

Oracle® Retail Invoice Matching
Operations Guide Addendum
Release 11.0.10

February 2007

Copyright © 2007, Oracle. All rights reserved.

Primary Author: Nathan Young

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software – Restricted Rights (June 1987). Oracle Corporation, 500 Oracle Parkway, Redwood City, CA 94065

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

Contents

Preface v

 Audience v

 Related Documents v

 Customer Support v

 Conventions vi

1 Introduction 1

2 Interfaces and File Layouts 3

 The EDI Reject Table 3

 EDI Invoice Upload File Layout (based on EDI 810) 5

Preface

Oracle Retail Operations Guides are designed so that you can view and understand the application's 'behind-the-scenes' processing, including such information as the following:

- Key system administration configuration settings
- Technical architecture
- Functional integration dataflow across the enterprise

Audience

Anyone with an interest in developing a deeper understanding of the underlying processes and architecture supporting ReIM functionality will find valuable information in this guide. There are three audiences in general for whom this guide is written:

- Business analysts looking for information about processes and interfaces to validate the support for business scenarios within ReIM and other systems across the enterprise (within a merchandising system such as RMS, for example).
- System analysts and system operations personnel:
 - Who are looking for information about ReIM's processes internally or in relation to the systems across the enterprise.
 - Who operate ReIM regularly.
- Integrators and implementation staff with overall responsibility for implementing ReIM

Related Documents

For more information, see the following documents in the Oracle Retail Invoice Matching Release 11.0.10 documentation set:

- Oracle Retail Invoice Matching Installation Guide
- Oracle Retail Invoice Matching Release Notes

Customer Support

- <https://metalink.oracle.com>

When contacting Customer Support, please provide:

- Product version and program/module name.
- Functional and technical description of the problem (include business impact).
- Detailed step-by-step instructions to recreate.
- Exact error message received.
- Screen shots of each step you take.

Conventions

Navigate: This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement “the Window Name window opens.”

Note: This is a note. It is used to call out information that is important, but not necessarily part of the procedure.

This is a code sample
It is used to display examples of code

[A hyperlink appears like this.](#)

Introduction

The information in this document reflects modifications and updates to the latest ReIM Operations Guide. Using this document in conjunction with that guide provides retailers with a complete overview of the application.

Sections with changes are included in this document in full. Deletions within the section are denoted with strike-through type while additions or changes are denoted in bold.

For more specific information regarding modifications made to this Oracle Retail Invoice Matching release, see the Oracle Retail Invoice Matching 11.0.10 Release Notes.

Interfaces and File Layouts

The EDI Reject Table

The EDI invoice upload (ediupinv) batch process uploads invoices and credit notes from the EDI into the invoice-matching tables. This process validates the information in the file against itself and against the RMS (or equivalent merchandising system)/ReIM database. A limited set of data validation errors cause the invalid transaction to be written to error tables (IM_EDI_REJECT_DOC_XXX) where the data can be corrected through an online process.

The following errors are written to the EDI reject table for the user to manually correct through the front end:

- Supplier number (or Partner ID)
This value must be a valid supplier (SUPS table) or partner (PARTNER table) in RMS (or the equivalent merchandising system).
- Order number(s)
Order number(s) must be approved and created for the supplier or linked suppliers in RMS (or the equivalent merchandising system) on the ORDHEAD table. Non-merchandise invoices may not have any order numbers associated, so this validation should be skipped for this type of invoice.
- Order/location combination
The system validates that all order number/location combinations in the file are valid within RMS or the equivalent merchandising system (meaning that the relationship must exist on the ORDLOC table).
- Terms code
All terms must exist within RMS or the equivalent merchandising system on the TERMS table.
- Invoice date
A document cannot be older than the v-date minus the post-dated document days' system level parameter value or newer than the v-date.
- Item number
Item numbers must exist within RMS on the ITEM_MASTER table (version 10.x or higher). If a UPC or reference number is passed, this number should also be validated. The item number should also exist for the supplier.

Note: With regard to the interface with RMS 10.x and higher, items must be transaction level.

