euro-participating country, and these operations currently use the national currency of one of those countries. You will need to convert your local currency.
- Buy from suppliers that invoice you in the currency of any euro-participating country. You do not need to convert local currencies.
- Sell to customers and invoice them in the currency of any euro-participating country. You do not need to convert local currencies.
- Have IFM installed and have a financial division or cash book denominated in a euro-participating currency.

You may also be affected if you have any of the following denominated in a currency of a euro-participating country:

- Payroll
- Long-term or recurring contracts
- Bank accounts.

Modify or upgrade your systems to handle new currency conversion rules referred to as triangulation if you are in an EMU (European Monetary Union) country. With triangulation, there is no longer a direct conversion between euro-participating currencies and any currency other than euro. In other words, the initial amount expressed in your local currency must be first converted to euro, then the euro can be converted into the target currency. The intermediate result (the euro) may be rounded to not less than three decimals. From January 1999 forward, every enterprise system in Europe should have the ability to handle complex currency conversions, euro receipts and payments, and increased reporting functions.

## Who should use the euro currency conversion aid

If your XA environment uses a local currency that is euro participating, you should use the aid to convert your local currency fields in XA to Euro. With IFM installed, if you have a financial division or cash book denominated in a euro-participating currency,

you will need to convert it as well. These conversions may or not be made along with your other XA local currency conversion.

Conversion may take a significant amount of time, so you should convert at a time that minimizes the impact on your business.

## What will be converted during local currency conversion

Identify the systems and business processes that will be affected by conversion to the euro. All software applications that deal with currency will be affected. Identify any archived offline history files you may need to restore, or any backups you may need because once you have converted your data base, you will not be able to restore unconverted files back into it.

### Local currency fields

All local currency amount fields have been included in ECCA and will be automatically converted.

### User fields

Identify user fields in XA files that may also hold local currency amounts. You can convert them during local currency conversion. User fields are made available in the tool but are not set to be converted. Determine which user fields require conversion and then update ECCA to activate conversion of these fields. You can also use the user exits provided in ECCA if your user fields require more complicated recalculation.

### Financial divisions

If IFM is installed, each financial division can have its own currency. You can select specific financial divisions that require conversion. You can convert a financial division at any time before or after the local conversion. You need to convert any financial divisions denominated in a euro-participating currency if you are in a non-euro-participating country. You see the financial divisions available for conversion and you select one or more for conversion. You also see all euro-participating currencies. Before you convert it, you must post or cancel all transactions for the financial division you select.

You can include or exclude financial divisions from the conversion. The financial divisions you select are added to the Euro Fin Div Convert file (EUI01REP). If you exclude a financial division, it is deleted from the file. You must enter a Unit and Nature to be used to create a general ledger line for any transactions that have rounding differences. You should create a new nature to identify rounding differences on a general ledger inquiry.

### Cash books

You can select specific cash books within each financial division. You can convert a cash book at any time before or after the local conversion. You see the cash books in which the currency is euro participating that are available for conversion. Select one or more for conversion. Before you convert it, you must post or cancel all transactions for the cash book you select.

You can include or exclude cash books from the conversion. The cash books you select are added to the Euro Cash Book Convert (EUI2REP) file. If you exclude a cash book, it is deleted from the file.

If IFM is installed, review your relationship with your bank, and confirm your agreements. Determine with the bank the date in which conversion of accounts to euro is possible. Ask if the bank will charge you a conversion cost. Determine if the accounts in national currency will be offset, or if they will be considered separately for purposes of minimum balance and interest calculation.

Decide in advance if you want both euro and national currencies to flow through the same bank account. Determine the impact of this on your cash receipt, cash payment, and bank reconciliation processes.

Any tapes or files you receive from your bank as part of your bank reconciliation process should clearly indicate the currency of each transaction. You may want to segregate transactions with different currencies into distinct files so you can appropriately reconcile them.

### **Offline history**

Restore any archived offline history files if you want them to be included in the ECCA local conversion. Any offline history that is not restored will not be converted, and any unconverted history will not be able to be restored to the environment after local conversion has completed.

## **Who to involve in the conversion process**

Your euro team members must be able to apply their euro expertise to change the way your business operates today. You need these roles represented:

- A team leader to help develop and maintain a comprehensive change-over plan. This person will “drive” the schedule.
- A XA data base administrator and some programmers to help decide what and when to convert your local currency to euro. These people can help identify:
  - Lead time you will need to order, install, modify, and test the systems.
  - What will happen if you do not convert all applications at once, both XA and non-XA. Generally, your financial data base is contaminated if you update euro-converted files from applications, both internally and externally developed, that have not been modified to process using euro currency.

Be sure that you will not compromise any non-XA software applications so your financial system’s data integrity is maintained once you convert your XA data. Any modifications to non-XA software must be available immediately after the XA conversion and before you execute these software applications. Contact the firm that provided you with the software and request a copy of the software application that contains euro capabilities.

- Internally developed applications you will need to modify. You will need to modify these applications to integrate the currency ID and euro-participating code to allow the applications to compute the correct currency values. These modifications must be available immediately after the XA euro conversion and before you execute these Internally developed applications.
- How long conversion will take.



- A representative of the financial organization to help identify the potential costs to upgrade, modify, or replace your software applications. This person can help:
  - Identify a date when you need to make the changes to the systems.
  - Provide you with the latest requirements from tax authorities and accounting standards bodies.
- A representative from the organization team to help identify subsidiaries, parent organizations, or other off-site locations that will be affected by the conversion to euro.
- A representative from the training department to help identify education programs for management, end users, cash handlers, trading partners, and others.

## How to best utilize your system

ECCA requires that the XA environment you will convert be fully dedicated to conversion. The aid backs up your data base both before and after the conversion.

After you upgrade to XA Release 5 or later and before you run ECCA, confirm the accuracy of your data. Also, before you run ECCA, ensure that any non-XA programs work accurately with your Release 5 or later applications. Ensure that you have processed and/or purged all batches and transactions.

**Note:** Only after you are confident that Release 5 or later and all other applications are correctly running should you run ECCA.

Once you begin conversion, the environment is put in dedicated mode. You cannot process transactions during conversion.

The conversion process requires a significant amount of computer storage space (DASD). Because ECCA creates work files, each file is duplicated on the computer as it is converted. When ECCA successfully completes the conversion, it deletes the work files.

## How long conversion will take

The amount of time required to convert your local currency to euro depends on these factors. Your XA data base administrator will know the answers to these questions.

- How big is your XA data base? The larger the data base, the longer conversion process will take.
- What model System i do you have? The larger the model, the shorter the conversion process will take.
- Will the System i be dedicated to the conversion process? If it is dedicated to the conversion process, the conversion process will be shorter.
- Can someone attend the system while the conversion is running? If errors are found, this person can fix them and allow the conversion process to begin again. This leads to a shorter conversion time.
- Is there sufficient space on the system to convert it? The conversion process requires a significant amount of computer storage space (DASD). Because ECCA creates work files, each file is duplicated on the computer as it is converted. When ECCA successfully completes the conversion, it deletes the work files.

If you attempt to run ECCA on a server model AS/400, such as the Model 170, make sure nothing but ECCA is running on the system. Two time estimates are shown for server models. The lower estimate applies when the job is the only interactive job running on the system. The higher estimate applies when ECCA is not the only interactive job running on the system.

The following table shows estimated conversion times for variously sized data bases. The sizes are of the AMFLIBy and not the total disk capacity of the AS/400. This table does not show estimates for all AS/400 models. The estimates do not account for variations in disk configurations.

For models not defined in this chart, you must develop your own estimates. Use the chart to compare the CPW (Commercial Processing Workload) values and compare the size of your AMFLIBy to the sizes in this chart.

To estimate timings for AS/400 machines with multiple processors, divide the CPW value by the number of processors. ECCA runs only in one processor.

*Table 1-2. Estimated conversion times*

AS/400 Model	CPW	Time in hours		
		5.1 GB Data-base	0.7 GB Data-base	2.7 GB Data-base
600-2129	22.7	47.6	12.5	20.0
600-2134	32.5	33.2	8.6	14.0
600-2135	45.4	23.8	6.3	10.0
600-2136	73.1	14.8	3.9	6.2
620-2175	50.0	21.6	5.7	9.1
620-2179	85.6	12.5	3.3	5.3
620-2180	113.8	9.5	2.5	4.0
620-2181	210.0	5.1	1.4	2.2
620-2182	4645.3	4.6	1.2	2.0
170-2164	29.0/ 210.0	37.3/5.1	9.8/1.4	15.7/2.2
170-2183	67.0/ 319.0	16.1/3.4	4.2/0.9	6.8/1.4

**Notes:**

All times are estimated except for the model 620-2180.

## Chapter 2. Introducing the Euro Currency Conversion Aid

This version of the Euro Currency Conversion Aid (ECCA) works only on XA. You must install XA before you convert the local currency. Ensure your XA application environments are stable before you attempt to convert local currency.

ECCA is a tool that converts local currency amounts to the euro currency. It converts all the local currency fields for all supported XA applications in a specified environment. Applications are converted one at a time, and each file owned by the application is converted field by field. The conversion executes by processing driver files that define which fields in which files need to be converted. For each field, parameters define to ECCA how the field should be converted. It may be a straight conversion from the old local currency (in local amounts) to euro, or it may be a field that needs to be recalculated using a formula based on other converted fields. For example, a purchase order extended amount is recalculated by adding the line item amounts again after they have been converted.

Before ECCA actually starts the conversion process, it executes some pre-check programs that ensure your batches and transactions have been processed and that particular files are empty. It also performs a XA backup before and after the conversion.

ECCA:

- Backs up your XA data base before and after you convert the local currency to euros
- Identifies the local currency IDs in the XA environments you are converting
- Determines if the local currency is euro-participating
- Selectively performs conversion for IFM financial divisions and cash books, if IFM is installed
- Reports the results of the conversion:
  - Successful
  - Started but not yet complete
  - Not started
- Allows you to make corrections and start the conversion process again.

This chapter discusses the following:

Warnings .....	2-2
Before you start .....	2-3
Audit trail.....	2-7
Application requirements .....	2-7
After you convert .....	2-15

ECCA converts:

- Local currency fields to the euro currency in most XA applications in the environment you select. See Table 1-1, “XA applications affected by euro” for more information.

ECCA does not convert files in these applications:

- Accounting Management Accounts Payable
- Accounting Management Accounts Receivable
- Accounting Management Financial Analysis

- Accounting Management General Ledger
- Avantis Maintenance Management System/Approvals integration
- Payroll.
- Transaction trading currency IDs affected (IDs that are already euro or were equal to the local currency ID before the local currency conversion) and exchange rates stored in the transaction files
- All companies for the XA application environment you have selected.
- One or more IFM financial divisions or cash books in a euro-participating currency, if selected
- All members of files with multiple members
- User fields in XA files, if activated in the ECCA control files
- Archived history that you have restored to the environment before the conversion.

When all files in the environment successfully convert, ECCA updates the application status as complete. If any files fail to convert or ECCA is interrupted, ECCA uses the files in the work area to restore the data to the files that failed to convert so conversion can be restarted.

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## Warnings

### Changes to your data base

Once ECCA begins the conversion, it changes your data base. The only way to return to your original data is to restore the initial backup that ECCA created. Once you have converted your local currency to euro, you cannot use ECCA to return to your local currency.

### Pre-conversion archived history after conversion

Pre-conversion archived history data cannot be restored to a XA environment once you have converted to the euro. You can restore the data to another environment or you can restore the files outside of XA and process them using a query product.

### Storage space

The conversion process requires a significant amount of computer storage space (DASD). Because ECCA creates work files, each file is duplicated on the computer as it is converted. When ECCA successfully completes the conversion, it deletes the work files.

### Files processing during conversion

Once you begin the conversion process, the environment is dedicated to conversion. You cannot process any files during the conversion process.

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## Before you start

Read about multiple currency support in the *CAS User's Guide* for information about currency and exchange rate definitions.

