



# IST/Clearing System Operations Guide

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# 1

## Preface

### Purpose of this Document

This document describes how IST/Clearing works, and instructs operations staff on how to manage and monitor the system processing.

### How this Manual is Organized

The structure of this document provides three modules whose content is oriented to different audiences. These modules are:

- High-level overview - provides a technical introduction to the IST/Clearing system processes. The information in this module is intended chiefly for operators who require information on IST/Clearing operation.
- Application-level module - this module explains how to use IST/Clearing to monitor and maintain its operation. It is intended to assist Financial Institution operatives and all others charged with the task to administer a clearing service.
- Technical specification - this module is intended for a technical audience.

### Related Documents

Readers should refer to the following documents for information that supplements this manual:

Documents	Names of the manual
Internal Documents	<ul style="list-style-type: none"> <li>• IST/Clearing Administration Guide - provides a general overview of the product, as well as the description of the installation and configuration procedures.</li> <li>• IST/Clearing Table Reference Guide - provides information on IST/Clearing data model and tables.</li> <li>• Qualification Service Guide - describes the transaction qualification module which qualifies transactions according to the association rules, and supports both national and international interchange rate programs.</li> <li>• IST/MAS Business Operations Guide - describes the MAS user interface.</li> <li>• IST/MAS Administration Guide - describes the architecture, processing, installation and configuration of the Merchant Accounting System.</li> </ul>
Other Documents	<ul style="list-style-type: none"> <li>• Visa Base II Clearing and Settlement Member Documentation.</li> <li>• Interchange Formats TC01 to TC48.</li> <li>• Interchange Formats TC50 to TC92.</li> <li>• VisaNet Settlement System (VSS) Member Documentation.</li> <li>• Financial Settlement Guide: American Express.</li> <li>• Europay ECCF Programmers Specifications.</li> <li>• IPM Clearing Formats.</li> <li>• The Global Clearing Management System.</li> <li>• MasterCard International Member Publications: Clearing.</li> </ul>



## Glossary of Special Terms and Acronyms

This glossary contains terms and acronyms used to describe various aspects of the transaction clearing process.

Term	Definition
<b>Acronyms</b>	
API	Application Programming Interface
ARN	<b>Acquirer Reference Number</b> is a unique retrieval reference number, assigned by an acquirer to allow tracing of a transaction. It is part of every draft transaction, and is kept throughout the life of that transaction. The ARN consists of 23 digits that represent: a Format Code (1 digit), Acquirer's BIN (4 digits), Capture date (YDDD format), Locator Number (11 digits) and a Check Digit (1 digit). At times, if applicable according to a Card Association, the first two digits of an ARN can be the <b>Interchange Rate Qualification Program Indicator</b> .
BIN	A Bank Identification Number is assigned by card associations to identify their members. The BIN appears as the first three to six digits of a cardholder account number, as well as part of ARN.
CPD	The abbreviation used in IST/Clearing for Clearing Date (Central Processing Date or Network Processing Date). It is the date when IST/Clearing assumes the network (card association or other destination institution) will receive and process the IST/Clearing transaction.
DBM	Database Management
ECCF	The <b>Europay Common Clearing Format</b> is used to exchange data with ECCSS. It is based on ISO8583.
ECCSS	Europay Common Clearing & Settlement System
EMV	Europay, MasterCard and Visa
ICA	<b>Interbank Card Association</b> is a unique identifier assigned to a member by MasterCard.
ISO8583	The ISO standard for on-line message flow used in processing card transactions.
IMF	Internal Message Format
INET	The MasterCard Clearing and Settlement System for the daily processing and routing of financial transactions between MasterCard and its members world wide.
IPM	Integrated Product Messages format



Term	Definition
IST/MAS	<b>IST Merchant Accounting System</b>
OCS	Oasis Clearing and Settlement format
MAS	Merchant Accounting System
RTM	Run-Time Management
SET	Secure Electronic Transaction
TID	Transaction identifier identifying the type of transaction.
TVS	Transaction Vocabulary System
TVSDB	A TVS database mapping interface. It provides a database abstraction using TVS messages. The facility allows data to be inserted in and retrieved from the database.
UA	Universal Agent
UDM	Universal Data Message
VISA BASE II	The VisaNet Clearing and Settlement System file format used primarily for the exchange of interchange transaction data and for settlement of those transactions between acquirers and issuers.
VSDC	<b>Visa Smart Debit and Credit</b>
XMF	External Message Format
Terms	
Acquirer	A Financial Institution, or its agent, which acquired or originated a transaction (owner or controller of the device). The acquirer is identified by its bin number.
Batch Header	A transaction message sent to announce a transaction upload. It precedes the batch details and indicates the number of messages to follow as well as total amounts.
Batch Trailer	A transaction message trailing the record details and indicating that the batch upload process is completed.
Calendar	The module controlling time-driven processes like payment cycles, delivery of payments, etc.
Card Association	An organization that owns a specific card scheme and sells franchises for the acquiring and issuing business. It also sells processing services for the card scheme brands, products, and programs to financial and other institutions.

Term	Definition
Card Scheme	Organization which owns one or more card brands and operates one or more card systems. (Example: Visa, MasterCard, Europay, Amex, Diners, Discovery, Proprietary Card Brand, etc.)
Card Type	The type of card.
Clearing Currency	The currency used in the clearing process. It is usually the transaction currency for acquirers, and cardholder billing currency for issuers.
Clearing Data	Information supplied by the acquirer to the issuer in order to apply a transaction to a customer account for billing. Clearing data includes original sales transactions, credit vouchers, fees, requests for information (retrievals), and chargebacks.
Clearing Date	The date on which the transaction was sent by an intermediary network to the destination.
Clearing Export	The process that generates outgoing files for different card associations and other systems.
Clearing Import	The process that recognizes and imports incoming files.
Clearing Module	The module providing clearing of transactions for both issuers and acquirers.
Clearing Time Limits	Each card Association determines clearing time limits for each interchange transaction. For example, the clearing time frame of a chargeback transaction depends on the chargeback reason code and may span from 45 to 180 calendar days from the settlement date or Endorsement.
Clearing Profile	The profile of an institution which determines transaction routing. Routing is based on the way the Clearing Profile parameters are defined. IST/Clearing can route transactions differently for each currency code, card scheme, or TID.
Clearing Service	A front-end, edit and file creation system that supports clearing of transactions for both Cardholder and Merchant settlement
Destination Institution	The institution where the export file is sent. The destination of a transaction, batch, and file.
Discover	Discover Card - an independent US credit card network.
Duplicate File	A file is considered duplicate if it comes in with the same file information as another file as another file previously processed in IST/Clearing.
Exception System	The system processing exception items (incoming chargebacks, outgoing representments, fees & fund disbursements, retrieval request and responses).



Term	Definition
File Export	<a href="#">"Clearing Export" on page 9.</a>
File Header	The first record on the incoming and outgoing clearing file that includes its standard file name (to prevent transmission duplication) as well as the date and time when the file was created.
File Import	<a href="#">"Clearing Import" on page 9.</a>
File Processing Granularity	Processing granularity is achieved at the file level in the Clearing Services. It means that records from a file can not be exported until the import file containing these records has been completely processed.
File Recognition	Process that recognizes incoming files.
File Trailer	The last record in the incoming and outgoing clearing file that includes the number of records, accumulated transaction amounts, and transaction count.
Forwarding Institution	The institution that transmitted the transaction to the clearing system. It can be either an acquirer or a processor.
Interchange Rate Indicator	The first two digits of the ARN identifying the interchange rate at which the transaction was presented (MasterCard).
Mailbox	The messaging service through which internal products communicate to each other. It is a logical location where tasks may leave and pick up data.
MAS Code	The billing code used to specify how merchant POS transactions are to be priced. It is also commonly referred to as the equivalent to an Interchange Rate Program.
Non-Financial Transactions	Transactions that are not subject to settlement.
Posting	Process of recording debits and credits to individual cardholder balances.
Presentment	Transaction data presented initially from an acquirer to an issuer.
Processing Granularity	<a href="#">"File Processing" on page 10.</a>
Receiving Institution	The transaction destination institution, the institution (on-us or external) receiving the transaction from the clearing system.
Qualification	The process of qualifying transactions according to association rules.
Retrieval request	The request for an original, or a copy, of the transaction document.
Scheduler	Process used to schedule tasks to be run by date and time.

Term	Definition
Second Presentment	A financial transaction originated by an acquirer to partially or wholly recover funds charged back to the acquirer by an issuer in a prior chargeback action.
Source Institution	Source institution can be either the institution which is the source of a transaction, or a source of a clearing file. File source can be either an acquirer or a processor.
Transaction Editing	Editing of transactions according to the defined rules determined by associations and institutions.
Transaction Enrichment	The process of enriching transactions with the necessary data (e.g. BIN type, BIN length, BIN Country Code etc.).
Transaction Qualification	<a href="#">"Qualification" on page 10.</a>
Transaction Type	A group of transactions that affects an account (e.g. sale, credit, cash advance, etc.)
Transaction Validation	A process that determines if a transaction contains acceptable values.
UNDO Facilities	<p>The facilities that allow you to:</p> <ul style="list-style-type: none"> <li>● “undo” processing prior to final clearing file transmission to outbound institutions;</li> <li>● reverse and export the reversed file in case the transactions from a file which was imported by mistake, were exported.</li> </ul>



## Revision Log

Date	Effective w/ version	Description
February 2014	2.2.16	<ul style="list-style-type: none"><li>● Replaced the "<a href="#">Corpcard Purchasing Form</a>" on <a href="#">page 194</a>.</li><li>● Updated the table "<a href="#">Corpcard Purchasing Form Fields</a>" on <a href="#">page 195</a>.</li></ul>
		<ul style="list-style-type: none"><li>● Replaced the "<a href="#">Pymt ADN Form</a>" on <a href="#">page 268</a>.</li><li>● Updated the table "<a href="#">Pymt ADN Form Fields</a>" on <a href="#">page 269</a>.</li><li>● Replaced the "<a href="#">Passen Tran Adn Form</a>" on <a href="#">page 164</a>.</li><li>● Updated the table "<a href="#">Passen Tran ADN Form Fields</a>" on <a href="#">page 165</a>.</li><li>● Replaced the "<a href="#">Purchasing Item Form</a>" on <a href="#">page 187</a>.</li><li>● Updated the table "<a href="#">Purchasing Item Form Fields</a>" on <a href="#">page 188</a>.</li></ul>
		<ul style="list-style-type: none"><li>● Replaced the "<a href="#">Transaction Enrichment Form</a>" on <a href="#">page 182</a>.</li><li>● Updated the table "<a href="#">Transaction Enrichment Form Fields</a>" on <a href="#">page 183</a>.</li><li>● Replaced the "<a href="#">Visa Pay Serv Adn Form</a>" on <a href="#">page 207</a>.</li><li>● Updated the table "<a href="#">Visa Pay Serv ADN Form Fields</a>" on <a href="#">page 207</a>.</li><li>● Replaced the "<a href="#">Visa ADN Form</a>" on <a href="#">page 234</a>.</li><li>● Updated the table "<a href="#">VISA ADN Form Fields</a>" on <a href="#">page 234</a>.</li><li>● Added the "<a href="#">Loan Transaction Addendum Form</a>" on <a href="#">page 144</a>.</li><li>● Added the table "<a href="#">Loan Transaction Addendum Form Fields</a>" on <a href="#">page 145</a>.</li></ul>



Date	Effective w/ version	Description
August 2013	2.2.15	<ul style="list-style-type: none"><li>• Replaced the "<a href="#">Visa Rtn Rclas Adn Form</a>" on <a href="#">page 253</a>.</li><li>• Updated the table "<a href="#">Visa Rtn Rclas Adn Form Fields</a>" on <a href="#">page 254</a>.</li><li>• Replaced the "<a href="#">In Draft Base II Form</a>" on <a href="#">page 171</a>.</li><li>• Updated the table "<a href="#">In Draft Base II Form Fields</a>" on <a href="#">page 172</a>.</li><li>• Replaced the "<a href="#">Visa Pay Serv Adn Form</a>" on <a href="#">page 207</a>.</li><li>• Updated the table "<a href="#">Visa Pay Serv ADN Form Fields</a>" on <a href="#">page 207</a>.</li><li>• Replaced the "<a href="#">Transaction Enrichment Form</a>" on <a href="#">page 182</a>.</li><li>• Updated the table "<a href="#">Transaction Enrichment Form Fields</a>" on <a href="#">page 183</a>.</li><li>• Replaced the "<a href="#">Transaction Inquiry</a>" on <a href="#">page 97</a>.</li><li>• Updated the table "<a href="#">Transaction Inquiry Form Fields</a>" on <a href="#">page 103</a>.</li><li>• Replaced the "<a href="#">In Draft EMC Form</a>" on <a href="#">page 111</a>.</li><li>• Updated the table "<a href="#">In Draft EMC Form Fields</a>" on <a href="#">page 112</a>.</li></ul>
August 2013	2.2.14	<ul style="list-style-type: none"><li>• Deleted the section Diners Rules.</li><li>• Updated the table to add entries for Diners on <a href="#">page 19</a>.</li><li>• Added a note on ARN Generation on <a href="#">page 46</a>.</li><li>• Added a section on <a href="#">Clearing Message Log</a>.</li></ul>
February 2013	2.2.14	<ul style="list-style-type: none"><li>• Replaced the "<a href="#">Fleet Service Addendum Form</a>" on <a href="#">page 146</a></li><li>• Updated the table "<a href="#">Fleet Service Addendum Form Fields</a>" on <a href="#">page 147</a></li><li>• Replaced the "<a href="#">In Draft EMC Form</a>" on <a href="#">page 111</a></li><li>• Removed the CVC2 VP Ind field from "<a href="#">In Draft EMC Form Fields</a>" on <a href="#">page 112</a> table</li></ul>
December 2012	2.2.13	<ul style="list-style-type: none"><li>• Replaced the "<a href="#">Transaction Enrichment Form</a>" on <a href="#">page 182</a>.</li><li>• Updated the table "<a href="#">Transaction Enrichment Form Fields</a>" on <a href="#">page 183</a>.</li></ul>
September 2012	2.2.13	<ul style="list-style-type: none"><li>• Updated the field length of PPOL program Data from 1 to 3 on <a href="#">page 123</a>.</li></ul>

Date	Effective w/ version	Description
August 2012	2.2.13	<ul style="list-style-type: none"> <li>Replaced the <a href="#">"Transaction Enrichment Form" on page 182.</a></li> <li>Updated the table <a href="#">"Transaction Enrichment Form Fields" on page 183.</a></li> <li>Replaced the <a href="#">"Visa ADN Form" on page 234</a></li> <li>Updated the table <a href="#">"VISA ADN Form Fields" on page 234.</a></li> <li>Replaced the <a href="#">"Fleet Service Addendum Form" on page 146</a></li> <li>Updated the table <a href="#">"Fleet Service Addendum Form Fields" on page 147.</a></li> <li>Replaced the <a href="#">"In Draft EMC Form" on page 111.</a></li> <li>Updated the table <a href="#">"In Draft EMC Form Fields" on page 112.</a></li> </ul>
July 2012	2.2.12	<ul style="list-style-type: none"> <li>Converted the manual to current FIS standards.</li> </ul>
March 2012	2.2.12	<ul style="list-style-type: none"> <li>Replaced the <a href="#">"In Draft EMC Form" on page 111.</a></li> <li>Updated the table <a href="#">"In Draft EMC Form Fields" on page 112.</a></li> <li>Replaced the <a href="#">"Visa Pay Serv Adn Form" on page 207.</a></li> <li>Updated the table <a href="#">"Visa Pay Serv ADN Form Fields" on page 207.</a></li> <li>Replaced the <a href="#">"In Draft Base II Form" on page 171.</a></li> <li>Updated the table <a href="#">"In Draft Base II Form Fields" on page 172.</a></li> <li>Replaced the <a href="#">"Transaction Enrichment Form" on page 182.</a></li> <li>Updated the table <a href="#">"Transaction Enrichment Form Fields" on page 183.</a></li> </ul>
July 2011	2.2.10	<p>Added new field <a href="#">"Gutd Uni ID"</a> in Additional Settlement Info Tab of Transaction Inquiryscreen.</p>
March 2011	2.2.10	<ul style="list-style-type: none"> <li>Replaced the <a href="#">"In Draft EMC Form" on page 111.</a></li> <li>Updated the table <a href="#">"In Draft EMC Form Fields" on page 112.</a></li> <li>Replaced the <a href="#">"Visa SMS ADN Form" on page 203</a></li> <li>Updated the table <a href="#">"Visa SMS ADN Form Fields" on page 204.</a></li> <li>Replaced the <a href="#">"Visa Pay Serv Adn Form" on page 207.</a></li> <li>Updated the table <a href="#">"Visa Pay Serv ADN Form Fields" on page 207.</a></li> </ul>
September 2010	2.2.9	<ul style="list-style-type: none"> <li>Replaced the <a href="#">"In Draft EMC Form" on page 111.</a></li> <li>Updated the table <a href="#">"In Draft EMC Form Fields" on page 112.</a></li> </ul>



Date	Effective w/ version	Description
February 2010	2.2.6	<p>Updated the following:</p> <ul style="list-style-type: none"><li>● <a href="#">"Calculating Number of Clearing Days" on page 53</a></li><li>● <a href="#">"Exception Day List table (EXCEPTION DAY LIST)" on page 55.</a></li><li>● <a href="#">"Transaction Enrichment Form Fields" on page 183.</a></li></ul>
March 2009	2.2.6	<ul style="list-style-type: none"><li>● Added <a href="#">"VISA SMS and Promotion Details Form" on page 205.</a></li><li>● Updated the screens and new fields for <a href="#">"Visa SMS Addendum" on page 203</a>, <a href="#">"Merchant Description" on page 241</a>, <a href="#">"Transaction Inquiry" on page 97</a> and <a href="#">"Import System Balancing Log" on page 289.</a></li></ul>
September 2008	2.2.5	<ul style="list-style-type: none"><li>● Added <a href="#">"Collection Only Transaction" on page 37</a></li><li>● Added Export Base II collection and Export IPM Collection in <a href="#">"Export Processing" on page 18</a> table.</li><li>● Updated <a href="#">"Scheduling Tasks" on page 17.</a></li></ul>
March 2006	1.1.10	Added <a href="#">"General Ledger Screens" on page 302.</a>
July 2003	1.1.10	Initial release of the manual.

