



Infor XA – User Exits

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To the reader

This book contains the information you need to understand user exits in Infor ERP XA.

For a complete list of books in the XA library, see the bibliography on the XA documentation CD.

Summary of changes

The following new User Exits have been added to the book:

- Additional vendor data
- Additional item data
- Additional vendor/item data
- Credit memo data
- Customer maintenance

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Chapter 1. Overview

User Exits and Application Program Interfaces

User exits provide you with a method of extending XA functionality without changing the programs supplied with XA. A user exit is a call from an XA program to a user program. A set of parameters is defined for each user exit.

The term user exit is used to describe standard user exits as well as special types of user exits, application interfaces (APIs) and action triggers (ATs).

Note: The User Exit process group and application must be activated in order for a standard user exit to process. Once activated, user exits called in COM and IFM will only process after signing off and then signing back into XA.

For information on Activating and Deactivating User Exits, reference the following:

- *Customer Order Management User's Guide*
- *Cross Application Support User's Guide*
- *International Financial Management User's Guide*

User Programs

User programs are called by XA programs at the user exit processing points. A user program for each user exit has an assigned name that you cannot change.

Skeleton user program source and object code is included with XA. The object modules are included with the other product objects and are installed into AMALIB.

Some of the skeleton programs display the user exit parameters when called interactively and/or print the parameters when called from batch.

Note: It is recommended that you keep your user program objects in a separate user library that is placed ahead of AMALIB in the XA library list. This will prevent them from being overlaid when a skeleton user program is replaced during Program Corrective Maintenance.

Parameters

The usage of user exit parameters is described in the context of each of the user programs. The following usages are defined:

InputParameter	Passes information from the XA program to the user program; the user program cannot return information to the XA program
OutputParameter	Returns information from the user program to the XA program; the XA program cannot pass information to the user program
Both	Parameter which passes and returns information between programs

Return code

The first parameter for each user exit is a 7 byte character "return code". This code is needed by SYNON generated user programs. It is defined as an output parameter, but values should not be returned to user programs since corresponding code is required in the calling program to recognize the returned information. The return code field will not appear in the parameter list.

Printing the User Exit and Application Program Interface List (AMVBCPFR)

The User Exit and API List is printed from the Activate Application Exits panel. The list shows details and status of all user exits and APIs.

Application Program Interfaces (APIs)

An API provides the ability to replace XA supplied functions with user programs. XA uses specific information returned by the user program.

Most APIs use a combination of input, output, and both parameters. See "Parameters" for additional information.

The XA functions you can replace are:

- Supported calculations
- Reports that print on special forms

User Exits

A standard user exit provides the ability to perform your functions related to an XA process at specific points in the XA process. Most user exits contain I (input) parameters only.

Examples of some functions you can perform with standard user exits include:

- Display a panel for additional information.
- Extract information from XA files.
- Keep statistics or additional information in your files.
- Send messages to alert the appropriate person of a particular event (for example, an order hold situation).
- Maintain additional master file information in your extension files. This feature is supported for:
 - Customer, Address, and Ship To files
 - Item substitution cross-reference file
 - Customer Item cross-reference file
 - Vendor, Item and Vendor/Item files

Generally, standard user exits are placed at the end of an XA process. This position insures that all edits have been passed, all files have been updated, and the operator has confirmed the action (if applicable). Event driven standard user exits, such as Order Hold Processing exits, are placed at the point where the event occurs.

Action Triggers

An action trigger is a switch that can be activated to execute an alternate path in a program. Action triggers are not programs and have no parameters.

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Exit

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Chapter 2. User Exits (UE)

Cross Application Support

Exit: End ATP calculation

Program

UMVCLC2R Application: CAS

Called from

AMVATP0R EXT: Available to Promise

Parameters

Field	Mapping	Length	Type
Warehouse	B	3	alphanumeric
Item number	B	15	alphanumeric
Quantity on order	B	10.3	numeric
Request date	I	7.0	numeric
Ship lead time	B	2.0	numeric
Promise date (usr)	B	7.0	numeric
Display (usr)	B	10	numeric
Application id	I	1	alphanumeric
Allow entry	I	10	alphanumeric
Issue U/M warning	I	10	alphanumeric

Program Execution Point

AMVATP0R is called from the following programs:

AMBNUXFREXT: Copy offline rls > live

AMBAAXETREDT: Enter Blankets

AMBA1E1REDT: CO Detailed Item

AMBA3E1REDT: CO Customer Item

AMBBAD1RDSP: CO Int/Cust Line Item

AMBBAE1REDT: QT Detailed Item

AMBBBEE1REDT: QT Customer Item

AMBB0E1REDT: CO Imm Customer Item

AMBB9E1REDT: CO Imm Detailed Item

AMBBIYXFREXT: Line Item Order Actions

AMBI7XFREXT: Copy line items > live

AMBG1PVRPMT: Line Item Ship To Ovr

AMBMWXFREXT: Speed Edits & Calcs

AMBNJXFREXT: Copy In/spcchrg live

Special considerations

This exit will not be executed when the ATP Calculation API is active and is called after the ATP has been calculated. This is a unique User Exit because it can return data to the calling program by modifying any of the “both” parameters.

Exit: Customer maintenance

Program

UMVCUM1R	Application: CAS
----------	------------------

Called from

AMVBUDFR	DSP: Confirm Cust Delete
AMVCDDFR	DSP: Confirm Cust DLT IFM
AMVA7XFR	EDT: (FM) Nav/Drvr Maint
AMVCSXFR	EXT: Mass/Create Add

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Customer number		8.0	numeric
Address code-customer		5.0	numeric
Address code - ship to		5.0	numeric
Ship to number		8	alphanumeric
File operation		1	alphanumeric

Program execution point

This user exit is executed after there is an add, change, display or delete of a customer record.

Special considerations

Note: The valid Activity Flag values are:

- 1 Add
- 2 Change
- 3 Delete
- 4 Records Display

Exit: Ship to maintenance

Program

UMVCUM2R Application: CAS

Called from

AMVA8XFR	EXT:(FM) Nav/Drvr Maint
AMVBRDFR	DSP:Maint Ship to (FM)
AMBGYPVR	PMT:Ship to override

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Customer number		8.0	numeric
Address code		5.0	numeric
Ship to number		8	alphanumeric
File operation		1	alphanumeric

Program execution point

This user exit is called during Ship to Maintenance. In program AMVBRDFR, the user exit is called after the Ship to record has been deleted. In program AMVA8XFR, the user exit is called after the Ship to record has been maintained/added.

Special considerations

The address code field is not available for a delete operation. A file operation parameter is passed with the following values:

- 1 Add
- 2 Change
- 3 Delete

Exit: Customer post delete

Program

UMVCUM4R	Application: CAS
----------	------------------

Called from

AMVA2XFR	Delete customer (API)
AMVBUDFR	Delete customer (API)
AMVCDDFR	DSP:Confirm Customer delete IFM

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Customer number	I	8.0	numeric

Program execution point

This user exit is executed after customer record is deleted.

Special considerations

None

Exit: Interface to MstSAF5

Program

UMVMSCAR Application:CAS

Called from

AMVLLEFR EDT:Invoice

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Invoice/credit status	I	2.0	numeric
Invoice series id	I	4	alphanumeric

Program execution point

UMVMSCAR will be executed just before update/create of Next Invoice Series record.

Special considerations

None

Exit: Unit of measure

Program

UMZCFM1R	Application: CAS
----------	------------------

Called from

AMVBZEFR	EDT: Add a Unit of Measure
AMVB0EFR	EDT: Unit of Measure
AMXCOXFR	EXT: Build Company

Parameters

Field	Mapping	Length	Type
Unit of measure code	I	2	alphanumeric
Unit of measure description	I	25	alphanumeric
Program mode	I	3	alphanumeric
Program error flag	O	1	alphanumeric
Program error description	O	40	alphanumeric

Program execution point

This user exit is called for every Add, Change, or Delete done to a unit of measure code. The values for program mode are ADD, CHG, DLT.

Special considerations

If the error flag is any value other than "blank" the calling program will assume an error has occurred and error message AMB3498 will be issued. When the message has been issued, the type of entry (add, change or delete) will not have taken place, the user will be forced to correct their entry and retry or exit the program.

Exit: Additional item data

Program

UMZCFM3R Application: CAS

Called from

AMVT0
AMVDIM0R

Parameters

Field	Mapping	Length	Type
Program return code	I/O	7	alphanumeric
Item number	I	15	alphanumeric
Activity Flag	I	1	alphanumeric

Program execution point

If this user exit is active it will be called every time an add, change or delete occurs on displays in program AMVT01. If this user exit is active it will be called every time the **Enter** key is pressed on any of the 12 displays in program AMVDIM0R.

Special considerations

Note: The valid Activity Flag values are:

- 1 Add
- 2 Change
- 3 Delete
- 4 Display

Exit: VAT/Sales tax calculation

Program

UMZCLC4R	Application: CAS
----------	------------------

Called from

AXZ42	Calculate tax (AXZ42)
-------	-----------------------

Parameters

Field	Mapping	Length	Type
Function Code: (AXZ42)	I	1	alphanumeric
Company Number	B	2.0	numeric
Tax indicator	I	3	alphanumeric
Tax suffix	I	5	alphanumeric
Tax code	B	5	alphanumeric
Invoice date	I	7.0	numeric
Invoice amount	I	13.2	numeric
Discount amount	I	13.2	numeric
Tax conversion discount	I	15.3	numeric
Tax in item price	I	1	alphanumeric
Return code for AXZ42B	B	1	alphanumeric
Tax base amount	B	13.2	numeric
Tax amount	B	13.2	numeric
Tax description	B	15	alphanumeric
Tax percent	B	5.3	numeric
Tax base code	B	1	alphanumeric
Not-taxable indicator	B	1	alphanumeric
Compound tax uplift	B	5.4	numeric
Purchase accounting method	B	1	alphanumeric
Purchase account	B	15	numeric
Use tax account	B	15	numeric
Sales accounting method	B	1	alphanumeric
Sales account	B	15.0	numeric
Special charge reference	B	3	alphanumeric

Program execution point

AXZ42 is called from the following:

AMBBDE1R	EXT: 1 Q/O special charge
AMBCVXFR	EXT: Release time pricing
AMBC3XFR	EXT: Copy order & detail

AMBC9XFR	EXT: Order copy - full order
AMBDRXFR	EXT: Copy special chg > live
AMBELXFR	EXT: Build tax records
AMBFXFR	EXT: Build tax records
AMBFXFR	EXT: End screen init
AMBFOXFR	EXT: Invoice surcharges
AMBGCDFR	DSP: Order copy spc chgs
AMBGQDFR	DSP: Order copy - hist sc
AMBHZXFR	EXT: EDI Acknowledgments
AMBL9XFR	EXT: Dummy Hist -Ack,Quote
AMBEXFR	EXT: EC EDI Acknow.
AMBNJXFR	EXT: Copy In/spcchrg live
AMBNNXFR	EXT: Accum open item val
AMBN4XFR	EXT: EC EDI Quotation
AMBOJXFR	EXT: Accu tax surchg & tax
AMBOKXFR	EXT: Accu tax surchg & tax
AMBO3XFR	EXT: Prc Ine itm (end ord)
AMBO4XFR	EXT: Calc open order val
AMBSXXFR	EXT: Cmpl Inv – Ship Copy

Special considerations

The End VAT/Sales Tax Calculation UMZCLC3R exit program is called from AXZ42. Program AXZ42. If the user exit is active, the exit program UMZCLC3R is called after AXZ42 calculates the tax so the exit program may modify the output parameters before returning to AXZ42's calling program. The parameters passed are the same as for AXZ42.

Customer Order Management

Exit: Option to stop automatic allocation

Program

UMBALO1R

Application: COM

Called from

AMBBTXFR

EXT: Release Allocation

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Release number	I	5.0	numeric
Kit release sequence	I	5.0	numeric
Item number	I	15	alphanumeric
Warehouse	O	1	alphanumeric

Program execution point

This exit is called prior to allocations when requested allocation status is 3 (Automatic discretionary allocation). Interactive jobs call UMBALO1I. Batch jobs call UMBALO1B.

An option to stop allocation is returned to AMBBTXFR where:

1	Stop
0	Do not stop

Special considerations

The parameters passed to UMBALO1B are the same as those passed in UMBALO1R.

Exit: Option to stop allocation during edit

Program

UMBALO2R Application: COM

Called from

AMBAIDTR	DSP: Edit Discrenary Allocations
AMBAHDTR	DSP: Edit Discrenary Allocations
AMBAGDTR	DSP: Edit Discrenary Allocations

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Release number	I	5.0	numeric
Kit release sequence	I	5.0	numeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Location in warehouse	I	7	alphanumeric
Batch/lot number	I	10	alphanumeric
FIFO date	I	7.0	numeric
Quantity allocated	I	10.3	numeric
Stop allocation	O	1	alphanumeric

Program execution point

This exit is called during allocation edits after all other edits have completed. The option to stop allocation is an error message AMB3486 in file MBMESSGE.

An option to stop allocation is returned to the calling panel where:

- 1 Stop
- 0 Do not stop

Special considerations

None.

Exit: Allocation delete

Program

UMBALO3R

Application: COM

Called from

AMBE2DFR

DSP: Confirm Alloc Delete

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
Release number		5.0	numeric
Kit release sequence		5.0	numeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric

Program execution point

This exit is called during allocation delete from the delete confirmation panel. If the user takes **F3** or **F12** the exit is not executed.

Special considerations

None.

Exit: End price calculation**Program**

UMBCLC3R Application: COM

Called from

AMBPRXFR EXT: Pricing

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	2.0	numeric
Quote/order number	I	1	alphanumeric
Quote/order date	I	7	alphanumeric
Override exchange rate	B	7.0	numeric
Override exch rate date	B	11.6	numeric
Currency ID	B	7	alphanumeric
Customer price code	B	3	alphanumeric
Customer number	B	2	alphanumeric
Line item sequence	I	8.0	numeric
Order qty in order u/m	I	7.0	numeric
Selling price in ord U/M	B	10.3	numeric
Selling price in prc U/M	B	17.7	numeric
Net sales amount	B	15.3	numeric
Price source code	B	15.3	numeric
Base price	B	1	alphanumeric
LC - base price	B	15.3	numeric
LC - selling price	B	15.3	numeric
LC converted selling price	B	15.3	numeric
LC - net sales amount	B	17.7	numeric
S-number	B	15.3	numeric
Discount percent	I	20	alphanumeric
Page 5 pricing?	I	5.3	numeric
Base price accumulator	B	1	alphanumeric
Price book ID	B	15.3	numeric
Contract number	I	5	alphanumeric
Contract promo indicator	B	5.0	numeric
Dimension U/M	B	1	alphanumeric
Pricing unit of measure	I	2	alphanumeric
Item number	I	2	alphanumeric
Warehouse	I	15	alphanumeric
Pricing action	I	3	alphanumeric

Field	Mapping	Length	Type
Exchange rate flag	I	1	alphanumeric
Compare base price	I	1	alphanumeric
Compare net sales	B	15.3	numeric
Compare selling in ord UM	B	15.3	numeric
Compare selling in prc UM	B	17.7	numeric
S-number flag	B	15.3	numeric
Condition name USR	I	1	alphanumeric
S-number or KBC unit Cost	B	25	alphanumeric
Interactive pricing? USR	I	19.8	numeric
Detail overrides	I	1	alphanumeric
Credit itm validation USR	I	1	alphanumeric
Feature/option template	I	1	alphanumeric
Cost cal method for acc	I	1	alphanumeric
Billing & inventory inter	I	1	alphanumeric
Tax in price flag	I	1	alphanumeric
Invoice total discount?	I	1	alphanumeric
Tax suffix – customer	I	1	alphanumeric
Language code	I	1	alphanumeric
Terms code	I	1	alphanumeric
Tax suffix (key)	I	5	alphanumeric
Ship to number	I	3	alphanumeric
Trade discount code	I	2	alphanumeric
Tax override date	I	5	alphanumeric
Installment method id	I	10	alphanumeric
Tax indicator	I	3	alphanumeric
Ship to number override	I	8	alphanumeric
Tax transaction type	I	10	alphanumeric
Tax class	I	3	alphanumeric
Calculation permanence	I	1	alphanumeric
IFM AR interface	I	1	alphanumeric
Admin division id	I	10	alphanumeric
Tax include net sales-LC	I	15.3	numeric
Tax include net sales	I	15.3	numeric
Tax include sell prc LC	I	17.7	numeric
Tax include sell prc	I	17.7	numeric
Return code (USR)	B	1	alphanumeric
Variable trade discount %	I	8	alphanumeric

Program execution point

AMBPRXFR is called from

AMBA1E1R	EDT: CO Detailed Item
AMBA3E1R	EDT: CO Customer Item
AMBA5E1R	EDT: CM Detailed Item
AMBA6E1R	EDT: CM Customer Item
AMBA8E1R	EDT: SO Detailed Item
AMBA9E1R	EDT: SO Customer Item
AMBBAE1R	EDT: QT Detailed Item
AMBBBE1R	EDT: QT Customer Item
AMBBFE1R	EDT: CO Non-inv. Item
AMBBIE1R	EDT: SO Non-inv. Item
AMBBGE1R	EDT: CM Non-inv. Item
AMBBHE1R	EDT: QT Non-inv. Item
AMBBOE1R	EDT: CO Imm Customer Item
AMBB9E1R	EDT: CO Imm Detailed Item
AMBCAE1R	EDT: CO Imm Non-inv. Item
AMBCBE1R	EDT: CM Imm Non-inv
AMBCCE1R	EDT: CM Imm Detailed Item
AMBCDE1R	EDT: CM Imm Customer Item
AMBCVXFR	EXT: Release Time Pricing
AMBC9XFR	EXT: Order copy-full order
AMBESEFR	EDT: CO/SO/QT Basic Item
AMBFAXFR	EXT: End Screen init
AMBGTDFR	DSP: Order Copy - Inv Item
AMBH5PVR	PMT: Pricing Inq - Display
AMBI7XFR	EXT: Copy Line Item>Live
AMBLDXFR	EXT: DSP Qty Price Breaks
AMBL3DFR	EDT: CM Basic Item
AMBL5DFR	EDT: CO Imm Basic Item
AMBL9DFR	EDT: CM Imm Basic Item
AMBMAXFR	EXT: Copy Line items
AMBMWXFR	EXT: Speed Edits & Calcs
AMBNJXFR	EDT: Copy In/SpcChrg Live

Special considerations

This exit will not be executed when the API: Price Calculation is active.