Upgrade to XA. Confirm the accuracy of your installation, and then back up your files. Move the backup tape or disk to an offsite storage location for safekeeping. When you run this aid, you convert currency fields and affect your financial data base. After you upgrade to Release 5 or later, you must maintain currency files whether or not you plan to run the ECCA conversion tool.

Each application has unique requirements for checks you should make. See "Application requirements" for more information. In general, you must perform the following tasks before you start:

- Verify that multi-currency support is active in the XA environment.
- Ensure your local currency is a euro participating currency, unless you are performing an IFM-only conversion.
- Purge or process all offline load files.
- Maintain price books and item foreign prices so duplicate keys will not occur during conversion. See Appendix D, "Preventing duplicate keys" for more information.
- Process all data entry batches.
- Post or cancel any non-posted transactions.
- Process all EC files or EDI transactions.
- Shut down any UJOBS.
- Identify XA user fields you want to convert. Modify ECCA to recognize them. See "Convert user fields" for more information.
- ECCA checks all files in the XA applications in the environment you select. If you have failed to perform the preceding tasks, or if anything does not pass these checks, ECCA writes a message. When ECCA has completed the pre-checks, ECCA prints the messages on a report. The conversion does not start.
- Before you convert local currency and before each financial division conversion in IFM, copy the Budget Detail Import data (YAF7REP) into the Budget Detail file (YABSREP) and clear the Period Accrual Extract file (YAFFREP). See "International Financial Management" for more information.
- Identify any other user programs or files that you must modify or convert at the same time. See Chapter 1, "Introducing euro currency conversion" for more information.
- Restore any archived offline history files if you want them to be included in the ECCA local conversion. Any offline history that is not restored will not be converted. You will be unable to restore unconverted history to the environment after local conversion has completed.

## Maintain currency files

Read more about multiple currency support in the *CAS User's Guide* to understand how to maintain the files discussed in this section.

## XA installations without IFM

Do the following:

1. Create and identify euro currency IDs for each company. The euro currency you define will have a euro status of 2. This is the only acceptable ID for euro and must be the same for all companies.
2. Set the euro flag for the local currency to euro participating. The valid options are:
  - 3 Local currency, not euro, and not euro participating (for example, US dollars).
  - 4 Local currency, not euro, but euro participating (for example, French francs). Required to use ECCA for a local currency conversion.
  - 5 Local currency is euro currency.

A new record is added to the CURRID file that is identical to the current local currency, except that the currency ID is also defined. In order to use ECCA, the local currency euro flag must be 4.

3. Define euro-participating currencies. The default euro currency flag is 0 (zero). The valid options are:
  - 0 Non-euro participating (for example, US dollars)
  - 1 Euro participating (for example, French francs).
  - 2 Euro

Select an inactive date for each currency ID that will not exist after the transition period. It is planned that, at the end of the transition period, euro-participating currencies will be abolished. When this occurs, the only primary currency ID will be defined as euro (euro currency flag=2).

There can be only one euro flag per currency ID. For example, FFR in company 1 and FFR in company 2 must have the same euro flag. All secondary currencies must have the same euro flag as the primary currency. For example, if the French franc is the primary currency (FRF) and has a euro flag of 1, the secondary currencies, FR1 and FR2, must have a euro flag of 1.

4. Enter exchange rates. Exchange rate table maintenance allows you to enter exchange rates between:
  - Your local currency and the euro
  - Euro-participating currencies and the euro
  - Other currencies and the local currency.

If a currency is defined as euro participating, the exchange rate is between the euro-participating currency and the euro. If the currency is not euro-participating, or the euro and your local currency is not euro participating, this exchange rate is between that currency and the local currency. You must define the exchange rate between the local currency and the euro currency before you start ECCA.

## XA installations with IFM

Do the following:

1. Create a euro currency ID using Work With Currencies.
2. Add the euro currency to the XA exchange rate set using Work With Exchange Rate Sets.

3. Define local currency. If IFM is installed, the definition of the XA local currency does not change. The local currency is defined on the XA Exchange Rate Set using Currency Tables.
4. Define euro-participating currencies. Select option 12, Euro Status, using Work with Currencies in table maintenance. Create a record to define a date and euro-participant status. You cannot enter new exchange rates after the date in which a currency was established as a euro participant. The EURFLG file is updated if a local conversion is being done. Do not define a euro status for the euro currency.
5. Enter exchange rates between the euro-participating currencies and the euro currency. You must have defined the euro in the XA Exchange Rate Set first. These rates are fixed. Once the currencies have a euro status that identifies them as euro participating, you can enter no other exchange rates. Go to the next step.

## Shut down unattached jobs

Manually shut down unattached jobs. Do the following:

1. Use menu AMZM30.
2. Select option 12, Unattached Job Status.
3. Select option 5 and review the **Pending Transactions** field for each unattached job. If any exist, continue to the next step.
4. Review the unattached job status. Select option 1 to start any ENDED or ABEND-restartable jobs

and/or

Select option 6 to release any unattached jobs that have been placed on HELD status

and/or

Select option 4 to cancel or end the unattached job.

## Convert user fields

The ECCA driver files include all the user fields in XA files, but they are set with a condition code so they are not to be converted. Only you can determine which user fields are currencies that need to be converted. If the user field is a local currency field that must be converted to euro and needs no special processing, maintain the EURLOC file and change the **Condition Code** field (EDCNDCOD) from 7 to 0. See "EURLOC" on page A-4 for more information. Use DFU to make this change. If you need a more complex conversion of a user field, each application supplies a user exit by file, if appropriate. In that case, you must write your own program to convert your user-defined fields to euro.

### User exits

ECCA looks for these user exit programs for these XA files when it converts currencies, if they exist. You must write the user exit program.

Table 2-1. User Exits for XA files

<b>File</b>	<b>User Exit</b>
CUSMAS (Customer Master)	EUROIU1R
<b>COM</b> for User amount fields:	
MBABREP (Contract/Promotion Item)	EUROBU1R
MBBFREP (Customer)	EUROBU2R
SLDATA (Stock Location)	EUROBU3R
MBADREP (Release)	EUROBU4R
MBCDREP (Line Item)	EUROBU5R
MBC6REP (Quote/order header)	EUROBU6R
MBDDREP (Shipment Release)	EUROBU7R
<b>COM</b> for Attraction—pricing adjustments fields:	
MBABREP (Contract/Promotion Item— Promotion only)	EUROBUAR
MBBZREP (Item Base Price)	EUROBUBR
MBDJREP (Special Charge Master)	EUROBU CR
MBCRREP (Price Book Page 1 Detail)	EUROBUDR
MBCTCPP (Price Book Page 2A Detail)	EUROBUER
MBCWCPP (Price Book Page 3A Detail)	EUROBUFR

## What ECCA does not convert

Make arrangements to convert data in any files that ECCA does not convert.

- Accounting Management Accounts Payable, Accounting Management Accounts Receivable, Accounting Management General Ledger, Financial Analysis, and Payroll files.
- Avantis Maintenance Management System/Approvals Integration.
- Client maintenance history logs. These logs contain user-entered changes to maintainable fields in the client application.
- Data in batch files.
- EC transaction history.
- Offline archived history. You should restore any archived history to your working XA environment before you begin the conversion process if you want it converted. After you have completed conversion, if you want to remove the converted archived history, you must manually copy and remove it. You cannot re-archive converted archive history.

After the conversion, you may restore any unconverted archived history to a separate XA environment or outside of XA and query the data using a query product.

- Trading currency amounts for vendors or customers and IFM transactions.
- Spreadsheets and data from other applications. Most installations have non-XA programs and data files on their System i, PCs, and other systems. If you convert only your XAA data and do not simultaneously address your non-XA data, you may contaminate your XA database. To avoid this, you should:



- Convert all of your local currency data base amounts at the same time
- Simultaneously change the interface (specifically the currency conversion portion) between XA and the non-XA systems to convert the local currency amounts.
- Change your interface for your payroll system.
- Transactions that are not processed or posted.
- User fields, unless you change the condition code in the ECCA driver files or write your own user exit. See "Convert user fields" for details about this code.

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## Audit trail

ECCA does not produce an audit-trail report. ECCA initiates this backup before it begins the conversion process and after it completes the conversion process. It is critical that you keep both copies of the backup in order to check the accuracy and completeness of the conversion. Since each country's audit requirements differ, you can use the before-and after-backups to create localized audit reports. You can use these copies of the backups to create reports that provide a financial audit trail for your financial organizations and for government reporting. ECCA does not provide a detailed before-and-after listing of the values converted in each file.

The following list is a sample of some of the reports and inquiries you can use to verify your XA environment files before and after the conversion:

- Backlog Snapshot
- Cash Book Listing
- Cash Commitments Reports
- Customer Order Backlog
- Daily Recap
- IFM financial reports
- IFM general ledger listing
- PDM Management Cost Summary
- Stock status
- Trial Balance Ledger
- WIP Totals Worksheet.

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## Application requirements

As you run ECCA, it performs a set of pre-conversion checks to ensure that all required steps have been taken for the conversion you requested. If errors are found in any XA application, the conversion does not start. The Euro Pre-conversion Error/Warning Listing prints and lists all errors in files that must be corrected before conversion can start. See Appendix C, "Messages" for more information.

This section describes steps you must take either before you run ECCA or if the Euro Pre-conversion Error/Warning Listing indicates that corrections must be made. It contains information specific to each application converted by the aid. You should read the sections for the applications you have installed.

## XA Browser

No pre-checks occur.

## COM\_Net

The pre-check program checks to ensure that the following files are empty. Clear them by processing the records in the files.

File	Name
MBG8CW	Cnet-offline header file
MBG9CW	Cnet-offline item file

## Contract Accounting

The pre-check program checks to ensure that all transactions in the CA Intermediate file (CAINT) are processed into CA. If there are records in the CAINT file, resolve errors as you do at period end so the records can process.

## Customer Order Management

The pre-check program checks to ensure that:

- All transaction and work files are clear. Clear the files by processing the records.

You must clear these files:

File	Name
EDIKSA	Purchase Order Acknowledgement/Change Send Header
EDIINSA	Invoice Send Header
EDIKSC	EDI Purchase Order Acknowledgement Line Item
EDIKSF	EDI Purchase Order Acknowledgement Special Charge
EDIKSG	EDI Purchase Order Acknowledgement Tot
EDIINSC	EDI Invoice Send Line Item
EDIINSE	EDI Invoice Send Special Charges
EDIINSF	EDI Invoice Send Total
EDIINSG	EDI Invoice Surcharge
EDIPORA	EDI Purchase Order Receive Header
EDIPORC	EDI Receive Line Item
EDIPORF	EDI Purchase Order Receive Blanket Release
EDIPORG	EDI Purchase Order Receive Totals
INTRWU	Inventory Transaction
MBD8REP	Variable trade discount
MBG7CPP	Foreign price revaluation
MBG8CPP	Offline quote/order
MBG9CPP	Offline line item
MBHACPP	Offline non-inventory item
MBHBCPP	Offline order special charges
MBIACPP	Mass Price Change
MBIBCPP	Offline customer
MBICCPP	Offline ship to

File	Name
MBIDCPP	Offline contract header
MBIECPP	Offline contract item
MBIFCPP	Offline customer errors
MBIGCPP	Offline ship to errors
MBLTCPP	Offline foreign price
MBLKCPP	Offline item base price
MBL4CPP	Offline Price Book header version
MBLMCPP	Offline Price Book Page 1 detail
MBLNCPP	Offline Price Book Page 2A detail
MBLOCPP	Offline Price Book Page 2P detail
MBLPCPP	Offline Price Book Page 3A detail
MBLQCPP	Offline Price Book Page 3P detail
MBLRCPP	Offline Price Book Page 4 detail
MBLSCPP	Offline Price Book Page 5 detail
MBLLCPP	Offline Price Book header

- No records which may have duplicate keys when converted are found in the Price book files. See Appendix D, “Preventing duplicate keys” for more information. Maintain these files to ensure that records with the currency ID of EUR are different with regard to at least one of the following:
  - **Price book ID**
  - **Date effective**
  - **Item number**
  - **Customer price code** or **Page 1 effective date** (for Price Book page 1 Detail)
  - **Customer price code** or **Page 2A effective date** (for Price Book page 2A Detail)
  - **Page 3A break quantity** or **Page 3A effective date** (for Price Book page 3A Detail)
- No records which may have duplicate keys when converted are found in the Foreign Price file. See Appendix D, “Preventing duplicate keys” for more information. Maintain the file to ensure that records with a currency ID of EUR do not have the same **Item number** and **Price effective date**.
- The pre-check program checks for orders with euro or euro-participating currencies that have override exchange rates or dates. If such orders are found, the conversion continues but prints a warning on the Euro Pre-conversion Error/Warning Listing (EUERPFR) for each order. The override exchange rate or override exchange rate date on the order is set to zero during the conversion process.