# 2

## IST/Clearing Operation Overview

### Introduction

#### What IST/Clearing Does

IST/Clearing receives files from various sources with transactions and batches of transactions, and prepares transactions for clearing to various destinations. In the process, IST/Clearing performs the following functions:

- Imports files from different sources:
  - Recognizes incoming files;
  - Checks for duplicate files;
  - Invokes the proper adapter to process the file;
- Logs all the files;
- Validates transactions to ensure the received transactions are permitted;
- Enriches transactions with static data;
- Rejects ineligible transactions, batches, or files, and suspends them;
- Logs all the suspended files;
- Re-processes suspended files;
- Edits transactions to ensure business and technical rules are followed;
- Determines the source and destination of each transaction;
- Qualifies transactions for Interchange Reimbursement programs in accordance with Card Association rules;
- Ensures that all input transactions are system balanced to the output transaction files;
- Creates Exception Management clearing files of returned or exception management items from multi-card associations;
- Creates merchant files to our Merchant Accounting system for fee charging and remittance;
- Creates issuer files to our card issuing system for posting and cardholder billing;
- Receives and logs card association returned transactions;



- Receives and logs card association settlement records or reports for client reconciliation purposes;
- Creates clearing files of original POS deposit transactions, together with exception management items to multi-card associations.
- Generates an export file for the client's General Ledger System.

Most of the above enumerated processes have to be scheduled in order to be executed. In order to monitor the execution, IST/Clearing provides the ability to query the system.

## IST/Clearing Processing

### Starting IST/Clearing Process

IST/Clearing process can be initiated in one of the two ways:

- Manually— by a system administrator, or
- Automatically—by a scheduler used to program tasks to be run by date and time.

The IST/Clearing process is started up and executed by the **System Operator** who first sets the **Scheduler** to program tasks that need to be run.

### Scheduling Tasks

All automated processes in IST/Clearing are driven by the Scheduler process. It allows the user to schedule tasks on a daily, weekly, or monthly basis within specific time ranges. It also grants exceptions by day or time that over-ride the previously established schedule.

The tasks are usually scheduled by date and time, but there are also recurring tasks, one time tasks, and tasks triggered by an external clock .

The tasks are set up in the Tasks form, and monitored using the [“Tasks Lookup” on page 300](#).

To maintain unique task\_nbr across the system, the next\_task\_nbr will be taken from GLOBAL\_SEQ\_CTRL table. There should be an entry in GLOBAL\_SEQ\_CTRL for task\_log\_seq from where the Scheduler can pick the most recent sequence number.

<b>NOTE:</b>	For details on how to schedule tasks, see the description of the Tasks form in IST/Clearing Administration Guide.
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## Import Processing

The Scheduler process has the ability to run non-stop: 24 hours a day and seven days a week. For Import processing, you can configure the Scheduler to scan through a task list in a loop and, based on the list, send instructions to the File Recognition task to start the appropriate process.

For each task number, as configured in the Tasks form, a time for invoking the task is defined. An example of the import task list is provided below:

```
BaseII Import start  
BaseII Import stop  
IPM Import start  
IPM Import stop  
Amex Import start  
Amex Import stop  
All import start  
All import stop
```

The Scheduler invokes a File Scan Task of the File Recognition task for each file type. The File Scan Task scans the pre-defined directory, defined in the Institution File Type (INST\_FILE\_TYPE) table, and if there are incoming files to be processed, it:

- Copies the file to the ".\processing" directory, and
- Sends a message to the File Recognition process to invoke file recognition processing.

## Export Processing

For Export processing, you will normally configure the Scheduler to be invoked at a pre-defined time, when you normally export files. Thus, the scheduler will invoke an export process for a certain file type and destination institution at the pre-defined time. Once the export of the file is completed, the task is finished.

## Example

The following example shows the scheduling of tasks in the Tasks table:

Institution ID	Task Number	Task Name	Command Number	Command Parameter	Run Type	Run Month	Run Day	Run Hour	Run Min	Usage
123	3	Import tc57	201	-IXYZ01	-	0	0	0	0	CLR
123	6	Import Basell	241	-I04	-	0	0	0	0	CLR
123	8	Import IPM			-	0	0	0	0	CLR

Institution ID	Task Number	Task Name	Command Number	Command Parameter	Run Type	Run Month	Run Day	Run Hour	Run Min	Usage
123	9	Import DINERS	272		-	0	0	0	0	CLR
123	10	Export Discover	381	-I08 <ProcessorID>	-	0	0	0	0	CLR
123	16	Export MAS	321	-IMAS01	-	0	0	0	0	CLR
123	18	Export Basell	341	-I04	-	0	0	0	0	CLR
123	19	Export Basell to our Issuer	341	-IISSVISA01	-	0	0	0	0	CLR
123	2323	Export IPM Collection	355	-I05	-	0	0	0	0	CLR
123	20	Export Base II Collection	343	-I04	-	0	0	0	0	CLR
123	24	Export IPM	355	-I05	-	0	0	0	0	CLR
123	25	Export AMEX	331	-I03	-	0	0	0	0	CLR
123	26	Export DINERS	371	-I07	-	0	0	0	0	CLR
123	30	Import General	299	-typedscvIN	D					CLR
123	31	Export General	399	-typediscov	D					CLR
123	32	Start Scan	100		-	0	0	0	0	CLR
123	33	Stop Scan	200		-	0	0	0	0	CLR
123	34	Stop Scheduler	1		-	0	0	0	0	CLR
123	35	Start Clearing	400		-	0	0	0	0	CLR
123	36	Test syscmd	408	-FCD \$UA_BASE;cat*.cfg	-	0	0	0	0	CLR

# System Processing

## File Recognition

File Recognition is the process which:

- Recognizes files from different sources, and
- Invokes proper UA adapters to process the recognized files.

The Import process recognizes the incoming files in the following way:

1. by institution and file type:
2. by file type only:
3. by file name (directory/file name mask).

The File Recognition Process begins as soon as files appear in the pre-defined directories, providing the time of appearance falls into a pre-defined processing window.

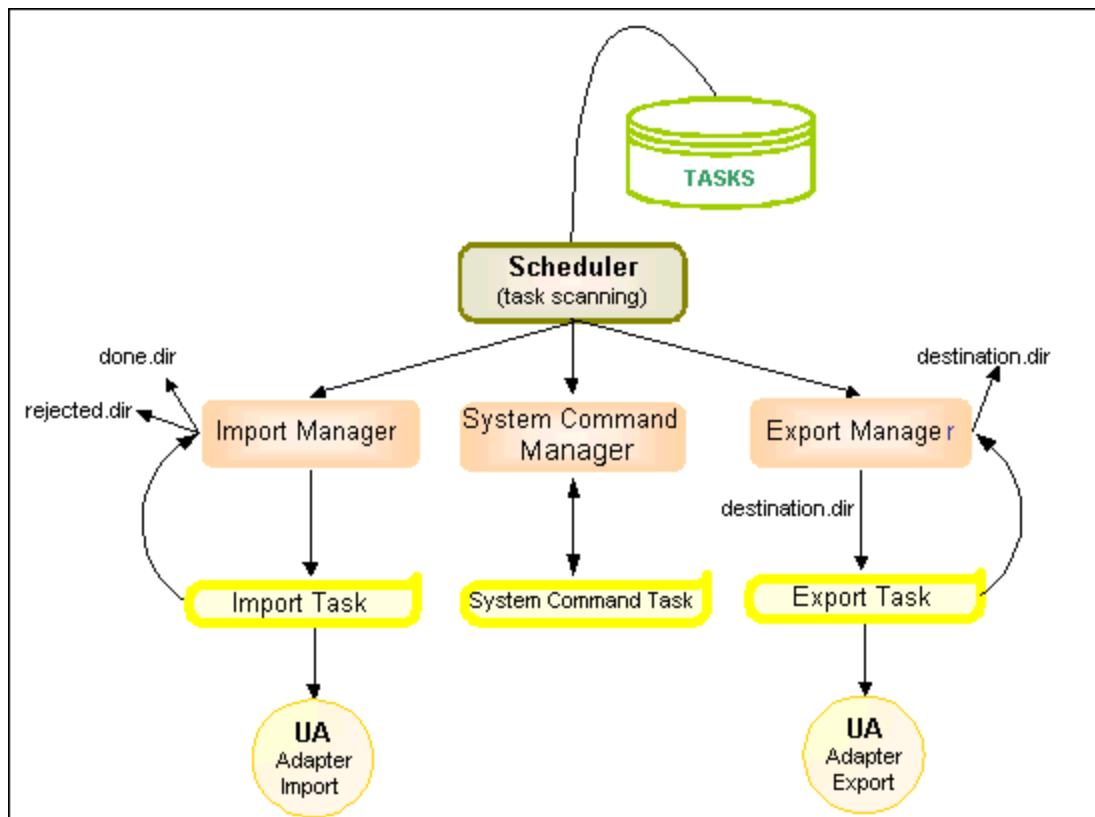


Figure 1 File Recognition Process

The Scheduler scans the Tasks table to get tasks as configured. It sends task



The Scheduler scans the Tasks table to get tasks as configured. It sends task messages into the mailboxes of the task managers listed below:

- Import Manager,
- Export Manager, and
- System Command Manager.

The **Import Manager** does the following:

1. Gets task messages from the Scheduler,
2. Scans incoming directories,
3. Produces a list of incoming files,
4. Gets the appropriate configuration for the incoming file from the inst\_file\_type table,
5. Sends incoming files and their UA configuration to the Import Task,
6. Waits for the result from the Import Task,
7. Based on the results, moves the incoming file to either “Done”, or “Rejected” directories.

The **Import Task** then:

1. Reads task message from the Import Manager,
2. Prepares UA configuration file, the location files of the incoming file and the mailbox, mapping, description files,
3. Invokes the UA Adapter Import,
4. Sends the results of the import to the Import Manager.

The **Export Manager** performs the following:

1. Gets task messages from the Scheduler,
2. Produces a list of outgoing files,
3. Gets the appropriate configuration for the incoming file from the inst\_file\_type table,
4. Sends outgoing files and their UA configuration to the Export Task,
5. Waits for the result from the Export Task,
6. Moves the files to the “Destination” directory.

The **Export Task** then performs the following:

1. Reads task messages from the Export Manager,
2. Prepares UA configuration file, the location files of the outgoing file and the mailbox, mapping, and description files,



3. Determines the file name,
4. Invokes the UA Adapter Export,
5. Sends the results of the export to the Export Manager.

The **System Command Manager** gets task messages from the Scheduler, and sends system commands to the System Command Task. The **System Command Task** then:

1. Reads the task message from the System Command Manager,
2. Invokes the system command task using system calls,
3. Sends results to the System Command Manager.

## File Recognition Criteria

### Recognizing Files by Institution and File Type Directory

The Import process can be set up to expect incoming files to appear in directories defined according to the institution and file type. That means that a directory must be determined for each possible institution/file type combination. Each directory is unique and only files from one institution and of one file type can appear in it. This feature allows the user to keep original file names, which, in turn, facilitates tracking of transactions back to their original sources. File name mask is used to check if the expected file came to the directory.

Use the Institution File Type form to determine directories where incoming files will be expected. In addition to the incoming directory, the Institution File Type form contains error thresholds for the source institution/file type, the expected file name mask, and other details. See IST/Clearing Administration Guide for the description of the Institution File Type form.

### Recognizing Files by File Type Directory

The Import process can be set up to expect incoming files to appear in directories defined according to the file type and source institution. All files of a particular type are expected to come to that specific directory regardless of the source institution of the file. The source institution is determined by the content of the file.

File types will be pre-determined for the existing UA adapters, but the user has to determine directories where the incoming files will be expected. Use the Institution File Type (INST\_FILE\_TYPE) form to define (for each file source institution and file type defined directories) file name masks as well as UA Adapters used to process the given file types.



## File Naming

There is a file naming convention in place according to which incoming file names consist of the following parts:

source institution,

file type, and

original file name as created on the sending institution system.

## File Transfer

The transfer utility is used to change the file name of the transferred file. In front of the original name, this process adds the source institution ID and file type. The file name mask then consists of the following:

Institution\_ID.file\_type.original\_file\_name

This allows determining the source (sending) institution of the file from the file name. The Clearing process needs this information since business edits are set up based on the institution from which the file is coming as well as error thresholds for the file.

## Example

A request for a Transfer Process to transfer BASE II files from VISA (VAP node) to the clearing system.

The Transfer Process will do the following:

- Rename files by adding “04.41” in front of the original name, where “04” represents the institution ID for VISA, while “41” represents the BASE II file type.
- Transfer files to the directory: Clearing/Incoming/BASEII.

## Recognizing Files by File Name

File recognition can be based on the file name from which the source institution ID and file type are recognized.

## Example of a File Name Mask

The file type is recognized by its file name using a predetermined file name masks. The following is a possible example of a file name mask:

\$10I.IPM.\$4J.\$3S

It consists of the following elements:

- **\$10I** - Source institution ID, up to 10 characters long;
- **IPM** - Determiner of the file type appearing after the first “.” in the file name;
- **\$4J** - Julian date, occupying 4 places after the second “.” in the file name;
- **\$3S** - Sequence number.



The file name that will match this file name mask is:

XYZ.IPM.3038.001

### File Transfer

The external utility responsible for the file transfer renames files at the point when they are transferred to the IST/Clearing system. This utility has a “renaming list” to keep track of the original and new file names. This utility adds source institution and file type to the determined position in the file name.

Once the file type is identified by file name, File Recognition can process it according to the configuration file and in/out flag defined in the Institution File Type form.

### Duplicate Checking

To ensure that files are not processed more than once, duplicate file checking is performed for each incoming file. A file is considered a duplicate if it satisfies the following conditions:

- It has the same physical file name as another file;
- It has the same external file ID found in the File Header of some file formats;
- It has the same checksum as another file.

The “file name” and “checksum” conditions are configurable.

All incoming files are logged in the In File Control table. The external file name of the incoming file is compared with the already imported and successfully processed files, using the External File Name and the corresponding Status from the [In File Control](#) table.

If a match is found, the file is rejected as duplicate and an entry is logged in the In File Control table with the status “0”, denoting a duplicated file.

## Universal Agent Adapters

Universal Agent based adapters are used for importing and exporting files. Each different file format has its own unique Universal Agent.

In the Import process, the UA adapter:

- Provides basic syntax editing, including data type mapping and checksum controls,
- Translates all message fields into the TVS Canonical Clearing Message (CCM) format, and
- Assigns the IST/Clearing TID based on the transaction and adds it into the TVS CCM.

If an Import UA adapter finds errors during the syntax checking, data type mapping, it generates error codes and inserts error data into the clearing message. Once this process is complete, the clearing message is sent for further processing.



See “[Error Handling in the Import Process \(with UA\)](#)” on page 62 for details on how errors are handled.

In the Export process, the Export UA Adapters create output files based on Destination Institution ID and Destination File Type. They are defined in the UA configuration files at installation.