- ~~Duplicate invoice number for the supplier~~
~~The supplier's invoice number must be unique for the supplier.~~
- Merchandise invoices cannot be associated with a partner; they must only be associated with a supplier.
- Credit notes from a partner cannot have item records attached unless the partner type is a manufacturer, distributor, or wholesaler (type S1, S2, or S3).
- The system determines whether the invoice ID is valid if given.

- ~~If the total quantity is given, the system determines whether the individual item quantities sum to total (the system only needs to check this if the supplier level 'Match Total Qty' indicator is 'Yes').~~
- ~~The system determines whether the total merchandise cost on the THEAD line matches the sum of costs from the TDETL lines (the sum of unit cost * qty).~~
- Either an item or a reference item must be specified on all documents except non-merchandise invoices or credit notes from a partner.
- ~~The paid indicator must be either 'Yes' or 'No'.~~

EDI Invoice Upload File Layout (based on EDI 810)

I/O Specification

All Files Layouts Input and Output

Input file format:

FHEAD (1): Start of file.

THEAD (1...n): Transaction (document) level info. Each file must have at least 1 THEAD.

TDETL (0...n): Item detail records for this transaction. TDETL is optional for Credit

Note docs and debit memo docs.

TALLW (0...n): Allowance records for this item. TALLW is optional.

TNMRC (0...n): Non-merchandise records for this transaction. Required on non-merchandise documents, optional otherwise.

TVATS (0...n): VAT breakdown by VAT code. TVATS is optional.

TTAIL (1...n): Marks the end of a THEAD record. Each THEAD requires exactly one TTAIL.

FTAIL (1): Marks the end of the file.

TDETL and TNMRC do not need to occur in order. TALLW must follow TDETL

If records are encountered in any order other than specified above, execution of program will halt.

Example:

- FHEAD
- THEAD
- TNMRC
- FTAIL (no TTAIL encountered)

If a record descriptor is encountered other than those specified in this document, execution of program will halt.

Reject file will have an identical format. If no records are rejected, it will consist of only the FHEAD and FTAIL lines.

All character variables should be right-padded with blanks and left justified; all numerical variables should be left-padded with zeroes and right-justified. Null variables should be blank.

Single location invoices will be inserted into IM_DOC_HEAD, IM_INVOICE_DETAIL and IM_DOC_NON_MERCH. Multi-location invoices will be inserted into IM_PARENT_INVOICE, IM_PARENT_INVOICE_DETAIL and IM_PARENT_NON_MERCH.

It is assumed all values that have dependent information included in the file (i.e. location has dependent information of order no, upc, upc-supp, etc) will be valid for the RMS system. The following is never anticipated to happen: only locations A, B and C exist in RMS; EDI reads a transaction that has location D. This sort of file may not be flagged as invalid in any way.

All SKUS must have an associated primary UPC as the EDIUpload File only handles taking in UPC's.

FHEAD – File Header. First record of an upload file.

Field Name	Field Type	Description	Req	Validation
Record descriptor	Char(5)	Describes file record type.	Y	Halt execution if not FHEAD.
Line id	Number(10)	Sequential file line number.	Y	Halt execution if not 0000000001.
Gentran ID	Char(5)	The type of transaction this file represents.	Y	Halt execution if not UPINV.
Current date	Char(14)	File date in YYYYMMDDHH24MISS format.	Y	Halt execution if invalid date format.

THEAD – Transaction Header. Start of a document transaction.

Field Name	Field Type	Description	Req	Validation
Record descriptor	Char(5)	Describes file record type.	Y	THEAD
Line id	Number (10)	Sequential file line number.	Y	Halt execution if not in sequence.
Transaction number	Number(10)	Sequential transaction number. All records within this transaction will also have this transaction number.	Y	Reject entire file if: <ul style="list-style-type: none"> ▪ transaction number is not numeric or not in sequence ▪ first transaction number is not 0000000001
Document Type	Char(6)	Describes the type of document being uploaded. The document type will determine the types of detail information that are valid for the document upload. Stored in IM_DOC_HEAD.TYPE. Valid values are: MRCHI – Merchandise Invoice NMRCHI – Non Merchandise Invoice CRDNT – Credit Note DBMC – Debit Memo Cost DBMQ – Debit Memo Qty CRDMC – Credit Memo Cost CNRC- Credit Note Request Cost CNRQ- Credit Note Request Qty	Y	Reject transaction to file if <ul style="list-style-type: none"> ▪ document type is null ▪ document type is not MRCHI (merchandise invoice), NMRCHI (non-merchandise invoice), CRDNT (credit note), DBMC (Debit Memo-Cost), DBMQ (Debit Memo-Qty), CNRC (Credit Note Request-Cost), CNRQ (Credit Note Request-Qty), CRDMC