## Electronic Commerce

ECCA does not convert records in the EC\* or EDI\* work files. Process or clear the files as follows:

- For send transaction sets, use EC menu AM4M10, option 2, Re-edit and Prepare Error Transactions for Send. Identify any send transaction sets in process or in error, and process them. The local conversion checks the following EC send transaction set header files:

File	Name
ECSSSA	Shipping Schedule Send Header (from Purchasing)
ECQTSA	Quote (Response) Send Header (from COM)
ECSHSA	Advance Shipping Notice Send Header (from COM)
ECRASA	Remittance/Payment Advice Send Header (from AP)
ECRASE	Remittance/Payment Advice Send Header (from IFM)

- For receive transaction sets passed to COM, you must clear the ECSSR\* (Shipping Schedule Receive) files if they are not empty.
- For receive transaction sets passed to Purchasing, work with any unprocessed EC quote responses and PO acknowledgement transaction sets to delete them. The local conversion checks the following EC receive transaction set header files:

ECRRRA	Quote (Response) Receive Header
ECAKRA	Acknowledgement/Change Receive Header

- For receive transaction sets for Accounts Receivable, EC normally deletes them after printing them on the Remittance Advice report. If you have not printed transaction sets, you must delete them from the EC receive transaction set files (ECRAR\*). The local conversion checks the Remittance/Payment Advice Receive Header (ECRARA).

## Enterprise Product Data Management

The pre-check program ensures that the CAD Interface translated file set (IFAENT, IFAFAM, IFAIPC, IFARTO, IFARVA, IFARVB, and IFARVC) does not contain data that should be loaded into permanent files.

## Estimating and Quote Management

No pre-checks occur.

## Executive Information System

No pre-checks occur, but for the local currency conversion to work, you must identify to ECCA which of your measurements are in currency, so it can convert them to euros.

In XA, a Euro Conversion Flag was added to the measurement master file. Use the Work with Measurements function, option 1 on the EIS Main Menu, to update the Euro Conversion Flag to a 1 in the measurement master record of the currency measurements.

## Forecasting

No pre-checks occur.

## International Financial Management

If your conversion is for XA installations with IFM installed, the pre-check program does local pre-checks, financial division pre-checks, and cash book pre-checks. If your conversion to euro is IFM only, ECCA checks the financial divisions and cash books. Use **F3=Exit** or **F9=Process** on the displays that appear. If you use **F9** after you select the financial division or cash book you want to convert, the pre-check program (EURO1REP) begins. If you use **F9** and did not select a financial division or cash book, ECCA checks only the local currency fields. If you use **F3**, ECCA ends.

Before you convert local currency and before you convert each financial division:

- Use menu AM5M47, option 5 to copy the Budget Detail Import data (YAF7REP) into the Budget Detail file (YABSREP) or clear the Budget Detail Import file.
- Use CLRPFM to clear the Period Accrual Extract file (YAFFREP).
- Create a new nature in order to post rounding differences. Add it as a valid Unit/Nature combination.

Convert local currency. These files are converted.

- UAT9REP (Interdivision transfer data)
- UAHMREP (Entity financial division balances)
- UAQEREP (Exchange rate set SMS)
- UASPREP (Book print history)
- UATICPP (Item tax class data)
- YAAFREP (Entity).
- Convert financial divisions. Because IFM can have financial divisions in different currencies, you can convert by financial division. Check each of these individually.
  - All euro-participating currencies appear on the display. You can include, exclude, any financial division that appears. Type in a Unit and Nature to be used to create a general ledger line for any transactions with rounding differences.
  - Use **F9=Process** to begin the conversion process of the selected financial divisions.
  - After you correct any errors and start ECCA again, the selection display appears again with all the financial divisions you previously selected. You can decide not to convert certain divisions and exclude them from the list. This process continues until no errors are found.

Only financial division amount fields are converted, not transaction amount fields.

- Convert cash books. Follow the same steps as you did when you converted the financial divisions.
- If transaction records contain a euro-participating currency and an amount in the **Override Exchange Rate** field, that amount is converted to a euro amount. A message appears warning you of this.

### Local currency

Ensure the following:

- All transactions for the default administrative division for user MAPICS (YAARREP) are posted or canceled.
- The exchange rate set SMS (UAQEREP) is as follows:

- The administrative division is the default from the user defaults file for user MAPICS.
- Exchange rate set ID is MAPICS
- The **Euro currency** field contains an active currency ID.
- An exchange rate exists between the local currency and the euro currency in the Exchange Rate (YABKREP) file.
- An exchange rate limit exists between local currency and euro currency in the Exchange rate limits (YABLREP) file.

## Financial divisions

Ensure the following:

- All transactions for the selected administrative division or financial division (YAARREP) are posted or canceled.
- An active currency is specified in the **Euro Currency ID** field on the XA exchange rate set.
- An exchange rate exists between the financial division currency and the euro currency in the Exchange Rate (YABKREP) file.
- An exchange rate limit exists between the financial division currency and the euro currency in the Exchange Rate Limits (YABLREP) file.
- If the Unit/Nature combination flag in the administrative division financial data file for the administrative division is 2 or 3, the Unit/Nature to which rounding differences will be posted:
  - Exists in the Unit/Nature Combination file
  - Is active
  - Allows posting
  - Belongs to the financial division you selected to convert.
- Unit and nature must be active and allow posting. Unit must belong to the financial division.
- The Budget Detail Import (YAF7REP) file is empty.
- The Period Accrual Extract file (YAFFREP) must be cleared.
- Every transaction currency in the transaction file (YAARREP) must have an exchange rate to the euro currency.

## Cash books

Ensure the following:

- All transactions for the selected cash book (YAARREP) are posted or canceled.
- An active currency is specified in the **Euro Currency ID** field on the XA exchange rate set.
- An exchange rate exists between the Cash book currency and the euro currency in the Exchange Rate (YABKREP) file.
- An exchange rate limit exists between the Cash book currency and the euro currency in the Exchange Rate Limits (YABLREP) file.

## InterSite Logistics

The Inventory Transaction file (XFTRTN) must be empty. Run the transaction register (Ship/Receive InterSite Orders menu, option 3) to process and clear it.

## Inventory Management

The pre-check program ensures that the control files (INTRNC and ORDATC) contain no unposted inventory transactions or manufacturing orders.

**Warning:** If you pass miscellaneous charges from any accounts payable application to IM, be aware that your accounts payable application is not converted using ECCA.

## Knowledge Based Configurator

No pre-checks occur.

## Manufacturing Performance Analysis

No pre-checks occur.

## Master Production Schedule Planning

No pre-checks occur.

## Multiple-environment InterSite Logistics

The Interplant Transfer Send Trigger (XFRTR1) file and the Interplant Transfer Receive Trigger (XFRTR2) files must be empty. If records exist in either file, start the unattached jobs in all MISL environments. Process the records in those files in all MISL environments.

## Procurement Management

No pre-checks occur. Ensure all unattached jobs are shut down. See “Shut down unattached jobs” for more information.

## Product Data Management

The pre-check program ensures that the routing maintenances batches in PDM (RTMNTC) have been posted.

## Production Control and Costing

ECCA does not convert records in the PC&C Order Release data entry batches (PCORD\* files). Use the Order Release menu AMCM30 to ensure no open order release batches exist.

**Warning:** If you pass rates and hours to a payroll application, be aware that your payroll application is not converted using ECCA.

## Production Monitoring and Control

ECCA does not convert records in the Transaction Log (TRNLOG). Ensure no open transactions (status 00 or 80) exist.

Transactions from offline/data collection systems may have to be collected in the offline systems during the running of the local currency conversion. As part of your conversion plan/schedule, you must designate a cutover time before which transactions will be processed in the local currency and after which they will be processed in euros. Transactions after this cutover time may be entered/received in the offline systems while the conversion is running, but they will not be received/processed into XA until the conversion is complete.

At the scheduled cutover time, use the Unattached Job Status (option 12 from CAS menu AMZM30), and end unattached job AMVNA—MPOI receive communication, to stop receiving records from offline systems. Then ensure that unattached jobs AMVNB—MPOI send communication, and AMJ30—MPOI transaction update control, are active, to process all open send or receive transactions in the TRNLOG file. You can use option 1 on PM&C menu AMJM70 to print the Transaction Log. Select only the records from status 00 to 80 to ensure that no open transactions exist in the file. If open transactions exist that are no longer needed, you can clear TRNLOG using the CLRPFM command. See “Shut down unattached jobs” for more information.

**Warning:** If you pass rates and hours to a payroll application, be aware that your payroll application is not converted using ECCA.

## Purchasing

Ensure the Payables Work Batch Control file (PAYWRC) does not contain unprocessed data.

ECCA clears all EDI files. If existing data is found, the file is automatically cleared and no error message appears on the pre-check error log. Conversion continues.

File	Name
EDIPOSG	EDI Purchase Order Send—Header
EDIPCSC	EDI Purchase Order Change Send—Item Detail
EDIPCSF	EDI Purchase Order Change Send—Blanket Item
EDIPCSA	EDI Purchase Order Change Send—Summary
EDIPOSG	EDI Purchase Order Send —Comments
EDIPOSC	EDI Purchase Order Send—Item Detail
EDIPOSF	EDI Purchase Order Send—Blanket Line
EDIPCSA	EDI Purchase Order Change Send Header
EDIRQSA	EDI EC Quote Send—Header
EDIRQSC	EDI EC Quote Send—Detail

## Repetitive Production Management

The pre-check program ensures that the transaction batches in REP (RPTRNC) have been posted.



## Sales Analysis

No pre-checks occur.

---

## After you convert

This section details activities you should perform after you convert your local currency.

## Store backups

After you have completed all the conversion activities, including those documented in this section, store your backups in a safe place.

## Make decisions about rounding currency amounts

Make decisions about how your company wants to balance accounts when the ECCA conversion causes rounding discrepancies. The basic rules documented in *Council Regulation (EC) 1103/97* are that amounts can be rounded up or down to the nearest cent. If the conversion results in an amount exactly halfway between two subunits, the amount should be rounded up.

The European Commission (EC) has concluded that amounts that must be paid should be rounded to the nearest cent, while amounts to be accounted for may be held with more than two decimals. Rounding to the nearest cent, in all cases, is the largest rounding inaccuracy that is legal. For further information about rounding, see *The introduction of the euro and the Rounding of currency amounts*, 11/717/97-EN-Final, published by the European Commission.

XA applications produce these files to list rounding differences:

- IFM** Euro Rounding Differences file (EUI02REP) to list all rounding differences between the sum of the general ledger lines and the converted general ledger summary total to euro
- COM** Euro Rounding file (EUB1CPP) to list rounding differences between extended and converted amounts in the Invoice Header file (MBF9REP).
- IM** ECCA-Rounding file (EURRPF) to list rounding differences between summary and converted costs for manufacturing orders and history.

## Convert other files and programs

You may need to convert your own files and programs once the conversion is complete. Additionally, you may need to change these files because of Release 6 or later changes. See the appropriate XA application user guide.

### Maintenance Management System/Approvals Integration

If you have integrated XA to Maintenance Management System or Approvals Integration, you must run the local conversion process provided by Marcam Solutions, Inc. Consider the following:

- A separate conversion process exists for the MMS/APPR files. See the instructions provided by Marcam Solutions, Inc., for more details about this process.
- You should synchronize the MMS/APPR conversion and the XA conversions to minimize the risk of a data mismatch. Try to run one conversion right after the other.
- Run the end-of-day process in MMS/APPR before you start the conversion process.
- You cannot change the currency of a vendor with XA and with MMS/APPR interfacing. If a vendor starts doing business in euro, you must establish it as a new vendor number.
- The new purchase order fields of **Alternate Currency** and **Print in Alternate** can be used in purchase orders sent from MMS; however, the fields are not recognized elsewhere in MMS.
- Keep in mind that ECCA does not convert Accounting Management Accounts Payable files.