For each Destination Institution ID and Destination File Type, the appropriate UA Adapter finds the corresponding records in the In Draft Main table, based on the status of records in the Cutoff Batch table. All records with status “R” (ready to clear) in the Cutoff Batch table are deemed to be available for export. Individual records are then retrieved from the In Draft Main table and, if applicable, the appropriate addendum record is also extracted. The Transaction Sequence Number of the In Draft Main table is the key to search addendum tables.

Once all transactions have been exported, the export process marks the appropriate Cutoff Batch with the “E” status (exported). Marking transactions as exported prevents transactions from being exported in subsequent files.

## Transaction Validation

Various kinds of transaction validation are performed throughout the whole clearing process:

- Implicit Validation - is the validation carried out by the system while performing some other process. For example, during the BIN enrichment, the application validates if a BIN, required for source determination, is in the appropriate BIN table.
- Basic Validation - is mandatory for the data capture transactions. It validates the following fields:
  - Merchant ID,
  - PAN and PAN check digit,
  - Transaction amount,
  - Purchase date,
  - Transaction acquirer.
- Transaction Validation and Editing—provides a detailed search of the transaction data elements to define if they are meaningful for further processing. Initial validation configuration will be provided at the installation, but the user will provide configurable transaction edits. See “[Transaction Validation and Editing](#)” on page 39.



## Transaction Routing and BIN Enrichment

Transaction routing and BIN enrichment are very important parts of IST/Clearing. They determine the source and destination of each transaction. Transaction routing process is partially user-configured.

The examples below, together with the figure illustrating them, show how the sources and destinations are determined, and how transactions are routed internally.

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<b>NOTE:</b>	The numbers marking the paths in the figure correspond to the numbers of examples presented below.
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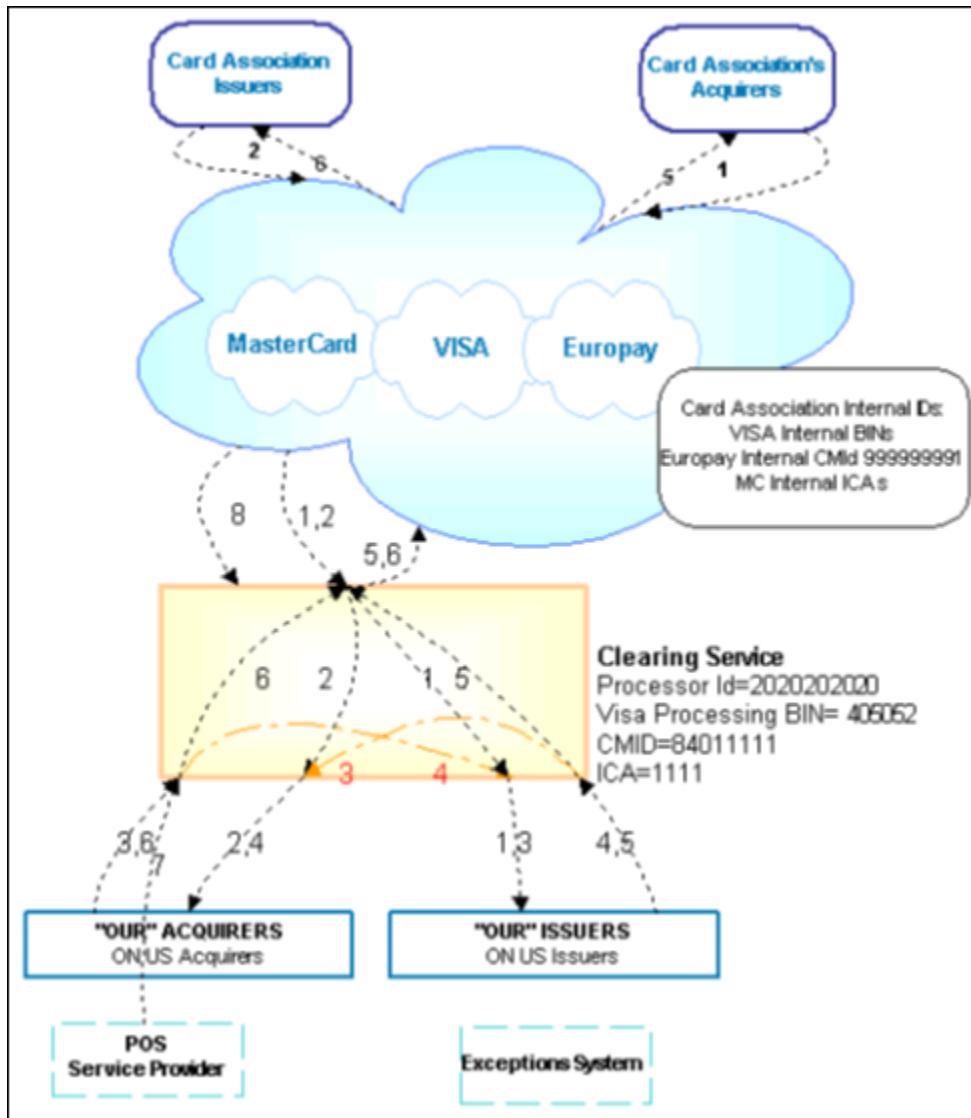


Figure 2 Transaction Routing



### **Example 1**

The transaction comes from a Card Association, i.e. “off us” acquirer, and goes to an on-us issuer.

The format of the incoming transaction is Card Association dependent, and it can be Visa BASE II, MasterCard IPM, or Europay ECCF. The format of the outgoing transaction can be Processor, Client, and Exception System dependent (OCS).

Transaction types processed can be:

- Chargebacks, or second chargebacks;
- Retrieval requests;
- Fees/funds;
- Administrative messages.

### **Example 2**

The transaction comes from a Card Association, i.e. “off us” issuer, and goes to an on-us acquirer.

The format of the incoming transaction is Card Association dependent, and it can be Visa BASE II, MasterCard IPM, or American Express. The format of the outgoing transaction can be Processor, Client, and Exception System dependent (OCS).

Transaction types processed can be:

- Chargebacks, or second chargebacks;
- Retrieval requests;
- Fees/funds;
- Administrative messages;
- Returned original acquirer transactions.

### **Example 3**

The transaction comes from an “on us” acquirer, and goes to an on-us issuer. This is a special instance when the acquirer and the issuer have an agreement to clear their transactions without the Card Association.

The format of the incoming transaction can be Processor, or Client Data Capture System dependent. The format of the outgoing transaction can be Processor, or Client dependent.

Transaction types processed can be:

- Presentments, second presentments, reversals;
- Retrieval requests;
- Fees/funds;
- Administrative messages.



#### **Example 4**

The transaction comes from an “on us” issuer, and goes to an on-us acquirer. This is a special instance when the acquirer and the issuer have an agreement to clear their transactions without the Card Association.

The format of the incoming transaction can be Processor, Client, and Exception System dependent. The format of the outgoing transaction can be Processor, or Client dependent.

Transaction types processed can be:

- Chargebacks, second chargebacks;
- Retrieval request responses;
- Fees/funds;
- Administrative messages.

#### **Example 5**

The transaction comes from an “on us” issuer, and goes to a Card Association. This is a general On Us Issuer transaction clearing.

The format of the incoming transaction can be Processor, Client, or Exception System dependent. The format of the outgoing transaction is Card Association dependent, and can be VISA BASE II, MasterCard IPM, Europay ECCF, Amex, or Diners.

Transaction types processed can be:

- Chargebacks, second chargebacks;
- Retrieval request responses;
- Fees/funds;
- Administrative messages.

#### **Example 6**

The transaction comes from an on-us acquirer and goes to a Card Association. This is a general off-us acquirer transaction clearing.

The format of the incoming transaction is Processor, Client, and Exception System dependent. It can be POS, OCS or TC57. The format of the outgoing transaction is Card Association dependent, and can be VISA BASE II, MasterCard IPM, Europay ECCF, Amex, or Discover.

Transaction types can be:

- Presentments, second presentments, reversals;
- Retrieval requests,
- Fees/funds,
- Administrative messages.



### **Example 7**

The transaction comes from an on-us acquirer and goes to a Card Association. This is a special instance of the off-us acquirer transaction clearing where TC57 data capture format is understood.

The format of the incoming transaction is Data Capture Advice TC57 transaction. The format of the outgoing transaction is Card Association dependent, and can be VISA BASE II, MasterCard IPM, Europay ECCF, Amex, or Discover.

Transaction types can be:

- Purchase or sale,
- Return or credit.

### **Example 8**

The transaction comes from a Card Association and goes to Card Association members. This is a transaction initiated by the Card Association processing, or clearing, system itself.

The format of the incoming transaction is Card Association dependent, and can be VISA BASE II, MasterCard IPM, Europay ECCF, Amex, or Discover. The format of the outgoing transaction is Processor, Client, and Exception System dependent.

Transaction types can be:

- Transactions returned from the Card Association processing, or clearing, system,
- Transactions rejected by the Card Association processing, or clearing, system
- Transactions with Reclassification Advice from Card Association processing, or clearing, system,
- System update transactions.

### **Original Data Capture Transactions**

IST/Switch passes original merchant transactions as Data Capture to IST/Clearing in the Advice File (TC 57) format.

The original transactions that can be processed include:

- sales drafts,
- credit vouchers, and
- manual cash advances.

Clearing sources and destinations can be various, as presented in the figure below:

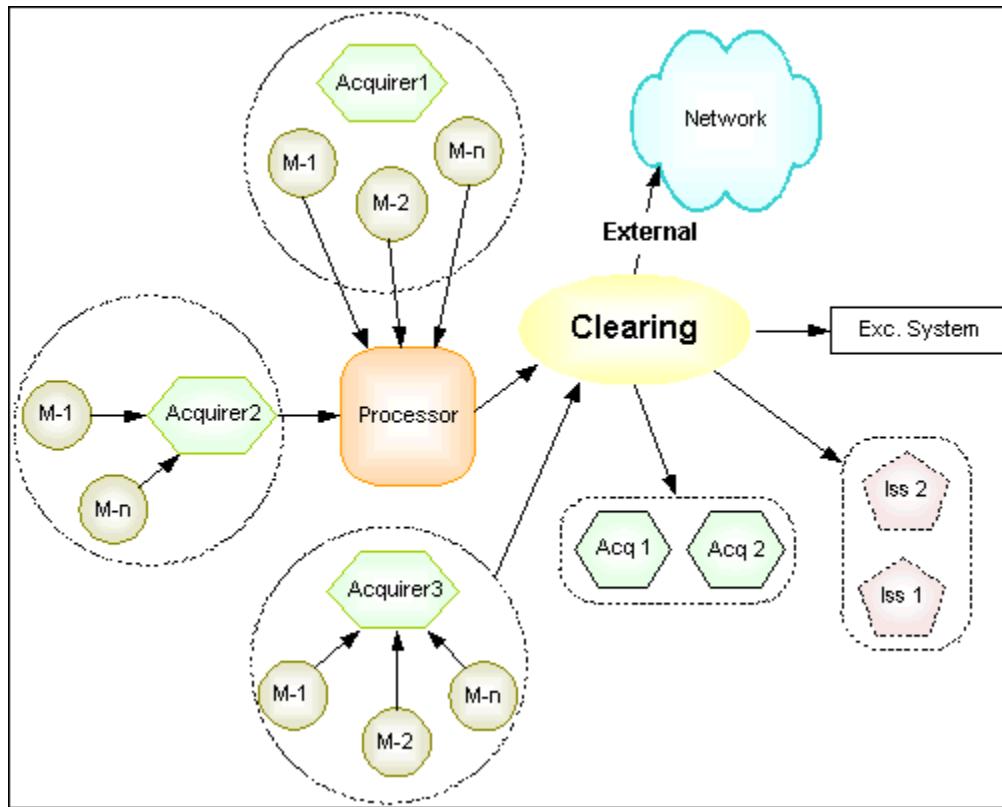


Figure 3 Clearing Sources and Destinations

Merchants are associated with Acquirers. Merchants collect transactions, and at the end of the day they send them either to their Acquirer, or to the Data Capture processor which processes those transactions on behalf of the Acquirer. Acquirers, or Processors, send transactions to the IST/Clearing system to process.

**Source Institution** in the IST/Clearing can be either:

- The file source - The institution from which the Clearing system received the file. It can be either an Acquirer or a Processor; or
- The transaction source - The institution from which the transaction originated.

**Forwarding Institution** is the transaction source, the acquirer of the transaction.

When IST/Clearing finishes processes the transactions, it sends them out to Networks, Acquirers, Issuers, or Exception Systems. Transactions for a group of Acquirers, or Issuers, can be grouped in the same file, and sent to an institution.

**Receiving Institution** is the transaction destination, the institution where the transaction has to end up (E.g. Acq 1, or Iss 2).

**Destination Institution** is the institution where the export file (which can contain transactions for a number of issuers, or acquirers) is sent.

The steps taken in the transaction routing and enrichment processes are the following:

1. Source Determination - the source institution is determined in the following way:
  - The Acquiring BIN /Acquirer ID is taken from the transaction ARN, forwarding institution, or source BIN. The system then looks in the Member BIN (MBR\_BIN) table for this Acquiring BIN/Acquirer ID. The Member Alias table contains relations between External IDs and Internal IDs for all entities involved in the clearing and enrichment process.

**NOTE:**

If the transaction does not contain card scheme information, Clearing would be able to determine the card scheme using Member BIN (MBR\_BIN) table and Acquirer Card Scheme Priority (ACQ\_CS\_PRIORITY) table in case of account numbers which fall in more than one BIN range.

- If the Acquiring Bin is found in the Member Alias table, the application obtains the corresponding Card Scheme. This BIN is the Source BIN.
- Details related to the Institution ID are found in the Institution Table.
- If the Acquiring BIN/Acquirer ID is not found in the Member Alias table, an error is reported.

For details of Member Alias form and its setup, see IST/Clearing Administration Guide. For the description of MBR\_ALIAS table, see IST/Clearing Table Reference Guide.

1. Destination Determination - the destination institution is determined in the following way:
  - The system takes the PAN from the transaction and looks for it in the “on-us” Member BIN (MBR\_BIN) table. This table stores issuing BINs for member banks, and allows the system to check if a member institution owns a BIN.
  - If the PAN is found in the MBR\_BIN table (i.e. it falls within the Lowest Valid BIN and Highest Valid BIN, or BIN\_RANGE\_LOW and BIN\_RANGE\_HIGH), the transaction is initiated with a card issued by an ‘internal’ issuer. This is the Destination BIN. The corresponding Card Scheme is obtained from the transaction.
  - If the PAN is not found in the Issuer BIN table (i.e. it does not fall within the Lowest Valid BIN and the Highest Valid BIN), the system looks for it in the BIN table. The BIN table stores ranges coming from the major Card Associations: VISA (ARDEF + BIN Extract tables), (BIN), MasterCard (BIN/ICA – Record Type=0).
  - If the PAN is found in the BIN Table (i.e. it falls within the BIN\_RANGE\_LOW and Bin\_RANGE\_HIGH), then the corresponding BIN represents the Destination BIN.



Destination institution is taken from the Clearing Profile (CLEARNG\_PROFILE) table. The Institution\_id corresponding to the Card Scheme in the Card Scheme table is the Destination Institution ID. The Card Scheme (CARD\_SCHEME) table specifies a list of valid card schemes supported by the system (e.g. AMEX, Visa, MasterCard, Discover and other private label cards). The details related to the Institution ID are found in the Institution Table. This table lists all institutions taking part in our system.

### Multiple BIN Ranges

It is possible for a BIN to fall into multiple BIN ranges, that is, more than one entry is found in the MBR\_BIN or BIN tables.

In this case, the system gets the Card Scheme and the Institution ID from the Card Scheme table, as described above, for all the applicable BIN entries. Each Institution ID has a priority associated with it, as specified in the ACQ\_CS\_PRIORITY table. When an acquirer institution searches the BIN table and finds two entries with the same BIN but from two different Card Associations, the ACQ\_CS\_PRIORITY determines the priority. Priority, for a card scheme, indicates which clearing and settlement information should be followed.

The Institution ID with the highest priority is determined and this becomes the Destination Institution. The BIN range and Card Scheme associated with this institution are the destination BIN Range and Card Scheme.

1. Clearing profile retrieval - The clearing profile is obtained from the Clearing Profile (CLEARNG\_PROFILE) table which contains:
  - clearing profiles for on-us members and
  - clearing profiles for clearing to Card Associations.