This exit is called after the price has been calculated. This is a unique user exit because it can return data to the calling program by modifying any of the "both" parameters.

Parameters passed are the same as AMBPRXFR, however the parameters that are “output” for AMBPRXFR are “both” parameters for this program.

The UMBCLC3R exit will determine if it should call UMBCLC3I or UMBCLC3B, based upon the type of job it is called from. If UMBCLC3R is called from within an interactive job, UMBCLC3I will be executed. If UMBCLC3R is called from within a batch job, UMBCLC3B will be executed.

Exit: End third party tax

Program

UMBCLC5R

Application: COM

Called from

AMBMRXFR

EXT: Third Party Tax Calc

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Item number	I	15	alphanumeric
Tax indicator	I	3	alphanumeric
Tax suffix	I	5	alphanumeric
Tax code	O	5	alphanumeric
Tax override date	I	7.0	numeric
Tax in item price	I	1	alphanumeric
Cash discount amount	I	13.2	numeric
Cash discount percent	I	5.3	numeric
Invoice number	I	6.0	numeric
Invoice date	I	7.0	numeric
Invoice amount	I	13.2	numeric
Ship to state	I	2	alphanumeric
Ship to postal code	I	10	alphanumeric
Ship to city	I	35	alphanumeric
Customer number	I	8.0	numeric
Tax files updated	I	1	alphanumeric
Special charge sequence	I	3.0	numeric
Special charge reference	B	3	alphanumeric
Special charge code	B	1	alphanumeric
Tax base amount	B	13.2	numeric
Tax amount	B	13.2	numeric
Tax description	B	15	alphanumeric
Tax percent	B	5.3	numeric
Tax effective date	B	7.0	numeric
Tax base code	B	1	alphanumeric
Non-taxable indicator	B	1	alphanumeric
Compound tax uplift	B	5.4	numeric

Field	Mapping	Length	Type
Purchase accounting meth	B	1	alphanumeric
Purchase account	B	15	alphanumeric
Use tax account	B	15	alphanumeric
Sale accounting method	B	1	alphanumeric
Sale account	B	15	alphanumeric
Return code of UMBCLC4R	O	1	alphanumeric

Program execution point

AMBAAXFR	EXT: Tax in Price
AMBBDE1R	EDT: 1 Q/O Special Charge
AMBCNE1R	EDT: 1 CM Special Charge
AMBCVXFR	EXT: Release Time Pricing
AMBC3XFR	EXT: Copy order & detail
AMBC9XFR	EXT: Order copy-full order
AMBDRXFR	EXT: Copy Special Chg>Live
AMBELXFR	EXT: Build tax records
AMBFAFXR	EXT: End Screen Init
AMBFOXFR	EXT: Invoice Surcharges
AMBGCDFR	DSP: Order copy - spc charge
AMBGQDFR	DSP: Order copy - Hist SC
AMBHZXFR	EXT: EDI Acknowledgments
AMBL9XFR	EXT: Temp Hist - Ack, Quote
AMBMRXFR	EXT: Third Party Tax Calc
AMBNEXFR	EXT: ED EDI Acknowledgement
AMBNJXFR	EXT: Copy In/SpcChrg Live
AMBNNXFR	EXT: Accum Open Item Val
AMBN4XFR	EXT: EC EDI Quotation
AMBOJXFR	EXT: Accu Tax SurChg & Tax
AMBOKXFR	EXT: Accu Tax SurChg & Tax
AMBO3XFR	EXT: Prc Lne Itm (End Order)
AMBO4XFR	EXT: Calc Open Order Val
AMBQ8XFR	EXT: Prorate Special Charge
AMBSXXFR	EXT: Cmpl Inv – Ship Copy

Special considerations

None.

Exit: PB finance chg calc

Program

UMBCLCAR	Application:COM
----------	-----------------

Called from

AMBARXFR	EXT:Pricing
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Parameters

Field	Mapping	Length	Type
Price book ID		5	alphanumeric
Date effective		7.0	numeric
Page 5 Pricing?		1	alphanumeric
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Quote/order date		7.0	numeric
Override exchange rate		11.6	numeric
Override exch rate date		7.0	numeric
Installment method ID		10	alphanumeric
Currency ID		3	alphanumeric
Customer number		8.0	numeric
Page 5 effective date		7.0	numeric
MPA to COM interfacing		1	alphanumeric
Tax in price flag		1	alphanumeric
Invoice total discount?		1	alphanumeric
Tax suffix – customer		5	alphanumeric
Language code		3	alphanumeric
Terms code		2	alphanumeric
Quote/order number		7	alphanumeric
Tax suffix		2	alphanumeric
Trade discount code		2	alphanumeric
Tax override date		7.0	numeric
Variable trade discount%		7.3	numeric
Calculation permanence		1	alphanumeric
IFM AR interface		1	alphanumeric
Admin division ID (usr)		10	alphanumeric

Program execution point

The user exit will execute after page 5 pricing, allowing additional group pricing.

Special considerations

None.

Exit: Pretax price calcs

Program

UMBCLCBR	Application:COM
----------	-----------------

Called from

AMBPRXFR	EXT:Pricing R3
----------	----------------

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Quote/order date	I	7.0	numeric
Override exchange rate	B	11.6	numeric
Override exch rate date	B	7.0	numeric
Currency id	B	3	alphanumeric
Customer number	I	7.0	numeric
Line item sequence	I	7.0	numeric
Selling price in ord U/M	B	17.7	numeric
Selling price in prc U/M	B	15.3	numeric
Price source code	B	1	alphanumeric
LC – selling price	B	15.3	numeric
LC converted selling price	B	17.7	numeric
Contract number	B	5	numeric
Contract/promo indicator	B	1	alphanumeric
Dimension U/M	I	2	alphanumeric
Pricing unit of measure	I	2	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Return code (USR)	O	1	alphanumeric
Ship to number	I	8	alphanumeric

Program execution point

The user exit will be executed during pricing when adding or maintaining an item.

Special considerations

None.

Exit: CM detailed item entry

Program

UMBCMD1R	Application:COM
----------	-----------------

Called from

AMBL3DFR	EDT: CM Basic Item
AMBA5E1R	EDT: CM Detailed Item
AMBCCE1R	EDT: CM Imm Detail Item
AMBL9DFR	EDT: CM Imm Basic Item

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no.		7	alphanumeric
Order qty in order u/m		10.3	numeric
Unit of measure code		2	alphanumeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric
Original item number		15	alphanumeric

Program execution point

This user exit is the last routine called for the line item processing of a credit memo. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: CM customer item

Program

UMBCMD2R	Application:COM
----------	-----------------

Called from

AMBA6E1R	EDT:CM Customer Item
AMBCDE1R	EDT:CM Imm Customer Item

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no.		7	alphanumeric
Order qty in order u/m		10.3	numeric
Customer item number		30	alphanumeric
Unit of measure code		2	alphanumeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric
Original item number		15	alphanumeric

Program execution point

This user exit is the last routine called for the credit line item processing of an item identified by a customer item number. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: CM non-inventory item

Program

UMBCMD3R	Application:COM
----------	-----------------

Called from

AMBBGE1R	EDT: CM Non-Inv. Item
AMBCBE1R	EDT: CM Imm Non-Inv. Item

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no.		7	alphanumeric
Order qty in order u/m		10.3	numeric
Unit of measure code		2	alphanumeric
Warehouse		3	alphanumeric
Non-inventoried item no.		15	alphanumeric
Non-inventoried item desc		30	alphanumeric
Non-inventoried item cost		19.8	numeric
Non-inventoried item wght		10.3	numeric
Item type code		1	alphanumeric
Foreign description		30	alphanumeric
Item class code		4	alphanumeric

Program execution point

This user exit is the last routine called for the credit line item processing of a non-inventory item. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and the Non-inventoried Item (MBCHRES0) record which have just been processed.

Exit: Credit memo data

Program

UMBCMD5R Application:COM

Called from

AMBL3DFR
AMBA5E1R
AMBCCE1R
AMBKTDFR
AMBL9DFR

Parameters

Field	Mapping	Length	Type
Program return code	I/O	7	alphanumeric
Company Number	I	2.0	numeric
Internal header type	1	2	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
User entered sequence no.	I	7	alphanumeric
Order qty in order u/m	I	10.3	numeric
Dimension U/M	I	2	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Original item number	I	15	alphanumeric
Credit memo code	I	1	alphanumeric

Program execution point

If this user exit is activated it will be called every time an add, change or delete occurs.

Special considerations

Note; When a credit memo line item is created, updated or deleted this user exit is called. A new credit memo line can be added to 3 menu options in COM. The first menu option is AMBM10, option 1, Enter Orders and Quotes. To use this menu option change the Alternate Order Entry to 003 using the F9 key on display AMBBQPVR. The second option is AMBM10, Enter Immediate Shipment Orders. To use this option change the Alternate Order Entry to 003 using the F9 key in display AMBGEPPVR. The third option is AMBM10, Quote/Order Maintenance.

Exit: Begin credit memo

Program

UMBCMH1R Application:COM

Called from

AMBBQPV
AMBGF
PMT: Begin Credit Memo
PMT: Begin CM Immed. Ship

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Quote/order date		7.0	numeric
Customer number		8.0	numeric
Ship to number		8	alphanumeric
Warehouse		3	alphanumeric

Program execution point

The user exit is called during Order Entry. After the Quote/Order Header has been written, the user exit is called.

Special considerations

None.

Exit: End credit memo

Program

UMBCMH2R	Application:COM
----------	-----------------

Called from

AMBBWPVR	PMT: End Credit Memo Order
AMBFVPVR	PMT: End Immediate Ship

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

The user exit is called at the end of "End Credit Memo" and "End Immediate Ship" panels. After all requested reports are submitted (if batch jobs) or run (if interactive jobs), the user exit is called.

Special considerations

Parameters passed are the key field to the Quote/Order header (MBC6RES0) record that has just been completed.

Exit: Start of end credit memo

Program

UMBCMH3R	Application: COM
----------	------------------

Called from

AMBBWPVR	PMT: End Credit Memo Order
AMBFVPVR	PMT: End Immediate Ship

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

The user exit is called at the beginning of the End of Credit Memo and the beginning of the End Immediate Ship panel.

Special considerations

Parameters passed are the key field to the Quote/Order header (MBC6RES0) record that has just been completed.

Exit: End of credit memo offline

Program

UMBCMH4R Application: COM

Called from

AMBMBXFR EXT:End Offline Order

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

The user exit is called at the end of order processing for each order that is run through the offline process.

Special considerations

None

Exit: CO detailed Item

Program

UMBCOD1R	Application: COM
----------	------------------

Called from

AMBA1E1R	EDT: CO Detailed Item
AMBB9E1R	EDT: CO Imm Detailed Item
AMBESEFR	EDT: CO/SO/QT Basic Item
AMBL5DFR	EDT: CO Imm Basic Item
AMBMWXFR	EXT: Speed Edits & Calcs

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
User entered sequence no.	I	7	alphanumeric
Order qty in order u/m	I	10.3	numeric
Unit of measure code	I	2	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Original item number	I	15	alphanumeric

Program execution point

This user exit is the last routine called for the line item processing. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: CO customer item

Program

UMBCOD2R	Application:COM
----------	-----------------

Called from

AMBA3E1R	EDT:CO Customer Item
AMBB0E1R	EDT:CO Imm Customer Item

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no.		7	alphanumeric
Order qty in order u/m		10.3	numeric
Customer item number		30	alphanumeric
Unit of measure code		2	alphanumeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric
Original item number		15	alphanumeric

Program execution point

This user exit is the last routine called for the line item processing of an item identified by a customer item number. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: CO non-inventory item

Program

UMBCOD3R	Application:COM
----------	-----------------

Called from

AMBBFE1R	EDT: CO Non-Inv. Item
AMBCAE1R	EDT: CO Imm Non-Inv. Item

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no.		7	alphanumeric
Order qty in order u/m		10.3	numeric
Unit of measure code		2	alphanumeric
Warehouse		3	alphanumeric
Non-inventoried item no.		15	alphanumeric
Non-inventoried item desc		30	alphanumeric
Non-inventoried item cost		19.8	numeric
Non-inventoried item wght		10.3	numeric
Item type code		1	alphanumeric
Foreign description		30	alphanumeric
Item class code		4	alphanumeric

Program execution point

This user exit is the last routine called for the line item processing of a non-inventory item. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and the Non-inventoried Item (MBCHRES0) record which have just been processed.

Exit: Begin customer order

Program

UMBCOH1R

Application:COM

Called from

AMBBIPVR	PMT: Begin Customer Order
AMBGEPVR	PMT: Begin CO Immed. Ship
AMBHKPVR	PMT: Speed Entry w/Pricing
AMBHNPVR	PMT: Speed Entry w/On Hand

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Quote/order date		7.0	numeric
Customer number		8.0	numeric
Ship to number		8	alphanumeric
Warehouse		3	alphanumeric

Program execution point

The user exit is called during Order Entry. After the Quote/Order Header has been written, the user exit is called.

Special considerations

None

Exit: End customer order

Program

UMBCOH2R	Application:COM
----------	-----------------

Called from

AMBBTPVR	PMT: End Customer Order
AMBFVPVR	PMT: End Immediate Ship

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric

Program execution point

The user exit is called at the end of Order Entry from the End Order and End Immediate Ship panels. After all requested reports are submitted (if batch jobs) or run (if interactive jobs), the user exit is called.

Special considerations

None

Exit: Start of end customer order

Program

UMBCOH3R Application:COM

Called from

AMBBTPVR	PMT: End Customer Order
AMBFVPVR	PMT: End Immediate Ship

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

The user exit is called at the end of Order Entry from the End Order and End Immediate Ship panels.

Special considerations

None

Exit: End of customer order offline

Program

UMBCOH4R

Application:COM

Called from

AMBMBXFR

EXT:End Customer Order Offline

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

The user exit is called at the end of order processing for each order that is run through the offline process.