## Perform post-conversion tasks in specific applications

### Cross application support

**Euro trading records.** If you have trading partners that were already doing business in the euro, these transactions were changed to local or blank. Normally, you would enter the currency ID as blank on future orders. Since the old euro trading records still exist in the currency file, you can type the euro currency ID. To prevent this, enter an inactive date in each of these records.

**Old local trading records.** If you have trading partners that are still doing business in your old local currency, enter currency records for all companies for the old local currency.

### Executive Information System

Run the nightly System i job to update the EIS list files before you view the EIS list file data on the client. This should prevent inconsistencies between the calculated point and the list file data. If the EIS Client is set to receive data from the System i (in other words, the database location is set to System i Database on the Setup Panel), you can view the data immediately after the nightly job runs.

If the EIS Client is set to receive data from the local database (in other words, the database location is set to Local Database on the Setup Panel), you must first calculate the data after the EIS nightly job runs. When you press the **Calculate** button, the Extract Options Panel appears. Set the Trend Options to **Refresh All** and check the **Extract Lists** checkbox. Then run the calculation program.

### International Financial Management

Rerun your extracts and analyses to ensure they are current. Create a withholding method for the euro currency ID. Set the flag to show currency symbols by updating the **Currency symbol option** field in the Value Format (YAEEREP) file.

## Product Data Management/Enterprise Product Data Management

After you have converted your PDM files, you should check for rounding errors in the costing files.

**Costing.** The euro local conversion for cost elements found in these files and tables may cause minor rounding issues. The conversion does not perform a full cost generation. You may need to run a full cost run for either or both the Current and Standard costs. You should review the Costing Process found in the *Product Data Management User's Guide* for more information. You need to specifically understand the information about your company cost policies regarding Standard and Current cost roll-up procedures.

The following files are affected:

- Item Master-B or Item Revision-B file
- Routing or Routing Operations file
- Work Center or Production Facility file
- Labor/Overhead table
- Purchase Overhead table.

---

## Chapter 3. Using the Euro Currency Conversion Aid

This chapter tells you how to install ECCA, how to run ECCA, and how to remove ECCA once you have completed converting your local currencies. It also shows you the displays associated with the Euro Currency Conversion Aid.

Install ECCA .....	3-1
Run ECCA .....	3-1
After you run ECCA .....	3-15

---

### Install ECCA

To install ECCA, do the following:

1. Sign on to the System i with a profile with authority to all XA files.
2. To load the ECCA library to your system, use a Release 6 or later PCM or install tape that contains the ECCA library. If you do not have a PCM or install tape, you may download the library using the SNDPTFMAPS request for SH13113 or download it from the Infor Global Support web site. To load the library, type:

```
RSTLIB ECCA DEV(tape or CD device name)
```

Press **Enter**.

---

### Before you run ECCA

Before you run ECCA, complete all tasks that are documented in "Before you start" on page 2-3. You can use Appendix B, "Implementing euro conversion checklist" to confirm you have completed the tasks.

---

### Run ECCA

To start the Euro Currency Conversion Aid, type **ECCA/CNVEURO** on a System i command line. Display **EUROCVD1** appears.

## EUROCVD1

This display appears at the beginning of ECCA processing.

```
Date **/**/**          Euro Currency
Conversion            EUROCVD1

Environment designator of data files to be converted:      A2
NOTE: This must be a XA environment at a level
of Version 02, Release 06
IFM only conversion (0-No, 1=Yes)                          n

F4=Prompt   F12=Cancel
```

### What to do

Type in the environment designator and press **Enter**, or use **F12** to cancel the process.

### Function keys

F4=Prompt shows you the environment selection display.

F12=Cancel cancels the conversion process.

### Fields

**Environment designator of data files to be converted.** Required. Type in a valid XA environment. If the XA environment designator you type in is not at Version 2, Release 6 or later of XA, a message appears. If the system cannot be put in dedicated mode, a message appears. The local currency for this environment must be a euro-participating currency if this is not an IFM-only conversion.

**IFM only conversion.** Type in **1** to begin an IFM-only conversion, or **0** to perform a full XA conversion. If IFM is installed, display EU101DFR appears. Do not type a 1 in this field if IFM is not installed. If IFM is not installed, this field defaults to 0.

## EUROCVD2

This display appears after you press **Enter** on EUROCV1 if no pre-check processing errors were found.

```
Date **/**/**          Euro Currency
Conversion              EUROCV2
```

```
The XAR5 environment ** local currency field values
will be replaced with Euro currency values.
```

```
Do you want to continue? n    1=Yes, 0=No
```

### What to do

Type **1** to continue; type **0** to return to EUROCV1.

### Fields

***Do you want to continue?*** To continue the euro currency conversion process, type in **1**. Display EUROCV6 appears. If you type in **0**, display EUROCV1 appears.

## EUROCVD3

This display appears after you press **Enter** on EUROCV1 and the aid found errors in the pre-conversion checks.

```
Date **/**/**      Euro Currency
Conversion          EUROCVD3
```

An error condition has been detected on at least one of the applications that will be converted to euro. Please check the Euro Pre-conversion Error/Warning Listing to determine the cause of the error and correct the errors as needed. After all corrections have been completed, start the Euro currency conversion aid again.

Press ENTER to cancel.

### What to do

Press **Enter** to cancel the conversion process.

### Fields

No fields are associated with this display.

## EUROCVD4

This display appears after the environment backup is complete.

```
Date **/**/**          Euro Currency
Conversion              EUROCVD4
```

Local currency conversion is in process.

NOTE: This may take some time.

### What to do

Wait until currency conversion is complete.

### Fields

No fields are associated with this display.



## EUROCVDS5

This display appears after you previously attempted to run the currency conversion and were not successful and you restarted ECCA.

```
Date **/**/**          Euro Currency
Conversion              EUROCVDS5

A previous attempt to run the local conversion process
was unsuccessful. You have selected to restart the
local conversion process now. The assumption, should
you continue, is that you have reviewed the Euro Currency
Conversion Report and have corrected any problems in
the files. If during the previous attempt the system lost
power or could not complete for any other reason, the
Conversion Report may not have printed. In this case,
press Enter to have the conversion complete the
conversion process.

Press ENTER to continue. Use F12 to cancel.

F12=Cancel
```

### What to do

- Press **Enter** to continue conversion from the point at which conversion stopped.
- Use **F12** to cancel the conversion routine.

### Function keys

F12=Cancel cancels the conversion routine.

### Fields

No fields are associated with this display.

## EUROCVD6

This display appears after you type in **1** on display EUROCV2.

```
Date **/**/**      Euro Currency
Conversion          EUROCV6

          ***** WARNING *****

The XAR5 environment ** currency field values are about to be changed.
Your files must be backed up prior to the currency conversion for audit
purposes. Select the method you would like to use to back up your files.

          Do you want to back up your files to tape or disk? n 1-Disk, 2=Tape

F12=Cancel
```

### What to do

- Type **1** to back up your files to disk.
- Type **2** to back up your files to a tape.

### Function keys

F12=Cancel the job exits the euro currency conversion.

### Fields

***Do you want to back up your files to tape or disk?*** Type **1** to back up your files to disk. Type **2** to back up your files to tape. Depending on your response, the normal CAS backup displays appear for tape or disk.

## EUROCVD7

This display appears at the end of the euro currency conversion process.

```
Date **/**/**      Euro Currency
Conversion          EUROCV7

          ***** WARNING *****

The XAR5 environment ** currency field values have been changed.
Your files must be backed up after the currency conversion for audit
purposes. Select the method you would like to use to back up your
files.

          Do you want to back up your files to tape or Disk? _ 1-Disk, 2=Tape

F12=Cancel
```

### What to do

- Type **1** to back up your files to disk.
- Type **2** to back up your files to a tape.

### Function keys

F12=Cancel exits the euro currency conversion.

### Fields

***Do you want to back up your files to tape or disk?*** Type **1** to back up your files to disk. The Disk backup displays appear. Type **2** to back up your files to tape. The Tape backup displays appear.

## EUROCVD8

This display appears when ECCA has finished processing if conversion unsuccessfully completed.

```
Date **/**/**      Euro Currency
Conversion          EUROCVD8
```

```
An error condition has been detected on at least
one of the applications that is being converted to
Euro. Please check the Euro Currency Conversion
Report to determine the application and file that
caused the error, and correct the problem as needed.
After all corrections have been completed, start the
Euro currency conversion aid again.
```

```
Press ENTER.
```

### What to do

Press **Enter** to end ECCA processing.

### Fields

No fields are associated with this display.

## EUROCVD9

This display appears when ECCA has finished processing if conversion was successful.

```
Date **/**/**      Euro Currency
Conversion          EUROCV9
```

```
The Euro currency conversion aid has completed the
conversion of all applications successfully.
Keep the environment before- and after-conversion
backups for audit purposes. Validate that your
converted data is correct prior to starting
production processing. Remove the ECCA
library from your system.
```

```
Press ENTER.
```

### What to do

Press **Enter** to end ECCA processing.

### Fields

No fields are associated with this display.

## EUI01DFR—Euro Select Financial Divisions to Convert

This display appears if IFM is installed. Use this display to select the financial divisions to convert to euro. Only the active financial divisions appear. All currencies that are euro participating appear.

```

Date **/**/**      Euro Select Financial Divisions to
Convert            EUI01DFR
Position to:
  Admin division . . . . aaaaaaaA10
  Financial division . . aaaaaaaA10

                                           Conversion type: *****

Type options, press Enter.
1=Include/Exclude   5=-Display

Opt  Admin div  Fin div  Unit      Nature      Currid
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****
A    *****  *****  aaaaaaaA10 aaaaaaaA10 ****

F3=Exit   F4=Prompt   F9=Process   F11=Included/all
    
```

### What to do

Type in an option in the **Opt** field and press **Enter**.

### Function keys

F3=Exit returns you to the EUROCVDD1 display.

F4=Prompt shows you a list of the **Unit** and **Nature** fields available to you.

F9=Process continues the conversion process. The Euro Select Cash Books to Convert (EUI02DFR) display appears.

F11=Included/all allows you to select only the financial divisions you selected if all financial divisions appear on the display, or to select all financial divisions if only the financial divisions you selected appear on the display.

## Fields

[?] appears next to a field name in the following field definitions to identify a field from which you can begin a master file search.

### **Position to:**

- **Admin div (Administrative division).** Type in the ID of the first administrative division you want to see.
- **Financial division.** Type in the ID of the first financial division you want to see.

**Conversion type.** Indicates if this is a local conversion or a financial division conversion.

**Opt.** Type in **1** to include a financial division for euro conversion, or, if the division has already been selected, type in **1** to exclude the division. Type in **5** to see more information about the selected financial division.

**Admin div (Administrative division).** The overall business or enterprise that contains the financial division whose currency you want to convert to euro.

**Fin div (Financial division).** The company within the administrative division whose currency you want to convert to euro.

**Unit [?].** Required. Type in the unit to which to post general ledger line rounding discrepancies.

**Nature [?].** Required. Type in the nature to which to post general ledger line rounding discrepancies.

**Currid (Currency ID).** The currency ID for the financial division.

## EUI02DFR—Euro Select Cash Books to Convert

This display appears if IFM is installed and you used **F9=Process** on the Euro Select Financial Divisions to Convert (EUI01DFR) display. Use this display to select the cash books to convert to euro. All currencies that are euro participating appear.

```

Date **/**/**          Euro Select Cash Books to Convert          EUI02DFR

Position to:
Admin division . . . . aaaaaaaA10
Financial division . . aaaaaaaA10
Cash book. . . . . . . aaaaaaaA10
Select:
Currid. . . . . . . . aaaaaaaA10

Type options, press Enter.
1=Include/Exclude    5=-Display

Opt  Admin div  Fin div  Cash book  Cash book description  Currid
A    *****  *****  *****  *****  *****  ****
A    *****  *****  *****  *****  *****  ****
A    *****  *****  *****  *****  *****  ****
A    *****  *****  *****  *****  *****  ****
A    *****  *****  *****  *****  *****  ****
A    *****  *****  *****  *****  *****  ****
A    *****  *****  *****  *****  *****  ****
A    *****  *****  *****  *****  *****  ****

F3=Exit    F9=Process    F11=Included/All
    
```

### What to do

Type in an option in the **Opt** field and press **Enter**.