The Clearing profile is obtained in the following way:

- Clearing profile of the Source Institution ID (SOURCE\_INSTITUTION\_ID) comes from the Source determination process,
- The lowest and highest BIN ranges (BIN\_RANGE\_LOW and BIN\_RANGE\_HIGH) come from the Destination determination process,
- The BIN Usage (BIN\_USAGE) corresponding to the applicable BIN range comes either from the MBR\_ISSUER\_BIN or BIN table,
- Card Scheme (CARD\_SCHEME) is determined based on the selected BIN range,
- Currency Code (CURR\_CODE) is determined based on the source\_institution,
- TID - internal transaction identifier comes from the TID table. This Table stores a set of TIDs, used in the system to identify the type of transaction,
- RID - valid values can be Entity Alias ID (ENTITY\_ALIAS\_ID) from the Member Alias (MBR\_ALIAS) table or Internal Institution ID as determined in the destination institution determination and 'EXTERNAL' in case the transaction has to be cleared to a network.



This Clearing Profile represents the enrichment for transaction routing.

- As far as the source and destination enrichment is concerned, the Entity Alias ID and the Card Scheme represent the source or destination enrichment for further processing and qualification. Entity Alias ID and the Card Scheme are determined earlier from one of the following tables, as applicable: VISA\_SPECIFIC/MC\_SPECIFIC/\_SPECIFIC.

### **Retrieval Requests, Chargebacks and Reversals**

The transaction routing and enrichment of the retrieval requests, chargebacks and chargeback reversals is performed as follows:

1. Source Determination - the source institution is determined in the following way:

- For transactions coming in a file from a Card Association, the UA provides Source Institution ID (SOURCE\_INSTITUTION\_ID), while the Card Scheme (CARD\_SCHEME) is determined by the file type. This is done on the file or batch level, so all transactions coming in the same batch, or the same file belong to the same source institution.
- For transactions that do not come from Card Associations, the PAN of the transaction is looked up in the Issuer BIN (MBR\_ISSUER\_BIN table). If it falls within the Lowest Valid BIN and Highest Valid BIN ranges (BIN\_RANGE\_LOW and BIN\_RANGE\_HIGH), this is the Source BIN. The same table provides the Card Scheme as well. The Institution\_id corresponding to the Card Scheme in the Card Scheme (CARD\_SCHEME) table is the Source Institution ID.
- If the PAN is not an element of the Issuer BIN (MBR\_ISSUER\_BIN), the Source Institution ID (SOURCE\_INSTITUTION\_ID) is determined on the basis of the Card Scheme.

2. Destination Determination involves obtaining of the applicable transaction Acquiring ID which is:

- ARN for VISA,
- Transaction Destination Institution ID (DE 093) or Receiving Institution Identification Code – RID (D100) for MasterCard IPM.

#### **Example**

If we use RID as an example, it will be looked up in the Member Alias (MBR\_ALIAS) table. If the RID is found in the Member Alias table, the Internal Institution ID corresponding to the Member Alias ID (MBR\_ALIAS\_ID) is the Receiving institution, the institution receiving the transaction from the clearing system.

If the RID is not found in the Member Alias (MBR\_ALIAS) table, the appropriate error is reported.

1. The Clearing profile attributes are obtained from the Clearing Profile (CLEARING\_PROFILE) table in the following way:
  - Clearing profile corresponding to the Source Institution ID (SOURCE\_INSTITUTION\_ID) is taken from the Source determination,
  - The highest and lowest BIN ranges (BIN\_RANGE\_LOW and BIN\_RANGE\_HIGH) are taken from the PAN,
  - BIN Usage (BIN\_USAGE) corresponding to the applicable BIN range is taken from the MBR\_ISSUER\_BIN/BIN table, if applicable,
  - Card Scheme (CARD\_SCHEME) is determined based on the file format,
  - Currency Code (CURR\_CODE) is determined based on the transaction currency code,
  - TID - internal transaction identifier comes from the TID table. This Table stores a set of TIDs, used in the system to identify the type of transaction,
  - RID - valid values can be Entity Alias ID (ENTITY\_ALIAS\_ID) from the Member Alias (MBR\_ALIAS) table or Internal Institution ID as determined in the destination institution determination. As transaction is coming from a Card Association in our example, an error is reported if no record is found in the MBR\_ALIAS table.

The Clearing Profile (CLEARING\_PROFILE) obtained in this way represents the enrichment for transaction routing.

### **Direction Flag**

TID is identified based on the Receiving Institution ID (RECEIVING\_INST\_ID) in the Clearing Profile table. Direction flag is checked in the TID table for transaction routing.

Direction flags are two-character codes with the following meaning and use:

Direction Flag	Transaction Data Elements Used for Source Determination	Transaction Data Elements Used for Destination Determination
AP	ARN	PAN
PA	PAN	ARN
FR	Forwarding Institution ID	Receiving Institution ID
RF	Receiving Institution ID	Forwarding Institution ID

Direction Flag	Transaction Data Elements Used for Source Determination	Transaction Data Elements Used for Destination Determination
FP	Forwarding Institution ID	PAN
PE	PAN and BIN Usage	Acquiring ID or Receiving ICA or Trans Dest Inst ID or Receiving Inst ID
CE	Control Point of Card Association /Central Point of Card Association	Destination BIN or Receiving ICA or Trans Dest Inst ID or Receiving Inst ID

Direction Flags are assigned to each TID to determine source and destination institution of a transaction.

Domain	Scope	Class	Code	Subtype	Description	Direction Flag
01	1	01	002	000	Currency Updates	FR
01	01	03	005	000	All Presentments and their Reversals	AP
01	01	03	010	000	All Fees and Fund Disbursements and their Reversals	FR
01	01	03	015	000	All Chargebacks and their Reversals	PA
01	01	03	020	000	Retrieval Requests and Reversals	PA
01	01	03	025	000	Retrieval Request Responses and their Reversals	AP
01	01	03	026	101	Reward Requests	AP
01	01	03	026	102	Reward Request Reversals	PA
01	01	03	050	000	Administrative (Text) Messages	FR
01	01	05	001	000	POS Data Capture Transactions	FP
01	01	06	001	000	Visa Fraud Advice	FR
01	01	10	001	000	MasterCard Settlement Records	FR
01	01	10	002	000	Visa Settlement Records	FR
01	01	10	003	000	Amex ACK Records	FR

Domain	Scope	Class	Code	Subtype	Description	Direction Flag
01	01	10	004	000	Diners Settlement Records	FR
01	01	23	005	000	All Returned Presentments and their Reversals	PA
01	01	23	010	000	All Returned Fees and Fund Disbursements and their Reversals	RF
01	01	23	015	000	All Returned Chargebacks and their Reversals	AP
01	01	23	020	000	Returned Retrieval Requests and their Reversals	AP
01	01	23	025	000	Returned Retrieval Request Responses (confirmation/fulfillment) and their Reversals	PA
01	01	26	001	000	Returned Visa Fraud Advice	FR
01	01	33	005	000	Reclassified Presentments & their Reversals	PA
01	01	33	020	000	Reclassified Retrieval Requests and their Reversals	AP
01	01	33	025	000	Reclassified Retrieval Request Responses – confirmation /fulfillment and their reversals	PA
01	01	13	005	000	All Rejected transactions	CE
01	01	23	005	000	All Returned transactions	CE

### Collection Only Transaction

All transactions which are not settled with the Card Association but still required to be sent to Card Association are termed as collection only transaction. With the existing adapter for export, the collection only transaction can be exported by using parameter 'db.collection\_only 1' in the task command param. The collection-only transactions are grouped into a separate file to be sent to the Card Association.



### MasterCard Collection Only

New configuration files are created for the MasterCard collection only transaction export - ipmclearing\_collection.cfg, export\_collection.cfg, export\_collection.loc.

A new parameter is defined in export\_collection.loc, db.collection\_only 1/0. If the performance version is used, the new istparam.cfg should be configured based on istparam.cfg.clearing.

### Visa Collection-Only

A new adapter ua\_base2\_export export\_collection.cfg ~base2 is configured to export the collection-only base2 file. The collection-only transactions with position 161- 161 = "C" are exported accordingly. This collection-only data file is different from the normal base2 file.

After the running the collection-only export successfully, the cutoff\_batch.collect\_status is setup as "E".

#### NOTE:

The collection-only transactions are identified in the base2 UA export as the MasterCard collection-only transactions are extracted in the IPM UA export (ua\_ipm\_export export\_collection.cfg ~ipmclear).

#### Example:

```
ua_ipm_export export_collection.cfg ~ipmclear
```

TO run the export via scheduler or GUI, a new entry should be entered into inst\_file\_type, task\_cmd\_list and task tables. The inst\_file\_type.file\_type = '52' and inst\_file\_type.ua\_main\_cfg = <directory>/export\_collection.cfg. The task\_cmd\_list.cmd\_name='Export IPM COLLECTION'. The task\_cmd\_list.cmd\_param=' -I<Destination Institution ID> -CD<Export Date YYYYMMDD>'. The "Destination Institution ID" = 05 as default for MasterCard.

## Merchant Enrichment

Merchant Enrichment process supplies outgoing transactions with merchant information required for the outgoing clearing. At this point, Merchant Enrichment is used only on the transactions incoming from the Merchant System, POS Service Providers, or Merchant Data Capture Systems. See flow 7 of the ["Transaction Routing" on page 27](#).

IST/Clearing provides the following levels of enrichment depending on the data availability from different sources of merchant transactions:

- Full Enrichment - IST/Clearing database is used for all merchant data. In this case, no matter if the transaction came with or without any merchant information, the DB content will override the information coming from the transaction;



- Enrichment for Missing Information - IST/Clearing only enriches data missing from the transaction;
- No Enrichment - IST/Clearing does not perform any enrichment. This option optimizes processing for transaction sources that do not require any enrichment.

These options are set up as three different flags based on the source file.

The following Merchant Information is enriched by IST/Clearing:

- Standard Merchant Description (e.g. DBA Name, City, State, etc.)
- Corporate/Purchasing specific Merchant Description (e.g. Merchant Tax ID, Alternate Tax ID);
- Visa MPS Specific—TC50 Merchant Registration (e.g. MPS Registration Number, Ownership Change Date, Out of Business Date);
- Merchant Numbers (e.g. Amex Establishment Number, CDC Service Establishment Number);
- Additional registration flags or indicators: Program Registration Information, Merchant Volume Indicator.

Merchant Information is set up in the following forms:

- Acquiring Entity - Standard Description, Corporate/Purchasing Description, Registration flags;
- Alternate Merchant ID - merchant numbers;
- Allowance - MCC information;
- Acquiring Entity Contact - MPS owner information;
- Acquiring Entity Address - address and phone information.

## Transaction Validation and Editing

Validation and editing of transactions that come into the IST/Clearing system is performed throughout the clearing process.

Transactions come for validation one by one:

- File headers and trailers,
- Batch headers and trailers,
- Financial transaction with addenda,
- Non-financial transactions.

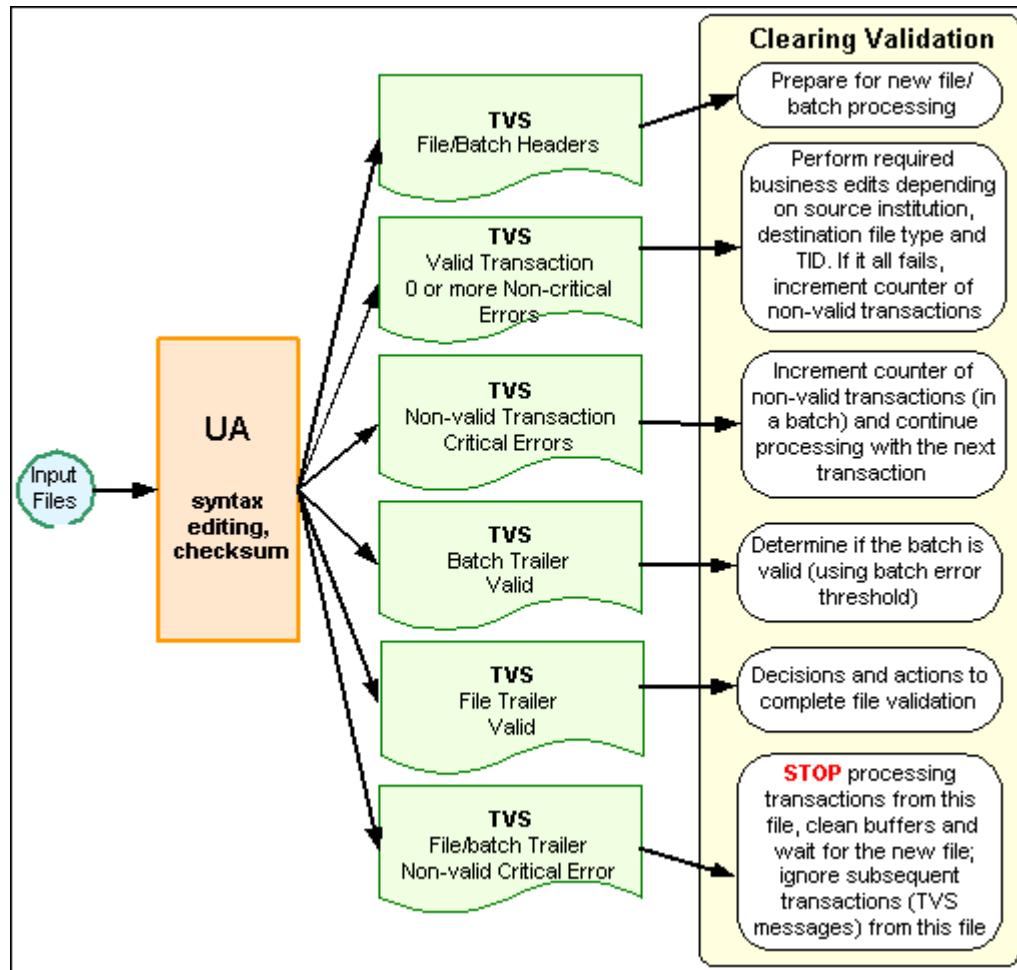


Figure 4 Transaction Validation Workflow

The workflow of the validation process is the following:

1. The content of the file or batch header is used for determining the source institution, as well as to get client defined error thresholds for the particular file.

2. Transactions from each batch are validated, one by one:
  - a. Each transaction is enriched with source and destination BIN information;
  - b. Required business edits are performed depending on source institution, destination file type and TID;
  - c. Transaction can be valid even if it contains one or more non-critical errors. However, if the transaction fails validation, a rejection code is assigned to it, and the counter of non valid transaction within the batch is increased.
  - d. The processing continues with the next transaction from the batch until the batch trailer is reached.
3. Once the batch trailer is reached, the batch error threshold is used to determine if the batch is valid. If the number of non-valid transactions is greater than the batch error threshold, the batch is declared a non-valid batch, and the counter of non-valid batches is increased. If there are no critical errors, the file processing is continued with the next batch.
4. If the file trailer is reached and the number of non-valid batches is greater than the file error threshold, the file is declared as a non-valid file and the whole file is suspended. Otherwise,
  - All non-valid batches are suspended,
  - All non-valid transactions from valid batches are suspended while all good transactions are passed through,
  - New records are inserted in the file and batch log tables in the database.
5. If a file trailer with a critical error is received, the validation process is stopped and any further messages from this file are ignored. The error is logged in the error log indicating that the file could not be processed. The buffers are cleaned, and the system waits for the next file.

After the validation process, with its basic enrichment, is successfully completed, the transactions will be enriched with additional required elements. The workflow of the Clearing Main process is the following:

- When the Clearing Main gets a new batch to be processed, it starts by processing the first transaction from the batch;
- The transaction is enriched with the appropriate merchant data using the Merchant Interface;
- The transaction is qualified and the Acquirer Reference Number is generated;



6. The system checks if addendum records are required for this transaction. If they are required, but not present, an addendum will be generated;
  - Where appropriate, a MAS code is set for transactions using IST/Clearing fee plans obtained from the Qualification process;
  - After the transaction enrichment is completed successfully, the transaction is stored in the database, where it waits for the Export process.
7. Transaction amount and fee amount are accumulated. If we wish to have total fee amount calculated for each plan, the fee amount will be accumulated separately.
  - The process continues with the next transactions, until all the transactions from the batch, and all the batches from the file are processed.

At the end of the incoming file, the control status is changed.

### Transaction Editing Examples

The following examples illustrate how a transaction amount, and an original ticket number are validated in the Clearing process.

#### Transaction Amount Validation

For transaction amount validation, the system has to validate that the value of the member originated financial transactions must be greater than, or equal to, US \$0.05, and less than, or equal to, US \$499,999.99, or equivalent thereof in a non-US currency.

Error		Severity	Module
Code	Error Message	Level	(UA, CS)
VI0001	Transaction amount is less than US \$0.05 or greater than US \$499,999.99	S	CS

SYSTEM - The system used is validation and editing.

SYSTEM_ID	SYSTEM DESCRIPTION
Edit	Validation & Editing

ATTRIBUTE - The attribute that the system is inspecting is the transaction amount (CanonicalClearing.AmountTrans).