Special considerations

None

Exit: Begin order copy

Program

UMBCPY1R Application:COM

Called from

AMBFTDFR DSP:Order copy: one cust

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Customer number		8.0	numeric

Program execution point

The user exit will be executed prior to the order copy panel appearing.

Special considerations

None

Exit: CMT line quote print

Program

UMBCTI1R

Application:COM

Program execution point

The user exit will be executed prior to the order copy panel appearing.

Special considerations

If the action trigger is turned on, the Offline Comment Line comments will be made to print on the invoice.

Exit: CMT line quote invoice print

Program

UMBCTL2R

Application:COM

Program execution point

The user exit will be executed prior to the order copy panel appearing.

Special considerations

If the action trigger is turned on, the Offline Comment Line comments will be made to print on the invoice.

Exit: CMT line ackno print

Program

UMBCTL3R

Application:COM

Program execution point

The user exit will be executed prior to the order copy panel appearing.

Special considerations

If action trigger is turned on, the Offline Comment Line comments will be made to print on the acknowledgement.

Exit: CMT line pack print

Program

UMBCTL4R

Application:COM

Program execution point

The user exit will be executed prior to the order copy panel appearing.

Special considerations

If action trigger is turned on, the Offline Comment Line comments will be made to print on the pack list.

Exit: CMT line BOL print

Program

UMBCTL5R

Application:COM

Program execution point

The user exit will be executed prior to the order copy panel appearing.

Special considerations

If action trigger is turned on, the Offline Comment Line comments will be made to print on the bill of lading.

Exit: Create order hold**Program**

UMBHLD1R Application:COM

Called from

AMBAGETR	EDT: CO Blanket Release
AMBAPETR	Edit Commission Splits HDR
AMBAXETR	EDT: Enter Blankets
AMBBGPVR	PMT: Pricing & Currency
AMBBTPVR	PMT: End Order
AMBBWPVR	PMT: End Memo
AMBBXPVR	PMT: End Quotation
AMBBYPVR	PMT: End Standing Order
AMBCVXFR	EXT: Release Time Pricing
AMBDAPVR	PMT: Shipment and Terms
AMBD4PVR	PMT: Sold to override
AMBEJDFR	DSP: Order Review - Items
AMBE8DFR	DSP: Quote Review - Items
AMBFAFXFR	EXT: End Screen Init
AMBFPVPR	PMT: End Immediate Ship
AMBGYPVR	PMT: Ship to override
AMBHMPFR	PRT: Offline tran - passes
AMBIXXFR	EXT: Primary Order Actions
AMBIYXFR	EXT: Line Item Ord Actions
AMBI2DFR	DSP: Order Hold Release
AMBK8XFR	EXT: Order copy:holds
AMBNNXFR	EXT: Accum Open Item Val
AMBO3XFR	EXT: Prc Lne Itm (end ord)
AMBO4XFR	EXT: Calc Open Order Val
AMBBGPFR	PRT: Evaluate Order Holds
AMBT9XFR	EXT: End Order Credit Chk
AMBMBXFR	EXT: End Offline Order
AMBGEPFR	PRT: Offline Order Passes

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Hold Code	I	2	alphanumeric

Field	Mapping	Length	Type
Order Hold sequence no.	I	7.0	numeric
Date held	I	7.0	numeric
Approved date	I	7.0	numeric
Line item sequence	I	7.0	numeric
Userid	I	10	alphanumeric
Release number	I	5.0	numeric
Kit release sequence	I	5.0	numeric
Approval Userid	I	10	alphanumeric

Program execution point

The user exit is always called after XA has placed the order on hold and has issued the hold message.

Special considerations

Parameters passed include the key fields to the Order Hold XREF (MBCKRES0) record that was just added.

If UMBHLD1R is called from within a batch program, UMBHLD1B will be executed. If UMBHLD1R is called from within an interactive program, UMBHLD1I will be executed.

Exit: Release order hold

Program

UMBHLD2R	Application:COM
----------	-----------------

Called from

AMBCVXFR	EXT: Release Time Pricing
AMBFXFR	EXT: End Screen Init
AMBI2DFR	DSP: Order Hold Release
AMBNNXFR	EXT: Accum Open Item Val
AMBO3XFR	EXT: Prc Lne Itm (end ord)
AMBO4XFR	EXT: Calc open order val
AMBBGPFR	PRT: Evaluate Order Holds

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Hold Code	I	2	alphanumeric
Order Hold sequence no.	I	7.0	numeric
Date held	I	7.0	numeric
Approved date	I	7.0	numeric
Release type	I	1	alphanumeric
Line item sequence	I	7.0	numeric
Userid	I	10	alphanumeric
Release number	I	5.0	numeric
Kit release sequence	I	5.0	numeric
Approval Userid	I	10	alphanumeric

Program execution point

This exit is called after an order hold has been released.

Special considerations

Parameters passed include the key fields to the Order Hold XREF (MBCKRES0) record which has just been processed.

A release type parameter is also passed where: 1 = released, 2 = released and enable recheck.

If UMBHLD2R is called from within a batch program, UMBHLD2B will be executed. If UMBHLD2R is called from within an interactive program, UMBHLD2I will be executed.

Exit: Copy offline Q/O

Program

UMBHLD3R Application:COM

Called from

AMBI6XFR EXT: Copy Offline>Live

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

The user exit is executed after the quote/order header is created.

Special considerations

The program will be called from AMBI6XFR, printing the parameters passed to the user exit. User-modified code should be entered in UMBHLD3R.

Exit: Invoice summary

Program

UMBINV1R	Application:COM
----------	-----------------

Called from

AMBD1XFR	EXT: Invoice Driver
----------	---------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Invoice number		6.0	numeric
Invoice sequence number		7.0	numeric
Internal header type		1	alphanumeric
Quote/Order number		7	alphanumeric

Program execution point

This user exit is called during invoice processing. The totals for the invoice are computed, the General Ledger interface file is updated and the VAT* files are updated prior to the user exit being called. Immediately after the Invoice Header is created, the user exit is called.

Special considerations

This user exit is designed to enable a user to update the MTHACTX file with pertinent data should the user choose to continue using the MTHACT* files.

Exit: Invoice item detail

Program

UMBINV2R Application:COM

Called from

AMBTXXFR EXT: nv info/calc & upd

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order number	I	7	alphanumeric
Shipment header number	I	7.0	numeric
Ship release sequence	I	7.0	numeric
Kit release sequence	I	5.0	numeric

Program execution point

This user exit is called during invoice processing. The General Ledger Interface file, the Analysis Item Interface (ITEMSA) file and the associated VAT* files prior to the user exit being called.

Special considerations

This user exit is designed to enable a user to update the MTHACTY file with pertinent data should the user choose to continue using the MTHACT* files.

Exit: Invoice special charge

Program

UMBINV3R	Application:COM
----------	-----------------

Called from

AMBFFXFR	EXT:Create Hist Spc Chrg
----------	--------------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Invoice number		6.0	numeric
Invoice sequence number		7.0	numeric
Special charge sequence		7.0	numeric
Internal header type		1	alphanumeric
Quote/Order number		7	alphanumeric

Program execution point

This user exit is called during invoice processing. The History Special Charge file is updated prior to the user exit being called. A History Special Charge record is created for both special charges and surcharges.

Special considerations

This user exit is designed to enable a user to update the MTHACTX file with pertinent data should the user choose to continue using the MTHACT* files.

Exit: Invoice bank draft

Program

UMBINV4R Application:COM

Called from

AMBFMXFR EXT:Print Invoice

Parameters

Field	Mapping	Length	Type
Invoice number		6.0	numeric
Invoice sequence number		7.0	numeric
Total invoice amount		13.2	numeric
Invoice date		6.0	numeric
LC total invoice amount		13.2	alphanumeric
Bill to customer name		25	alphanumeric
Bill to address line 1		25	alphanumeric
Bill to address line 2		25	alphanumeric
Bill to address line 3		25	alphanumeric
Bill to city		15	alphanumeric
Bill to state code		2	alphanumeric
Bill to postal code		10	alphanumeric
Bill to country name		25	alphanumeric
Aging date		7.0	numeric
Addressee name		25	alphanumeric
Address line 1		25	alphanumeric
Address line 2		25	alphanumeric
Address line 3		25	alphanumeric
Postal code		10	alphanumeric
City		15	alphanumeric
Country code		3	alphanumeric
State code (key)		2	alphanumeric
Domiciliation number		2	alphanumeric
Bank number		5.0	numeric
Position number		5.0	numeric
Account number		11	alphanumeric
Key		2.0	numeric
Bank name 30		30	alphanumeric

Program execution point

This user exit is called during the printing of the invoice. After the invoice has been created/written, the user exit is called.

Special considerations

This user exit will only be executed for standard invoices. EDI and Pro forma invoices will not execute the user exit.

Exit: Invoice IFM GL transactions

Program

UMBINV5R	Application:COM
----------	-----------------

Called from

AMBD1XFR	EXT: Invoice Driver
AMBS1XFR	EXT: Gen complementary invoices

Parameters

None

Program execution point

The program will be called at the end of each invoice created. All the GLI transactions for the invoice are in OEITXN file, except for tax transactions, which directly update IFM. This program can be coded to read, update, add and delete the OEITXN records just prior to updating to the IFM files. The OEITXN file is cleared prior to processing the next invoice.

Special considerations

This program is called by the COM create invoicing function only when COM and IFM are interfacing.

Exit: Invoicing pre AR

Program

UMBINV8R Application:COM

Called from

AMBD1XFR	EXT: Invoice Driver
AMBS1XFR	EXT: Gen complementary invoices

Parameters

Field	Mapping	Length	Type
Userid	I	10	alphanumeric
Trigger sequence	I	7.0	numeric

Program execution point

The exit will be called just prior to calling AMBUAI0C. This allows you to execute additional coding or to capture data from the ARTRNB file prior to the data being written to the OPENAR file.

Special considerations

None.

Exit: Add special charge to invoices

Program

UMBINVBR Application:COM

Called from

AMBD1XFR EXT:Invoice Driver

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Invoice number	I	6.0	numeric
Invoice sequence number	I	7.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Customer number	I	8.0	numeric
Currency ID	I	3	alphanumeric
Total invoice amount TRD	I	13.2	numeric
Total taxes	I	15.2	numeric
Special charge ID	O	3	alphanumeric
Special charge amount	O	13.2	numeric
LC special charge amount	O	13.2	numeric
Special charge cost	O	13.2	numeric

Program execution point

You will be able to automatically add a single special charge to an invoice. The program is called once for each invoice, whether it is for a single or multi-order invoice, created by the invoicing program. This includes credit memos, pro forma, amount only, and installment invoices.

Special considerations

You must add this exit to the User Exit/API Detail file (MZD3CPP) in AMFLIBa (where a is the environment designator).

If you do not exclude credit memos, the charge amount of the specified special charge ID or an override charge amount will be changed to a credit by the invoicing program.

The input parameters of total invoice and total taxes amounts are in trading currency. The Currency ID input parameter specifies the currency. If the Currency ID is blank, local currency is in effect.

The Total Taxes amount does not include the Tax in Price taxes. These amounts are included in the line item prices, and invoicing does not keep a separate total for them. If you must have a Tax in Price amount, you may locate it in the Historical Tax file (MBGFCPP).

- Special charge invoices:

You may supply any special charge ID that exists in the Special Charge master file. The special charge ID is a required output parameter passed to the program that creates invoices. If no special charge ID exists in the Special Charge master file, no invoice special charge will be created. The special charge cannot be taxed or invoiced in any cash discount amount. The charge amount, and, if present, cost amount, are added to the invoice totals and any required files.

You can override the amounts in the Special Charge master file by using the amount output parameters. If the invoice currency is not a local currency, you may supply a LC special charge amount or a special charge amount currency. The Create Invoicing program converts the currency for the missing amount. If the invoice is local currency, you may use either output field for the override amount. The special charge code in the Special Charge master file must be 3 (special charge with cost). If it is not, the program will ignore the overridden cost.

If the COM general ledger interface is active, rules and priorities must be set up for the special charge IDs that are returned to the invoicing program.

- Multi-order invoices:

This exit will be called at the end of a multi-order invoice. The input quote/order number is the last order on the invoice. Any decision to include a special charge should not be based on just this last order if the decision is not true for all other orders on the invoice. Multi-order invoices have one Invoice Header file record for each order on the invoice. The invoice sequence number is xxxyyyy where:

xxx sequence of the multi-order invoice for a specific invoice number
yyyy sequence of the invoice within the multi-order invoice

For example, 00100011 is the first invoice in the first multi-order invoice in a series of invoices.

- *Pro forma* invoices:

You should use *pro forma* invoicing to initially test modifications you make to this exit program. To test the GL interface and IFM invoicing, you must use actual invoicing.

Exit: Item substitution

Program

UMBITM1R Application: COM

Called from

AMBBLE1R	EDT: Substitute item CHG
AMBC6PVR	PMT: Substitute item ADD
AMBDRDFR	DSP: Substitute item Maint

Parameters

Field	Mapping	Length	Type
Item number	I	15	alphanumeric
Substituted item number	I	15	alphanumeric
Substitute effective date	I	7.0	numeric
Pricing option	I	1	alphanumeric
External doc print option	I	1	alphanumeric
Substitution note	I	25	alphanumeric
File operation	I	1	alphanumeric

Program execution point

This exit is called after a Substitution XREF (MBDMCPS1) record has been added, changed or deleted through Substitution file maintenance.

Special considerations

Parameters passed include the key fields to the Substitution XREF record.

A file operation parameter is also passed, where:

- 1 Added
- 2 Changed
- 3 Deleted

Exit: Customer item

Program

UMBITM2R	Application:COM
----------	-----------------

Called from

AMBADE1R	EDT: 1 Customer/Item
AMBAUDFR	DSP: Company Cust - Items
AMBAVDFR	DSP: Company/Cust Items
AMBCND1R	DSP: Del/Conf 1 Cust/Item
AMUCLXFR	EXT: Create EURO Customer

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Customer number		8.0	numeric
Customer Item number		30	alphanumeric
SKU number		12	alphanumeric
Customer Item description		30	alphanumeric
Customer department no.		8	alphanumeric
Suggested retail price		15.3	numeric
Approval date		7.0	numeric
Item number		15	alphanumeric
File operation		1	alphanumeric

Program execution point

This exit is called after a Customer/Item XREF (MBBIRES0) record is added, changed, or deleted through Customer Item Number Cross Reference file maintenance.

Special considerations

Parameters passed include the key fields to the Substitution XREF record.

A file operation parameter is also passed, where:

- 1 Added
- 2 Changed
- 3 Deleted

Exit: Maintenance reason

Program

UMBMSC1R	Application:COM
----------	-----------------

Called from

AMBE2PVR	PMT: Change maint. reason
AMBG6PVR	PMT: Change header reason

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Maintenance reason code	I	2	alphanumeric

Program execution point

This user exit is called each time the Maintenance reason popup program (AMBE2PVR) is called. The popup program is called when a line item is changed. If maintenance logging is turned off for the company, the popup is not displayed and a reason code of '99' returned.

Special considerations

Parameters passed include the key fields to the Line item (MBCDRES1) record that has just been changed. The reason code is also passed.

Exit: Pre-Month end close

Program

UMBMSC2R	Application:COM
----------	-----------------

Called from

AMBPW2	COM Month End Job Queue Procedure
--------	-----------------------------------

Parameters

None

Program execution point

If this user exit is activated it will call UMBMSC2B. All user exit programming should be placed within UMBMSC2B.

Special considerations

This user exit is called prior to clearing the monthly activity files.

Exit: Credit card sales

Program

UMBMSC3R	Application:COM
----------	-----------------

Called from

AMBBIPVR	EXT: Begin Customer Order
AMBBQPVR	EXT: Begin Credit Memo
AMBBTPVR	PMT: End Customer Order
AMBBWPVR	PMT: End Credit Memo
AMBFVPVR	PMT: End Immed Shipment
AMBGEPVR	EXT: Begin Customer Order Immed Ship
AMBGFPVR	EXT: Begin Credit Memo Immed Ship

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

None

Special considerations

The parameters passed include the key fields to the Quote/Order Header record (MBC6REP) record that has just been processed.