Field Name	Field Type	Description	Req	Validation
				(Credit Memo Cost) ▪ document type is CRDNT (credit note); vendor is not a supplier, manufacturer, distributor, or wholesaler. ▪ document type is CRDNT and TALLW records exist ▪ document type is MRCHI and item detail records DO exist for this transaction (this type of transaction must have no item detail records) ▪ document type is CRDNT,NMRC HI, DBMC, DBMQ, CRDMC, CNRC, CNRQ and any error occurs with the document
Vendor Document Number	Char (30)	Vendor's document number. Stored in IM_DOC_HEAD.EXT_DOC_ID with all characters converted to their upper case (i.e.: ThisDocId -> THISDOCID).	Y	Reject entire upload file if: • The same vendor document number occurs more than once in the file. Reject transaction to file if: ▪ vendor document number is null ▪ vendor document number is not

Field Name	Field Type	Description	Req	Validation
				<p>unique for this vendor.</p> <ul style="list-style-type: none"> ▪ vendor document number is not alphanumeric and the property "INVOICE_NUMBER_VALIDATION_REGULAR_EXPRESSION" in reim.properties is commented out. ▪ vendor document number contains special characters that are not specified in the property "INVOICE_NUMBER_VALIDATION_REGULAR_EXPRESSION" in reim.properties and the property is not commented out. ▪ vendor document number has leading zero and the property "INVOICE_NUMBER_VALIDATION_ALLOW_ZERO" in reim.properties is commented out or set to false.
Vendor Type	Char(6)	Type of vendor (either supplier or partner) for this document. Stored in IM_DOC_HEAD.VENDOR_TYPE	Y	<p>Reject transaction to file if:</p> <ul style="list-style-type: none"> ▪ vendor type is null or if it is not

Field Name	Field Type	Description	Req	Validation
		Valid values are: SUPP – Supplier BK - Bank AG - Agent FF – Freight Forwarder IM - Importer BR - Broker FA - Factory AP - Applicant CO - Consolidator CN - Consignee S1 – Merch Supp level 1 S2 – Merch Supp level 2 S3 – Merch Supp level 3		a valid vendor type (from Vendor class) ▪ document type is MRCHI (merchandise invoice) and vendor type is not 'S'upplier
Vendor ID	Char(10)	Vendor for this document. Stored in IM_DOC_HEAD.VENDOR_TYPE	Y	Reject transaction to file if: ▪ vendor ID is null ▪ vendor type is partner and vendor ID is not valid partner ▪ vendor is a supplier and supplier is not valid ▪ vendor is a supplier and vendor ID is not completely numeric
Vendor Document Date	Char(14)	Date document was issued by the vendor (in YYYYMMDDHH24MISS format). Stored in IM_DOC_HEAD.DOC_DATE	Y	Reject transaction to file if: ▪ vendor document date is null ▪ date is not a valid date format Reject transaction to tables if: ▪ vendor document date is after the vdate or before (vdate –

Field Name	Field Type	Description	Req	Validation
Order Number / RTV order number	Number(10)	<p>Merchandising system order number for this document. Required for merchandise invoices and optional for others. Store in IM_DOC_HEAD.ORDER_NO.</p> <p>This field can also contain the RTV order number if the RTV flag is 'Y'</p>	N	<p>post_dated_doc_days) (from im_system_options)</p> <p>Reject transaction to file if:</p> <ul style="list-style-type: none"> order / RTV order number exists and is not numeric order / RTV order number is null and vendor type is a supplier order/RTV order number is null and deal_id is null order / RTV order number exists and vendor type is NOT a supplier order /RTV order number exists and location or location type are null <p>Reject transaction to tables if RTV flag is null or 'N' AND:</p> <ul style="list-style-type: none"> order number exists but is not valid for the supplier or the supplier's linked suppliers order number exists but is not valid for the location/location type <p>Reject transaction to file if RTV flag is 'Y' AND:</p>