### Function keys

F3=Exit returns you to the EUROCDV1 display.

F9=Process continues the conversion process. If an error exists, display EUROCDV3 appears and the Euro Pre-conversion Error/Warning Listing (EUERPFR) prints. Otherwise, the conversion routine continues and the EUROCDV2 display appears to let you determine if you want to continue.

F11=Included/all allows you to select only the cash books you selected if all cash books appear on the display, or to select all cash books if only the cash books you selected appear on the display.



## Fields

[?] appears next to a field name in the following field definitions to identify a field from which you can begin a master file search.

### **Position to:.**

**Admin div (Administrative division).** Type in the ID of the first administrative division you want to see.

**Financial division.** Type in the ID of the first financial division you want to see.

**Cash book.** Type in the ID of the first cash book you want to see.

### **Select.**

**Currid.** Type in the currency ID you want to see.

**Opt.** Type in **1** to include a cash book for euro conversion, or, if the cash book has already been selected, type in **1** to exclude the cash book. Type in **5** to see more information about the selected cash book.

**Admin div (Administrative division).** The overall business or enterprise that contains the cash book whose currency you want to convert to euro.

**Fin div (Financial division).** The company within the administrative division that contains the cash book whose currency you want to convert to euro.

**Cash book.** The cash book within the administrative division and financial division whose currency you want to convert to euro.

**Cash book description.** The name of the cash book.

**Currid (Currency ID).** The currency ID for the cash book.

---

## After you run ECCA

After you run ECCA, complete all tasks that are documented in “After you convert” on page 2-15.

---

## Remove ECCA

Remove the ECCA library after you have converted all your environments. You will not need this library again. Type this command on a System i command line:

```
DLTLIB ECCA
```

---

## Chapter 4. Reports

This chapter describes the reports associated with ECCA and shows you sample report images.

*Table 4-1. Euro conversion reports*

Euro Pre-conversion Error/Warning Listing	EUERPFR 4-1
Euro Currency Conversion Report	EUROCVF 4-2

---

### EUERPFR—Euro Pre-conversion Error/Warning Listing

---

Program id: EUERPFR  
User ID : \*\*\*\*\*

EURO Pre-conversion Error/Warning Listing

Date: \*\*/\*\*/\*\* Page 01  
Time: \*\*:\*.\*\*\*

Inventory Management

- (E) ECCA1001 - Records exist in Order Release Batch Control file (ORDATC)
- (E) ECCA1002 - Records exist in Inventory Transaction Batch Control (INTRNC)

End of Inventory Management

---

This report prints if ECCA found errors when it pre-checked the files. If the pre-check encountered no errors, the report prints “No Pre-check errors found—{Application} OK for conversion.”

If errors are found, a line prints for each file that contains an error. It shows the application name, the file name, and a message. See Appendix C for detailed information about these messages.

---

## EUROCVP—Euro Currency Conversion Report

---

Date \*\*/\*\*/\*\*

Euro Currency Conversion Report

EUROCVP

The conversion was unsuccessful for: Inventory management

File in error: INVTXN

THE CONVERSION WAS SUCCESSFUL FOR ALL OTHER INSTALLED APPLICATIONS

---

This report prints after the currency conversion process is complete. Use this report to identify any problem areas.

A separate line prints for each application that does not successfully complete the conversion process. See Appendix C for a list of the messages that can appear on this report and what steps you should take to resolve the errors. Then restart ECCA.

At the end of the report, a single summary line prints to confirm successful conversion of all other applications. If all of the applications successfully converted, no detail lines appear and the summary line states that the conversion was successful for all applications.

The following are some of what you should check if a file did not convert:

A lock on the file by some external program that makes it unavailable to be converted by ECCA.

Bad data in one or more of the currency fields that are being converted.

All nines (9) in a currency field. This could create a value too large to fit in the result field after conversion, depending on the conversion exchange rate.

### Fields

**The conversion was unsuccessful for:.** The name of the application that did not successfully convert.

**File in error:.** The name of the file which was being converted when the conversion was stopped for that application.

## Appendix A. Using ECCA values and files

Use the information in this appendix to understand files and values that are used with ECCA.

### Condition code values

User fields are conditioned with a value of 7 in the **EDCNDCOD** field in the EURLOC file. To active the conversion of the value in the user field, change the 7 to a 0. This causes the value in the user field to be converted to a euro amount.

Value	Field1 value	Field2 value	Action
0			No condition
1			Test for field value not equal to 0
2	Field name	Value	Test Field1 field value equal to Field2 value
3	Field name	Value	Test Field1 field value not equal to Field2 value
4	Field name	Field name	Test Field1 field value not equal to Field2 field value
5	Field name	Field name	Test Field1 field value not equal to Field2 field value
6	Application ID		Test app in Field1 for successful completion of Euro conversion
7			user field—Do not convert
8			Test for not IFM only conversion
9	Field name		Test value in Field1 field for a Euro participating currency
10	Field name		Test value in Field1 field for a Euro non-participating currency
11			Test that the program named in EDEXTPGM exists
12	Field name		Test value in Field1 field for equal to the Euro currency ID
13	field name		Test value in Field1 field for not equal to the Euro currency ID
14	Application ID		Test app in Field1 for installed
15	File name	File name	Back up related files named in Field1 and Field2 at the same time as the file named in EDFILNAM. This will only be used in the control driver file.
16	Application ID		Test app in Field1 for not installed

---

## Conversion code values

Value	Field1 value	Field2 value	Action
0			Base conversion
1	Field name (optional)	Field name (optional)	Call program and pass field values
2			process Formula code
3			Change field value to euro currency ID
4			Change field value to local currency IC
5	Field name		Change field value to Field1 field value
6	Value		Change field value to Field1 value
7			Change field value to blank
8			Change field value to 0 (zero)
9			Trading currency ID conversion
10	Field name	Field name (optional)	Exchange rate conversion
11	Field name		Currency description conversion

---

## Formula code values

Value	Field1 value	Field2 value	Action
0			No formula
1	Field name	Field name	Multiple Field1 field value by Field2 field value
2	Field name	Field name	Divide Field1 field value by Field2 field value
3	Field name	Field name	Add Field1 field value to Field2 field value
4	Field name	Field name	Subtract Field2 field value from Field1 field value
5	Field name	Value	Multiply field1 field value by Field2 value
6	Field name	Value	Divide Field1 field value by Field2 value
7	Field name	Value	Add Field1 field value to Field2 value
8	Field name	Value	Subtract Field2 value from Field1 field value

---

## Application IDs

Application ID	Application name
1	Estimating and Quote Management
2	Forecasting
4	Electronic Commerce
5	International Financial Management
6	Purchasing
7	Manufacturing Performance and Analysis
9	Contract Accounting
B	Customer Order Management
C	Production Control and Costing
D	Enterprise Product Data Management
E	Product Data Management
H	Knowledge-Based Configurator
I	Inventory Management
J	Production Monitoring and Control
L	Master Production Schedule Planning
N	Executive Information System
O	Marketing Monitoring and Analysis
Q	Repetitive Production Management
S	Sales Analysis
U	Procurement Management

---

## EURLCD—Euro local currency conversion control driver file

This file contains information about the files with local currency fields that are to be converted for an application. It contains the sequence in which the files are to be converted. It is used to drive the ECCA program EUROAPPC and is shipped in the ECCA library.

File format name	EURLCDR
File key	SEQNBR, FILNAM
Other/notes	Member name = EURLCDx where x is the application ID. See the introductory paragraphs for a list of these IDs.

Field name	Field text	Adds, changes, and other notes
EDSEQNBR	Sequence number	
EDFILNAM	File name	*BOA, *EOA are special values
EDCNDCOD	Condition code	
EDCNDFL1	Condition field 1	
EDCNDFL2	Condition field 2	

Field name	Field text	Adds, changes, and other notes
EDFMLFL2	Formula field 2	
EDEXTPGM	External program	
EDMLTMBR	Multiple members	

## File name special values (EDFILNAM)

Value	Action
*BOA	Perform the action before any files for the application are converted
*EOA	Perform the action after all files for the application have been converted

## EURLOC

This file contains information about the files and fields to be converted to euro for an application. It is used to drive the ECCA program EUROLOCR and is shipped in the ECCA library.

File format name	EURLOCR
File key	FILNAM, SEQNBR, FLDNAM
Other/notes	Member name = EURLOCx, where x is the application ID. See the introductory paragraphs for a list of these IDs.

Field name	Field text	Adds, changes, and other notes
EDFILNAM	File name	
EDSEQNBR	Sequence number	
EDFLDNAM	Field name	*BOF, *EOF, *BOR, *EOR are special values
EDCNDCOD	Condition code	
EDCNDFL1	Condition field 1	
EDCNDFL2	Condition field 2	
EDCNVCOD	Conversion code	
EDCNVFL1	Conversion field 1	
EDCNVFL2	Conversion field 2	
EDFMLCOD	Formula code	
EDFMLFL1	Formula field 1	
EDFMLFL2	Formula field 2	
EDEXTPGM	External program	
UPDDT	Record update date	
UPDTM	Record update time	



## Field name special values (EDFLDNAM)

<b>Value</b>	<b>Action</b>
*BOF	Perform the action before any records for the file are converted
*EOF	Perform the action after all records for the file have been converted
*BOR	Perform the action before any fields in the record have been converted
*EOR	Perform the action after all fields in the record have been converted

---

## Appendix B. Implementing euro conversion checklist

Use this checklist to ensure your XA data base is ready for the conversion.

- Read XA R6 or later documentation.
- Install XA R6 or later.
- Ensure multi-currency support is active in the environments you plan to convert.
- Read and understand this guide.
- Maintain files:
  - Currency
  - Price book
  - Foreign price.
- Post transactions.
- Process batches.
- Process EDI or EC transactions.
- Shut down unattached jobs.
- Identify user fields to be converted in ECCA driver files.
- Run pre-conversion reports.
- Confirm you have met all requirements for the applications you will convert.
- Run ECCA. If necessary, fix reported pre-check and conversion errors.
- Run post-conversion reports.
- Review the pre- and post-conversion reports for accuracy.
- Complete all post-conversion activities:
  - Store your backups
  - Convert other files and programs
  - Run EIS
  - Make appropriate changes to IFM
  - Make appropriate changes to PDM/EDPM
  - Run Costing.

## Appendix C. Messages

This chapter defines the messages that appear on the ECCA reports during the pre-check step.

### Euro Currency Conversion Aid

Table 0-1. Euro Currency Conversion Aid messages

Message number	Message	Response
<b>ECCA0001</b>	Environment not found.	The specified environment designator does not correspond to a XA environment. Select an environment designator for an established XA Release 6 or later environment.
<b>ECCA0002</b>	Environment designator must be entered.	You left the environment designator on this display blank. Select an environment designator for an established XA Release 6 or later environment.
<b>ECCA0003</b>	Environment is not at the correct release level.	The specified environment is not at XA Release 6 or later. Select an environment designator for an established XA Release 6 or later environment.
<b>ECCA0004</b>	Local currency is not flagged as being a euro-participating currency.	The local currency for the selected environment is not designated as euro participating. Either select another environment for which the local currency is participating, or establish the local currency for the selected environment as euro participating.
<b>ECCA0006</b>	Entry must be 0 or 1.	The IFM-only conversion selection is not 0 or 1. Type in 0 (zero) to convert all local currencies, or type in 1 (one) to convert only IFM financial division and cash books.
<b>ECCA0007</b>	Cannot go into dedicated mode.	The system is unable to establish dedicated mode at this time. Relieve impediments to establishing dedicated mode and start ECCA again.
<b>ECCA0008</b>	Entry must be 1 or 2.	The backup to tape or disk selection is incorrect. Type in 1 (one) to back up files to disk, or type in 2 (two) to back up files to tape.
<b>ECCA0009</b>	Euro currency not set up correctly.	Either the local currency's non-blank currency ID has not been established or no trading currency has been established as the euro. Ensure the local currency has been established as euro participating and that the currency ID has been set. Also ensure that at least one trading currency has been established as the euro.
<b>ECCA0010</b>	Local currency is already the euro currency.	The local currency has been previously defined as euro. Local currency cannot be converted for the selected environment, presumably because it has already been done. either select another environment that requires local currency conversion or correct the local currency to one that must be converted. Start ECCA again.