Exit: Start of month end close

Program

UMBMSC4R	Application:COM
----------	-----------------

Called from

AMBPW1	COM Month-End Close Interact Program
--------	--------------------------------------

Parameters

Field	Mapping	Length	Type
Continue month end	B	1	alphanumeric

Program execution point

This user exit will allow users to process their own programs and after their processing ends, a screen will be displayed which will allow the user to continue or suspend the month end processing.

Special considerations

None

Exit: Additional doc

Program

UMBMSC5R	Application:COM
----------	-----------------

Called from

AMBOPDFR	DSP: Display Container Dtl
AMBOLDFR	DSP: Maintain Container Dt
AMBN0DFR	DSP: Maintain Shipments
AMBOXDFR	DSP: Prcs Ship Itm-Ord Ent
AMBPJDFR	DSP: Process Item (R)
AMBN2DFR	DSP: Process Item (S)
AMBQ0XFR	EXT: Ship Complete U-Job
AMBIMPVR	PMT:Consolidated Shp Act

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Shipment number	I	7.0	numeric
Packed container code	I	1	alphanumeric
Packed container number	I	7.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Shipment header number	I	7.0	numeric

Program execution point

When this user exit is active, the preceding interactive programs offer option 46 on the panel to execute the user exit. UMBMSC5R is also called from AMBQ0XFR, which is executed at ship complete from AMBBPE1R (EDT: Specify Ship Actions) and AMBIMPVR (PMT: Consolidated Shp Act).

Special considerations

The program UMBMSC5R will determine if it was called from an interactive or a batch program. Based upon this determination, UMBMSC5R will call UMBMSC5I for interactive programs and UMBMSC5B for batch programs. The parameters passed to both of these programs are exactly the same as parameters that were sent to AMBBPEiR. By doing a call to two different programs, the user exit will allow processing by interactive and batch programs.

Exit: Delete CO, CM, QT, SO

Program

UMBMSC6R	Application:COM
----------	-----------------

Called from

AMBB4XFR	EXT Delete Order
----------	------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric

Program execution point

AMBE0DFR	DSP: Quote review 1 cust
AMBFADFR	DSP: Quote review all cust
AMBFMDFR	DSP: Order copy: all cust
AMBFTDFR	DSP: Order copy: 1 cust
AMBI6XFR	EXT: Copy offline > live
AMBD1XFR	EXT: Invoice Driver
AMBDDPVR	PMT: Confirm Delete Order

Within the AMBB4XFR program, the user exit will be executed prior to any deletes taking place, all order records will still be available to the user.

Special considerations

The parameters passed include the key fields to the Quote/Order Header record (MBC6REP) record that has just been processed.

Exit: Delete line item

Program

UMBMSC9R Application:COM

Called from

AMBJ7XFR EXT:DLT Line item (et al)

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric

Program execution point

UMBMSC9R is executed before delete of quote/order line item.

Special considerations

None

Exit: PB finance chg maint

Program

UMBMSCAR Application:COM

Called from

AMBB7EFR EDT:Price Book Page 5

Parameters

Field	Mapping	Length	Type
Price book ID	I	5	alphanumeric
Date effective	I	7.0	numeric

Program execution point

This user exit will execute after Page 5 pricing maintenance.

Special considerations

None

Exit: Post pick prior prt

Program

UMBPC2R	Application:COM
---------	-----------------

Called from

AMBHXXFR	EXT: Pick List JOBQ driver
AMBNLXFR	EXT: Stock Pick JOBQ Drive

Parameters

Field	Mapping	Length	Type
Userid		10	alphanumeric
Trigger sequence number		7.0	numeric
Calling program		10	alphanumeric

Program execution point

This user exit will execute after the pick list records have been created and prior to the pick list being printed.

Special considerations

None

Exit: QT detailed item entry

Program

UMBQTD1R	Application:COM
----------	-----------------

Called from

AMBBAE1R	EDT:QT Detailed Item
----------	----------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no.		7	alphanumeric
Order qty in order u/m		10.3	numeric
Unit of measure code		2	alphanumeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric
Original item number		15	alphanumeric

Program execution point

This user exit is the last routine called for the line item processing of a quote. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: QT customer item

Program

UMBQTD2R	Application:COM
----------	-----------------

Called from

AMBBBE1R	EDT:QT Customer Item
----------	----------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no.		7	alphanumeric
Order qty in order u/m		10.3	numeric
Customer item number		30	alphanumeric
Unit of measure code		2	alphanumeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric
Original item number		15	alphanumeric

Program execution point

This user exit is the last routine called for a quote's line item processing of an item identified by a customer item number. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: QT non-inventory item

Program

UMBQTD3R Application:COM

Called from

AMBBHE1R EDT:QT Non-Inv. Item

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
User entered sequence no.	I	7	alphanumeric
Order qty in order u/m	I	10.3	numeric
Unit of measure code	I	2	alphanumeric
Warehouse	I	3	alphanumeric
Non-inventoried item no.	I	15	alphanumeric
Non-inventoried item desc	I	30	alphanumeric
Non-inventoried item cost	I	19.8	numeric
Non-inventoried item wght	I	10.3	numeric
Item type code	I	1	alphanumeric
Foreign description	I	30	alphanumeric
Item class code	I	4	alphanumeric

Program execution point

This user exit is the last routine called for a quote's line item processing of a non-inventory item. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and the Non-inventoried Item (MBCHRES0) record which have just been processed.

Exit: Begin quote

Program

UMBQTH1R	Application:COM
----------	-----------------

Called from

AMBBLPVR	PMT:Begin Quotation
----------	---------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Quote/order date		7.0	numeric
Customer number		8.0	numeric
Ship to number		8	alphanumeric
Warehouse		3	alphanumeric

Program execution point

The user exit is called during Order Entry. After the Quote/Order Header has been written, the user exit is called.

Special considerations

None

Exit: End quote

Program

UMBQTH2R	Application:COM
----------	-----------------

Called from

AMBBXPVR	PMT:End Quotation
----------	-------------------

Parameters

Field	Mapping	Length	Type
Company number	i	2.0	numeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric

Program execution point

The user exit is called at the end of Order Entry from the End Quotation panel. The user exit is called before the quote is printed, after the files have been updated.

Special considerations

None

Exit: Start of end quote

Program

UMBQTH3R

Application:COM

Called from

AMBBXPVR

PMT:End Quotation

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric

Program execution point

The user exit is called at the end of Quotation Entry from the End Quotation panel.
The user exit is called at the beginning of the end quote processing.

Special considerations

None

Exit: Enter special charge

Program

UMBSCD1R Application:COM

Called from

AMBBDE1R	EDT:1 Q/O Special Charge
AMBCNE1R	EDT: 1 CM Special Charge

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Special charge sequence	I	3.0	numeric
Special charge desc	I	30	alphanumeric
Special charge cost	I	13.2	numeric
Special charge code	I	1	alphanumeric
Special charge amount	I	13.2	numeric
LC special charge amount	I	13.2	numeric
Currency ID	I	3	alphanumeric
Special charge ID	I	3	alphanumeric
Tax indicator	I	3	alphanumeric
Surcharge code	I	3	alphanumeric
EEC commodity code	I	8	alphanumeric

Special considerations

Parameters passed include the key fields to the Quote/order special charge (MBC7RES0) record that has just been processed.

Exit: Enter ship spc chrg

Program

UMBSCD2R Application:COM

Called from

AMBdde1R EDT: CShip Special Charge

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Shipment number	I	1	alphanumeric
Special charge sequence	I	3.0	numeric
Special charge desc	I	30	alphanumeric
Special charge cost	I	13.2	numeric
Special charge code	I	1	alphanumeric
Cash discount application	I	1	alphanumeric
Special charge amount	I	13.2	numeric
Print before?	I	1	alphanumeric
Spec chg language desc	I	30	alphanumeric
Tax transaction type	I	10	alphanumeric
Tax class	I	15	alphanumeric
Shipment proration option	I	1	alphanumeric
Special charge ID	I	3	alphanumeric
Tax indicator	I	3	alphanumeric
EEC commodity code	I	1	alphanumeric

Program execution point

This user exit will execute after edits are complete.

Special considerations

None

Exit: Container assignment

Program

UMBSHP1R Application: COM

Called from

AMBAMETR	EDT: Container assign split
AMBFUDFR	DSP: CO pack confirm 1
AMBOYDFR	DSP: Confirm Container D+1
AMBOLDFR	DSP: Maintain Container D+1
AMBINPUR	PMT: Spec/Edit Pack Ctr

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Packed container code		1	alphanumeric
Packed container number		7.0	numeric
Packed container dtl seq		7.0	numeric
Kit release sequence		5.0	numeric
Packed container dtl cde		1	alphanumeric
Internal header type		1	alphanumeric
Quote/order number		7	alphanumeric
Packed qty – order u/m		10.3	numeric
Container ID		15	alphanumeric
Container type		3	alphanumeric
File operation		1	alphanumeric

Program execution point

None

Special considerations

The Assigned Quantity parameter is not available on a delete operation, so it is passed as a zero value. Parameters pass included the key fields to the Ship Item Container Assignment file. A file operation parameter is also passed, where:

- 1 Added
- 2 Changed
- 3 Deleted

Exit: Pro forma packing list

Program

UMBSHP2R Application:COM

Called from

AMBFTXFR	EXT:Pro forma pack list
AMBR2XF2	EXT:(Pick) Pro Forma P/L

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order Header	I	7	alphanumeric
Customer number	I	8.0	numeric
Ship to number	I	8	alphanumeric
Warehouse	I	3	alphanumeric

Program execution point

Called after the Pro Forma Packing print program or API. It can be used to print supplementary documentation.

Special considerations

The parameters passed are the key fields to the Quote/order header (MBC6RES1) record that is being processed.

A report override for this report (UMBSHP2R) is shipped with COM. The override(s) will be in effect when this program is called. The report can be controlled by warehouse. The XA program calls AXZPRT0C that performs the printer override on the printer file (UMBSHP2P) and then calls this program.

Exit: Pack list

Program

UMBSHP3R	Application:COM
----------	-----------------

Called from

AMBFHXFR	EXT:Packing list print
AMBRWXFR	EXT:Pack list Print – Cont.
AMBRXXFR	EXT:Packing list print

Parameters

Field	Mapping	Length	Type
Company number		12.0	numeric
Internal header type		1	alphanumeric
Quote/Order Header		7	alphanumeric
Shipment header number		7.0	numeric

Program execution point

Called after the Packing List print program or API. It can be used to print supplementary documentation.

Special considerations

The parameters passed are the key fields to the Shipment header (MBDHRES1) record that is being processed.

A report override for this report (UMBSHP3R) is shipped with COM. The override(s) will be in affect when this program is called. The XA program calls AXZPRT0C that performs the printer override on the printer file (UMBSHP3P) and then calls this program.

Exit: Serial number assignment

Program

UMBSHP4R Application:COM

Called from

AMBCCXFR EXT: Confirm Serial Driver

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1.0	numeric
Quote/Order Header		7.	alphanumeric
Shipment header number		7.0	numeric
Ship release number		7.0	numeric
kit release Sequence		5.0	numeric

Program execution point

None

Special Considerations

Parameters passed are the key fields to the Shipment release (MBDDRES0) record that has just been processed.

Exit: Process shipment

Program

UMBSHP6R	Application:COM
----------	-----------------

Called From

AMBASETREDT	Order items-ship conf
AMBAYETREDT	Shp cnf by whsloc/itm
AMBK4XFREXT	Create ship releases
AMBOQDFRDSP	Cnt Ship Dtl – Ord Ent
AMBO9DFRDSP	Cnt Shp Dtl – Whs Loc
AMBP1XFREXT	CShip Create Shipment

Parameters

Field	Mapping	Length	Type
Company number		12.0	numeric
Internal header type		1	alphanumeric
Quote/Order Header		7	alphanumeric
Shipment header number		7.0	numeric

Program execution point

The user exit is called when the program has finished processing all of the items on the shipment. The exit will be called only once during the processing of a shipment.

Special considerations

Parameters passed include the key fields of the Shipment header (MBDHRES1) record that has just been processed. If UMBSHP6R is called from a batch program it will execute UMBSHP6B, if called from an interactive program, it will execute UMBSHP6I.

Exit: Process credit memo

Program

UMBSHP7R Application:COM

Called From

AMBAVETREDT	Process CR return item
AMBGOPVRDSP	Ship return by CM no.
AMBL2XFREXT	Create ship CM rel
AMBP1XFREXT	Cship create shipment

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order Header		7	alphanumeric
Shipment header number		7.0	numeric

Program execution point

The user exit is called when the program has finished processing all of the items on the credit memo. The exit will be called only once during the processing of a credit memo.

Special considerations

Parameters passed include the key fields of the Shipment header (MBDHRES1) record that has just been processed.

Exit: Process ship order item

Program

UMBSHP8R	Application:COM
----------	-----------------

Called from

AMBASETR	EDT: Order items-sip cnf
AMBAYETR	EDT: Shp cf by wshloc/itm
AMBK4XFR	EXT: Create ship releases
AMBOQDFR	DSP: Cnf Shp Dtl – Ord Ent
AMBOQDFR	DSP: Cnf Shp Dtl – Whs Loc
AMBP6XFR	EXT: Cship Ord Ship Release

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order Header		7	alphanumeric
Shipment header number		7.0	numeric
Ship release sequence		7.0	numeric
Kit release sequence		5.0	numeric
Shipped quantity		10.3	numeric

Program execution point

The user exit is called when the program is processing each of the items on the shipment. The exit will be called one time for every item during the processing of a shipment.

Special considerations

The user exit UMBSHP8R determines if it is run in batch or interactively. Parameters passed include the key fields of the Shipment release (MBDDRES1) record that has just been processed. If UMBSHP8R is called from a batch program, it will execute UMBSHP8B. If called from an interactive program, it will execute UMBSHP8I.

Exit: Process cr memo item

Program

UMBSH9PR Application:COM

Called from

AMBIMPVR EDT:Specify Ship Actions

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Shipment number		7.0	numeric

Special considerations

The keys to the Consolidate Shipment file will be passed. From this file, you can get all orders being processed on the shipment. The user exit will not be executed if the Specify Ship Actions is not displayed. The user exit will be called after the consolidated shipment and shipment headers have been created.

Exit: Process pick list

Program

UMBSHPCR	Application:COM
----------	-----------------

Called from

AMBNTXFR	EXT:Pro Smart Trigger Rls
AMBFQXFR	EXT:Process Trigger Rls
AMBNLXFR	EXT:Stock pick JOBQ driver
AMBZJXFB	EXT:Sel pic to Pk/Shp (SA)
AMBQRXFR	EXT:Sel Pick to Pack/Ship

Parameters

Field	Mapping	Length	Type
APPLICATION ID LETTER		1	alphanumeric
Process Group Code		3	alphanumeric
User exit/API code		1	alphanumeric
Userid		10	alphanumeric
Trigger sequence number		7.0	numeric
Internal Header Type		1	alphanumeric
Company Number		2.0	numeric
Quote/order number		7	alphanumeric

Program execution point

None

Special considerations

Parameters passed included the key fields to the Ship Item Container Assignment file. A file operation parameter is also passed, where:

- 1 Add
- 2 Change
- 3 Delete

Exit: End pick confirmation

Program

UMBSHPDR Application:COM

Called from

AMBG9DFR DSP:Sel Ords f/Pick Conf

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order Header	I	7	alphanumeric
Pick list number	I	7.0	numeric

Program Execution Point

The user exit will be executed after processing option 32 or 33 on panel AMBG9DFR.

Special considerations

None

Exit: Pack/Ship select process

Program

UMBSHPLR Application:COM

Called from

AMBO8XFR EXT: PRCS Selected Record

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	alphanumeric
Warehouse	I	3.0	alphanumeric
Staging Location	I	7.0	alphanumeric
Packed ctn dtl cde	I	1.0	alphanumeric
Item Number	I	15.0	alphanumeric
Quote/Order Number	I	7.0	alphanumeric
Line Item Sequence	I	7.0	numeric
Release Number	I	5.0	numeric
Packed ctn dtl seq	I	7.0	numeric
Customer Number	I	8.0	numeric
Held Status	I	1.0	alphanumeric
Available on hand	I	10.3	numeric
Ship to number	I	8.0	alphanumeric
Pick List Number	I	7.0	numeric
Continue?	B	1.0	alphanumeric

Program execution point

This exit allows the user to control the selection of line item releases for packing and shipping. A return value of zero (0) in the Continue parameter will prevent the line item from being selected for packing or shipping.