Field Name	Field Type	Description	Req	Validation
				<ul style="list-style-type: none"> ▪ RTV order number exists but is not valid for the supplier or the supplier's linked suppliers ▪ RTV order number exists but is not valid for the location/location type
Location	Number(10)	Merchandising system location for this document. Required for merchandise invoices and optional for others. Stored in IM_DOC_HEAD.LOCATION.	Y	Reject transaction to file if: <ul style="list-style-type: none"> ▪ location or location type do not exist ▪ location exists and is not numeric ▪ location exists and location type is not 'S'tore or 'W'arehouse Reject transaction to tables if: <ul style="list-style-type: none"> ▪ location and location type exist but are not valid
Location Type	Char(1)	Merchandising system location type (either 'S'tore or 'W'arehouse) for this document. Required for merchandise invoices and optional for others. Stored in IM_DOC_HEAD.LOC_TYPE.	N	Reject transaction to file if: <ul style="list-style-type: none"> ▪ location type exists and location is null
Terms	Char(15)	Terms of this document. If terms are not provided, the vendor's default terms will be associated with this record. Stored in IM_DOC_HEAD.TERMS. This value is used to get the Terms Discount Percentage to be stored on IM_DOC_HEAD.TERMS_DSCNT_PCT.	N	Reject transaction to tables if: <ul style="list-style-type: none"> ▪ terms exist and are not valid
Due Date	Char(14)	Date the amount due is due to the vendor (YYYYMMDDHH24MISS	N	Reject transaction to file if:

Field Name	Field Type	Description	Req	Validation
		format). If due date is not provided, default due date is calculated based on vendor and terms. Stored in IM_DOC_HEAD.DUE_DATE.		<ul style="list-style-type: none"> due date exists and is not a valid date format due date is before the vendor document date
Payment method	Char(6)	Method for paying this document. Stored in IM_DOC_HEAD.PAYMENT_METHOD.	N	Reject transaction to file if: <ul style="list-style-type: none"> payment method exists and is not valid
Currency code	Char(3)	Currency code for all monetary amounts on this document. Stored in IM_DOC_HEAD.CURRENCY_CODE.	Y	Reject transaction to file if: <ul style="list-style-type: none"> currency code is null currency code is not valid order number exists and currency code does not match the order's currency
Exchange rate	Number(12,4)	Exchange rate for conversion of document currency to the primary currency. Stored in IM_DOC_HEAD.EXCHANGE_RATE.	N	Reject transaction to file if: <ul style="list-style-type: none"> exchange rate exists and is not numeric
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) total cost amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Total Cost	Number(20,4)	Total document cost, including all items and costs on this document. This value is in the document currency. Stored in IM_DOC_HEAD.TOTAL_COST and IM_DOC_HEAD.RESOLUTION_ADJUSTED_TOTAL_COST.	Y	Reject transaction to file if: <ul style="list-style-type: none"> total cost is null total cost is not numeric total cost does not equal the sum of extended costs for all item detail records in this transaction total cost is not

Field Name	Field Type	Description	Req	Validation
				negative and vendor document type is CRDNT
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) total vat amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Total VAT Amount	Number(20,4)	Total VAT amount, including all items and costs on this document. This value is in the document currency.	N	Treat as zero if null. Reject transaction to file if: <ul style="list-style-type: none"> total VAT amount is not null but is not numeric total VAT amount does not equal the sum of VAT for all item detail records PLUS the sum of VAT for all non-merch items in this transaction PLUS the sum of VAT for all allowances in this transaction.
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) total quantity amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Total Quantity	Number(12,4)	Total quantity of items on this document. This value is in EACHES (no other units of measure are supported in ReIM). Stored in IM_DOC_HEAD.TOTAL_QTY and IM_DOC_HEAD.RESOLUTION_ADJUSTED_TOTAL_QTY.	Y	Reject transaction to file if: <ul style="list-style-type: none"> total quantity is null total quantity is not numeric total quantity does not equal the sum of quantities for all item detail records in this transaction total quantity is not zero when