ATTRIBUTE	SYSTEM		ATTRIBUTE	
_ID	_ID	ATTRIBUTE_NAME	VERIFICATION	_DESC
200	EDIT	CanonicalClearing.AmountTrans	null	null



**PROGRAM** - The edit rule or program used is transaction amount validation of the VISA POS transaction.

PROGRAM SYSTEM			
_ID	_ID	PROGRAM_DESC	PROGRAM_GROUP_ID
VI0001	EDIT	Transaction amount validation	VISAPOS

**ATTRIBUTE\_VALUE** - The attribute value for the program is inspected. If the value does not fall in the range prescribed in the condition for error, the transaction is valid.

ATTRIBUTE_ID	PROGRAM_ID	SYSTEM_ID	ATTRIBUTE_VALUE
200	VI0001	EDIT	!(0.05-499999.99)

**PARAMETER** - If the value does fall within the prescribed range, the transaction is invalid and the parameter CanonicalClearing.Error Code is used to indicate the failed edit. Thus, if there is an error detected above, the “VI0001” is added to Canonical Clearing Error Code.

PARAMETER SYSTEM		PARAMETER	PARAMETER_
_ID	_NAME	VERIFICATION	DESC
300	EDIT	CanonicalClearing.ErrorCode	Transaction Validation Error Code

**PARAMETER\_VALUE** - Is actually the error code that is reported if the conditions of the edit are not satisfied.

PARAMETER_ID	PROGRAM_ID	SYSTEM_ID	PARAMETER_VALUE
300	VI0001	EDIT	VI0001

### Original Ticket Number Validation

The original ticket number has to be an actual number, and not spaces, or zeros.



Edit Rule Description	Error Code	Error Message	Severity Level	Module (UA, CS)
If (MCC=3000-3299, 4113, 4512 and merchant Country Code = US, and ACI!=N) then Original Ticket Number (Ticket ID) must be different from spaces or zeros.	VIAI01	Original Ticket Number is not valid for ACI different from N.	W	CS

**ATTRIBUTE** - The system will be inspecting a number of attributes: ticket ID, Authorization character indicator (ACI), MCC, and country code. The list of fields to be checked are:

ATTRIBUTE_ID	SYSTEM_ID	ATTRIBUTE_NAME	VERIFICATION	ATTRIBUTE_DESC
501	EDIT	CanonicalClearing.Pa ssenger Transport.TicketID	null	null
120	EDIT	CanonicalClearing.Ba sell.AuthorizationChar Ind	null	null
160	EDIT	CanonicalClearing.Me rchantCategoryCode	null	MCC
405	EDIT	CanonicalClearing.Me rchantDescription.Cou ntryCodeAlpha	null	null

**PROGRAM** - The program used is the edit that the original ticket number must be valid.

PROGRAM_ID	SYSTEM_ID	PROGRAM_DESC	PROGRAM_GROUP_ID
VI0012A	EDIT	Original ticket number must be valid	VISAPOS



ATTRIBUTE\_VLAUE - The attribute values for the program are inspected:

- If the ticket ID is zeros or spaces;
- If Authorization Character Indicator is different from “N”;
- If MCC falls in the given range;
- If the alphabetical country code is US.

The conditions are as described below:

ATTRIBUTE_ID	PROGRAM_ID	SYSTEM_ID	ATTRIBUTE_VALUE
501	VI0012A	EDIT	ZEROS, SPACES
120	VI0012A	EDIT	!N
160	VI0012A	EDIT	(3000-3299), 4112, 4512
405	VI0012A	EDIT	US_

PARAMETER - If the conditions are satisfied, an Error Code must be assigned to the transaction.

PARAMETER_ID	SYSTEM_ID	PARAMETER_NAME	VERIFICATION	PARAMETER_DESC
300	EDIT	CanonicalClearing.ErrorCode	null	Transaction Validation Error Code

PARAMETER\_VALUE - Is the actual error code that is reported if the conditions of the function are not satisfied.

PARAMETER_ID	PROGRAM_ID	SYSTEM_ID	PARAMETER_VALUE
300	VI0012A	EDIT	VIAI01



## Fee Qualification

IST/Clearing Fee Qualification provides the following functionality:

- Transaction pre-qualification enrichment (e.g. TGA, number of clearing days, etc.);
- Qualification IRF Subsystem determination; and
- Transaction IRF qualification.

IST/Clearing implements complex transaction fee qualification programs using configuration defined in the Qualification Data Model.

**NOTE:**

See IST/Clearing Administration Guide for details of the Qualification process.

## ARN Generation

ARN is generated for original transactions according to Card Association rules. The Acquirer Reference number is a 23-digit number that identifies a transaction throughout its life cycle.

ARN generation supports the formats specified by:

- Visa,
- MasterCard,
- Diners,
- American Express.
- Discover.

**NOTE:**

For Diners, value is populated when authorization is passed.

There are various rules governing the structure and content of ARN set by each of those Card Associations. The tables below present those rules per Card Association.



## Visa Rules

The structure and content of the ARN included in a BASE II Clearing Record is specified in the following table:

Field Name	Format	Description
Format Code	Number (1)	<p>The entry must be either 2 or a 7.</p> <p><i>Purchase representments:</i> (TC 05, Usage Code = 2) must contain a 7.</p> <p><i>Purchase chargebacks and reversals:</i> (TC 15, 25 and 35; Usage Code = 1 or 2) may contain either 2 or 7.</p> <p><i>Credit vouchers and cash transactions:</i> (TC 06, 07, 16, 17, 26, 27, 36, and 37; Usage Code = 1 or 2) must contain a 7.</p> <p><i>National - CPS Participating Countries:</i></p> <p><i>Original purchase transactions:</i> (TC 05, Usage Code = 1) must contain a 2 in this field.</p> <p><i>Purchase representments:</i> (TC 05, Usage Code = 2) may contain either 2 or 7.</p>
BIN	Number (6)	A valid six-digit acquiring BIN. May be an issuing BIN for cash disbursements.
Date	Number (4)	A four-digit number in the format YDDD (year and Julian day. It should be either the data capture date, or the pre-edit program run date.
Film Locator	Number (11)	This field must contain an eleven-digit number. It can not be zero filled. (TC 05, 06, and 07; Usage Code = 1).
Check Digit	Number (1)	The check digit of the preceding 22 digits.

## MasterCard Rules

The structure and content of the ARN included in MasterCard Clearing Records is specified in the following table:

Field Name	Format	Description
IST/Clearing Rate Indicator (IRI)	Number (2)	<p>The IST/Clearing Rate Indicator identifies, in combination with region and sub-region (if defined), the clearing program from which an item is presented.</p> <p>IRIs can be assigned to standard programs, but they can also be assigned to programs specific to an industry (e.g. MasterPhone telephone service).</p>
Acquirer's Bank Identification Number (BIN)	Number (5)	<p>The MasterCard BIN assigned to the acquirer. It has to be numerically filled as necessary. For example, 5217 becomes 521700 through 521799. Acquirers can use the extra padded positions as they see fit.</p> <p>The first position of the acquiring BIN overlaps with the second position of the IRI.</p>
Julian Date	Number (4)	<p>The Julian year and day when the acquirer submitted the transaction into clearing. It must be in the form YDDD.</p> <ul style="list-style-type: none"> <li>● Y - the last digit of the current year;</li> <li>● DDD - the Julian day.</li> </ul> <p>(E.g. 1 June, 2002 would be expressed as 2153)</p>
Item Sequence Number	Number (11)	<p>Values determined by the acquirer.</p> <p>The 11 positions of the ARN defined as the Item Sequence Number have a primary significance for the acquirer. Therefore, the acquirer should carefully consider the current and future requirements of the retrieval process before determining this number. The following information should be taken into account :</p> <ul style="list-style-type: none"> <li>● <b>Retrieval Format Code</b> — the use of which enables the acquirer to implement new retrieval processes and discern previous formats;</li> <li>● <b>Microfilm Date</b> — the Julian day on which the microfilmed by the acquirer or by an agent on its behalf;</li> <li>● <b>Document Location</b> — a numeric value assigned by the acquirer denoting the storage location of the original document (e.g. bank facility);</li> <li>● <b>Reel Number</b> — a numeric value representing the reel or canister number where the item is located (e.g. sales, payments, adjustments, transferred items)</li> <li>● <b>Item Number</b> — a numeric value representing the film frame number assigned to the individual item.</li> </ul>
Check Digit	Number (1)	The value determined by using the Luhn Formula Modulus 10 algorithm on the previous 22 positions of the reference number.



## Europay Rules

The structure and content of the ARN included in Europay Clearing Records is specified in the following table:

Field Name	Format	Description
Interchange Rate Indicator (IRI)	Number (2)	<b>Intra-European POS Program:</b> 75, 85 = Base; 84, 88 = Enhanced electronic; 53 = Chip partial grade; 50 = Chip full grade; 20 = Consumer Payment Transaction; 21 = Corporate Payment Transaction. <b>Inter-Regional POS Program (INET):</b> 72, 82 = MasterPhone; 73, 83 = International Electronic Interchange (IEI); 75, 85 = International Standard Interchange (ISI); 95 = Electronic commerce; 61 = Corporate; 62 = Corporate, Large Ticket; 63 = Corporate Purchasing; 67 = Corporate Purchasing, Data Rate II 20 = Consumer Payment Transaction; 21 = Corporate Payment Transaction. <b>Intra-European ATM Program:</b> 75, 85, 88 = Magnetic Stripe - only ATM; 51 = Combined Magnetic stripe/chip ATM; 52 = ATM late presentment (Applied automatically by ECCSS, and not to be used by members). <b>Inter-Regional ATM Program:</b> 51, 52, 75, 85, 88. <b>Manual Cash Advance Program:</b> 75, 85, 88.
Acquirer BIN	Number (5)	The acquirer BIN, excluding the first digit.
Julian Date	Number (4)	The date in the format YDDD.
Sequence Number	Number (11)	The sequence number assigned by the acquirer to the financial transaction.
Check Digit	Number (1)	The value determined by using the Luhn Formula Modulus 10 algorithm on the previous 22 positions of the reference number.



For EDCM and ECHA processing classes, the structure is:

Field Name	Format	Description
Acquirer ID	Number (22)	A unique identification code supplied by the acquirer
Check Digit	Number (1)	The value determined by using the Luhn Formula Modulus 10 algorithm on the previous 22 positions of the reference number.

The Value Constraints are as follows:

Message Type	Value Constraint(s)
Presentment / 1240	The acquirer reference number must be unique. May be zero filled in incoming messages for EDCM and ECHA processing classes if presentment was submitted in version 1 format.
Reversal / 1440	The same value as in related Presentment / 1240
Chargeback/1442	The same value as in related Presentment / 1240
Second Presentment/ 1240	The same value as in related Presentment / 1240
Retrieval Request/1604, 1614	The same value as in related Presentment / 1240

## Network Processing Dates

Transaction clearing date and time are determined based upon clearing type and corresponding calendars of business days, clearing days and clearing cut-off time or times as defined in the GUI Calendar Setup. For general details on how to set up calendars, see IST/Clearing Administration Guide. [See “Calendar Setup” on page 52](#) for details and examples on how to set up calendars for processing days.

The Import file window is relevant to the relationship between clearing and delivery date, as shown in the figures below:

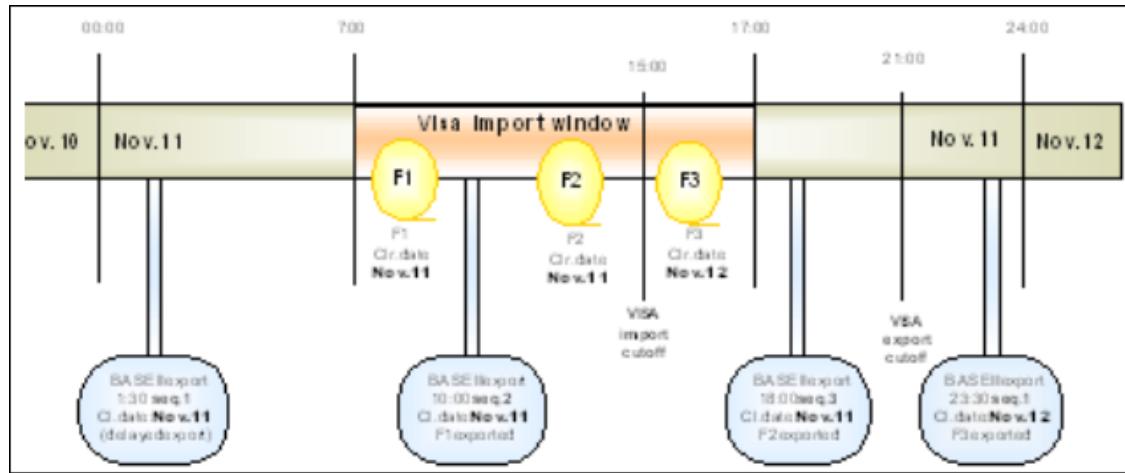


Figure 5 Non-deferred Transaction Clearing Dates

The figure above is an illustration of a non-deferred clearing process for VISA transactions within one day (11 November). The import window for VISA transactions is from 7:00 a.m. to 5:00 p.m. The import cutoff time is 3:00 p.m. On the given day, two inbound files (F1, and F2) were imported before the import cutoff time, while another one (F3) was imported after the cutoff time.

VISA export cutoff time is 9:00 p.m. Four BASE II export processes were scheduled on the given date. Three of those took place before the export cutoff time (1:30 a.m., 10:00 a.m., and 6:00 p.m.) and they all had 11 November as the Clearing date. The first process was the export delayed from the previous day, while the other two contained cleared transactions from the Import File 1, and 2 respectively. The file which arrived after the Import Cutoff time has 12 November as the Clearing date, and it was exported 11:30 p.m.

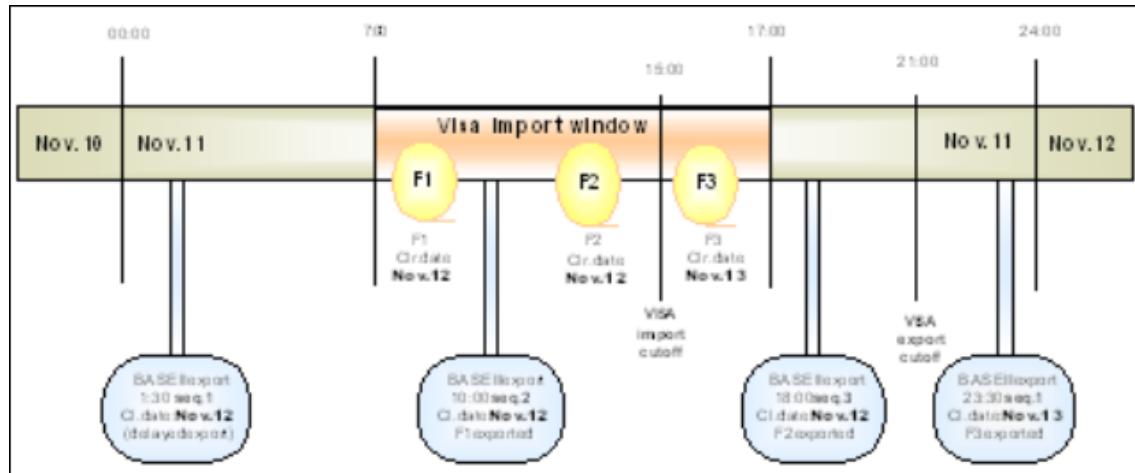


Figure 6 Deferred Transaction Clearing Dates

In case of deferred processing (defer days = 1), the dates will be deferred for one day. Thus, the contents of the files (F1 and F2) received before the cutoff time will have 12 November as the clearing date. The contents of the third file (F3), received after the cutoff time, will have 13 November as the cutoff date.

### Calendar Setup

In order to calculate the number of clearing days between transaction date and clearing date, you have to perform the following steps:

1. Determine the Network Processing Date (called Clearing Date in IST/Clearing)
2. Calculate the number of clearing days.

## Determining Clearing Date

Clearing Date ([See "CPD" on page 7](#)) is the date on which it is assumed a network will receive and process an IST/Clearing transaction. This date is determined based on the date and time when IST/Clearing started processing the file. All transactions from the same file have the same Clearing Date.

While determining the Clearing date, the number of “defer days” have to be taken into account, and it is obtained from the Business Days (BUSINESS\_DAYS) table. The “defer days” parameter is usually set to “0” (no deferred processing), but in some special occasions it can be set to 1 or 2 (defer processing for one or 2 days respectively). If the parameter is not set, the default value is “0”.

If the number of “defer days” is set to “0”, the Clearing Date will be:

- the same date - if today is the destination institution business day, and the system time is before the cutoff time specified for this date;
- next business day - if the system time is after the cutoff time, or today is a holiday (or some other non-working day, as defined in the institution calendar).