## Contract Accounting

Table 0-2. Contract Accounting messages

Message number	Message	Response
<b>ECCA0100</b>	No pre-check errors found—CA OK for conversion.	No action required.
<b>(E) ECCA0101</b>	Records exist in the CA Intermediate File (CAINT).	Resolve any errors as you do at period end.

## COM\_Net

Table 0-3. COM\_NET messages

Message number	Message	Response
<b>ECCA2300</b>	No pre-check errors found—COM_Net OK for conversion.	No action required.
<b>(E) ECCA2301</b>	Records exist in the Cnet-offline header file (MBG8CW).	Use option 2 on the Order Entry menu (AMBM110) to process any offline orders in process or in error.
<b>(E) ECCA2302</b>	Records exist in the Cnet-offline item file (MBG9CW).	Use option 2 on the Order Entry menu (AMBM110) to process any offline orders in process or in error.

## Customer Order Management

Table 0-4. Customer Order Management messages

Message number	Message	Response
<b>ECCA0300</b>	No pre-check errors found—COM OK for conversion.	No action required.
<b>(E) ECCA0301</b>	Records exist in the EDI PO Acknowledgment header file (EDIKSA).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0302</b>	Records exist in the EDI Invoice Send Header file (EDIINSA).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0303</b>	Records exist in the EDI PO Ack Line Item File (EDIKSC).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0304</b>	Records exist in the EDI PO ACK Special Charge file (EDIKSF).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.

Table 0-4. Customer Order Management messages

<b>Message number</b>	<b>Message</b>	<b>Response</b>
<b>(E) ECCA0305</b>	Records exist in the EDI PO Acknowledgment Tot File (EDIKSG).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0306</b>	Records exist in the EDI Invoice Send Lin Itm file (EDIINSC).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0307</b>	Records exist in the EDI Invoice Send Spec Chg file (EDIINSE).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0308</b>	Records exist in the EDI Invoice Send Total File (EDIINSF).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0309</b>	Records exist in the EDI Invoice Surcharge File (EDIINSG).	Use option 2 on the Electronic Commerce Send Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0310</b>	Records exist in the EDI PO Receive Header file (EDIPORA).	Use option 3 on the Electronic Commerce Receive Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0311</b>	Records exist in the EDI Receive Line Item file (EDIPORC)	Use option 3 on the Electronic Commerce Receive Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0312</b>	Records exist in the EDI PO Receive Bikt Rlse file (EDIPORF).	Use option 3 on the Electronic Commerce Receive Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0313</b>	Records exist in the EDI PO Receive Totals file (EDIPORG).	Use option 3 on the Electronic Commerce Receive Transactions menu (AM4M10) to process any transaction sets in process or in error.
<b>(E) ECCA0314</b>	Records exist in the Offline Quote/ Order Hdr file (MBG8CPP).	Use option 2 on the Order Entry menu (AMBM110) to process any offline orders in process or in error.
<b>(E) ECCA0315</b>	Records exist in the Offline ship to file (MBICCPP).	Use option 6 on the CAS Load Data from Offline Files menu (AMZM81) to process any offline records in process or in error.
<b>(E) ECCA0316</b>	Records exist in the Offline Line Item file (MBG9CPP).	Use option 2 on the Order Entry menu (AMBM10) to process any offline orders in process or in error.
<b>(E) ECCA0317</b>	Records exist in the Offline Non Invent Item File (MBHACPP).	Use option 2 on the Order Entry menu (AMBM10) to process any offline orders in process or in error.
<b>(E) ECCA0318</b>	Records exist in the Offline Order Spec Charge file (MBHBCPP).	Use option 2 on the Order Entry menu (AMBM10) to process any offline orders in process or in error.
<b>(E) ECCA0319</b>	Records exist in the Offline Customer file (MBIBCPP).	Use option 12 on the CAS Load Data from Offline Files menu (AMZM80) to process any offline records in process or in error.
<b>(E) ECCA0320</b>	Records exist in the Offline Contract Item file (MBIECPP).	Use option 3 on the Offline Pricing menu (AMBM6E) to process any offline orders in process or in error.
<b>(E) ECCA0321</b>	Records exist in the Offline Contract Header file (MBIDCPP).	Use option 3 on the Offline Pricing menu (AMBM6E) to process any offline orders in process or in error.

Table 0-4. Customer Order Management messages

Message number	Message	Response
(E) ECCA0322	Records exist in the Offline Customer Errors file (MBIFCPP).	Use option 12 on the CAS Load Data from Offline Files menu (AMZM80) to process any offline orders in process or in error.
(E) ECCA0323	Records exist in the Offline Ship to Errors file (MBIGCPP).	Use option 6 on the CAS Load Data from Offline Files menu (AMZM81) to process any offline records in process or in error.
(E) ECCA0324	Records exist in the Offline Foreign Price file (MBLTCPP).	Use option 4 on the Offline Pricing menu (AMBM6E) to process any offline records in process or in error.
(E) ECCA0325	Records exist in the Offline Item Base Price File (MBLKCPP).	Use option 1 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0326	Records exist in the Offline Prc Bk Hdr Ver file (MBL4CPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0327	Records exist in the Offline Prc Bk Hdr Pg1 Dtl file (MBLMCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0328	Records exist in the Offline Prc Bk Pg 2A Dtl file (MBLNCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0329	Records exist in the Offline Prc Bk Pg 2P Dtl file (MBLOCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0330	Records exist in the Offline Prc Bk Pg 3A Dtl file (MBLPCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0331	Records exist in the Offline Prc Bk Pg 3P Dtl file (MBLQCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0332	Records exist in the Offline Prc Bk Pg 4 Dtl file (MBLRCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0333	Records exist in the Offline Prc Bk Pg 5 Dtl file (MBLSCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0334	Records exist in the Offline prc Bk Hdr file (MBLLCPP).	Use option 2 on the offline Pricing menu (AM6M6E) to process any offline records in process or in error.
(E) ECCA0335	Records exist in the Variable Trade Discount file (MBD8REP).	Use option 12 on the Pricing Maintenance menu (AMBM63) to delete any variable trade discounts.
(E) ECCA0336	Records exist in the Mass Price Change file (MBIACPP).	Use option 6 on the Pricing Maintenance menu (AMBM63) to process the records.
(E) ECCA0337	Records exist in the Foreign Price Revaluation file (MBG7CPP).	Use option 8 on the Pricing Maintenance menu (AMBM63) to process the records.
(E) ECCA0338	Records exist in the Inventory Transaction file (INTRWU).	Use option 9 on the Pick/Pack/Ship Orders menu (AMBM1B) to print the Transaction Register.
(E) ECCA0339	Potential duplicate price book records in [xx] Page [xx].	Records for the indicated price book page will produce duplicate keys when converted. This only occurs for records with currency ID equal to the euro currency ID and only when multiple records exist with all except <b>Company number</b> key fields identical. Use option 2 on the Pricing Maintenance menu (AMBM63) to maintain the price books.

Table 0-4. Customer Order Management messages

Message number	Message	Response
(E) ECCA0340	Potential duplicate Item Base price records exist for [xx] in the Foreign Price file (MBBPREP).	Records for the item in the Foreign Price file will produce duplicate keys when converted. This only happens for records with the currency ID equal to the Euro currency ID, and only when more than one record exists with identical information for all key fields except Company number. Use option 7 on the Pricing Maintenance menu (AMBM63) to maintain foreign prices. See "Customer Order Management" for more information.
(W) ECCA0341	Override exchange rate date is [xx] for [xx].	An open order that has a euro or euro-participating trading currency has a non-zero override exchange rate date. No action required. The exchange rate date will be set to zero during local conversion.
(W) ECCA0342	Override exchange rate is [xx] for [xx].	An open order that has a euro or euro-participating trading currency has a non-zero override exchange rate. No action required. The exchange rate will be set to zero during local conversion.

## Electronic Commerce

Table 0-5. Electronic Commerce messages

Message number	Message	Response
ECCA0400	No pre-check errors found—EC OK for conversion.	No action required.
(E) ECCA0401	Records exist in the EDI Acknowledgement/Change Receive file (EDI AKRA).	Use CLRPFM to clear the ECAKR* files.
(E) ECCA0402	Records exist in the EDI Quote Send file (ECQ TSA).	Use menu AM4M10, option 2 to process any transaction sets in process or in error.
(E) ECCA0403	Records exist in the EDI Remittance Receive file (ECRARA).	Use CLRPFM to clear the ECRAR* files.
(E) ECCA0404	Records exist in the EDI Remittance Send file (ECRASA).	Use menu AM4M10, option 2 to process any transaction sets in process or in error.
(E) ECCA0405	Records exist in the EDI Remittance Send IFM file (ECRASE).	Use menu AM4M10, option 2 to process any transaction sets in process or in error.
(E) ECCA0408	Records exist in the EDI Response to Quote Receive file (ECRRRA).	Use menu AM6M90, option 2, then option 8, to work with any unprocessed EC quote responses and PO acknowledgment sets, or delete them.
(E) ECCA0410	Records exist in the EDI Shipping Notice Send file (EC SHSA).	Use menu AM4M10, option 2 to process any transaction sets in process or in error.

Table 0-5. Electronic Commerce messages

Message number	Message	Response
(E) ECCA0411	Records exist in the EDI Shipping Schedule Receive file (ECSSRA).	Use CLRPFM command to clear the ECSSR* files.
(E) ECCA0412	Records exist in the EDI Shipping Schedule Send file (ECSSSA).	Use menu AM4M10, option 2 to process any transaction sets in process or in error.

## Enterprise Product Data Management

Table 0-6. Enterprise Product Data Management messages

Message number	Message	Response
ECCA0600	No pre-check errors found—EPDM OK for conversion.	No action required.
(E) ECCA0601	Records exist in the EPDM Item Enterprise Offline File (IFAENT).	Remove the records from the file. Use option 2 on the EPDM CAD Interface menu to work with translated files. If the files have not been loaded to the data base, select option 2, Edit and load. Then select option 4, Delete.
(E) ECCA0602	Records exist in the EPDM Facility Master Offline file (IFAFAM).	Remove the records from the file. Use option 2 on the EPDM CAD Interface menu to work with translated files. If the files have not been loaded to the data base, select option 2, Edit and load. Then select option 4, Delete.
(E) ECCA0603	Records exist in the EPDM Item Process Offline file (IFAIPC).	Remove the records from the file. Use option 2 on the EPDM CAD Interface menu to work with translated files. If the files have not been loaded to the data base, select option 2, Edit and load. Then select option 4, Delete.
(E) ECCA0604	Records exist in the EPDM Routing Offline file (IFARTO).	Remove the records from the file. Use option 2 on the EPDM CAD Interface menu to work with translated files. If the files have not been loaded to the data base, select option 2, Edit and load. Then select option 4, Delete.
(E) ECCA0605	Records exist in the EPDM Item Revision 'A' Offline file (IFARVA).	Remove the records from the file. Use option 2 on the EPDM CAD Interface menu to work with translated files. If the files have not been loaded to the data base, select option 2, Edit and load. Then select option 4, Delete.
(E) ECCA0606	Records exist in the EPDM Item Revision 'B' Offline file (IFARVB).	Remove the records from the file. Use option 2 on the EPDM CAD Interface menu to work with translated files. If the files have not been loaded to the data base, select option 2, Edit and load. Then select option 4, Delete.
(E) ECCA0607	Records exist in the EPDM Item Revision 'C' Offline file (IFARVC).	Remove the records from the file. Use option 2 on the EPDM CAD Interface menu to work with translated files. If the files have not been loaded to the data base, select option 2, Edit and load. Then select option 4, Delete.