Field Name	Field Type	Description	Req	Validation
				vendor document type is 'NMRCHI'
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) total discount amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Total Discount	Number(12,4)	Total discount applied to this document. This value is in the document currency. Stored in IM_DOC_HEAD.TOTAL_DISCOUNT	Y	Reject transaction to file if: <ul style="list-style-type: none"> total discount is null total discount is not numeric
Freight Type	Char(6)	The freight method for this document.	N	Reject transaction to file if: <ul style="list-style-type: none"> freight type exists and is not valid
Paid Ind	Char(1)	Indicates if this document has been paid. Stored in IM_DOC_HEAD.MANUALLY_PAID_IND.	Y	Reject transaction to file if: <ul style="list-style-type: none"> paid ind is null paid ind is not Y or N
Multi-Location	Char(1)	Indicates if this invoice goes to multiple locations. If Yes, the record should be inserted to IM_PARENT_INVOICE table.	Y	Reject transaction to file if: <ul style="list-style-type: none"> multi-location is null multi-location is not Y or N multi-location is Y and Consignment is Y
Consignment indicator	Char(1)	Indicates if this invoice is a consignment invoice.	Y	Reject transaction to file if: <ul style="list-style-type: none"> Consignment indicator is null Consignment indicator is not Y or N Do not reject transaction to table if Consignment is Y.
Deal Id	Number(10)	Deal Id from RMS if this invoice is a deal bill back invoice.	N	If Deal Id is not null, Deal Approval

Field Name	Field Type	Description	Req	Validation
				indicator must be 'M' or 'A'.
				Do not reject transaction to table if deal id is not null.
Deal Approval Indicator	Char(1)	Indicates if the document on IM_DOC_HEAD is to be created in Approved or Submitted status.	N	Reject to file if not blank, 'M' Submitted status or 'A' approved.
				Do not reject transaction to table if value is not null.
RTV indicator	Char(1)	Indicates if this invoice is a RTV invoice.	Y	Reject transaction to file if: <ul style="list-style-type: none"> ▪ RTV indicator is null ▪ RTV indicator is not Y or N Do not reject transaction to table if RTV is Y.
Custom Document Reference 1	Char(30)	This optional field is included in the upload file for client customization. No validation will be performed on this field. Stored in IM_DOC_HEAD.CUSTOM_REF_1.	N	
Custom Document Reference 2	Char(30)	This optional field is included in the upload file for client customization. No validation will be performed on this field. Stored in IM_DOC_HEAD.CUSTOM_REF_2.	N	
Custom Document Reference 3	Char(30)	This optional field is included in the upload file for client customization. No validation will be performed on this field. Stored in IM_DOC_HEAD.CUSTOM_REF_3.	N	
Custom Document Reference 4	Char(30)	This optional field is included in the upload file for client customization. No validation will be performed on this field. Stored in IM_DOC_HEAD.CUSTOM_REF_4.	N	
Cross-reference document number	Number(10)	Document that a credit note is for. Blank for all document types other than merchandise invoices. Stored in IM_DOC_HEAD.REF_DOC.	N	Reject transaction to file if: <ul style="list-style-type: none"> ▪ cross-reference document

Field Name	Field Type	Description	Req	Validation
				number exists and is not numeric

TVATS – VAT breakdown by VAT code. This information will be inserted in IM_DOC_VAT

Field Name	Field Type	Description	Req	Validation
File record descriptor	Char(5)	Marks costs at VAT rate line	Y	TVATS Reject entire transaction to file if this type of record exists and the transaction has any error. See technical design for additional validations. Reject to file if in im_system_options vat is on, but there is no TVATS.
Line id	Char(10)	Sequential file line number	Y	Halt execution if not in sequence.
Transaction number	Number(10)		Y	Reject entire file if: <ul style="list-style-type: none"> ▪ transaction number is not numeric ▪ transaction number is not the same as the current transaction
VAT code	Char(6)	VAT code that applies to cost	Y	Reject to file if VAT code is not valid
VAT rate	Number (20,10)	VAT Rate corresponding to the VAT code	Y	Reject to file if VAT rate is not numeric
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) Original Document Quantity amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Cost at this VAT code	Number (20,4)	Total amount that must be taxed at the above VAT code	Y	Reject to file if not numeric

TDETL - Item Detail Record. This information will be inserted into the IM_INVOICE_DETAIL table for Merchandise Invoice and IM_DOC_DETAIL_REASON_CODES for Credit Notes.