Special considerations

None

Exit: SO detail item entry

Program

UMBSOD1R	Application:COM
----------	-----------------

Called from

AMBA8E1R	EDT:SO detailed item
----------	----------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no		7.0	alphanumeric
Order qty order u/m		10.3	numeric
Unit of measure code		2	alphanumeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric
Original item number		15	alphanumeric

Program execution point

This user exit is the last routine called for the line item processing of a standing order. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: SO customer item

Program

UMBSOD2R Application:COM

Called from

AMBA9E1R EDT:SO Customer Item

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no		7.0	alphanumeric
Order qty order u/m		10.3	numeric
Unit of measure code		2	alphanumeric
Item number		15	alphanumeric
Warehouse		3	alphanumeric
Original item number		15	alphanumeric

Program execution point

This user exit is the last routine called for a standing order's line item processing of an item identified by a customer item number. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record that has just been processed.

Exit: SO non-inventory item

Program

UMBSOD3R	Application:COM
----------	-----------------

Called from

AMBBIE1R	EDT:SO Non-Inv. Item
----------	----------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order number		7	alphanumeric
Line item sequence		7.0	numeric
User entered sequence no		7.0	alphanumeric
Order qty order u/m		10.3	numeric
Unit of measure code		2	alphanumeric
Warehouse		3	alphanumeric
Non-inventoried item no.		15	alphanumeric
Non-inventoried item desc.		30	alphanumeric
Non-inventoried cost		19.8	numeric
Non-inventoried item wght.		10.3	numeric
Item type code		1	alphanumeric
Foreign description		30	alphanumeric
Item class code		4	alphanumeric

Program execution point

This user exit is the last routine called for a standing order's line item processing of a non-inventory item. All updates have already occurred for the line item and no information is passed back from the user exit to the calling program.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and the Non-inventoried Item (MBCHRES0) record which have just been processed.

Exit: Begin standing order

Program

UMBSOH1R Application:COM

Called from

AMBBMPVR PMT:Begin Standing Order

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order number		7	alphanumeric
Quote/order date		7.0	numeric
Customer Number		8	alphanumeric
Warehouse		3	alphanumeric

Program execution point

The user exit is called during Order Entry. After the Quote/Order Header has been written, the user exit is called.

Special considerations

None

Exit: End standing order

Program

UMBSOH2R Application:COM

Called from

AMBBYPVR PMT:End Standing Order

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order number	I	7	alphanumeric

Program execution point

The user exit is called at the end of Order Entry from the End Standing Order panel. After all requested batch reports have been submitted or interactive jobs are run, the user exit is called.

Special considerations

None

Exit: Start of end standing order

Program

UMBSOH3R Application:COM

Called from

AMBBYPVR PMT:End Standing Order

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order number		7	alphanumeric

Program execution point

None

Special considerations

Parameters passed are the key fields to the Quote/Order Header (MBC6RES0) record that has just been completed.

International Financial Management

Exit: Late payment interest calc.

Program

UM5CLC1R Application:IFM

Called from

UAIHXFR EXT: LPB Calc. Interest

Parameters

Field	Mapping	Length	Type
Allocate to admin. div	I	10	alphanumeric
Allocate to transaction	I	11.0	numeric
Allocate to settlement line	I	5.0	numeric
Allocate to entity	I	10	alphanumeric
Allocate to settlement terms	I	10	alphanumeric
Allocation to due date	I	7.0	numeric
Sequence date of document	I	7.0	numeric
Settlement value (tr/cy)	I	17.0	numeric
Allocation line value (sl/cy)	I	17.0	numeric
Orig. settlement bal o/s TTC	I	17.0	numeric
LPB No. of days delay	I	7.0	numeric
Allocation Ln Interest	O	17.0	numeric

Program execution point

This user exit is called when Calculate Late Payment Interest is run. It is executed for each allocation line. (i.e. each payment made) to a settlement line. There can be more than one allocation line to a settlement line. This program is executed only for those lines where the payment is made after the due date.

Special considerations

None

Exit: Calc and display install. sched.**Program**

UM5CLC2R

Application:IFM

Called from

UAP6E2R

IPE:Installment pmt entry

Parameters

Field	Mapping	Length	Type
Admin division ID		10	alphanumeric
Installment payment ID		5	numeric
Installment method ID		10	alphanumeric
Entry ID		10	alphanumeric
Transaction ID		10	alphanumeric
Transaction number		14	alphanumeric
Company number		2.0	numeric
Customer number		8.0	numeric
Internal header type		1	alphanumeric
Order number – customer		7	alphanumeric
Invoice number – customer		6.0	numeric
Invoice nbr seq – customer		7.0	numeric
Vendor number		6.0	numeric
Purchase order number		17	alphanumeric
Agreed down payment		17.0	numeric
Invoice down payment		17.0	numeric
Agreed financing		17.0	numeric
Amount financed		17.0	numeric
Order/invoice amount		17.0	numeric
Order/invoice items amt.		17.0	numeric
Order/invoice taxes		17.0	numeric
Order/invoice spc charges		17.0	numeric
Invoice discrepancy		1	alphanumeric
Number of installments		3.0	numeric
Date method ID		10	alphanumeric
Interest rate		13.9	numeric
Currency ID		4	alphanumeric
Charge ID		10	alphanumeric
Unit control contra		10	alphanumeric
Unit control		10	alphanumeric

Field	Mapping	Length	Type
Unit reclass for principle	I	10	numeric
Unit interest inc/expl	I	10	alphanumeric
Unit accrued interest	I	10	alphanumeric
Nature control	I	10	alphanumeric
Nature control contral	I	10	alphanumeric
Nature reclass for principle	I	10	alphanumeric
Nature accrued interest	I	10	alphanumeric
Initial due date	I	7.0	numeric
Tax Txn type	I	10	alphanumeric
Initial due date	I	7.0	numeric
Installment percent ID	I	10	alphanumeric
Program exit control	B	1	alphanumeric

Program execution point

Called when F17=Calculate/display payments is pressed from the Installment payments panel.

Special considerations

None

Exit: Calc inst. pmts. batch

Program

UM5CLC3R

Application:IFM

Called from

UA4TXFR

EXT: IPC Calc Inst batch

Parameters

Field	Mapping	Length	Type
Admin division	I	10	alphanumeric
Installment payment ID	I	5.0	numeric
Installment method ID	I	10	alphanumeric
Financial decision ID	I	10	alphanumeric
Entity ID	I	10	alphanumeric
Transaction ID	I	11.0	numeric
Transaction number	I	14	alphanumeric
Company number	I	2.0	alphanumeric
Customer number ATR	I	8.0	numeric
Internal header type	I	1	alphanumeric
Order-number customer	I	7.0	alphanumeric
Invoice number customer	I	6.0	numeric
Invoice nbr seq-customer	O	7.0	numeric
Vendor number	I	6	alphanumeric
Purchase order number	I	7	numeric
Agreed down payment	I	17.0	numeric
Invoiced down payment	I	17.0	numeric
Agreed financing	I	17.0	numeric
Amount financed	I	17.0	numeric
Order/Invoice amount	I	17.0	numeric
Order/invoice items amt	I	17.0	numeric
Order/Invoice taxes	I	17.0	numeric
Order/Invoice spc charges	I	17.0	numeric
Currency ID	I	4	alphanumeric
Initial due date	I	7.0	numeric

Program execution point

This exit is called from within the transaction processor and is part of the installment processing.

Special considerations

None

Exit: Force only payment

Program

UM5CLC6R	Application:IFM
----------	-----------------

Called from

YAFLXFR	EXT: Pay generate playlist
UAEBXFR	EXT: BSC Plist redirection
UAEUDFR	DFR: BSC Sel payment list dtls

Parameters

Field	Mapping	Length	Type
Admin division	I	10	alphanumeric
Financial division ID	I	10	alphanumeric
Payment list ID	I	7.0	numeric
Payment list line no	I	5.0	numeric
Aggregated payment	I	1	alphanumeric
Calculated settlement val	I	17.0	numeric
Fn/dv settlement balance	I	17.0	numeric
Force payment Y/N	O	1	alphanumeric

Program execution point

This exit is called during payment list generation.

Special considerations

This API was intended to allow customers to provide the logic for determining if a Payment list detail should be a forced only payment entry. If the "Force payment Y/N" parameter is returned to the calling program with "1", the calling program will drop the details from the payment list and issue a diagnostic error. If "0" is returned, the payment list detail will be included for payment.

Exit: Calc item prorate percent

Program

UM5CLC9R

Application:IFM

Called from

UAOCXFR

TRV update prorate amts

Parameters

None

Program execution point

None

Special considerations

None

Exit: Start of transaction

Program

UM5CLCAR	Application:IFM
----------	-----------------

Called from

YAA3E1R	RE header 1
---------	-------------

Parameters

Field	Mapping	Length	Type
Admin division ID		10	alphanumeric
Financial division ID		10	alphanumeric
Entity ID		10	alphanumeric
Transaction ID		11.0	numeric
Transaction number		14	alphanumeric

Program execution point

Exit: Start of Transaction executes when **Enter** key or next page is pressed on YAA3E1R.

Special considerations

Non-Brazil users will see normal user exit processing when the user exit is active. Brazil users will see screens coded exclusively for them when the user exit is active.

Exit: End of transaction

Program

UM5CLCBR	Application:IFM
----------	-----------------

Called from

YAU9XFR	TRV Process transaction X
---------	---------------------------

Parameters

Field	Mapping	Length	Type
Admin division ID		10	alphanumeric
Financial division ID		10	alphanumeric
Entity ID		10	alphanumeric
Transaction ID		11.0	numeric
Transaction number		14	alphanumeric

Program execution point

Exit: End of Transaction executes prior to creating trial balance and GL summary records in YAU9XFR.

Special considerations

Non-Brazil users will see normal user exit processing when the user exit is active. Brazil users will see screens coded exclusively for them when the user exit is active.

Exit: Populate interdiv. detail

Program

UM5MSC1R Application:IFM

Called from

UAWMPVR IDE Pmt for ID trade ptnr

Parameters

Field	Mapping	Length	Type
Admin division ID	I	10	alphanumeric
ID trading partner id	I	10	alphanumeric

Program execution point

This user exit is called when creating an inter-division transfer (menu AM5M26, Option 9).

Special considerations

None

Exit: Maintain Interdiv. detail

Program

UM5MSC2R	Application:IFM
----------	-----------------

Called from

AM5IDR	IDT Create PO records
--------	-----------------------

Parameters

None

Special considerations

None

Exit: 1-GRN active = val & expand

Program

UM5MSC7R

Application:IFM

Called from

UAQPPVR

TRG auto gen one goods rec

Parameters

None

Program execution point

None

Special considerations

None

Exit: MasterSAF 1

Program

UM5MSCAR	Application:IFM
----------	-----------------

Called from

YAGSE1R	TBL Maintain Units
---------	--------------------

Parameters

Field	Mapping	Length	Type
Admin division ID	I	10	alphanumeric
Unit ID	I	10	numeric

Program execution point

UM5MSCAR will be executed just before update/create of Unit record.

Special considerations

None

Exit: MasterSAF 2

Program

UM5MSCBR	Application:IFM
----------	-----------------

Called from

YAC8E1R	TBL maintain document typ
---------	---------------------------

Parameters

Field	Mapping	Length	Type
Admin division ID		10	alphanumeric
Unit ID		10	numeric

Program execution point

UM5MSCBR will be executed just before update/create of Document Type record.

Special considerations

None

Exit: MasterSAF 3

Program

UM5MSCCR Application:IFM

Called from

YACVE1R TBL Maintain natures

Parameters

Field	Mapping	Length	Type
Admin division ID		10	alphanumeric
Unit ID		10	numeric

Program execution point

UM5MSCCR will be executed just before update/create of Natures record.

Special considerations

None

Exit: MasterSAF 4

Program

UM5MSCDR Application:IFM

Called from

YA92E2R TBLMnt tax code rslt dta

Parameters

Field	Mapping	Length	Type
Admin division ID		10	alphanumeric
Tax code		5	alphanumeric
Tax code result		10	alphanumeric
Tax code result data		7	alphanumeric

Program execution point

UM5MSCDR will be executed just before update/create of Tax Code Result Data record.

Special considerations

None

Exit: Calculate note due

Program

UM5NTC1R

Application:IFM

Called from

UAK8XFR

TRV Note generation

Parameters

Field	Mapping	Length	Type
Admin division ID	I	10	alphanumeric
Note method ID	I	10	alphanumeric
Payable/receivable	I	1	alphanumeric
Currency ID	I	4	alphanumeric
Financial division ID	I	10	alphanumeric
Note due date	B	7.0	numeric
Entity ID	I	10	alphanumeric
Note date of document	I	7.0	numeric

Program execution point

This exit is called during note generation. It determines the note due date.

Special considerations

None

Exit: Calculate note trans number

Program

UM5NTC2R

Application:IFM

Called from

UAK8XFR

TRV Note generation

Parameters

Field	Mapping	Length	Type
Admin division ID	I	10	alphanumeric
Note method ID	I	10	alphanumeric
Payable/receivable	I	1	alphanumeric
Currency ID	I	4	alphanumeric
Financial division ID	I	10	alphanumeric
Note due date	B	7.0	numeric
Entity ID	I	10	alphanumeric
Note date of document	I	7.0	numeric

Program execution point

This exit is called during note generation and determines the note due date.

Special considerations

None

Exit: Print late payment interest

Program

UM5RPT1R Application:IFM

Called from

UAIHXFR LPB Calc, Interest

Parameters

Field	Mapping	Length	Type
Admin division ID	I	10	alphanumeric
Transaction ID	I	11.0	numeric

Program execution point

This exit is used to print invoices for late payment interest billing function and is executed for each entity after a late payment calculation is made.

Special considerations

None

Exit: Print withholding amount

Program

UM5RPT2R Application:IFM

Called from

UAIHXFR	TRV Withholding generation
UA5TXFR	TRV Withholding generation
UAZHXFR	GET Withhold method dtl inf.

Parameters

Field	Mapping	Length	Type
Admin division ID	I	10	alphanumeric
Withholding method ID	I	10	alphanumeric
Date of date	I	7.0	numeric
Withholding rate	I	5.2	numeric
Transaction ID	I	11.0	numeric
Transaction number	I	14	alphanumeric
Charge line no	I	5.0	numeric
Charge ID	I	10	alphanumeric
Withholding amount	B	17.0	numeric

Program execution point

This exit is called from within the transaction processor as part of the withholding processing.

