

DEPARTMENT OF EDUCATION-FSA
FMS INTEGRATION PARTNER
PROGRAM FUNCTIONAL DESIGN



FORM 2000 AP/GL INTERFACE ITEM NUMBER
MODIFICATION
TO 149 – FORM 2000 SYSTEM ENHANCEMENTS

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Subject: AP/GL Interface Item Number Modification
TO 149 – Form 2000 System Enhancements
Version: 1.0

Prepared by: Jobe Jamerson	Date: October 20, 2003
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Document Change Control

Date	Author	Version	Change Reference
10/20/03	Jobe Jamerson	1.0	Initial Creation

Approval

Created By:	Jobe Jamerson	703-947-2864	Creation Date: 10/20/03
Project Lead Sign Off:	Joanna Zieba	312-693-3414	Sign Off Date: 11/17/03
FSA Representative Sign Off:	Jay Hurt	202-377-3453	Sign Off Date:



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Specification

Program Name:	Form 2000 AP/GL Interface Item Number Modification
Functional Design Document ID & Title:	FORM2000_APGL_INT_ITEMNUM_FD.doc
Application:	FMS Monthly Form 2000
Priority:	High
Estimated Production Date:	April 4, 2004
Other Affected Applications:	FMS GL
Comments:	



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General Requirements

Business Objective:

As part of TO 149, FMS has been tasked with enhancing the Form 2000 AP/GL Interface process to populate the item number in a designated attribute field on each GL Journal Entry line. The Form 2000 FSA FFEL GA Form 2000 AP/GL Load Interface transfers information from the Form 2000 Monthly and Monthly/Quarterly tables into the Accounts Payable and General Ledger Applications automatically when FSA Financial Partners (FP) users accept any Monthly or Monthly/Quarterly reports.

Currently, item numbers are inserted for Annual GL transactions and all GL transactions with a destination of “GL” or “GLCONF”. However, item numbers associated with the Form 2000 Monthly report that have a destination of “AP” are not currently sent to the FMS General Ledger. As a result, a new procedure will be created to insert the Item Number as the line description for all accounts with a destination of “AP”. These transactions are first created in AP and the item number value will be created in GL for these transactions when the AP transfer to GL occurs (Requirement 7.1). This procedure will be included as part of the new FMS Form 2000 Monthly GL Interface, an additional TO 149 enhancement.

The main business objective for updating the Form 2000 AP/GL Interface process is to facilitate a timely and accurate reconciliation.

Component Description:

The Form 2000 AP/GL Interface Item Number Modification will consist of the following components:

- A new custom FMS Form 2000 Monthly GL Interface will be created as a separate enhancement to capture approved Form 2000 Monthly invoice data and load corresponding GL account information into the FMS General ledger. This Interface will run nightly.
- Creation of a procedure within the FMS Form 2000 Monthly GL Interface to insert the Item Number for all Form 2000 Monthly report transaction lines with a destination of “AP”.

Custom Component Risks:

None

Authorization:

Authorization will be given to the FMS Operations Team to manually cancel scheduled runs or to initiate additional requests, if needed.

Scheduling Requirements:

The procedure will run as part of the FMS Form 2000 Monthly GL Interface, which will be scheduled to run at 10:15 PM EST on a nightly basis, immediately following the last scheduled Payables Transfer to GL process.

Volume:

Approval of invoices varies on a daily basis. The number of invoices approved daily can range from approximately 0-7. Each approved Form 2000 Monthly invoice consists of 69 records that will be loaded into the FMS Accounts Payable.

Frequency:

The interface will run nightly.



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Development Complexity:

Medium

Security Concerns:

None

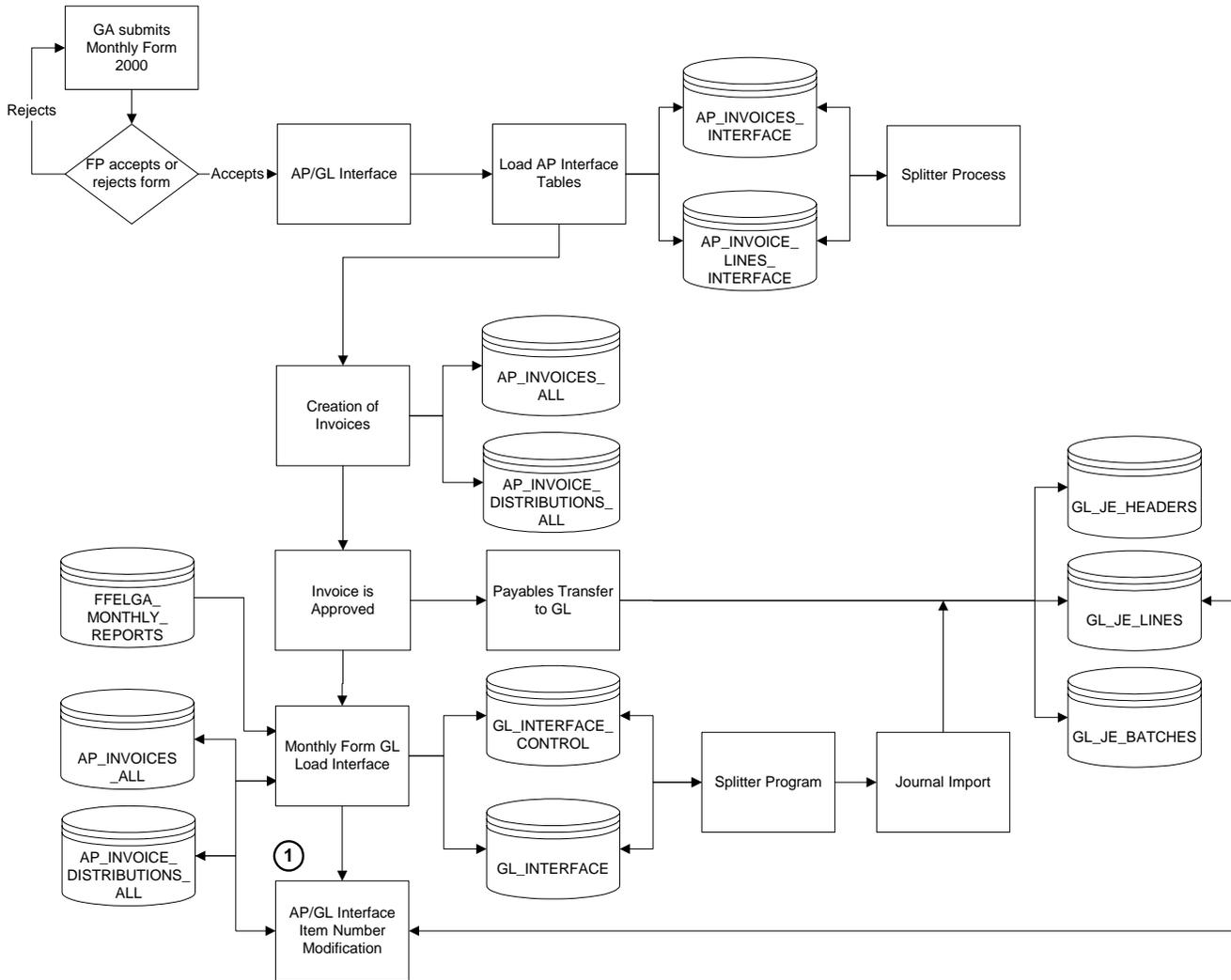
Assumptions:

1. Item Number will always be populated in the DESCRIPTION field in AP_INVOICE_DISTRIBUTIONS_ALL table.
2. The INVOICE_NUMBER from the AP_INVOICE_DISTRIBUTIONS_ALL table will always be populated in REFERENCE2 of the GL_JE_LINES table.
3. The DISTRIBUTION_LINE_NUMBER from the AP_INVOICE_DISTRIBUTIONS_ALL table will always be populated in REFERENCE3 of the GL_JE_LINES table.
4. Only the Item Number is needed in the Journal Line Description, Item Description is not necessary for reconciliation.
5. The procedure will reside within the FMS Form 2000 Monthly GL Interface package, but will be registered as a separate program within that interface concurrent program. As a result, processing of the procedure will be independent of success or failure of other procedures within the interface package and vice versa.
6. If there are no Form 2000 Invoices approved on a particular day, the procedure will still run and complete with a status of normal, but no lines will be updated.
7. This modification solely addresses the insertion of the Item Number for AP transitions in the FMS Form 2000 Monthly Report. The Item Number is successfully being populated in the GL_JE_LINES table for any item with a destination of "GL" (i.e. Monthly/Quarterly Report items and Annual Report items).
8. The NAME field in the GL_JE_LINES table will always start with "Payables" for those batches created directly from the Payables Transfer to GL.