Field Name	Field Type	Description	Req	Validation
Record descriptor	Char(5)	Describes file record type.	Y	TDETL
Line id	Number(10)	Sequential file line number.	Y	Halt execution if not in sequence.
Transaction number	Number(10)	Transaction number for this item detail record.	Y	Reject entire file if: <ul style="list-style-type: none"> ▪ transaction number is not numeric ▪ transaction number is not the same as the current transaction
UPC	Char(25)	UPC for this detail record. Valid item number will be retrieved for the UPC. Stored in IM_INVOICE_DETAIL.ITEM or IM_DOC_DETAIL_REASON_CODES.ITEM.	Y Exclusive with item	Reject transaction to file if: <ul style="list-style-type: none"> ▪ UPC is null and Item is null ▪ Both UPC and Item are not null Reject transaction to tables if: <ul style="list-style-type: none"> ▪ Valid item is not found for UPC and UPC supp ▪ Valid item is not associated with the supplier ▪ The item found is identical to another detail item for this transaction (no duplicate items).
UPC Supplement	Number(5)	Supplement for the UPC. NOTE: UPC Supp is only valid for 9.0 implementation. For 10.1 implementation, this field will ALWAYS be blank.	N	Reject transaction to file if: <ul style="list-style-type: none"> ▪ UPC supplement exists and UPC doesn't exist

Field Name	Field Type	Description	Req	Validation
Item	Char(25)	Item for this detail record. Item number will be verified and Stored in IM_INVOICE_DETAIL.ITEM or IM_DOC_DETAIL_REASON_CODES.ITEM.	Y Exclusive with UPC	<ul style="list-style-type: none"> ▪ UPC supplement exists and is not numeric Reject transaction to file if: <ul style="list-style-type: none"> ▪ UPC is null and Item is null ▪ Both UPC and Item are not null ▪ Valid item is not associated with the supplier ▪ The item found is identical to another detail item for this transaction (no duplicate items).
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) Original Document Quantity amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Original Document Quantity	Number(12,4)	Quantity, in EACHES, of the item on this detail record. Stored in IM_INVOICE_DETAIL.INVOICE_QTY and IM_INVOICE_DETAIL.RESOLUTION_ADJUSTED_QTY.	Y	Reject transaction to file if: <ul style="list-style-type: none"> ▪ original document quantity is null ▪ original document quantity is not numeric
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) Original Unit Cost amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Original Unit cost	Number(20,4)	Unit cost, in document currency, of the item on this detail record. Stored in IM_INVOICE_DETAIL.UNIT_COST and IM_INVOICE_DETAIL.RESOLUTION_ADJUSTED_UNIT_COST.	Y	Reject transaction to file if: <ul style="list-style-type: none"> ▪ original unit cost is null ▪ original unit cost is not numeric

Field Name	Field Type	Description	Req	Validation
Original VAT Code	Char (6)	VAT code for item	Y	Reject to file if VAT code is invalid
Original VAT rate	Number (20,10)	VAT Rate for the VAT code/item	Y	Reject to file if VAT rate is not numeric
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) total allowance. Default is "+" if no allowances exist for this detail record.	Y	Reject transaction to file if: <ul style="list-style-type: none"> ▪ sign indicator is null ▪ sign indicator is not '+' or '-'
Total Allowance	Number(20,4)	Sum of allowance details for this item detail record. If no allowances exist for this item detail record, value will be 0.	Y	Reject transaction to file if: <ul style="list-style-type: none"> ▪ total allowance is null ▪ total allowance is not numeric ▪ total allowance does not equal the sum of allowance amounts for all allowance records in this item detail record ▪ total allowance is not 0 and vendor document type is CRDNT

TALLW – Allowance Record. This information will be inserted into IM_INVOICE_DETAIL_ALLOWANCE table.