If the number of “defer days” is greater than “0”, the calculation above is adjusted by the defined number of business days. For example, if the number of “defer days” is “1”, the Clearing Date will be:

- next business day - if the system time (when IST/Clearing started processing the file) is before the cutoff time specified for this date;
- the business day after the next business day - if the system time is after the cutoff time, or the next business day is a holiday (or some other non-working day, as defined in the institution calendar).

## Calculating Number of Clearing Days

In calculating a number of Clearing Days for an institution within a period of time, the following is taken into account:

- Transaction date is always excluded from the calculation, and
- Clearing Date is always a working business day.

The formula for the calculation will look as follows:

$$\begin{array}{rcl}
 \text{NCD} = \text{CPD} & - & \text{TD} \\
 & - & \text{HD} \\
 & - & \text{NBD} \\
 & - & \text{ENWD} \\
 & + & \text{EWD} \\
 & - & 1
 \end{array}$$

That is, the number of Clearing Days (NCD) **equals** the Clearing Date (CPD) **minus**:

- Transaction date (TD);
- Number of holidays in this period (HD);
- Number of Non Business Days (NBD);
- Number of exception non-working days (ENWD);

**plus:**

- Number of exception working days (EWD),

**minus:**

- Exclude CPD from No of Clearing Days Calculation.

### Calendar Setup Example

The following is an example of how to set up Calendar related tables to take into account Clearing Dates:

#### Institution Calendar table (INST\_CALENDAR)

Institution ID	Usage	Calendar Activity ID	Calendar ID
04	CLEARING	INST-DEFAULT	1
04	CLEARING	CLEARING-DAYS	2
04	CLEARING	DELIVERY-DAYS	E
04	CLEARING	CLR-INT	2
04	CLEARING	CLR-DOMESTIC	1

#### Calendar table (CALENDAR)

Calendar ID	Business Day Key	Holiday Key	Exception Day Key	Description
1	1	1	1	VISA Calendar
2	2	1	1	VISA Clearing Days
3	3	1	1	VISA Delivery Days



### Business Day table (BUSINESS\_DAY)

Business Day	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUN Cutoff Time	MON Cutoff Time	TUE Cutoff Time	WED Cutoff Time	THU Cutoff Time	FRI Cutoff Time	SAT Cutoff	Week Start Day	Defer Days
1	N	Y	Y	Y	Y	Y	N	18:00	18:00	18:00	18:00	18:00	18:00		1	0
2	N	Y	Y	Y	Y	Y	N	16:00	16:00	16:00	16:00	16:00	16:00		1	0
3	N	Y	Y	Y	Y	Y	N	17:00	17:00	17:00	17:00	17:00	17:00		1	0

### Holiday List table (HOLIDAY\_LIST)

Holiday Key	Holiday Date	Holiday Description
1	1/1/2003	New Year's Day
1	3/29/2003	Good Friday
1	9/1/2003	Labour Day
1	7/1/2003	Canada Day
1	10/13/2003	Thanksgiving Day
1	12/25/3003	Boxing Day
1	12/25/2003	Christmas Day

### Exception Day List table (EXCEPTION\_DAY\_LIST)

Exception Day Key	Exception Date	Run Indicator	Exception Day Description
1	1/1/1980	N	Determine if CPD should be included to the calculation of the number of clearing days.

### Exception Day List table (EXCEPTION\_DAY\_LIST)

Exception Day Key	Exception Date	Run Indicator	Exception Day Description
1	12/25/2003	Y	Run on Christmas holiday due to huge overload.
1	12/23/2003	Y	Run on Boxing day holiday due to huge overload.
1	12/31/2003	N	Do not run on this day due to providing extra holiday.

### Clearing Date Determination in the Import Process

- Clearing Date has to be determined for each transaction based on the:
- Destination institution,
- Usage, which should be “CLEARING”,
- Calendar activity ID “CLEARING-DAYS”, and
- Date and time when IST/Clearing started processing the file.

The first three parameters determine the calendar to be used. That is why it is of utmost importance for the client to set up all calendars correctly.

Clearing Date is determined after the transaction is enriched with the destination determination, since destination institution is necessary for selecting the proper calendar to be used. It is saved in the Cutoff Batch (CUTOFF\_BATCH) table to enable the Export process create outgoing files based on the clearing date.

### Scheduling the Export Process

There are two ways to invoke the Export process:

- With the date parameter - the Export process converts the processing date to a five-digit Julian date, and uses it to select data from the Cutoff Batch (CUTOFF\_BATCH) table;
- Without the date parameter - clearing date is determined based on the system date/time when the export started. This date is determined by the Scheduler process. The calendar to use is determined based on:
  - Destination institution;
  - Usage, which should be “CLEARING”,
  - Calendar activity ID “DELIVERY-DAYS”, and
  - Date and time when the export process started (system date/time).

This date is converted to the five-digit Julian date and passed to the appropriate UA where it is used to populate the appropriate date field in the File Header.



## System Balancing

IST/Clearing performs internal system balancing of all:

- Incoming files containing transactions for clearing, and
- Outgoing clearing files.

The system automatically runs System Balancing for the incoming files while the user schedules the Outgoing Balancing. However, IST/Clearing allows the user to run System Balancing at any time by the help of a system balancing utility (**sysbal\_util**). As a result of running the process, the utility returns a value indicating if the system is balanced or not, and the processing information is logged in **sysbal.debug**.

To invoke the incoming System Balancing, use the command:

```
sysbal -Innn
```

where “nnn” is the incoming file number.

To invoke the outgoing System Balancing, use the command:

```
sysbal -Onnn
```

where “nnn” is the outgoing file number.

[See “Import System Balancing Log” on page 289](#) for details on how to monitor the System Balancing process.

### Incoming Balancing

For incoming files, statistical information is logged in the IN\_FILE\_LOG, and IN\_BATCH\_LOG. All totals are kept in these tables by incoming file number and incoming batch number. Once the file is processed completely, the transactions are logged in the CUTOFF\_BATCH table. The System Balancing determines if the totals logged in the IN\_FILE\_LOG and IN\_BATCH\_LOG tables are balanced with the totals in the CUTOFF\_BATCH table.

Import balancing is performed on the file level.

The totals kept in the IN\_BATCH\_LOG are:

- Hash amount of the batch,
- Number of transactions within the batch,
- Hash amount of the processed transactions,
- Number of processed transactions,
- Hash amount of transactions with dual destination,
- Number of transactions with dual destination,
- Number of reconciliation messages,
- Number of dual reconciliation messages,
- Number of administration messages,
- Hash amount of suspended transactions,



- Number of suspended transactions,
- Suspension reason messages.

The totals kept in the CUTOFF\_BATCH table are:

- The number of cutoff transactions,
- The amount of cutoff transactions.

The incoming balancing is performed based on the following rules:

- IN\_FILE\_LOG and IN\_BATCH\_LOG tables are jointed by the incoming file number;
- Records are selected by the incoming file number in these two tables, as well as the CUTOFF\_BATCH table;
- For each pair of incoming file number and incoming batch number logged in the IN\_BATCH\_LOG table, corresponding records are found in the CUTOFF\_BATCH table;
- The number of processed transaction, minus the number of suspended transactions plus the number of dual destination transactions should correspond to the cutoff transaction number;
- The hash amount of processed transactions minus the hash amount of suspended transactions plus the hash amount of dual destination transactions should correspond to the cutoff amount sum.

## Outgoing Balancing

For outgoing files, the Scheduler is run to invoke export adapters to generate clearing files. Export Adapters update the OUT\_FILE\_LOG and OUT\_BATCH\_LOG tables. The System Balancing is then run to check if the outgoing files are in balance. The totals of the outgoing log tables should be matched with the totals of the CUTOFF\_BATCH table. The summary of the process is logged in the EXPORT\_BALANCING table by institution and file type.

As one export can generate multiple files, export balancing is performed per export, not per export file.

If the totals are not balanced, notification is sent to the operator on duty, who, in turn, should contact FIS for technical support as soon as possible.

The outgoing balancing is performed based on the following rules:

- User supplies the outgoing file number,
- Records are selected by the outgoing file number in the OUT\_BATCH\_LOG table,
- Outgoing file number is used to retrieve all associated incoming file numbers from the OUT\_BATCH\_LOG table,



- All uniquely associated pairs of institution and file type are retrieved from the CUTOFF\_BATCH for the given incoming file numbers,
- For each institution/file type pair, all records are selected together with their required incoming file numbers and incoming batch numbers,
- The hash count equals the sum of the cleared count, while
- The hash amount equals the sum of the cleared amounts.
- From the CUTOFF\_BATCH, all records are selected for each institution and file type together with all their required file numbers and in batch numbers,
- The hash clearing count is larger, or equal to the cutoff count;
- The hash clearing amount is larger, or equal to the cutoff amount.
- If the hash count equals hash clearing count, and the hash amount equals hash clearing amount, the export is balanced.

## Error Handling

Errors can be encountered in two modules of the IST/Clearing subsystem:

- Import - where transactions are checked for syntax and format errors,
- Clearing - where business edits and validations are performed.

## Basic Error Terminology

The table below describes some basic terms used in error handling:

Term	Description
Critical Error	<p>The error that prevents a transaction from being processed and cleared. The transaction is labelled as <b>non-valid transaction</b>, and one of the following happens:</p> <ul style="list-style-type: none"> <li>• the transaction alone is suspended,</li> <li>• the whole batch containing the transaction is suspended, if the batch error threshold is reached;</li> <li>• the file containing the transaction is suspended, if the file error threshold is reached.</li> </ul> <p>After the first critical error in a transaction, clearing validation continues in order to find all the possible problems with the transaction.</p>
Non-critical Error	<p>The error that does not prevent processing and clearing of a transaction. It is a “warning”. The transaction is still labelled as <b>valid transaction</b>. However, if the number of non-critical errors exceeds the transaction error threshold, the transaction is labelled as a non-valid transaction, and treated as a transaction with a critical error.</p>
Valid Batch	<p>A batch with all valid transactions or a batch with a number of non-valid transactions that is below the number defined by the batch error threshold (or the percentage of non-valid transactions in the batch is below the batch error threshold).</p>
Non-valid Batch	<p>A batch where the number of non-valid transactions (errors in batch trailer) exceeds the number defined by the batch error threshold (or percent of non-valid transaction in a batch is above the batch error threshold).</p>
Error Threshold	<p>The number, or percent, of errors allowed per file, batch, or transaction. If the set number is exceeded, the transaction, batch, or file are labelled as non-valid.</p>

## Error Severity Definition

There are two fields reserved for error reporting in the TVS message:

- Critical Error Flag - denotes the total number of critical errors in a transaction. A value greater than “0” in the batch/file trailer record determines whether the batch/file contains critical errors. If yes, the whole batch/file is rejected.
- Number of Non-Critical Errors - indicates the total number of non-critical errors in the transaction.

Problem	Type of Error	Error Handler Action
Card scheme, source and destination BIN determination and enrichment. Edit functions (critical)	Critical	<ul style="list-style-type: none"> <li>• Mark the transaction as non valid;</li> <li>• Set the appropriate error code;</li> <li>• Increment the counter for critical errors (per batch);</li> <li>• Continue processing.</li> </ul>
Edit functions (non-critical)	Non-critical	<ul style="list-style-type: none"> <li>• Increment counter for non-critical errors; the starting counter value for each transaction comes from the UA in the TVS message;</li> <li>• Set the appropriate error code in the TVS message (and the counter value);</li> <li>• If the counter is above the transaction error threshold, mark the transaction as non-valid;</li> <li>• Continue processing.</li> </ul>

There are certain types of messages that do not affect the flow of the clearing process. Those are the messages that are just logged and not processed:

- Association specific file and batch headers,
- Association specific file and batch trailers,
- Various types of advice messages.

These messages are just logged into database for all files that are not rejected in the validation process.

## Error Handling in the Import Process (with UA)

In the import process, all incoming transactions are checked for:

- Syntax errors,
- Check sum errors, and
- Format errors.

The errors detected here do not have reason codes attached.

The table below lists possible errors that can appear during the Import process, and outlines the error handling actions.

Problem	Level	Type of Error	Error Handling Action
The file can not be opened, the header can not be translated	File	Critical	<ul style="list-style-type: none"> <li>● Log the file and the reason for abortion in a database file IN_FILE_CTRL;</li> <li>● No message is sent to Clearing Validation;</li> <li>● Abort further processing of the file in UA.</li> </ul>
Translation data-type problem (non-essential elements)	Field/ Transaction	Non-critical	Set null value as the content of the element; Increment counter for non-critical errors and assign the value to "Number of Non-Critical Errors" in the TVS message; Continue processing.
Translation data-type problem (PAN, transaction amount ...) TID mapping	Field/ Transaction	Critical	<ul style="list-style-type: none"> <li>● Set null value as the content of the element;</li> <li>● Mark the transaction as non valid transaction by incrementing the counter for critical errors and assigning it to Number of Critical Errors in the TVS message;</li> <li>● Continue processing.</li> </ul>
Batch check sum	Batch	Critical	<ul style="list-style-type: none"> <li>● Mark the batch (batch trailer) as non valid. (Number of Critical Errors in the Batch Trailer Canonical TVS message set to "1");</li> <li>● Send TVS and continue processing.</li> </ul>
File check sum	File	Critical	<ul style="list-style-type: none"> <li>● Mark the transaction (file trailer) as non valid transaction (Number of Critical Errors in the File Trailer Canonical TVS message set to "1");</li> <li>● Send TVS.</li> </ul>



## Error Handling in Clearing

Error thresholds can be set on every level per source institution and file type:

- Transaction
- Batch, or
- File.

Errors can be divided into:

- Non-critical errors, or warnings, and
- Critical, or severe errors.

The File Source Institution is used to determine the error thresholds for the file.

For each **transaction** to be cleared, a number of required edits must be performed. If the transaction fails the edit criteria, it is marked as non-valid and assigned the appropriate error code. Depending on the error threshold set for transactions, a transaction can be valid even if it contains one or more non-critical errors.

If the **batch trailer** is reached and the batch counter of non-valid transactions is greater than the batch error threshold, the batch is declared non-valid. This process will increment the file counter of non-valid batches.

If the **file trailer** is reached and the file counter of non-valid batches has been reached the file error threshold, the file is declared non-valid, and the whole file is suspended.

All errors, both warnings and severe errors be logged in the In File Error Log (IN\_FILE\_ERROR\_LOG).

[Error Handling in Clearing](#) table below lists possible errors that can appear during the validation process, and outlines the error handling actions.

Problem	Type of Error	Error Handling Action
Card scheme, source and destination BIN determination and enrichment	Critical	<ul style="list-style-type: none"> <li>Mark the transaction as non-valid;</li> <li>Set appropriate error code;</li> <li>Increment counter for critical errors (per batch);</li> <li>Continue processing.</li> </ul>
Edit functions (critical)		
Edit functions (non-critical)	Non-critical	<ul style="list-style-type: none"> <li>Increment counter for non-critical errors (starting counter value for each transaction comes from UA in the TVS message), as configured;</li> <li>Set appropriate error code in the TVS message (and the counter value);</li> <li>If the counter is above transaction error threshold, mark the transaction as non-valid transaction;</li> <li>Continue processing.</li> </ul>

## Rejected Transaction Handling

Transactions that Associations return to the system go into the Suspended Storage. By means of GUI, and depending on the problem, the user can do one of the following things:

- Route the rejected transaction back to the exception system;
- Edit the transaction and re-process it (send it again to the Main Clearing Process);
- Set up the missing data and re-process the rejected transaction.

[See “Re-processing” on page 67](#) for details on how transactions are re-processed.

## Suspend Processing

IST/Clearing can suspend transactions, batches, and whole files when reasons for suspension are satisfied.

### File Suspension

A file is suspended if one of the following conditions is fulfilled:

- Duplicate file - the file recognition process finds that this is a duplicate file;
- UA problem - UA detects an error while importing and sends an invalid UA exception transaction to clearing;

- File Error thresholds - file threshold is exceeded:
  - Total number of non-valid batches in a file exceeds the file error threshold, or
  - Total number of non-valid, non-batched transactions exceeds the error threshold for non-batched transactions, or
  - A file or batch trailer with a critical error is received.

If thresholds are not defined, there is zero tolerance, meaning that if one transaction is suspended, the whole file will be suspended.

When a file is suspended, the following happens:

- If the file is suspended due to an UA exception:
  - The current batch is suspended,
  - Any cutoff batch records created for the file are removed,
  - Suspend totals are updated,
  - In File Control record is updated with status “4” (rejected);
  - In File Log record is updated with status “P” (partial, incomplete).
- If the file is suspended in the clearing process due to error thresholds:
  - The remaining transactions are read until the file trailer is reached,
  - Any cutoff batch records created for the file are removed,
  - In File Control record is updated with status “4” (rejected);
  - In File Log record is updated with status “S” (suspended).