## International Financial Management

Table 0-7. International Financial Management messages

Message number	Message	Response
(E) ECCA0901	Transaction [x] not posted or cancelled for Admin div [x], Fin div [x], Ledger [x]	Review the transaction for the defined Administrative Division, Financial Division, Ledger ID, and transaction number. Process the transaction again or cancel.
(E) ECCA0902	Euro currency in XA Exchange rate set for default Admin div [x] was not found or is not active.	Add euro currency to exchange rate set for XA and ensure it is active.
(E) ECCA0903	Exchange rate from Local cur [x] to Euro cur [x] not found in XA exchange rate set.	Add a valid exchange rate from local currency to euro currency for the XA exchange rate set.
(E) ECCA0904	Budget detail import (YAF7REP) has not been imported and copied. Copy to Budget detail (YABSREP) or clear.	Copy budget detail import data to Budget detail or clear. See the <i>IFM User's Guide</i> , Chapter 6, Option 1: Work with Budgets
(E) ECCA0905	Exchange rate from Fin div [x] cur to Euro cur [x] not found in XA exchange rate set.	Add a valid exchange rate from financial division currency to euro currency for the XA exchange rate set.
(E) ECCA0906	Exchange rate limit from Fin div [x] cur to Euro cur [x] not found in XA exchange rate set.	Add exchange rate limit for financial division currency to euro currency for the XA exchange rate set.
(E) ECCA0907	Unit [x] and Nature [x] combination not found.	Add unit and nature combination. See <i>IFM User's Guide</i> , Chapter 8, Option 6: Work with Unit/Nature combinations.
(E) ECCA0908	Unit [x] not active.	Change unit status to active or select another unit.
(E) ECCA0909	Unit [x] does not allow posting.	Change unit so you can post to it, or select another unit to which you can post.
(E) ECCA0910	Unit [x] belongs to a different Fin div.	The selected unit does not belong to the selected financial division. Select another unit that belongs to the selected financial division.
(E) ECCA0911	Nature [x] not active.	Change nature status to active or select another nature.
(E) ECCA0912	Nature [x] does not allow posting.	Change nature so you can post to it, or select another nature to which you can post.
(E) ECCA0913	Exchange rate from Cash book [x] cur [x] to euro cur record not found in XA exchange rate set.	Add a valid exchange rate from cash book currency to euro currency for the XA exchange rate set.
(E) ECCA0914	Exchange rate limits from Cash book [x] cur [x] to euro cur record not found in XA exchange rate set.	Add exchange rate limit for cash book currency to euro currency for the XA exchange rate set.
ECCA0915	No pre-check errors found for selected Cash book [x].	No action required.
(E) ECCA0916	Exchange rate limit from Local cur [x] to Euro cur [x] not found in XA exchange rate set.	Add exchange rate limit for local currency to euro currency for the XA exchange rate set.

Table 0-7. International Financial Management messages

<b>Message number</b>	<b>Message</b>	<b>Response</b>
ECCA0917	No pre-check errors found for Local cur [x].	No action required.
ECCA0918	No pre-check errors found for selected fin divisions.	No action required.
(E) ECCA0919	Euro cur in XA Exchange rate set for selected Admin div [x] was not found or is not active.	Add euro currency to exchange rate set for XA.
(E) ECCA0920	Period accrual extract (YAFFREP) file contains data. Use CLRPFM command to clear.	Use CLRPFM command to clear the file.
(W) ECCA0921	Existing override exchange rates between Euro participating currencies will be derived to a Euro amount.	No action required.
(E) ECCA0922	Transaction [xx] has unposted allocations for Admin div [x], Fin div [x], Ledger [x].	Post the allocations for the selected transaction.

## InterSite Logistics

Table 0-8. InterSite Logistics messages

<b>Message number</b>	<b>Message</b>	<b>Response</b>
ECCA1100	No pre-check errors found—ISL OK for conversion.	No action required.
(E) ECCA1101	Records exist in the Inventory Transaction Work file (XFRTRN).	Run the transaction register (Ship/Receive InterSite Orders menu, option 3) to process and clear the Inventory Transaction file (XFRTRN).

## Inventory Management

Table 0-9. Inventory Management messages

<b>Message number</b>	<b>Message</b>	<b>Response</b>
ECCA1000	No pre-check errors found—IM OK for conversion.	No action required.
(E) ECCA1001	Records exist in the Order Release Batch Control file (ORDATC).	Open order release batches exist. Review and process these batches using the Order Release menu.
(E) ECCA1002	Records exist in the Inventory Transaction Batch Control file (INTRNC).	Run the transaction register to process all batches or delete any batches you do not require.

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## Multi-environment InterSite Logistics

Table 0-10. Multi-environment InterSite Logistics messages

Message number	Message	Response
ECCA1300	No pre-check errors found—MISL OK for conversion.	No action required.
(E) ECCA1301	Records exist in the Transfer Send Trigger file (XFRTR1).	Start the MISL unattached jobs in all environments that run MISL to process the records.
(E) ECCA1302	Records exist in the Transfer Receive Trigger file (XFRTR2).	Start the MISL unattached jobs in all environments that run MISL to process the records.

---

## Purchasing

Table 0-11. Purchasing messages

Message number	Message	Response
ECCA2000	No pre-check errors found—PUR OK for conversion.	No action required.
(E) ECCA2001	Records exist in the Payables Work Batch Header file (PAYWRC).	Open payable batches exist and need to be processed. Process the batches using Payables Processing. You can delete or close the batches, or update the master files.

---

## Production Control and Costing

Table 0-12. Production Control and Costing messages

Message number	Message	Response
ECCA1700	No pre-check errors found—PC&C OK for conversion.	No action required.
(E) ECCA1701	Records exist in the Error Recovery Work Control file (ERORSC).	Open error batches exist and need to be processed. Process these batches using the Shop Activity Update menu to edit and copy the error transactions to an available SHPACT file batch. Process this batch before you begin the conversion process again.
(E) ECCA1702	Records exist in the Shop Activity Update Control (SHPATC) file.	Open shop activity batches exist. Review and process these batches using the Shop Activity Update menu.
(E) ECCA1703	Records exist in the PC&C Order Release Data Entry Control file (PCORDC).	Open order release batches exist. Review and process these batches using the Order Release menu.

## Product Data Management

Table 0-13. Product Data Management messages

Message number	Message	Response
ECCA1800	No pre-check errors found—PDM OK for conversion.	No action required.
(E) ECCA1801	Records exist in the Routing Maintenance Batch Control File (RTMNTC).	Open routing maintenances batches exist. Use the PDM File Maintenance menu to review and process them. If EPDM is installed, use the EPDM Offline Maintenance Menu, option 2 7 and 8 to review and process them.

## Production Monitoring and Control

Table 0-14. Production Monitoring and Control messages

Message number	Message	Response
ECCA1900	No pre-check errors found—PM&C OK for conversion.	No action required.
(E) ECCA1901	Open transactions exist in the Transaction Log File (TRNLOG).	Open transactions exist in the transaction log file (TRNLOG). The transaction log file can be printed from option 1 on PM&C menu AMJM70. If the transactions are no longer needed, clear TRNLOG using the System i CLRPFM command. If the transactions are needed, start the following unattached jobs using option 12 on CAS menu AMZM30: AMVNB—MPOI send communication, and AMJ30—MPOI transaction update control.
(W) ECCA1902	Records exist in the Order Extract Tracking File (OEXTRC).	Open transactions exist in the order extract file. Remote applications could be affected because, after the conversion, any new records written to this file are in euro.

## Repetitive Production Management

Table 0-15. Repetitive Production Management messages

Message number	Message	Response
ECCA2100	No pre-check errors found—REP OK for conversion.	No action required.
(E) ECCA2101	Records exist in the Transaction Batch Control File (RPTRNC).	Open transaction batches exist. Use the REP Material Management menu to review and process them.

---

## Appendix D. Preventing duplicate keys

As part of local currency conversion, key fields in some COM files are changed. Changing the values in the key fields for these files means that some existing records in the files may give rise to duplicate keys when converted. For any group of records that would have the same key after conversion, only a single record can be converted. The remaining records must be deleted before the local conversion is run.

The examples on the following pages use the EURO currency ID of EUR.

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### Price Book Pages 1, 2A, and 3A Detail files

If the COM pre-check finds potential duplicate records in any of these files, the local conversion does not start and an error message is issued. Use option 2 on the COM Pricing Maintenance menu (AMBM63) to maintain the price book and delete the records with potential duplicate keys. To determine which records in a price book have the potential to create duplicate keys, you may use a query similar to the one documented here.

This sample query uses the Price Book Page 1 Detail file (MBCRREP). You can set up similar queries over the Price Book Page 2A Detail file (MBCTCPP) and the Price Book page 3A Detail file (MBCWCPP).

On the following display, select **Specify file selections**.

```
Define the Query
Query . . . . . : PAGE 1          Option . . . . . : CREATE
Library . . . . . : QGPL          CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt   Query Definition Option
 1    Specify file selections
      Define result fields
      Select and sequence fields
      Select records
      Select sort fields
      Select collating sequence
      Select report column formatting
      Select report summary functions
      Define report breaks
      Select output type and output form
      Specify processing options

F3=Exit      F5=Report      F12=Cancel
F13=Layout   F18=Files       F21=Select all
```

On the following display, type in the name of the library that contains file **MBCRREP** in the **Library** field.

```
Specify File Selections

Type choices, press Enter. Press F9 to specify an additional
file selection.

File . . . . . MBCRREP          Name, F4 for list
Library . . . . . AMFLIBy       Name, *LIBL, F4 for list
Member . . . . . *FIRST         Name, *FIRST, F4 for list
Format . . . . . *FIRST         Name, *FIRST, F4 for list

F3=Exit          F4=Prompt          F5=Report          F9=Add file
F12=Cancel       F13=Layout         F24=More keys
```

On the following display, select **Select records**.

```
Define the Query

Query . . . . . : PAGE_1          Option . . . . . : CREATE
Library . . . . : QGPL           CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt  Query Definition Option
    >Specify file selections
    Define result fields
    Select and sequence fields
1   Select records
    Select sort fields
    Select collating sequence
    Select report column formatting
    Select report summary functions
    Define report breaks
    Select output type and output form
    Specify processing options

F3=Exit          F5=Report          F12=Cancel
F13=Layout       F18=Files          F21=Select all
```

On the following display, you will select all records with a currency ID of EUR. Only records with a currency ID of EUR can produce duplicate keys during local conversion.

```

Select Records

Type comparisons, press Enter. Specify OR to start each new group.
Tests: EQ, NE, LE, GE, LT, GT, RANGE, LIST, LIKE, IS, ISNOT ...

AND/OR  Field          Test  Value (Field, Number, 'Characters', or ...)
        CRBRCD          EQ    'EUR'

                                                Bottom
Field          Text          Len  Dec
CRGPCD         Price book ID    5
CRFVNB         Date effective   7    0
CRAENB         Company number   2    0
CRBRCD         Currency ID      3
CRAITX         Item number     15

More...
F3=Exit          F5=Report        F9=Insert        F11=Display names only
F12=Cancel       F13=Layout       F20=Reorganize   F24=More keys
    
```

On the following display, select **Select sort fields**.

```

Define the Query

Query . . . . . : PAGE_1          Option . . . . . : CREATE
Library . . . . : QGPL           CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt  Query Definition Option
    >Specify file selections
    Define result fields
    Select and sequence fields
    >Select records
1   Select sort fields
    Select collating sequence
    Select report column formatting
    Select report summary functions
    Define report breaks
    Select output type and output form
    Specify processing options

F3=Exit          F5=Report        F12=Cancel
F13=Layout       F18=Files        F21=Select all
    
```