Field Name	Field Type	Description	Req	Validation
Record descriptor	Char(5)	Describes file record type.	Y	TALLW
Line id	Number(10)	Sequential file line number.	Y	Halt execution if not in sequence.
Transaction Number	Number(10)	Transaction number for this item allowance record.	Y	Reject entire file if: <ul style="list-style-type: none"> ▪ transaction number is not numeric ▪ transaction number is not the same as the

Field Name	Field Type	Description	Req	Validation
				current transaction
Allowance code	Char(6)	Allowance code for this allowance record. Stored in IM_INVOICE_DETAIL_ALLOWANCE.ALLOWANCE_CODE.	Y	Reject transaction to file if: <ul style="list-style-type: none"> allowance code is null allowance code is not valid
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) allowance amount.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Allowance Amount	Number (20,4)	Amount of allowance in document currency. Stored in IM_INVOICE_DETAIL_ALLOWANCE.ALLOWANCE_AMOUNT.	Y	Reject transaction to file if allowance amount is null or not numeric.
Allowance VAT Code	Char (6)	VAT Code for Allowance	Y	Reject to file if VAT code is not valid.
Allowance vat rate at this VAT code	Number (20,10)	VAT Rate corresponding to the VAT code	Y	Reject to file if not numeric

TNMRC – Non-Merchandise Record. Records of this type will contain non-merchandise costs. These costs will be inserted into the IM_DOC_NON_MERCH table. Non-merchandise costs records are only required when the document type is non-merchandise. Non-merchandise cost records can also be associated with merchandise type documents if the vendor associated with the document allows non-merch costs on merchandise invoices (IM_SUPPLIER_OPTIONS. MIX_MERCH_NON_MERCH_IND).

Field Name	Field Type	Description	Req	Validation
Record descriptor	Char(5)	Describes file record type.	Y	TNMRC
Line id	Number (10)	Sequential file line number.	Y	Halt execution if not in sequence.
Transaction number	Number(10)	Transaction number for this non-merchandise record.	Y	Reject entire file if: <ul style="list-style-type: none"> transaction number is not numeric transaction number is not the same as the current transaction
Non Merchandise Code	Char(6)	Non-Merchandise code that describes this cost. Stored in IM_DOC_NON_MERCH.NON_MERCH_CODE.	Y	Reject transaction to file if: <ul style="list-style-type: none"> non-

Field Name	Field Type	Description	Req	Validation
				merchandise code is null
				<ul style="list-style-type: none"> non-merchandise code is not valid
Sign Indicator	Char(1)	Indicates either a positive (+) or a negative (-) Non Merchandise Amt.	Y	Reject transaction to file if sign indicator is null or if it is not '+' or '-'.
Non Merchandise Amt	Number(20,4)	Cost in the document currency. Stored in IM_DOC_NON_MERCH.NON_MERCH_AMT.	Y	Reject transaction to file if: <ul style="list-style-type: none"> non-merchandise amount is null non-merchandise amount is not numeric. non-merchandise amount does not have a negative value and this is part of a credit note document (THEAD.Vendor Document Type = 'CRDNT').
Non Merch VAT Code	Char (6)	VAT Code for Non-Merchandise	Y	Reject to file if VAT code is not valid.
Non Merch vat code at this VAT code	Number (20, 10)	VAT Rate corresponding to the VAT code	Y	Reject to file if not numeric
Service Performed Indicator	Char(1)	Indicates if a service has actually been performed. Stored in IM_DOC_NON_MERCH.SERVICE_PERF_IND.	Y	Reject transaction to file if: <ul style="list-style-type: none"> service performed indicator is null service performed indicator is not Y or N
Store	Number(10)	Store at which the service was performed. Stored in	N	Reject transaction to file if:

Field Name	Field Type	Description	Req	Validation
		IM_DOC_NON_MERCH.STORE.		<ul style="list-style-type: none"> ▪ store exists and is not numeric ▪ service performed indicator is Y and store is not valid

TTAIL – Transaction Tail. Marks the end of a transaction.

Field Name	Field Type	Description	Req	Validation
Record descriptor	Char(5)	Describes file record type.	Y	TTAIL
Line id	Number(10)	Sequential file line number.	Y	Halt execution if not in sequence.
Transaction number	Number(10)	Transaction number for the transaction that this record is closing.	Y	Reject entire file if: <ul style="list-style-type: none"> ▪ transaction number is not numeric ▪ transaction number is not the same as the current transaction.
Transaction lines	Number(6)	Total number of detail lines within this transaction.	Y	Reject transaction to file if transaction lines is not numeric, if it does not match the count of lines within the transaction, or if it is zero (transaction must have details).