Partial processing is not performed when a file is suspended because the whole file will be re-submitted for processing through the scheduler.

## Batch Suspension

A batch is suspended under the following conditions:

- Merchant Enrichment - merchant validation at the batch level fails and the import file is the POS data capture file and the Merchant Enrichment is enabled because the merchant is not found, or it is inactive, or relevant information about merchant is missing, etc;
- Batch Error thresholds - batch threshold is exceeded and partial processing is not enabled for all destinations.

On suspending a batch, the following happens:

1. After batch threshold is exceeded, the remaining transactions are read until the batch trailer is reached; and
- If the transaction is a reconciliation message, the normal reconciliation message processing is performed. Reconciliation message transactions are not suspended even when the merchant is wrong. The only time the reconciliation message is suspended is when the destination enrichment fails. Once the batch is suspended, the reconciliation messages go to the Recon Message Log;



- Both count and amount totals are collected;
  - Regular processing of suspended transaction continues.
2. Cutoff batch records created prior to batch suspension are removed except for destinations with partial processing enabled. Only batches that are not suspended go into the Cutoff Batch;
  3. In Batch Log record is saved with suspend category, suspend code, batch totals and batch status "S" (suspended).

### **Transaction Suspension**

A transaction is suspended under the following conditions:

- UA problem - UA detects a critical error;
- Mandatory checks fail - mandatory checking is performed only for POS data capture transactions and it includes:
  - Merchant number validation - must be numeric and mustn't be zeros;
  - PAN validation - must pass Modulus10 validation;
  - Transaction amount validation - must be greater than "0";
  - Purchase Date validation - must be a valid date.
  - Error threshold - the number of allowed errors is exceeded.

### **Suspended Transaction Handling - Selective Processing**

When a transaction is suspended the following takes place:

1. If partial processing is enabled, the suspension reason is checked:
- If the suspension reason is failing a mandatory check, the transaction is not added to the cutoff batch.
- If the suspension reason is not a mandatory check, a cutoff batch is created, or the transaction is added to the cutoff batch. That means that the transaction will be exported to the destination.

On suspending a transaction, the following happens:

1. Suspend Log (SUSPEND\_LOG) record is created together with the Transaction Error Log (TRANS\_ERR\_LOG) records.
2. The transaction is saved in the In Draft Main (IN\_DRAFT\_MAIN) and related tables. The suspended transactions will have the status "S" (suspended) and origin "C" (Clearing).

### **Reconciliation Message Suspension**

Reconciliation messages are not included in the error thresholds. However, they can also be suspended if routing parameters are not set.



## Selective Suspension

Selective suspension occurs if a transaction, or a batch, has two destinations. Then, a transaction, or a batch, can be rejected for one destination and processed for the other. All error thresholds in this case are related to the first destination, while the secondary destination can be only a merchant accounting system. If the transaction is suspended for the primary destination, it can still be routed to the merchant accounting system if there are no basic errors.

## Re-processing

IST/Clearing allows re-processing of suspended transactions and batches. After a transaction, batch, or file, is suspended, the user should review the reasons for suspension and decide about the needed actions.

The user has to remove the errors that caused suspension:

- By changing configuration tables, or
- Editing (changing) the suspended transactions, etc.

Once the errors have been removed, the user has to change the status of the corrected transaction from "S" (suspended) to "R" (ready to be reprocessed). The change of status is allowed only if the batch of the given transaction is partly processed (with status "P"). Status can be changed through GUI for each transaction separately or for all transactions coming from a certain file or batch.

Re-processing:

- starts from the Suspend Log on page 95 (SUSPEND\_LOG),
- finds all transactions that are ready to be reprocessed (R), and
- gets transaction sequence number.

For re-processing, the suspend log status of transactions is changed to D.

When a batch is suspended, normally, the whole batch is re-processed. However, if a reconciliation message from the suspended batch was processed, and not suspended, it does not need to be re-processed. Its status can be checked in the Status field of the Recon Message table.

## Re-processing Files

Files can be re-processed any time after they failed. Prior to re-processing, the user has to check the error in the In File Log, or In File Control in order to determine whether to:

- Process the file again, or
- Ask the sender to send the file again.

When the file is to be re-processed, it is moved from the ..../process directory to the appropriate import directory. Once it is in the import window, it is automatically imported. Alternatively, the user can run a one time import immediately using the Task form. See IST/Clearing Administration Guide.



## Re-processing Batches of Transactions from the Suspend Log

The procedure of re-processing batches is the same as the one described above for transactions. The only differences are that the transactions to be re-processes are:

- Identified by their batch, and file numbers;
- Selected from the In Batch Log (instead of the Suspend Log).

For each In Batch Log record with status “R”:

- In File Number and In Batch Number are used as keys to select records from In Draft Main, or Recon Message.
- The rest of the procedure is the same as above.

In the Clearing process a new transaction sequence number will be assigned and, if everything is OK transaction will be saved in the Clearing Transaction Log as a new transaction.

## Re-Processing Transactions from Suspend Log

Transactions can be processed individually from the [Suspend Transaction](#). If at least one transaction is available for re-processing:

- A CCM file header is created and sent to the appropriate mailbox;
- When a new batch starts, a batch header is created and sent to the appropriate mailbox;
- When a new batch starts and the file type is POS data capture, a CCM batch header0 is created;
- At the point where the transaction belongs in the In Batch Log record, the status is updated to “D”.

For each record from Suspend log with status “R” and origin “C”:

- Message group is determined (CCM or RCM), and the appropriate configuration file is used for query and mapping;
- Transactions are read from the In Draft Main or Recon Message related tables using the transaction sequence number of the Suspend Log;
- IST/Clearing assigns the destination;
- The transaction is sent to the specified mailbox; and
- The suspend log status is updated to “D”.

When a new batch starts, a CCM Batch trailer is created and sent to the specified mailbox.



## Re-processing Example

The following example illustrated the transaction level re-processing.

If a transaction is suspended, a record is inserted in the:

- SUSPEND\_LOG table with status “S”, and
- IN\_DRAFT\_MAIN and other related tables.

The data for this example entered in the SUSPEND\_LOG table would look as follows:

TRANS_SEQ_NBR	101	102	103
IN_FILE_NBR	F1	F1	F1
IN_BATCH_NBR	B1	B2	B2
TID	010103001101	010103001101	010103001101
SUSPEND_STATUS	S	S	S
SUSPEND_ORIGIN	C	C	C

The error code will be entered in the Transaction Error Log (TRANS\_ERROR\_LOG) table:

TRANS_SEQ_NBR	101	102	103
ERR_CD	ERR01	ERR03, ERR05, ERR06	ERR_BATCH

The data entered in the IN\_DRAFT\_MAIN and related tables would be as follows:

TRANS_SEQ_NBR	101	102	103
TID	010103001101	010103001101	010103001101
IN_FILE_NBR	F1	F1	F1
IN_BATCH_NBR	B1	B2	B2
PRI_DEST_ID	~dest1	~dest1	~dest1
PRI_DEST_FILE_TYPE	NDEST1		

SEC_DEST_ID			
SEC_DEST_FILE_TYPE	null	null	null
...			

Initial status of all suspended transactions is “S” (suspended). Once the errors are removed, the operator changes the status of the transaction to “R” meaning “ready to be processed”. Status can be changed via GUI for each transaction separately or for all transactions coming from the same file or batch.

The suspended transaction processing proceeds as outlined below:

- The auto scheduler is defined to run re-processing at “x” point in time;
- Then, the process starts from the Suspended Storage and selects all transactions ready to be re-processed (status “R”);
- The transaction is successfully re-processed;
- Status of the transaction in the Suspended Storage is changed to “D” (done);
- Transaction is sent to the clearing process;
- A new transaction sequence number is assigned to the transaction in the Clearing process, and the transaction is saved in the transaction log as a new transaction;
- The old suspended transactions stay there until another process removes them from the transaction log and Suspended storage. This is important for tracing transactions back to their original inbound file.

After re-processing, the SUSPEND\_STATUS will be automatically changed to “D” by IST/Clearing:

TRANS_SEQ_NBR	101	102	103
IN_FILE_NBR	F1	F1	F1
IN_BATCH_NBR	B1	B2	B2
TID	010103001101	010103001101	010103001101
SUSPEND_STATUS	P	P	P



The IN\_DRAFT\_MAIN with old suspended transactions:

TRANS_SEQ_NBR	101	102	103
TID	010103001101	010103001101	010103001101
...			
IN_FILE_NBR	F1	F1	F1
IN_BATCH_NBR	B1	B2	B2
...			
PRI_DEST_ID	null	null	null
PRI_DEST_FILE_TYPE	null	null	null
SEC_DEST_ID	null	null	null
SEC_DEST_FILE_TYPE	null	null	null
...			

The IN\_DRAFT\_MAIN with the re-processed new transactions will look as follows:

TRANS_SEQ_NBR	321	322	323
TID	010103001101	010103001101	010103001101
...			
IN_FILE_NBR	F32	F32	F32
IN_BATCH_NBR	B1	B2	B2
...			
PRI_DEST_ID	04 (VISA)	05 (MC)	05 (MC)
PRI_DEST_FILE_TYPE	41 (BASE II)	55 (IPM)	55 (IPM)
SEC_DEST_ID	MAS01	MAS01	MAS01
SEC_DEST_FILE_TYPE	21 (MAS format)	21 (MAS format)	21 (MAS format)
...			



## File Reversing

IST/Clearing allows for instances when a file is processed, or re-processed, by mistake. In such a case, you can reverse the file by using the **delete\_file\_record.sql** script. This is an SQL\*Plus script.

**NOTE:**

The global\_seq\_ctrl.dat script has to be executed only once before using the **delete\_file\_record.sql** script for the first time.

The **delete\_file\_record.sql** script is included in the clearing\_combo package. All you have to do is the following:

1. Start the SQL\*Plus by double-clicking on the icon.
2. Log on by providing the necessary identification as required by the system (e.g. User Name, Password, Host String, etc.).
3. From the prompt, stat the script by typing, for example:  
`start c:\delete_file_record.sql`
4. The system will prompt you to  
`Enter in_file_nbr`
5. Enter the number of the file you want to reverse. The script will take care of the rest.

The script will not register if you inserted a non-existent file number, therefore, it is important to enter the correct file number.

The script will delete all rows related to the given in\_file\_number from all the related tables in the clearing database. A log will be kept in the EVENT\_LOG table.

## IST/Clearing Utilities

### Clearing Service Command Utility

IST/Clearing provides the ability to perform certain commands on-line, with the application up and running. It is done with the help of the Clearing Service Command Utility, which allows you to:

- **Start** a new process or start all available processes;
- **Query** the system to see what processes are running, or if a particular process of interest is running;
- **Reload** a table, or a list of tables;
- **Stop** a process, or stop all processes;
- Get **Help** with various commands.

The utility can be used either as a command line interface or an interactive interface.



To run it as an interactive interface, just type:

```
$ cscmd
```

To run it as a command line interface, type the whole command, for example:

```
$ cscmd help all
```

To exit, or quit, the Clearing Service Command utility just type <quit> or <exit> on the command line.

For help concerning commands type the following on the command line:

- Help - for a list of available commands;
- Help all - for a list of all available commands with a short synopsis accompanying each of them;
- Help [command name] - for a brief synopsis concerning the selected command.

### Example 1

IST/Clearing is installed with the option of running a number of consecutive processes. By default “clearing” is always running, but you can also decide to run any number of processes between CLEARING1 to CLEARING9.

Before you can start these processes, though, you have to determine the maximum number of processes allowed in \$OSITE\_ROOT/cfg/istparam.cfg.

For example, if you set **clear.max\_process** to 4, and type the command:

```
cscm>start all
```

all the four processes will be started, and the system will provide a message confirming it:

```
clearing up since Tue Apr 15 13:01:29 2003 (up 1 day)
CLEARING1 up since Tue Apr 15 13:01:29 2003 (up 1 day)
CLEARING2 up since Tue Apr 15 13:01:29 2003 (up 1 day)
CLEARING3 up since Tue Apr 15 13:01:29 2003 (up 1 day) .
```

You can, then, query the system to see if all the processes are running:

```
cscmd>query all
```

and all the four processes will be listed.

If you do not want four processes running, you can stop one of them:

```
cscmd>stop CLEARING2
```



## Example 2

You may notice that some transactions are suspended due to an incorrect configuration of the clearing profile. Instead of having to restart the whole application after correcting the error, the Clearing Service Command utility allows you to re-load one, or a list of, problem tables by typing, for example:

```
cscmd>reload alt_merchant_id
```

The selected table will be re-loaded into all the processes that are running at the moment, and the system will provide a confirmation message:

```
CLEARING1 process [ALT_MERCHANT_ID] reloaded
```

## BIN Update Utility

BIN Update utility is used for updating system BIN data with information from Card Association BIN update files. The utility can operate in one of the two ways:

- To compares the new BIN file with the previous one to get the differences, and then updates the relevant tables with new information;
- Get a new file which completely replaces the old one.

The following tables are updated using the utility:

- BIN,
- BIN\_SPECIFIC\_LINK,
- VISA\_BIN\_SPECIFIC,
- EUROPAY\_SPECIFIC,
- MC\_SPECIFIC.

## Utility Workflow

The workflow of the utility is the following:

1. Takes the transmission file names from the parameter list;
2. Checks if the files are accessible. If any of the files is not accessible, the utility quits processing;
3. Checks if the necessary database tables are accessible. If any of the tables is not accessible, the utility quits processing;
4. If the user specified two files in the parameter list, compares these files, and generates temporary files, prefixed with "bin\_update";
5. Scans the difference file (or files specified by the "-new=" parameter) to update the specified database tables.

## Prerequisites for Using the Utility

Before you can run the utility, make sure that:

- Database parameters (DATABASE GROUP) are configured in \$OSITE\_ROOT/cfg/istparam.cfg;
- Database can be connected;
- configuration files for the following database tables are present: BIN, BIN\_SPECIFIC\_LINK, VISA\_BIN\_SPECIFIC, EUROPAY\_SPECIFIC, MC\_SPECIFIC;
- **\$dbminit** command works in your environment.

**NOTE:**

If you wish to load all bin records from the transmission file, you have to clean up your BIN tables. Otherwise, you may see many “Unique Constraint” error messages.

## Using BIN Update Utility

You can get information on how to use the BIN Update utility, simply by running the utility from the command prompt without any parameters:

```
$bin_update
```

To load, or update BIN data, you have to use the following parameters:

Parameter	Description
-t=vb	Process VISA BIN file
-t=va	Process VISA ARDEF
-t=intet	Process INET MPE MasterCard BIN file
-t=e	Process Europay BIN file
-t=ipm	Process IPM MPE MasterCard BIN file
-new=	Specify BIN transmission file path
-old=	Specify the previous BIN transmission file path. <b>Note:</b> Specify only when you use the difference between two files to update BINs. Both files must present full replacements.
-A=	Specify the allowed database actions. Actions are: •I = inserts a record in the database table; •D = deletes a record from the database table; •U = updates the record in the database table. Default is “IDU”.

Parameter	Description
-U=	Need update if inserting an existing record. Valid values: <b>1</b> —yes; <b>0</b> —no. Default value is -U=1.
-R=	Specify the report file path. Default path is /tmp/bin_update.report
-E=	Specify the error log file path. Default path is /tmp/bin_update_errlog
-d=	Specify the debug level: 0—off; 1—need a debug file; 2—need to display error message 4—need to display a warning message; 8—need to display task information; 16—need to display progress information. The level values can be combined. The default level is “26” which means the following: display error messages, if there are any; display what is going on (task information); display progress information.
-P=	Specify tables allowed for update. Values are: p0—update the BIN_SPECIFIC_LINK table; p1—update the BIN table; p2—update: <ul style="list-style-type: none"> <li>● EUROPAY_SPECIFIC (if -t=e)</li> <li>● MC_SPECIFIC (if -t=ipm)</li> <li>● VISA_BIN_SPECIFIC (if -t=va/vb)</li> </ul>

See “[Examples](#) on page [77](#) for details on how to use the parameters.

After you finish running the utility, check the following files:

- report file, specified by parameter “-R=”;
- error log file, specified by parameter “-E=”.

These files will provide information on what record can not be used to update the database. Any error messages (“unique constraint”) for BIN or BIN\_SPECIFIC\_LINK should be disregarded.

If there are problems, you have to check the output screen and the following debug files located in the \$OLOGDIR/debug:

- Report file,
- Error log file, and
- Bin update file.