Special considerations

None

Exit: Minimum withholding tax

Program

UM5TAX1R

Application:IFM

Called from

UAB1XFR

EXT; TRV Charge Line

UAZ8XFR

EXT: TRV Minimum Tax

Parameters

Field	Mapping	Length	Type
Tax code	I	10	alphanumeric
Accum total	I	19.2	numeric
Delete tax	O	1	alphanumeric
Admin division ID	I	10	alphanumeric
Transaction ID	I	11.0	numeric
Transaction number	I	14	alphanumeric
Transaction type	I	10	alphanumeric
Tm fn/dv	I	10	alphanumeric
Transaction ledger	I	10	alphanumeric
Date of document	I	7.0	numeric
Effective date	I	7.0	numeric
Date of supply	I	7.0	numeric
Transaction period	I	1	alphanumeric
Trn period display seq	I	7.0	numeric
Omit from period accrual	I	1	alphanumeric
Transaction entity name	I	26	alphanumeric
Reference	I	26	alphanumeric
Transaction entity	I	10	alphanumeric
Trn contact	I	10	alphanumeric
Order/ship entity	I	10	alphanumeric
Order/ship reference	I	14	alphanumeric
Apply tax to transaction	I	1	alphanumeric
Contingent liability	I	1	alphanumeric
TRN value: personal lgr	I	17.0	numeric
TRN value: cash	I	17.0	numeric
TRN value: value lines	I	17.0	numeric
TRN value: general ledger	I	17.0	numeric
TRN balance: allocation	I	17.0	numeric
TRN balance: settlement	I	17.0	numeric
Transaction currency	I	4	alphanumeric

Field	Mapping	Length	Type
Transaction exchange rate		15.8	numeric
TRN multiplier/divider		1	alphanumeric
TRN exchange rate override		1	alphanumeric
Batch ID		11.0	numeric
Originating unit		10	alphanumeric
Originating user		10	alphanumeric
TRN in/dv acct type		10	alphanumeric
TRN apportionment		10	alphanumeric
Transaction source		2	alphanumeric
Last line no		5.0	numeric
Last attribute line no		3.0	numeric
Transaction narrative		4.0	alphanumeric
Transaction status		1	alphanumeric
Transaction posted		1	alphanumeric
Transaction in use		1	alphanumeric
Unposted allocations		1	alphanumeric
Repeating transaction		1	alphanumeric
Ignore warnings		1	alphanumeric
Archive status		1	alphanumeric
Trans approv status		1	alphanumeric
One time account trn		1	alphanumeric
Audit stamp: trn status		11.0	numeric
Audit stamp: entry		11.0	numeric
Audit stamp: last change		11.0	numeric
Audit stamp: trn in use		11.0	numeric
Audit stamp: last sys change		11.0	numeric
Narrative ID		11.0	numeric
Tx type		1	alphanumeric
Installment method ID		10	alphanumeric
Note method ID		10	alphanumeric
Note transaction number		14	alphanumeric
Note due date		7.0	numeric
Withholding method ID		10	alphanumeric
ID trading partner ID		10	alphanumeric
ID reference number		7.0	numeric
Journal type (posted)		10	alphanumeric
Journal number (posted)		14	alphanumeric
Journal type (reassign)		10	alphanumeric
Journal number (reassign)		14	alphanumeric
Tax txn type		10	alphanumeric
PO currency		4	alphanumeric

Field	Mapping	Length	Type
PO exchange rate		15.8	numeric
PO multiplier/divider		1	alphanumeric
PO exchg rate override		1	alphanumeric
Posting sequence number		11.0	numeric
TRN value: sttlement (tr/cy)		17.0	numeric
TRN value: sttlement (fd/cy)		17.0	numeric
TRN balance: settlement O/S		17.0	numeric
Gn/lg postings trn		11.0	numeric
Source transaction		11.0	numeric

Program execution point

This user exit is called within the transaction processor and is called at the end of the charge line processing.

Special considerations

Output parameter: Delete Tax is expected to return one of the following values:

0	No
1	Yes

Material Requirements Planning

Exit: End of planning run

Program

UMMPLNSP

Application:MRP

Called from

AMMP61

Parameters

Field	Mapping	Length	Type
LDA	I	1024	alphanumeric
Warehouse	I	3	alphanumeric

Program execution point

UMMPLNSP will be executed after the Order Review file has been built.

Special considerations

None

Purchasing

Exit: Additional vendor data

Program

UM6MNT1R

Application: PUR

Called from

AMV77

AMV73

Parameters

Field	Mapping	Length	Type
Program return code	I/O	7	Alphanumeric
Vendor number	I	6	Alphanumeric
Activity flag	I	1	Alphanumeric

Program execution point

If this user exit is active it will be called every time an add, change, delete, suspend or activate occurs in program AMV77. If this user exit is active it will be called every time the page down key is pressed on display screen 3 in program AMV73.

Special considerations

Note: The valid Activity Flag values are:

- 1 Add
- 2 Change
- 3 Delete
- 4 Display
- 5 Suspend
- 6 Activate

Exit: Additional vendor/item data

Program

UM6MNT2R Application: PUR

Called from

AM640

AM65R

Parameters

Field	Mapping	Length	Type
Program return code	I/O	7	Alphanumeric
Vendor number	I	6	Alphanumeric
Item number	I	15	Alphanumeric
Activity Flag	I	1	Alphanumeric

Program execution point

If this user exit is active it will be called every time an add, change or delete occurs in program AM640. If this user exit is active it will be called every time the **Enter** key is pressed on display AM65R.

Special considerations

Note: The valid Activity Flag values are:

- 1 Add
- 2 Change
- 3 Delete
- 4 Display

Production Monitoring and Control

Exit: User defined transaction processor

Program

AMJPZZ

Application: PMC

Called from

AMJPCQ**Parameters**

None.

Special considerations

AMJPZZ is provided within the CL program that executes the PREPARE step for Production Monitoring and Control. It can be used to edit user defined transactions or capture TRDATA file information before the prepared records are flagged for deletion from the file.

Note: See the Prepare Function in the Appendix under User - Defined Transaction Types in the Production Monitoring and Control User's Guide for more information about implementing the user exit.

Repetitive Production Management

Exit: Schedule release

Program

AMQ7A

Application: REP

Called from

AMQ4N

Parameters

Field	Mapping	Length	Type
Order number	I	7.0	alphanumeric

Program execution point

After the schedule has been verified valid to release, but before the schedule is released.

Special considerations

Order Number is the schedule number of the schedule being released.

Chapter 3. Application Program Interfaces (API)

Cross Application Support

API: Customer key screen

Program

UMVCUM5R	Application: CAS
----------	------------------

Called from

AMVA3PVR	PMT:Show Co., enter customer
----------	------------------------------

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Customer number	I	8.0	numeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This API is executed prior to a customer number being accepted. If the API output parameter, error flag, sends back a parameter value other than a blank, meaning an error has occurred, the delete processing will be stopped. In order for the customer number to be accepted, the error flag value that is returned to the calling program must be a value of "blank".

Special considerations

None.

API: Tax code authority

Program

UMZCFM2R	Application: CAS
----------	------------------

Called from

AMVAVEFR	EDT: Tax codes for authority
AMVAYEFR	EDT: Add tax code records

Parameters

Field	Mapping	Length	Type
Tax code	I	5	alphanumeric
EEC VAT indicator	I	1	alphanumeric
Description	I	25	alphanumeric
Action	I	3	alphanumeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This API is called when adding, changing or deleting tax codes. If an error is returned from the API, XA will stop processing based upon the error flag sent from the user exit. If the error flag is a blank, processing will continue as normal, otherwise processing will be stopped and the line will be highlighted.

Action codes include:

- ADD
- CHG (change)
- DLT (delete)

Special considerations

None.

API: VAT/sales tax calculation

Program

UMZCLC3R	Application: CAS
----------	------------------

Called from

AXZ42	Calculate tax
-------	---------------

Parameters

Field	Mapping	Length	Type
Function Request Code	I	1	alphanumeric
Company Number	B	2.0	numeric
Tax indicator	I	3	alphanumeric
Tax suffix	I	5	alphanumeric
Tax code	B	5	alphanumeric
Invoice date	I	7.0	numeric
Invoice amount	I	13.2	numeric
Cash discount amount	I	13.2	numeric
Cash discount percent	I	5.3	numeric
Tax in item price	I	1	alphanumeric
Return code for AXZ42	O	1	alphanumeric
Tax base amount	O	13.2	numeric
Tax amount	O	13.2	numeric
Tax description	O	15	alphanumeric
Tax percent	O	5.3	numeric
Tax effective date	O	6.0	numeric
Tax base code	O	1	alphanumeric
Not-taxable indicator	O	1	alphanumeric
Compound tax uplift	O	5.4	numeric
Purchase acctg method	O	1	alphanumeric
Purchase account	O	15.0	numeric
Use tax account	O	15.0	numeric
Sales accounting method	O	1	alphanumeric
Sales account	O	15.0	numeric
Special charge reference	O	3	alphanumeric

Program execution point

AMBAGETREDT	CO Blanket release
AMBAXETREDT	Enter Blankets
AMBA1E1REDT	CO Detailed Item
AMBA3E1REDT	CO Customer Item
AMBBAD1RDSP	CO Int/Cust Line Item
AMBBAE1REDT	QT Detailed Item
AMBBDE1REDT	1Q/O Special Charge
AMBBBE1REDT	QT Customer Item
AMBB0E1REDT	CO Imm CUSTomer Item
AMBB9E1REDT	CO Imm Detailed Item
AMBCNE1REDT	1CM Special charge
AMBCOXFREXT	Calc Tax and Trade Disc
AMBCVXFREXT	Release Time Pricing
AMBC3XFREXT	Copy Order and Details
AMBC9XFREXT	Order Copy Full Order
AMBDRXFREXT	Copy Special Charge >Live
AMBELXFREXT	Build Tax Records
AMBELXFREXT	End Screen init
AMBFOXFREXT	Invoice Surcharges
AMBGCDFRDSP	Order copy-spc chgs
AMBGQXFRDSP	Order copy Hist SC
AMBG1PVRPMT	Line Item Ship To Over
AMBHZXFREXT	EDI Acknowledgments
AMBIYXFREXT	Line Item Order Actions
AMBI7XFREXT	Copy Line Item
AMBL9XFREXT	Temp Hist-Ack, Quote
AMBMWXFREXT	Speed Edits and Calc
AMBNEXFREXT	EC EDI Ackno
AMBNJXFREXT	Copy In/SpcChrg live
AMBNNXFREXT	Accum open item val
AMBNUXFREXT	Copy offline rls > Live
AMBN4XFREXT	EC EDI Quotation
AMBOJXFREXT	Accu Tax SurChg and Tax
AMBOKXFREXT	Accu Tax SurChg and Tax
AMBO3XFREXT	Prc Lne Itm (End Order)
AMBO4XFREXT	Calc open order val
AMBQ8XFREXT	Prorate Special Charge

Customer Order Management

API: Customer credit check

Program

UMBCLC1R Application:COM

Called from

AMBBTTPVR	PMT: End Customer Order
AMBBWPVR	PMT:End Credit Memo
AMBBXPVR	PMT:End Quotation
AMBBYPVR	PMT:End Standing Order
AMBFVPVR	PMT:End Immediate Ship
AMBMBXFR	EXT:End Offline Order
AMBBGPFR	PRT:Evaluate Order Holds

Parameters

Field	Mapping	Length	Type
Customer number		8.0	numeric
Company number		2.0	numeric
Credit limit		13.0	numeric
Credit check required		1	alphanumeric
Automatic credit hold		1	alphanumeric
A/R consolidation code		1	alphanumeric
LC credit limit		13.0	numeric
Parent customer number		8.0	numeric
Internal header type		1	alphanumeric
Quote/order header		7	alphanumeric
Current order cost		13.2	numeric
Invoice amount		13.2	numeric
Order currency ID USR		3	alphanumeric

Program execution point

The credit check is performed after executing a program EXT: End Screen Init (AMBFAFXFR). This program computes all of the order values which will be used in order to determine if the order is to be placed on hold for credit reasons.

Special considerations

The program UMBCLC1R will determine if it was called from an interactive or a batch program. Based upon this determination, UMBCLC1R will call UMBCLC1I for interactive programs or UMBCLC1B for batch programs. The parameters passed to both of these programs are exactly the same as the parameters that were sent to

UMBCLC1R. By doing a call to two different programs, the API will allow different processing for batch and interactive program.

The XA code does the following when an order fails the credit check:

- Places the order on hold, by writing a record to the order hold xref file (MBCKREP)
- Returns a message "(I) Order hold &1 added" to the calling program, where &1 is the hold code.

Note: When orders are on hold, they are not eligible for pick list print or for shipping if company flag is set to evaluate order holds at shipping.

API: Price calculation**Program**

UMBCLC2R	Application:COM
----------	-----------------

Called from

AMBJ8XFR	EXT:Line Item Pricing
AMBPRXFR	EXT:Pricing R3

Parameters

Field	Mapping	Length	Type
Company Number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Quote/order date	B	7.0	numeric
Override exchange rate	B	11.6	numeric
Override exchange rate date	B	7	alphanumeric
Currency ID	B	3	alphanumeric
Customer price code	B	2	alphanumeric
Customer number	I	8.0	numeric
Line item sequence	I	7.0	numeric
Order qty in order u/m	B	10.3	numeric
Selling price in order u/m	B	17.7	numeric
Selling price in price u/m	B	15.3	numeric
Net sales amount	B	15.3	numeric
Price source code	B	1	alphanumeric
Base price	B	15.3	numeric
LC - base price	B	15.3	numeric
LC - selling price	B	15.3	numeric
LC converted selling price	B	17.7	numeric
LC - net sales amount	B	15.3	numeric
S-number	I	20	alphanumeric
Discount percent	I	5.3	numeric
Page 5 pricing ?	O	1	alphanumeric
Base price accumulator	B	15.3	alphanumeric
Price book ID	I	5	alphanumeric
Contract number	B	50.0	numeric
Contract promo indicator	B	1	alphanumeric
Dimension U/M	I	2	alphanumeric
Pricing unit of measure	I	2	alphanumeric
Item number	I	15	alphanumeric

Field	Mapping	Length	Type
Warehouse	I	3	alphanumeric
Pricing action USR	I	1	alphanumeric
Exchange rate flag	I	1	alphanumeric
Compare base price	B	15.3	numeric
Compare net sales	B	15.3	numeric
Compare selling in ord UM	B	17.7	numeric
Compare selling in prc UM	B	15.3	numeric
S-number flag	I	1	alphanumeric
Condition name USR	O	25	alphanumeric
S-number or KBC unit cost	I	19.8	numeric
Interactive pricing? USR	I	1	alphanumeric
Detail overrides	I	1	alphanumeric
Credit itm validation USR	I	1	alphanumeric
Feature/option template	I	20	alphanumeric
Cost cal method for acc	I	1	alphanumeric
Billing & inventory inter	I	1	alphanumeric
Tax in price flag	I	1	alphanumeric
Invoice total discount?	I	1	alphanumeric
Tax suffix – customer	I	5	alphanumeric
Language code	I	3	alphanumeric
Terms code	I	2	alphanumeric
Tax suffix (key)	I	5	alphanumeric
Ship to number	I	8	alphanumeric
Trade discount code	I	12	alphanumeric
Tax override date	I	7.0	numeric
Tax indicator	I	3	alphanumeric
Ship to number override	I	8	alphanumeric
Tax transaction type	I	10	alphanumeric
Tax class	I	15	alphanumeric
Calculation permanence	I	1	alphanumeric
IFM AR interface	I	1	alphanumeric
Tax include net sales – LC	B	15.3	numeric
Tax include net sales	B	15.3	numeric
Tax include sell prc – lc	B	17.7	numeric
Tax include sell prc	B	17.7	numeric
Return code (USR)	O	1	alphanumeric

Program execution point

AMBA1E1R	EDT: CO Detailed Item
AMBA3E1R	EDT: CO Customer Item
AMBA5E1R	EDT: CM Detailed Item

AMBA6E1R	EDT: CM Customer Item
AMBA8E1R	EDT: SO Detailed Item
AMBA9E1R	EDT: SO Customer Item
AMBBAE1R	EDT: QT Detailed Item
AMBBBE1R	EDT: QT Customer Item
AMBBFE1R	EDT: CO Non-inv. Item
AMBBGE1R	EDT: CM Non-inv. Item
AMBBHE1R	EDT: QT Non-inv. Item
AMBBIE1R	EDT: SO Non-inv. Item
AMBBOE1R	EDT: CO Imm Customer Item
AMBB9E1R	EDT: CO Imm Detailed Item
AMBCAE1R	EDT: CO Imm Non-inv. Item
AMBCBE1R	EDT: CM Imm Non-inv
AMBCCE1R	EDT: CM Imm Detailed Item
AMBCDE1R	EDT: CM Imm Customer Item
AMBCVXFR	EXT: Release Time Pricing
AMBC9XFR	EXT: Order copy-full order
AMBESEFR	EDT: CO/SO/QT Basic Item
AMBFAFXFR	EXT: End Screen init
AMBGTDFR	DSP: Order Copy - Inv Item
AMBI7XFR	EXT: Copy Line Item>Live
AMBH5PVR	PMT: Pricing Inq - Display
AMBLDXFR	EXT: DSP Qty Price Breaks
AMBL3DFR	EDT: CM Basic Item
AMBL5DFR	EDT: CO Imm Basic Item
AMBL9DFR	EDT: CM Imm Basic Item
AMBMAXFR	EXT: Copy Line items
AMBMWXFR	EXT: Speed Edits & Calc
AMBNJXFR	EXT: Copy In/SpcChrg Line
AMBSXXFR	EXT: Cmpl Inv – Ship Copy

Special considerations

The API Price Calculation program UMBCLC2R replaces the XA pricing code. The API is called from the EXT: Line Item Pricing program AMBPRXFR. If the API is active UMBCLC2R is called.