Design

Process Flow Diagram:



Detailed Description of New/Changes to Existing Program:

1.0 AP/GL Interface Item Number Modification

- 1.1 The FMS Form 2000 Monthly GL Interface will be scheduled to run each evening at 10:15 PM EST (after all the Payables Transfer to GL programs have completed). The Form 2000 AP/GL Interface Item Number Modification procedure will be contained within this program.
- 1.2 The Form 2000 AP/GL Interface Item Number Modification procedure will look at Form 2000 batches that were transferred from Accounts Payable to the General Ledger. For each line in the GL that is tied to a Payables batch and does not already have an Item Number populated, a lookup will occur in order to obtain this information from the AP tables. This lookup will be based on REFERENCE2 (which contains the Invoice Number from AP) and REFERENCE3 (which contains the Distribution line number) in the GL_JE_LINES table.



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- 1.3 Once the matching line in AP is determined, the Item Number will be extracted from the DESCRIPTION field and loaded into the appropriate GL journal entry line.
- 1.4 The Item Number will then appear in the Journal Line Description field in the Journal Entry screen in the Oracle GL.
- 1.5 The Concurrent Manager Log will state the number of records updated in the GL_JE_LINES table.

Input Parameters:

Parameter Name	Datatype	Default Value	Required (Y/N)	Value Set	Comments

Database Objects:

Database Object Name	Object Type	Oracle Application	Comments
FFELGA_MONTHLY_GL_ITEM_NUM_MOD_PRC	PL/SQL Procedure	Form 2000 FFELGA	This procedure will be contained within the FMS Form 2000 Monthly GL Interface.



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Dependencies

Dependencies on Other RICE Components:

The Form 2000 AP/GL Interface Item Number Modification must be developed and tested as part of the FMS Form 2000 Monthly GL Interface since it is contained within the same PL/SQL package.

Dependencies on Other Business Components:

Records to be updated by this procedure must be transferred by the Payables Transfer to GL program; this procedure only updates AP related records.

Design Constraints:

None

Performance Considerations:

None

Implementation Considerations:

This procedure must be implemented as part of the FMS Form 2000 Monthly GL Interface.

Other Dependencies/Special Concerns:

None

Error Handling

Potential Errors	Possible Reasons	Solution Strategy
Procedure completes with Error.	-Database failure. -Interface program registered incorrectly.	-Manually rerun program once database is back up. -Consult registration guide and verify that steps were completed successfully

Testing Requirements

Requirements Matrix Reference	Test Condition	Expected Results
7.1	Create Monthly Invoice that contains values for all items that have a destination of "AP". Approve Invoice. Run Interface.	Form 2000 AP/GL Interface Item Number Modification completes normally. Item number is populated in REFERENCE6 of GL_JE_LINES for all lines for this invoice.
7.1	Run interface with no invoices approved.	Form 2000 AP/GL Interface Item Number Modification completes normally. No lines in the GL_JE_LINES table are updated.
7.1	Create Monthly Invoice that contains values for items that have a destination of "AP". Rename invoice number so that it does not follow usual standard. Approve Invoice. Run Interface.	FMS Form 2000 Monthly GL Interface completes in error. Form 2000 AP/GL Interface Item Number Modification completes normally. Item number is populated in REFERENCE6 of GL_JE_LINES for all lines for this invoice.



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Issues and Additional Considerations

The following Issues were defined during Functional Design:

Issue	Raised By / Date Needed	Resolution/Answer	Resolved By / Date Completed
This AP/GL Interface Item Number Modification is heavily dependent on the FSA FFEL GA Form 2000 Monthly GL Load Interface changes.	Jobe Jamerson / 11/11/03	The AP/GL Interface Item Number Modification will become a procedure within the FSA FFEL GA Form 2000 Monthly GL Load Interface Package.	Joanna Zieba / 11/11/03