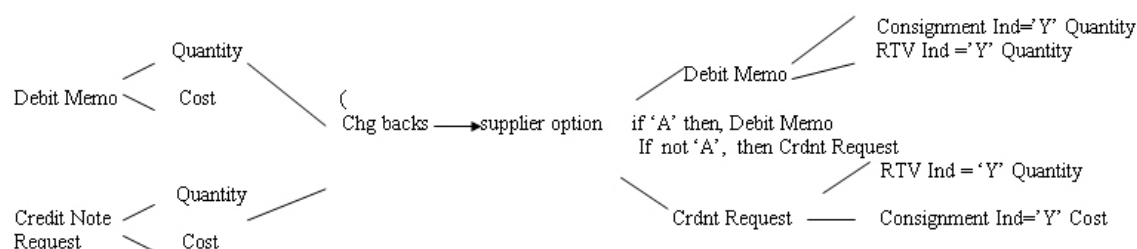
FTAIL – File TAIL. Marks the end of the upload file.

Field Name	Field Type	Description	Req	Validation
Record descriptor	Char(5)	Describes file record type.	Y	FTAIL
Line id	Number(10)	Sequential file line number.	Y	Halt execution if not in sequence.
Number of lines	Number(10)	Total number of lines within this file not counting FHEAD and FTAIL.	Y	Halt execution if number of lines is not numeric, if it does not match the count of lines within the file (excluding FHEAD and FTAIL), or if it is 2 (FHEAD and FTAIL only, file has no transactions).

Appendix

Notes:

- The EDI document upload process will have the ability to recognize a new document type. In FHEAD of the EDI flat file, the Document Type will not include CRDMC (credit memo cost). When the document type in the flat file is Debit Memo Cost, Debit Memo Qty, Credit Note Request Cost, or Credit Note Request Qty, and if the amount (Total Cost) for a Deal Charge Back Document that is sent over from RMS is negative a Credit Memo Cost will be created.
- For the charge back documents, to decide what document type to be populated in the database, a flow chat is displayed as follow:



- If the document type is “merchandise invoice”, and if the consignment indicator is ‘Y’, the status would be “matched”, if the consignment
 - Indicator is not ‘Y’, the status would be “ready for match”.
 - If the document type is not “merchandise invoice”, the status would be “approved”.
- If the consignment indicator is ‘Y’, then set the terms to the “Due Immediately” terms (term id = “48”), and set the terms discount percentage 0.
- That VAT codes and rates in the detail of documents are those known for the item and location when the document is not an import Document. Given a combination of TDETL.item and location, we could find a VAT. The vat code and vat rate in the VAT should be the same as the original vat code and original vat rate in the TDETL.

6. The merchandises header VAT and detail VAT are consistent (Ex VAT basis by VAT rate and VAT amount by VAT rate). Total header Merchandise VAT information can be calculated from total document VAT information and VAT information for non merchandise costs.
 - For example, for each Vat Code in TDETL and TNMRC: Thead.Total VAT Amount at this vat code = total vat from TDETL at this vat code + total vat from TNMRC at this vat code
 - Total vat from TDETL at this vat code = sum(original document quantity * original unit cost * original VAT rate)
 - Total vat from TNMRC at this vat code =sum(Non Merch VAT rate * Non Merch Amt)
 - Thead.Total VAT Amount at this vat code = sum(TVATS.Vat rate * TVATS.cost at this VAT code)
7. For an EDI upload document, if the Vat Region of the header is different from the vat region of the supplier, it is an import document. Import document will not contain VAT information. (LocVatRegion != SupplierVatRegion, then it is an import document). If a document is not an import document, plus the system_option.vat is on; if the TVATS is null, reject to file.
8. To decide whether a VAT code is valid in the TDETL, first find the VAT code given the information of item and location. If they are equal,
 - Then the vat code is valid, if they are not equals, check if the VAT code exists in the effective VAT codes, if the VAT code exists, then it is valid, but is going to be populated to the audit table.
9. If RTV indicator or consignment indicator is 'YES' and deal id is not null, must reject to file.
10. If Item field is populated and there is an error it should always reject to file. In order to reject to the tables, we must have the UPC field populated and not the Item field