API: Third party tax calc**Program**

UMBCLC4R Application:COM

Called from

AMBMRXFR EXT:Third Party Tax Calc

Parameters

Field	Mapping	Length	Type
Company Number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Item number	I	15	alphanumeric
Tax indicator	I	3	alphanumeric
Tax suffix	I	5	alphanumeric
Tax code	O	5	alphanumeric
Tax override date	I	7.0	numeric
Tax in item price	I	1	alphanumeric
Cash discount amount	I	13.2	numeric
Cash discount percent	I	5.3	numeric
Invoice number	I	6.0	numeric
Invoice date	I	7.0	numeric
Invoice amount	I	13.2	numeric
Ship to state	I	2	alphanumeric
Ship to postal code	I	10	alphanumeric
Ship to city	I	35	alphanumeric
Customer number	I	8.0	numeric
Tax files updated	I	1	alphanumeric
Special charge sequence	I	3.0	numeric
Special charge reference	B	3	alphanumeric
Special charge code	B	1	alphanumeric
Tax base amount	O	13.2	numeric
Tax amount	O	13.2	numeric
Tax description	O	15	alphanumeric
Tax percent	O	5.3	numeric
Tax effective date	O	7.0	numeric
Tax base code	O	1	alphanumeric
Non-taxable indicator	B	1	alphanumeric
Purchase accounting meth	O	1	alphanumeric

Field	Mapping	Length	Type
Purchase account	O	15	alphanumeric
Use tax account	O	15	alphanumeric
Sale accounting method	O	1	alphanumeric
Sale account	O	15	alphanumeric
Tax code result	O	10	alphanumeric
Return code of UMBCLC4R	O	1	alphanumeric
Shipment header number	I	7.0	numeric
Ship release sequence	I	7.0	numeric
Kit release sequence	I	5.0	numeric

Program execution point

AMBRMRXFR	EXT: Third Party Tax Calc
AMBAAXFR	EXT: Tax in Price
AMBBDE1R	EDT: 1 Q/O Special Charge
AMBCNE1R	EDT: 1 CM Special Charge
AMBCVXFR	EXT: Release Time Pricing
AMBC3XFR	EXT: Copy order & detail
AMBC9XFR	EXT: Order copy-full order
AMBDRXFR	EXT: Copy Special Chg>Live
AMBELXFR	EXT: Build tax records
AMBFAFXFR	EXT: End Screen Init
AMBFOXFR	EXT: Invoice Surcharges
AMBGCDFR	DSP: Order copy - spc charge
AMBGQDFR	DSP: Order copy - Hist SC
AMBHZXFR	EXT: EDI Acknowledgements
AMBL9XFR	EXT: Temp Hist - Ack, Quote
AMBRMRXFR	EXT: Third Party Tax Calc
AMBNEXFR	EXT: ED EDI Acknowledgement
AMBNJXFR	EXT: Copy In/SpcChrg Live
AMBNNXFR	EXT: Accum Open Item Val
AMBN4XFR	EXT: EC EDI Quotation
AMBOJXFR	EXT: Accu Tax SurChg & Tax
AMBOKXFR	EXT: Accu Tax SurChg & Tax
AMBO3XFR	EXT: Prc Lne Itm (End Order)
AMBO4XFR	EXT: Calc Open Order Val
AMBQ8XFA	EXT: Release T
AMBQ8XFR	EXT: Prorate Special chgs

Special considerations

The field, ***Tax Code Result***, must be loaded if you have COM and IFM interfacing, otherwise the field may be loaded with blanks. This field is used in the tax transaction posting process.

|

API: Alternate page 5 pricing

Program

UMBCLC8R	Application:COM
----------	-----------------

Called from

AMBFXFR	EXT:End Screen Init
AMBCVXFR	EXT:Release Time Pricing

Parameters

Field	Mapping	Length	Type
Price Book ID	I	5	alphanumeric
Date Effective	I	7.0	numeric
Page 5 Pricing?	I	1	alphanumeric
Company Number	I	2.0	numeric
Internal Header Type	I	1	alphanumeric
Quote/Order number	I	7	alphanumeric
Quote/Order date	I	7.0	numeric
Override exchange rate	I	11.6	numeric
Override exch rate date	I	7.0	numeric
Currency ID	I	3	alphanumeric
Customer Number	I	8.0	numeric
Page 5 effective date	I	7.0	numeric
MPA to COM interfacing	I	1	alphanumeric

Program execution point

None.

Special considerations

When using this user exit (UMBCLC8R is active), normal COM page 5 pricing will not be executed.

API: Line item price override

Program

UMBCLC9R	Application:COM
----------	-----------------

Called from

AMBA7PVR	PMT:Detailed price override
AMBCCPVR	PMT:Non-inv. price override

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Order quantity in order u/m	I	10.3	numeric
Item accounting class	I	3	alphanumeric
Customer number	I	8.0	numeric
Unit of measure	I	2	alphanumeric
Item number	I	15	alphanumeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This API will be executed at the time of add or change processing of a line item which has specified "Y" to a price override flag and enter is pressed on the price override panel. If the error flag is any value other than a blank the calling program will assume that an error has occurred and an error message will be issued. When the error message is issued, the type of entry (add or change) will not have taken place. The user will be forced to correct their entry or exit the program.

Special considerations

None.

API: Item validation (CM)

Program

UMBCMD4R	Application:COM
----------	-----------------

Called from

AMBA5E1R	EDT:CM detailed item
AMBA6E1R	EDT:CM customer item
AMBBGE1R	EDT:CM non-Inv. Item
AMBCCE1R	EDT:CM imm detailed item
AMBCDE1R	EDT:CM imm customer item
AMBCBE1R	EDT:CM imm non-inv. item
AMBL3DFR	EDT:CM basic item
AMBL9DFR	EDT:CM imm basic item

Parameters

Field	Mapping	Length	Type
Customer number	I	8.0	numeric
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Order qty in order u/m	I	10.3	numeric
Unit of measure code	I	2	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Action	I	3	Alphanumeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This user exit is the last routine called prior to a credit memo's line items being added or changed. The programs will call the API prior to the confirm prompt being displayed. This will allow each program to have additional user validation prior to file updates. If the API returns a value other than "blank" in the error flag field, processing will be stopped and an error message will be displayed. The error must be cleared prior to the file updates taking place.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and additional fields.

API: Header validate CM

Program

UMBCMH5R	Application:COM
----------	-----------------

Called from

AMBBQPVR	PMT:Begin Credit Memo
AMBGFPVR	PMT:Begin CM Immed. Ship

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Customer number	I	7.0	numeric
Invoice number	I	6.0	numeric
Error flag USR	O	1	alphanumeric
&Narrative 40 USR	O	40	alphanumeric
Credit memo code	I	1	alphanumeric

Program execution point

This user exit will execute when adding or changing a credit memo header during the edit validation routine.

Special considerations

If the error flag (output parameter of the user exit) is any value other than "blank", the calling program will assume an error has occurred and the error message AMB3902 will be issued. When the message is issued, the user will be forced to correct the entry or exit the program.

API: Item validation (CO)**Program**

UMBCOD4R	Application:COM
----------	-----------------

Called from

AMBA1E1R	EDT:CO detailed item
AMBA3E1R	EDT:CO customer item
AMBBFE1R	EDT:CO non-Inv. Item
AMBB9E1R	EDT:CO imm detailed item
AMBB0E1R	EDT:CO imm customer item
AMBCAE1R	EDT:CO imm non-inv. item
AMBESEFR	EDT:CO/CO/QT basic item
AMBHKPVR	PMT:Speed entry w/pricing
AMBHNPVR	PMT:Speed entry w/On hand
AMBL5DFR	EDT:CO imm basic item

Parameters

Field	Mapping	Length	Type
Customer number	I	8.0	numeric
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Order qty in order u/m	I	10.3	numeric
Unit of measure code	I	2	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Action	I	3	alphanumeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This user exit is the last routine called prior to an order's line items being added or changed. The programs will call the API prior to the "confirm" prompt that appears. This will allow each program to have additional user validation prior to file updates. If the API returns a value other than "blank" in the error flag field, processing will be stopped and an error message will be displayed. The error must be cleared prior to the file updates taking place.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and additional fields.

API: Invoice date check

Program

UMBINV6R	Application:COM
----------	-----------------

Called from

AMBD9PVR	PMT: Select Orders Shipped for invoicing
AMBFQPVR	PMT: Print Invoice Select 1
AMBFVPVR	PMT: End immediate ship
AMBHPPVR	PMT: Shipment immediate invoice
AMBH1PVR	PMT: Select orders for amount only invoice

Parameters

Field	Mapping	Length	Type
Invoice date	I	7.0	numeric
Error flag usr	O	1	alphanumeric
Error message	O	40	alphanumeric

Special considerations

If the error flag has a value other than a “blank” the calling program will assume an error has occurred and error message AMB3511 will be issued. When the message has been issued, the user will be forced to correct their entry.

API: Invoice number assignment

Program

UMBINV7R	Application:COM
----------	-----------------

Called from

AMBS1XFR	EXT:Gen cmplmnty invoices
AMBS6XFR	EXT: Create inv by trigger

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Invoice number	O	6.0	numeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This API program is run every time an invoice number is assigned. The API will execute during the processing of AMBS1XFR. The API is intended to return the next invoice number to use. If the API is executed and an error is returned (value other than blank for error flag parameter) or the returned invoice number is zero, the invoice driver program will assign an invoice number to use.

Special considerations

Coding was based upon the following assumptions:

- No manual invoice numbers will be assigned during the order entry process
- No invoice series ID's will be used.

API: Pre-GL transactions**Program**

UMBINV9R Application:COM

Called from

AMBTXXFR EXT:Inv info/calc and upd

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Shipment header number	B	11.6	numeric
Ship release sequence	I	7.0	numeric
Kit release sequence	I	7.0	numeric
Shipped quantity	I	10.3	numeric
Order price U/M conv rate	I	11.6	numeric
LC – net sales amount	B	15.3	numeric
Net sales amount	B	15.3	numeric
Line item sequence	I	7.0	numeric
Cost/revenue – GLI (usr)	I	1	alphanumeric
GLI Transaction typ (usr)	I	1	alphanumeric
Credit memo code	I	1	alphanumeric
Function (USR)	I	1	alphanumeric
Transaction ID IFM revnue	I	11.0	numeric
Transaction ID IFM cost	I	11.0	numeric
Currency ID (usr)	I	3	alphanumeric
Tax group code	I	3	alphanumeric
Tax sequence	I	7.0	numeric
Invoice number	I	6.0	numeric
Invoice sequence	I	7.0	numeric
Invoice date	I	7.0	numeric
Customer number	I	8.0	numeric
Customer class code	I	5	alphanumeric
Sales code	I	1	alphanumeric
Salesrep number	I	5.0	numeric
Territory ID	I	2.0	numeric
Item number	I	15	alphanumeric
Item class code	I	4	alphanumeric
Warehouse	I	3	alphanumeric

Field	Mapping	Length	Type
Special charge ID	I	3	alphanumeric
Tax code	I	5	alphanumeric
Transaction amount	I	13.2	numeric
*return code	O	7	alphanumeric

Program execution point

This API will execute during invoicing prior to the creation of the OEITXN records for the shipped items.

Special considerations

None.

API: Begin order driver

Program

UMBMSC8R	Application:COM
----------	-----------------

Called from

AMBCUXFR	EXT:Begin order driver
----------	------------------------

Parameters

Field	Mapping	Length	Type
Customer number	I	8	numeric
Ship to number	I	8.0	alphanumeric
Purchase order number	I	22	alphanumeric

Special considerations

This API works different from most. The purpose of the API is to change the parameter values that are being sent to IM. The field **Reference number** will contain the customer number if the API is activated.

If you have been doing manual invoice numbers, you should not activate this API. The customer number will overlay the manual invoice number that was being sent to IM history in the reference number field.

API: Vali/Chg install method

Program

UMBMSCLBR	Application:COM
-----------	-----------------

Called from

AMBDAPVR	PMT: Shipment and Terms
----------	-------------------------

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Customer number	I	7.0	numeric
Error Flag USR	O	1	alphanumeric
&Narrative 40 USR	O	40	alphanumeric
Installment method ID	I	10	alphanumeric

Program execution point

This user exit will execute when entering/maintaining customer order shipment and terms.

Special considerations

None.

API: Valid line tax fields**Program**

UMBMSCCR Application:COM

Called from

AMBB7EFR	EDT:Price Book Page 5
AMBA6E1R	EDT:CM Customer Item
AMBA5E1R	EDT:CM Detailed Item
AMBCDE1R	EDT:CM Imm Customer Item
AMBCCE1R	EDT:CM Imm Detailed Item
AMBCBE1R	EDT:CM Imm Non-inv. Item
AMBBGE1R	EDT:CM Non-inv. Item
AMBA3E1R	EDT:CO Customer Item
AMBA1E1R	EDT:CO Detailed Item
AMBB0E1R	EDT:CO Imm Customer Item
AMBB9E1R	EDT:CO Imm Detailed Item
AMBCAE1R	EDT:CO Imm Non-inv. Item
AMBBFE1R	EDT:CO Non-inv. Item

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Customer number	I	7.0	numeric
Line item sequence	I	7.0	numeric
Tax transaction type	B	10	alphanumeric
Tax class	B	15	alphanumeric
Tax indicator	B	3	alphanumeric
Ship to override Customer	I	8.0	numeric
Ship to number override	I	8	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric

Program execution point

This user exit will execute when entering/maintaining customer order and credit memo line items prior to the pricing calculations.

Special considerations

None.

API: Item validation (QT)

Program

UMBQTD4R	Application:COM
----------	-----------------

Called from

AMBBAE1R	EDT:QT detailed item
AMBBBE1R	EDT:QT customer item
AMBBHE1R	EDT: QT non-Inv. Item

Parameters

Field	Mapping	Length	Type
Customer number	I	8.0	numeric
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Order qty in order u/m	I	10.3	numeric
Unit of measure code	I	2	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Action	I	3	alphanumeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This user exit is the last routine called prior to a quote's line items being added or changed. The programs will call the API prior to the confirm prompt being displayed. This will allow each program to have additional user validation prior to file updates. If the API returns a value other than "blank" in the error flag field, processing will be stopped and an error message will be displayed. The error must be cleared prior to the file updates taking place.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and additional fields.

API: Validate ship item

Program

UMBSHPAR	Application:COM
----------	-----------------

Called from

AMBASETR	EDT:Order Items-Ship Conf
AMBAYETR	EDT:Shp Cnf by WhsLoc/Itm
AMBOQDFR	DSP:Cnf Shp Dtl
AMBO9DFR	DSP:Cnf Shp Dtl

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Shipment header number	I	7.0	numeric
Ship release sequence	I	7.0	numeric
Kit release sequence	I	5.0	numeric
Shipped quantity	I	10.3	numeric
Release quantity	I	10.3	numeric
Return code (USR)	O	1	alphanumeric

Program execution point

None

Special considerations

This API will run only from online shipping, not through the "U" Job process. "Return Code" (USR) is automatically set to no error (value = '0'). If an error has occurred, set the field "Return Code (USR)" to something other than "0", this will tell the calling program that an error has occurred and processing needs to stop. A blank error message will be sent to the screen and the user will need to roll through the subfile message in order to view all messages that were sent by UMBSHPAR.

How to send a message:

Move the message ID to ZAMSID-

-MOVE'LXXX0000' ZAMSID
-EXSR ZASNMS

The ZASNMS subroutine processing can be found in any COM online program.

API: Shipment carrier details

Program

UMBSHPBR Application: COM

Called from

AMBFVPVR	PMT: End immediate shipments
AMBBPE1R	EDT: Specify ship actions
AMBIMPVR	PMT: Consolidated Shp Act

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Shipment number	I	7.0	numeric

Program execution point

None.

Special considerations

This API replaces XA code: Program AMBB4E1R - DSP:Ship Conf-Carrier Dtl.

API: Item validation (SO)

Program

UMBSOD4R	Application: COM
----------	------------------

Called from

AMBA8E1R	EDT: SO detailed item
AMBA9E1R	EDT: SO customer item
AMBBIE1R	EDT: SO non-Inv. Item

Parameters

Field	Mapping	Length	Type
Customer number	I	8.0	numeric
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/order number	I	7	alphanumeric
Line item sequence	I	7.0	numeric
Order qty in order u/m	I	10.3	numeric
Unit of measure code	I	2	alphanumeric
Item number	I	15	alphanumeric
Warehouse	I	3	alphanumeric
Action	I	3	alphanumeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This user exit is the last routine called prior to a standing order's line items being added or changed. The programs will call the API prior to the confirm prompt being displayed. This will allow each program to have additional user validation prior to file updates. If the API returns a value other than "blank" in the error flag field, processing will be stopped and an error message will be displayed. The error must be cleared prior to the file updates taking place.