On the following display, sort by key fields other than **Company number** and **Currency ID**.

```

Select Sort Fields

Type sort priority (0-999) and A (Ascending) or D (Descending) for .
the names of up to 32 fields, press Enter.

Sort
Prty A/D  Field                Text                Len  Dec
  1      CRGPCD              Price book ID        5
  2      CRFVNB              Date effective       7    0
          CRAENB              Company number       2    0
          CRBRCD              Currency ID          3
  3      CRAITX              Item number          15
  4      CRF5CD              Customer price code  2
  5      CRAZDT              Page 1 effective date 7    0
          CRKBVA              Page 1 price         15   3
          CRALDT              Create date           6    0
          CRAFVN              Created by user       10
          CRAGVN              Created by program    10

F3=Exit          F5=Report        F9=Insert        F11=Display names only
F12=Cancel       F13=Layout       F20=Reorganize   F24=More keys
More...
    
```

On the following display, select **Define report breaks**.

```

Define the Query

Query . . . . . : PAGE_1          Option . . . . . : CREATE
Library . . . . : QGPL           CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt  Query Definition Option
    >Specify file selections
    Define result fields
    Select and sequence fields
    >Select records
    >Select sort fields
    Select collating sequence
    Select report column formatting
    Select report summary functions
  1  Define report breaks
    Select output type and output form
    Specify processing options

F3=Exit          F5=Report        F12=Cancel
F13=Layout       F18=Files        F21=Select all
    
```



On the following display, set a level break on key fields other than **Company number** and **Currency ID**.

```

Define Report Breaks

Type break level (1-6) for up to 9 field names, press Enter.
(Use as many fields as needed for each break level.)

Break  Sort
Level Prty
Field      Text                               Len  Dec
1         10  CRGPCD           Price book ID                5
1         20  CRFVNB           Date                          0
effective
1         30  CRAITX          Item number                  15
1         40  CRF5CD          Customer price code          2
1         50  CRAZDT          Page 1 effective date        2
number
          CRBRCD          Currency ID                   3
          CRKBVA          Page 1
price
          CRALDT          Create                        3
date
          CRAFVN          Created by user               10
          CRAGVN          Created by program            10

F3=Exit      F5=Report      F10=Process/previous  F11=Display names only
F12=Cancel   F13=Layout     F18=Files             F23=Long comment
More...
    
```

On the resulting report, records which will produce duplicate keys during local conversion are grouped together. Use option 2 on the Pricing Maintenance menu (AMBM63) to delete all but one record in each group.

Price book ID	Date effective	Company number	Currency ID	Item number	Customer price code	Page 1 effective date
@0012	990,101	1	EUR	ATI	30	990,101
@0013	990,101	1	EUR	ATI	30	990,101
@0014	990,101	1	EUR	ATI	30	990,101
ABC	990,101	1	EUR	ATI	30	990,101
ABC	990,101	2	EUR	ATI	30	990,101

---

## Foreign Price file

As part of local currency conversion, Foreign Price file (MBBPREP) records with a currency ID of EUR may be used to create new records in the Item Base Price file (MBBZREP). Since **Company number** and **Currency ID** are present as keys on the Foreign Price file but not on the Item Base Price file, there is potential for duplicate keys when the new Item Base Price records are created. If the COM pre-check finds potential duplicate records in the Foreign Price file, the local conversion does not start and an error message that identifies the item with potential duplicates appears. Use option 7 on the Pricing Maintenance menu (AMBM63) to delete the potential duplicates from the Foreign Price file. To determine which records in the Foreign Price file have the potential to create duplicate keys, a query similar to the following may be used.

On the following display, select **Specify file selections**.

```
Define the Query
Query . . . . . : FRGNPRC      Option . . . . . : CREATE
Library . . . . :   QGPL      CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt   Query Definition Option
1     Specify file selections
      Define result fields
      Select and sequence fields
      Select records
      Select sort fields
      Select collating sequence
      Select report column formatting
      Select report summary functions
      Define report breaks
      Select output type and output form
      Specify processing options

F3=Exit      F5=Report      F12=Cancel
F13=Layout   F18=Files       F21=Select all
```

On the following display, type in the name of the library that contains the **MBBPREP** file in the **Library** field.

```

Specify File Selections

Type choices, press Enter. Press F9 to specify an additional
file selection.

File . . . . . MBBPREP           Name, F4 for list
Library . . . . . AMFLIBy       Name, *LIBL, F4 for list
Member . . . . . *FIRST         Name, *FIRST, F4 for list
Format . . . . . *FIRST         Name, *FIRST, F4 for list

F3=Exit           F4=Prompt       F5=Report       F9=Add file
F12=Cancel        F13=Layout      F24=More keys
    
```

On the following display, select **Select records**.

```

Define the Query

Query . . . . . : FRGNPRC           Option . . . . . : CREATE
Library . . . . :   QGPL           CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt  Query Definition Option
    >Specify file selections
    Define result fields
    Select and sequence fields
1   Select records
    Select sort fields
    Select collating sequence
    Select report column formatting
    Select report summary functions
    Define report breaks
    Select output type and output form
    Specify processing options

F3=Exit           F5=Report       F12=Cancel
F13=Layout        F18=Files       F21=Select all
    
```

On the following display, you will select all records with a currency ID of EUR. Only records with a currency ID of EUR can produce duplicate keys during local conversion.

```

Select Records

Type comparisons, press Enter. Specify OR to start each new group.
Tests: EQ, NE, LE, GE, LT, GT, RANGE, LIST, LIKE, IS, ISNOT ...

AND/OR  Field          Test  Value (Field, Number, 'Characters', or ...)
        BPRBCD          EQ    'EUR'

                                                Bottom
Field          Text          Len  Dec
BPAITX         Item number    15
BPAENB         Company number  2   0
BPRBCD         Currency ID     3
BPBLDT         Price effective date 7   0
BPAMVA         Foreign currency price 15  3

More...
F3=Exit          F5=Report      F9=Insert      F11=Display names only
F12=Cancel       F13=Layout     F20=Reorganize F24=More keys
    
```

On the following display, select **Select sort fields**.

```

Define the Query

Query . . . . . : FRGNPRC          Option . . . . . : CREATE
Library . . . . :  QGPL           CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt  Query Definition Option
    >Specify file selections
    Define result fields
    Select and sequence fields
    >Select records
1   Select sort fields
    Select collating sequence
    Select report column formatting
    Select report summary functions
    Define report breaks
    Select output type and output form
    Specify processing options

F3=Exit          F5=Report      F12=Cancel
F13=Layout       F18=Files      F21=Select all
    
```

On the following display, sort by key fields other than **Company number** and **Currency ID**.

```

Select Sort Fields

Type sort priority (0-999) and A (Ascending) or D (Descending) for .
the names of up to 32 fields, press Enter.

Sort
Prty A/D  Field                Text                Len  Dec
  1        BPAITX              Item number         15
           BPAENB              Company number      2    0
           BPBRCD              Currency ID         3
  2        BPBLDT              Price effective date 7    0
           BPAMVA              Foreign currency price 15  3
           BPCQCD              U/M                2
date      BPALDT              Create              6    0
           BPABTM              Create time         10
           BPAFVN              Created by user     10
           BPAGVN              Created by program  10
           BPAMDT              Change date         7    0
           BPACTM              Change time         6    0

F3=Exit          F5=Report        F9=Insert        F11=Display names only
F12=Cancel       F13=Layout       F20=Reorganize   F24=More keys

More...

```

On the following display, select **Define report breaks**.

```

Define the Query

Query . . . . . : FRGNPRC          Option . . . . . : CREATE
Library . . . . :  QGPL           CCSID . . . . . : 65535

Type options, press Enter. Press F21 to select all.
1=Select

Opt  Query Definition Option
    >Specify file selections
    Define result fields
    Select and sequence fields
    >Select records
    >Select sort fields
    Select collating sequence
    Select report column formatting
    Select report summary functions
  1  Define report breaks
    Select output type and output form
    Specify processing options

F3=Exit          F5=Report        F12=Cancel
F13=Layout       F18=Files        F21=Select all

```

On the following display, set a level break on key fields other than **Company number** and **Currency ID**.

```

Define Report Breaks

Type break level (1-6) for up to 9 field names, press Enter.
(Use as many fields as needed for each break level.)

Break  Sort
Level Prty
Field  Text                Len  Dec
-----
1      10  BPAITX                Item number                15
1      20  BPBLDT                Price effective
date                        7      0
0      0    BPAENB                Company number                2
0      0    BPBRCD                Currency ID                  3
0      0    BPAMVA                Foreign currency
price                       15    3
0      0    BPCQCD                U/M
date                        2      0    BPALDT                Create
0      0    6      0
0      0    BPABTM                Create time                10
0      0    BPAFVN                Created by user             10
0      0    BPAGVN                Created by program          10
0      0    BPAMDT                Change date                 7
0      0    BFPCTM                Change
time                       6      0
    
```

On the resulting report, records which will produce duplicate keys during local conversion are grouped together. Use option 7 on the Pricing Maintenance menu (AMBM63) to delete all but one record in each group.

Item number	Price effective date	Company number	Currency ID
ATI	990,101	1	EUR
CLUBS	990,101	1	EUR
CLUBS	990,101	2	EUR

## Glossary

This glossary defines terms that are important for this application. It does not include all XA terms nor all terms established for your system. If you do not find the term you are looking for, refer to the Index in this book or to glossaries in other XA publications.

This glossary includes definitions from:

- *The American National Dictionary for Information Processing Systems*, copyright 1982 by the Computer and Business Equipment Manufacturers Association (CBEMA). Copies may be purchased from the American National Standards Institute, 1430 Broadway, New York, New York 10018. Definitions are identified by symbol (A) after definition.
- *The ISO Vocabulary – Information Processing and the ISO Vocabulary – Office Machines*, developed by the International Organization for Standardization, Technical Committee 97, Subcommittee 1. Definitions of published sections of the vocabulary are identified by symbol (I) after definition; definitions from draft international standards draft proposals, and working papers in development by the ISO/TC97/SC1 vocabulary subcommittee are identified by symbol (T) after definition, indicating final agreement has not yet been reached among participating members.
- *Preparing Financial Information Systems for the euro*, developed by the European Commission, Directorate General XV, Internal market and Financial Services, published December 15, 1997 (XV/7038/97).

**alternate currency.** An alternative to the trading currency when the trading currency is euro or euro-participating. Allows a transaction to be printed or to appear in a currency other than the transaction's trading or local currency. Rules define valid alternate currencies based on what the trading currency is.

**alternate currency supplier payments.** An invoice from a supplier paid in a currency other than its transaction currency.

**audit trail.** Information that allows the history of an account, item record, order, and so forth, to be traced. The more recent information may be stored online for retrieval.

**closing rate.** The "spot" rate which exists at the balance sheet date.

**European Monetary Union (EMU).** Created by the Maastricht Treaty, comprised of 15 European countries. Predecessor was the European Economic Community (EEC) formed in 1958.

**euro.** The single European currency as defined in the *Regulation on the introduction of the euro*.

**euro-participating country.** EMU countries that will initially participate in the euro currency transition.

**exchange rate.** Ratio for exchange of two currencies.

**fixed conversion rate.** The exchange rates between euro-participating currencies and the euro currency as of 1/1/99. Remains fixed until these currencies cease to exist on 6/30/2002.

**local currency.** The currency you use for internal record-keeping purposes. In U.S. FAS52 accounting, referred to as functional currency.

**member state.** The countries which, according to the legal framework for the use of the euro, adopt the single currency in accordance with the EC treaty.

**national currency.** Current legal tender currency of the country in which a business or operation is located. In XA documentation, referred to as local currency.

**participating member state.** A country which, according to the legal framework for the use of the euro, adopts the euro in accordance with the European Commission Treaty.

**trading currency.** The currency you use in your dealings with your trading partners (customers and vendors). It can be your own local currency or any foreign currency.

**transaction currency.** Source currency in which a sale or purchase is denominated.

**transition period.** The period from 1/1/1999 through 1/1/2002 whereby businesses in euro-participating countries will have dual currencies—their national currency and the euro. Transition period for consumers ends around 6/30/2002.

**triangulation.** The process of conversion from a euro-participating currency to the euro, then to any currency other than euro.



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