Special considerations

The parameters passed to the user exit are the line item values of the Line Item (MBCDRES1) record and additional fields.

API: Pro forma pack list

Program

UMBSPF1R Application: COM

Called from

AMBFTXFR EXT: Pro forma pack list
AMBR2XFR EXT: (Pick) Pro forma P/L

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order Header	I	7	alphanumeric
Customer number	I	8.0	numeric
Ship to number	I	8	alphanumeric
Warehouse	I	4	alphanumeric

Program execution point

This API replaces the XA program AMBFCPFR, PRT:Pack List - Pro Forma.

Special considerations

The parameters passed include the key to the Quote/Order Header (MMC6RES1) record that is being processed.

An Override record for this report (UMBSPF1R) is shipped with COM. The override(s) will be in affect when this program is called. This report can be controlled by warehouse.

The XA program calls AXZPRTOC that performs the printer override on printer file (UMBSPF1P). It then calls this program.

API: Packing list

Program

UMBSPF2R Application: COM

Called from

AMBFHXFR	EXT: Packing List Print
AMBRWXFR	EXT: Pack List Print – Cont.
AMBRXXFR	EXT: Packing List Print

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order Header	I	7	alphanumeric
Shipment header number	I	7.0	numeric

Program execution point

This API replaces the XA program AMBE8PFR, PRT:Packing List.

Special considerations

The parameters passed are the key fields to the Shipment Header (MBDHRES0) record that is being processed.

An Override record for this report (UMBSPF2R) is shipped with COM. The override(s) will be in affect when this program is called. This report can be controlled by warehouse.

The XA program calls AXZPRTOC that performs the printer override on printer file (UMBSPF2P). It then calls this program.

API: Acknowledgement

Program

UMBSPF3R	Application:COM
----------	-----------------

Called from

AMBF2XFR	EXT:Acknowledgement Print
----------	---------------------------

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order Header	I	7	alphanumeric
Customer number	I	8.0	numeric
Ship to number	I	8	alphanumeric
Invoice sequence	I	7.0	numeric

Program execution point

This API replaces the XA program AMBFMPFR, PRT:Acknowledgement.

Special considerations

The parameters passed include the key fields to the Quote/Order Header (MMC6RES1) record that is being processed.

An Override record for this report (UMBSPF3R) is shipped with COM. The override(s) will be in affect when this program is called. You can control the information on this report by company.

Note: This program does not set on the LR indicator..

API: Invoice

Program

UMBSPF4R	Application:COM
----------	-----------------

Called from

AMBFMXFR	EXT:Print Invoice
----------	-------------------

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Invoice number		6.0	numeric
Invoice sequence		7.0	numeric

Program execution point

This API replaces the XA program AMBE1PFR, PRT:Invoice.

The type of Invoice to be printed can be determined by reading the "Invoice type" (FEH1NB) field in the Invoice Header record, where:

- 0 Standard invoice
- 1 EDI invoice
- 2 *Pro forma* invoice

Special considerations

The parameters passed are the key fields to the Invoice Header (MBF9RES1) record that is being processed.

An Override record for this report (UMBSPF4R) is shipped with COM. The override(s) will be in affect when this program is called. You can control the information on this report by company.

Note: This program does not set on the LR indicator.

API: Quote

Program

UMBSPF5R	Application:COM
----------	-----------------

Called from

AMBFYXFR	EXT:Quote Print
----------	-----------------

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Internal header type	I	1	alphanumeric
Quote/Order Header	I	7	alphanumeric
Customer number	I	8.0	numeric
Ship to number	I	8	alphanumeric
Invoice sequence	I	7.0	numeric

Program execution point

This API replaces the XA program AMBFLPFR, PRT:Quotation Form.

Special considerations

The parameters passed include the key fields to the Quote/Order Header (MMC6RES1) record that is being processed.

An Override record for this report (UMBSPF4R) is shipped with COM. The override(s) will be in affect when this program is called. This report can be controlled by company.

Note: This program does not set on the LR indicator.

API: Bill of lading

Program

UMBSPF6R Application:COM

Called from

AMBFGXFR	EXT: Bill of lading print
AMBQVXFR	EXT: Cons. BOL Print

Parameters

Field	Mapping	Length	Type
Company number		2.0	numeric
Internal header type		1	alphanumeric
Quote/Order Header		7	alphanumeric
Shipment header number		7.0	numeric

Program execution point

This API replaces the XA program AMBEMPFR, PRT:Bill of Lading.

Special considerations

The parameters passed are the key fields to the Shipment Header (MBDHRES0) record that is being processed.

An Override record for this report (UMBSPF6R) is shipped with COM. The override(s) will be in affect when this program is called. This report can be controlled by warehouse.

The XA program calls AXZPRTOC that performs the printer override on printer file (UMBSPF6P) . It then calls this program.

API: Pick list

Program

UMBSPF7R	Application: COM
----------	------------------

Called from

AMBHXXFR	EXT: Pick list JOBQ driver
AMBKDXFR	EXT: Reprint pick list
AMBNLXFR	EXT: Stock pick JOBQ driver
AMBQRXFR	EXT: Sel Pick to Pack/Ship
AMBZJXFR	EXT: Sel Pic to Pk/Shp (SA)

Parameters

Field	Mapping	Length	Type
Company	I	2.0	numeric
Pick list number	I	7.0	numeric
Userid	I	10	alphanumeric
Trigger sequence number	I	7.0	numeric
Pick list version	I	1	alphanumeric
Original/Duplicate	I	1	alphanumeric

Program execution point

The programs call AXZPRT0C that performs the printer override on the printer file (UMBSPF7P). It then calls this program (UMBSPF7R).

Special considerations

This program receives a 256-character string parameter and then program separates the parms into individual fields.

A printer file is supplied for use in conjunction with this API, the printer file is UMBSPF7P.

API: ATP calculation**Program**

UMVCLC1R Application: COM

Called from

AMVATP0R EXT: Available to promise

Parameters

Field	Mapping	Length	Type
Warehouse	B	3	alphanumeric
Item number	B	15	alphanumeric
Quantity on order	B	10.3	numeric
Request date	I	7.0	numeric
Ship lead time	B	2.0	numeric
Promise date (usr)	B	7.0	numeric
Display (usr)	B	10	numeric
Application ID	I	1	alphanumeric
Allow entry	I	10	alphanumeric
Issue U/M warning	I	10	alphanumeric

Program execution point

AMBAGETR	EDT: CO Blanket Release
AMBAXETR	EDT: Enter Blankets
AMBA1E1R	EDT: CO Detailed Item
AMBA3E1R	EDT: CO Customer Item
AMBBAD1R	DSP: CO Int/Cust Line Item
AMBBAE1R	EDT: QT Detailed Item
AMBBDE1R	EDT: 1 Q/O special charge
AMBBBE1R	EDT: QT Customer Item
AMBB0E1R	EDT: CO Imm Customer Item
AMBB9E1R	EDT: CO Imm Detailed Item
AMBG1PVR	PMT: Line Item Ship To Ovr
AMBIYXFR	EXT: Line Item Order Actions
AMBI7XFR	EXT: Copy line item > Live
AMBMWXFR	EXT: Speed Edits & Calcs
AMBNJXFR	EXT: Copy In/SpcChrg Live
AMBNUXFR	EXT: Copy offline rls > Live

Special considerations

If the user exit “End ATP calculation” is active at the same time as the API: ATP calculation”, this API will not execute.

API: Customer delete check

Program

UMVCUM3R	Application: COM
----------	------------------

Called from

AMVA0DFR	DSP: Maintain customer
AMVCCDFR	DSP: Maintain customer IFM

Parameters

Field	Mapping	Length	Type
Company number	I	2.0	numeric
Customer number	I	8.0	numeric
Error flag	O	1	alphanumeric
Error message	O	40	alphanumeric

Program execution point

This API is executed prior to a customer record being deleted. If the API output parameter, error flag, sends back a parameter value other than a blank, meaning an error has occurred, the delete processing will be stopped. In order for a delete to be processed, the error flag value returned to the program must be "blank".

Special considerations

None.

International Financial Management**API: Tax Calculator****Program**

UM5CLC4B Application:IFM

Called from

UABHXFR	Tax calculator – COM
AMVB0EFR	EDT:Unit of Measure
AMXCOXFR	EXT:Build Company

Parameters

Field	Mapping	Length	Type
Calculator function code		1	alphanumeric
Calculation permanence		1	alphanumeric
Calculation type		1	alphanumeric
Application txn type		1	alphanumeric
Tax code		5	alphanumeric
Tax code result ID		10	alphanumeric
Tax txn type		10	alphanumeric
Order number		7	alphanumeric
Internal header type		1	alphanumeric
Line item sequence		7.0	numeric
Invoice to/from tax suffix		5	alphanumeric
Ship to/buy from suffix		5	alphanumeric
Tax indicator		3	alphanumeric
Tax effective date		7.0	numeric
Company number		2.0	numeric
Invoice to cust/vendor		8.0	numeric
Ship to number		8	alphanumeric
Item number		15	alphanumeric
Item tax class ID		15	alphanumeric
Special charge ID		3	alphanumeric
Warehouse		3	alphanumeric
Order quantity		10.3	alphanumeric
Order unit of measure		2	numeric
Transaction amount – COM		19.7	numeric
Txn discount percent		5.2	numeric
Txn discount amount		13.2	numeric
Currency code		4	alphanumeric

Field	Mapping	Length	Type
Special charge desc	I	30	alphanumeric
Surcharge code	I	3	alphanumeric
Surcharge line code	I	6	alphanumeric
Surcharge detail code	I	3	alphanumeric
Trade discount – COM	I	5.3	numeric
Tax calculation error	O	2	alphanumeric
Tax code result ID	O	10	alphanumeric
Tax code	O	5	alphanumeric
Tax effective date	O	7.0	numeric
Tax adjusted for cash dis	O	1	alphanumeric
Tax in price – Europe	O	1	alphanumeric
Tax in price – Brazil	O	1	alphanumeric
Tax in price calc type	O	1	alphanumeric
Compound tax uplift	O	6.5	numeric
Compound tax code	O	10	alphanumeric
Compound tax code result	O	1	alphanumeric
Tax base amt substituted?	O	1	alphanumeric
Tax rate substituted?	O	1	alphanumeric
Tax rate	O	6.3	numeric
Tax rate method	O	1	alphanumeric
Tax recovery percent	O	6.3	numeric
Include tax in cash disc?	O	1	alphanumeric

Program execution point

None.

Special considerations

None.

Contents

Exit

Chapter 4. Action Triggers (AT)

Customer Order Management

AT: Reprice at ship time

Trigger

UMBCLCCR	Application: COM
----------	------------------

Called from

AMBBIPVR	PMT: Begin customer order
----------	---------------------------

Parameters

None

Trigger execution point

When this trigger is active, AMBBIPVR will read the second character of the field Order Priority on the Quote/Order Header record. If Order Priority is equal to “ * ”, repricing then occurs.

Special considerations

This is not a program.

AT: Cmt lin quote print

Trigger

UMBCTD1R	Application: COM
----------	------------------

Called from

AMBI6XFR	EXT: Copy Offline>live
AMBI7XFR	EXT: Copy Line item>live
AMBNJXFR	EXT: Copy In/special charge>live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order line will appear on the quote when printed.

Special considerations

This is not a program.

AT: Cmt lin inv. print

Trigger

UMBCTD2R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT: Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order line will appear on the invoice when printed.

Special considerations

This is not a program.

AT: Cmt lin ackno. print

Trigger

UMBCTD3R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order line will appear on the acknowledgement when printed.

Special considerations

This is not a program.

AT: Cmt lin pack print

Trigger

UMBCTD4R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order header will appear on the packing list when printed.

Special considerations

This is not a program.

AT: Cmt lin BOL. print

Trigger

UMBCTD5R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order header will appear on the bill of lading when printed.

Special considerations

This is not a program.

AT: Cmt hdr quote print

Trigger

UMBCTH1R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order header will appear on the quote when printed.

Special considerations

This is not a program.

AT: Cmt hdr inv. print

Trigger

UMBCTH2R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order header will appear on the invoice when printed.

Special considerations

This is not a program.

AT: Cmt hdr ackno. print

Trigger

UMBCTH3R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order line will appear on the acknowledgement when printed.

Special considerations

This is not a program.

AT: Cmt hdr pack print

Trigger

UMBCTH4R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order header will appear on the packing list when printed.

Special considerations

This is not a program.

AT: Cmt hdr BOL. print

Trigger

UMBCTH5R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
AMBI7XFR	EXT:Copy line item>live
AMBNJXFR	EXT:Copy in/special charge live

Parameters

None

Trigger execution point

If this trigger is active when the offline order is copied to live, comments associated with the offline order header will appear on the bill of lading when printed.

Special considerations

This is not a program.

AT: Send Customer # to IM History

Trigger

UMBMSC7R	Application:COM
----------	-----------------

Called from

AMBASETR	EDT: Order Items - Ship Confirm
AMBAUETR	EDT: Process Kit Comp. Pick
AMBAVETR	EDT: Process CR Return Item
AMBAYETR	EDT: Ship Confirm by WhsLoc/Item
AMBD1XFR	EXT: Invoice driver
AMBFSXFR	EXT: B/L Loc'n ship driver
AMBFVPVR	PMT: End immediate ship
AMBF7XFR	EXT: B/L Loc'n pick driver
AMBG9DFR	DSP: Sel orders for pick confirmation
AMBHOXFR	EXT: B/L Loc'n CM driver
AMBHPDFR	DSP: Process Kit Comp pick
AMBH3DFR	DSP: Kit Comp. ship confirm
AMBJYDFR	DSP: Kit Comp. CM ship confirm
AMBJ4XFR	EXT: M interface CM
AMBKWXFR	EXT: Create line item immediate
AMBK4XFR	EXT: Create shipment releases
AMBK6XFR	EXT: Delete for Immediate ship
AMBLHXFR	EXT: Chg/dlt line item immediate
AMBLNXFR	EXT: Create n-inv line item immediate
AMBLTXFR	EXT: Chg/dlt n-inv line item immediate
AMBNLXFR	EXT: Stock Pick JOBQ driver

Parameters

None.

Program execution point:

None.

Special considerations

The purpose of the action trigger is to change the parameter values that are being sent to IM. The field "reference number" will contain the customer number if the AT is activated.

If you have been doing manual invoice numbers, you should not activate this AT. The customer number will overlay the manual invoice number that was being sent to IM history in the reference number field.

AT: Set line limit

Trigger

UMBPC3R	Application:COM
---------	-----------------

Called from

AMBFQXFR	EXT:Process trigger rls
AMBNLXFR	EXT:Stock pick JOBQ drive
AMBQRXFR	EXT:Set pick to pack/ship
AMBZJXFR	EXT:Sel pic to pack/ship (SA)

Parameters

None

Trigger execution point

See "Special considerations".

Special considerations

If this trigger is active, it will limit the number of lines that are allowed on a pick list. The limit is stored in a data area UMBPC3R, and the program UMBPC3C will retrieve the value stored in the data area. If the maximum number of lines is encountered, a new pick list will be created for the remaining lines.

AT: Overship error msg

Trigger

UMBSHPFR	Application:COM
----------	-----------------

Called from

AMBOQDFR	DSP:Cnf shp dtl – ord ent
AMB09DFR	DSP:Cnf shp dtl – whs loc

Parameters

None

Trigger execution point

If this trigger is active, the preceding programs will issue a hard error instead of a warning if crossfoot check is on.

Special considerations

This is not a program.

AT: Last order date update

Trigger

UMVCUM5R	Application:COM
----------	-----------------

Called from

AMBI6XFR	EXT:Copy offline>live
----------	-----------------------

Parameters

None

Trigger execution point

This trigger, when active, will prevent the Offline Entry program from updating the last order date in the Customer Extension file.

Special considerations

This is not a program.

Contents

Exit