## File/Table Relationship

The table below shows which tables are updated from which files:

File	Updated Table
visa_bin_extract	BIN_SPECIFIC_LINK, BIN, VISA_BIN_SPECIFIC
visa_ardef	BIN
europay(bin)	BIN
europay(mbr)	BIN_SPECIFIC_LINK, EUROPAY_SPECIFIC
inet_T077(type0)	BIN_SPECIFIC_LINK, BIN
inet_T077(type1)	BIN_SPECIFIC_LINK, MC_SPECIFIC
ipm(IP0040T1)	BIN_SPECIFIC_LINK, BIN
ipm(IP0041T1)	BIN_SPECIFIC_LINK, BIN
ipm(IP0072T1)	MC_SPECIFIC

## Examples

To load VISA BIN and ardef, run the following commands:

```
$bin_update -t=vb -P=p0p1p2 -new=<yourVisaBinPath> -d=27 -  
R=$OPRODUCT_ROOT/bin_update/report.txt -E=$OPRODUCT_ROOT/bin_update/  
visa.err -A=I  
  
$bin_update -t=va -P=p1 -new=<yourVisaArdefPath> -d=27 -  
R=$OPRODUCT_ROOT/bin_update/report.txt -E=$OPRODUCT_ROOT/bin_update/  
visa.err
```

To update VISA BIN and ardef, you have to make sure you run the following three commands:

```
$bin_update -t=va -P=p1 -new=newArdefPath -old=oldArdefPath -A=D  
$bin_update -t=vb -P=p0p1p2 -new=newVisaBinExtractPath -old=oldVisaBinExtractPath  
$bin_update -t=va -P=p1 -new=newArdefPath -old=oldArdefPath -A=IU
```

To load ipm MasterCard bin data using the Full Replacement File, run the following command:

```
$bin_update -t=va -P=p1 -new=<ReplacementPath> -d=27 -R=$OPRODUCT_ROOT/  
bin_update/report.txt -E=$OPRODUCT_ROOT/bin_update/ipmReplace.err -A=I
```

To update MasterCard bin data using the ipm Daily Update File, run the following command:

```
$bin_update -t=va -P=p1 -new=<DailyUpdatePath> -d=27 -R=$OPRODUCT_ROOT/  
bin_update/report.txt -E=$OPRODUCT_ROOT/bin_update/ipmUpdate.err -A=IDU
```



## General Ledger

The General Ledger is a summary of all of the transactions that occur in a concern. It is taken directly from the general journal, where each transaction is recorded.

The Clearing General Ledger is defined at Institution level and it allows the user to setup the General Ledger based on the functionality. The elements of the General Ledger setup include:

- Chart of Accounts
- Accounting Period
- Transaction Analysis Configuration

The General Ledger System is a standard GL system for all IST products. It accepts IST/Clearing, IST/MAS and IST/AIICard transactions and performs Transaction Analysis, Accumulation, Transaction Logging and Export.

The components of General Ledger System are:

- GL Export Process
- GL Server
- GL Export File Process
- Resubmit GL Suspend Process
- GL Totaller
- GL Recovery

# 3

## Clearing Operation and Maintenance

### Security

#### Overview

IST/Clearing provides security on a number of levels, two of which are enforced via GUI:

- User authentication, and Event monitoring.

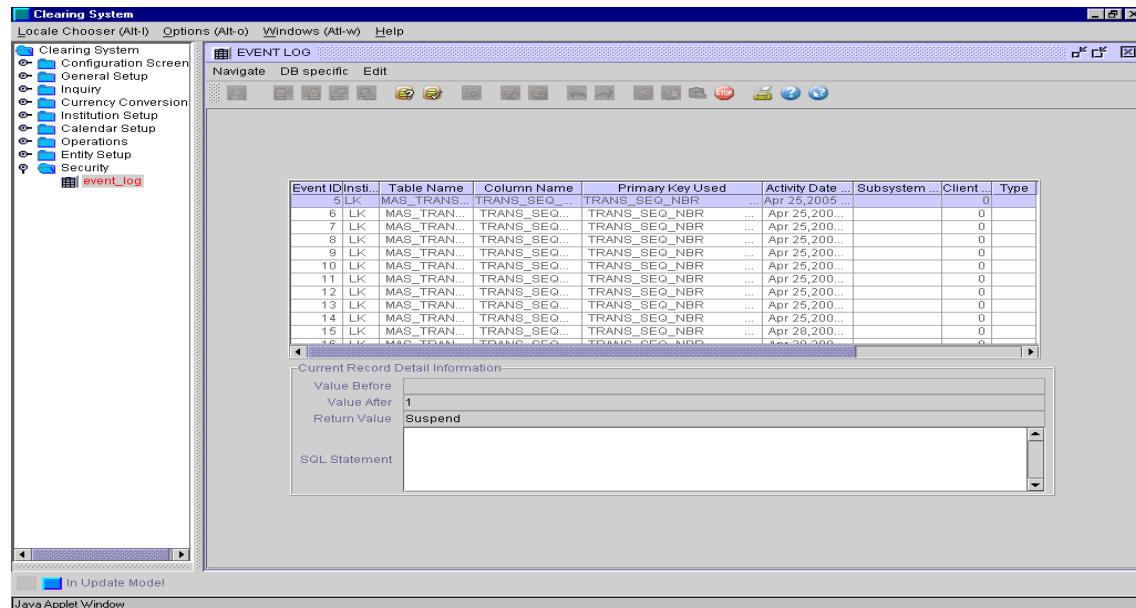


Figure 1 Security Menu

## Event Log

**Type:** Log.

**Underlying Table:** EVENT\_LOG.

The Event Log form is designed to provide a security audit of all users. It allows the user to:

- View details for all Events;
- View details for selected Events.

The underlying EVENT\_LOG form is used both:

- On the client level - any action a user initiates using GUI is recorded (insert, update, delete records).
- On the server level - every component logs information (events/errors like errors writing to the database).

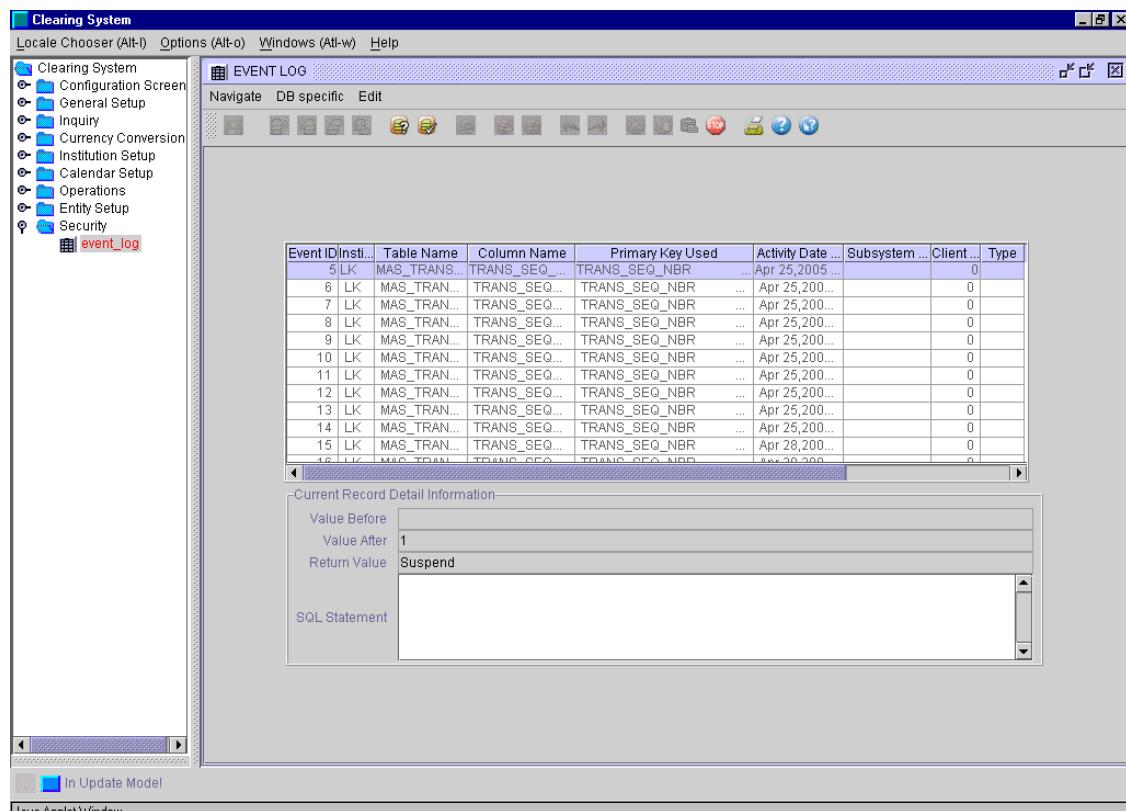


Figure 2 Event Log Form



## Access

Oasis Integrated GUI > Clearing > Security > **Event Log**. The form opens by default in [Query Mode](#).

### Event Log Form Fields

Form Field Name	Type	Len	Description
Event ID	num	12	An identifier of the event. This is a unique number automatically generated by the system.
Institution ID	char	10	An internal identification of the institution.
Table Name	char	18	The SQL name of the table user accessed.
Column Name	char	18	The SQL name of the column the user accessed.
Primary Key Used	char	128	The name and value of the primary key column, or columns, used to access the table.
Activity Date Time	date		The date and time of the activity. This value is taken from the incoming file.
Subsystem Name	char	20	The name of the sub-system.
Client ID	num	25	A unique number identifying the user.
Type	char	1	The type of the GUI screen. Valid values are: F = Form; S = Subsystem.
Current Record Detail Information			
Value Before	char	100	The original value, that is, the value before the event was applied. E.g. the value of a field in a form before it was updated.
Value After	char	100	The value after the event is applied. E.g. the value of the field in the form after the update.
Return Value	char	100	The message indicating the result after the event has been applied. E.g. "OK" indicating that the event has been successfully applied.
SQL Statement	char	512	The SQL statement used for the query.

# Inquiry Screens

## Overview

Inquiry Screens submenu provides you with options to query the system for information you need so that you can successfully monitor the IST/Clearing operation. It consists of a number of forms that display information from history tables which log information concerning IST/Clearing processing.

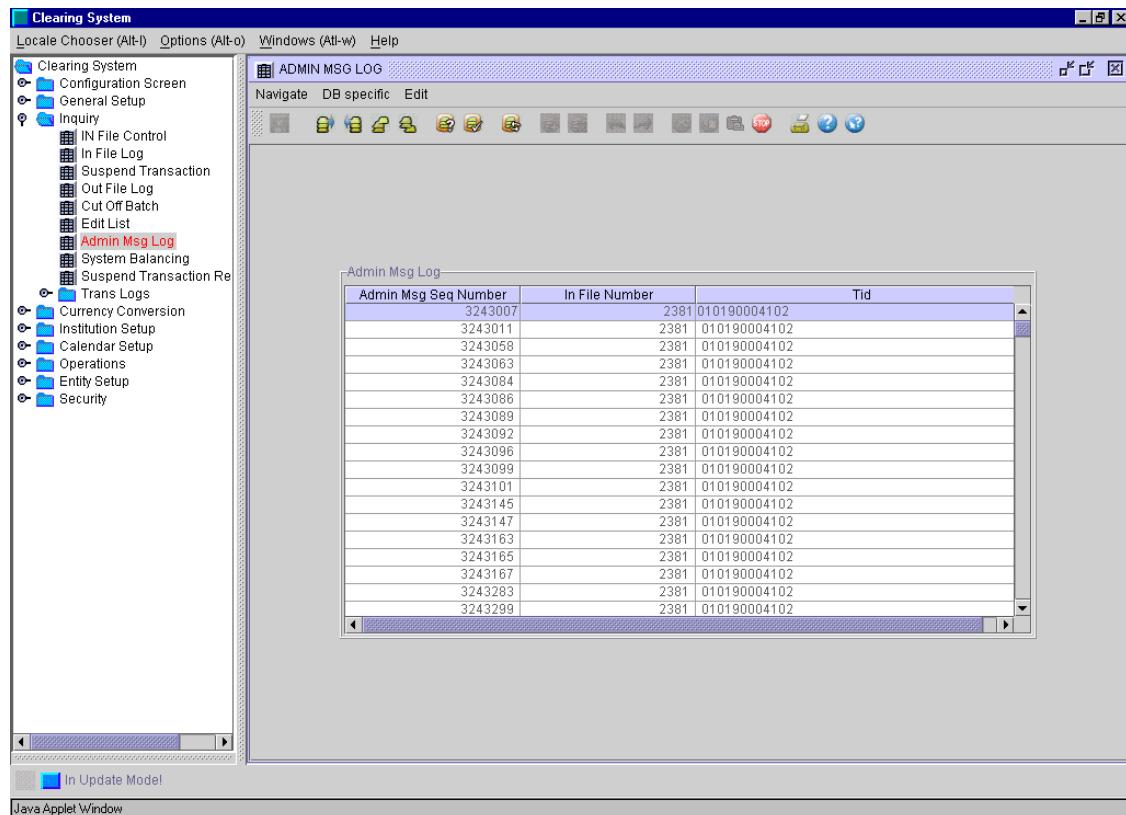


Figure 3 Inquiry Menu

**NOTE:**

Most Inquiry forms are view-only forms, and you will not be able to insert, update, delete, or modify any presented information. For those forms, the Add New Record, Delete, and Save buttons will be disabled at all times.

However, there is a number of forms which will present information for supervisor's review. If there are problems with the presented processes, the supervisor can drill down to find their reasons and causes, and try to remedy them.

## In File Control

**Type:** Inquiry.

**Underlying Table:** IN\_FILE\_CTRL.

The In File Control form below is an inquiry form displaying information from the IN\_FILE\_CTRL table. It is a history table that records external information concerning files incoming into IST/Clearing, before the file is assigned an internal IST/Clearing incoming file number.

The In File Control table is used to track status of files coming during the Import Process, as well as during the Main Clearing process. All recognized files are logged in this table. The Import process inserts a record, with the external file name and processing date and time, on every new incoming file. This record is updated with the appropriate status and error code, if applicable, during further processing.

This table also allows you to obtain a report of successfully processed files, duplicate files, and rejected files that need to be re-submitted and re-processed.

External File Name	Date	Instit.	Institution Name	Error Rea...	Error Des...	File Status	Check...	External File I
newpos.LK.3000	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000...	08/17/2005...	LK	Luottokunta			5	0	003006
newpos.LK.3000_f	08/17/2005...	LK	Luottokunta			5	0	003006

Figure 4 In File Control Form

## Access

Oasis Integrated GUI > Clearing > Inquiry > **In File Control**.

The form opens by default in the [Query Mode](#).

### In File Control Form Fields

Form Field Name	Type	Len	Description
External File Name	char	40	The external name of the file. E.g. the name as given by the association.
Date	date		The processing date and time of the file.
Institution ID	char	10	An internal ID assigned to an institution.
Institution Name	char	40	The name assigned to the institution ID in the <b>Institution</b> table.
Error Reason Code	char	6	In case of a processing error, this code is assigned to identify the reason why the processing failed.
Error Description	char	40	The name assigned to the error code in the Error Reason Code field in the <b>Error Code</b> table.
File Status	char	2	Code indicating the status of the incoming file. E.g. 0=duplicate file; 4=file rejected by import process, etc. For a full list of file status codes see Appendix B of IST/Clearing Administration Guide.
Check Sum	num	12	The check sum of the file, if the system is set to check it.
External File ID	char	50	The original external identification of the file.

## In File Log

**Type:** Inquiry.

**Underlying Table:** IN\_FILE\_LOG.

Use this history form to monitor all the files that came into the IST/Clearing system after they were assigned unique internal sequential file numbers. The external names and identifiers of the file are also kept here. This form stores all the statistical details concerning the incoming files including their original identification.

The form allows you to drill down all the necessary information on any file listed. To do that, double-click on the file, and the system opens the In Batch Log form to show all the batches of the file in question. If you click on a batch you wish to know more about, the

GUI will open the Cut Off Batch form. You can double-click on the record to see if the batch actually went out. This opens the Out Batch Log form which will show you the status of that batch.

The statistical information stored in the In File Log table is used for system balancing. See ["Incoming Balancing" on page 57.](#) for details of the process.

IN FIL...	Institut.	Institution Name	File Type	File Type Na...	Incoming Date	External...	Extern...	In File Status	End Dat
2381	LK	Luottokunta	04	NewPos DC...	17-Aug-05	003006	newp...	P	17-Aug-05
2382	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2383	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2384	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2385	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2386	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2387	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2388	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2389	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2390	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2391	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2392	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2393	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2394	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2395	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05
2396	LK	Luottokunta	04	NewPos D...	17-Aug-05	003006	new...	P	17-Aug-05

Figure 5 In File Log Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > **In File Log**

The form opens by default in the [Query Mode](#).

## In File Log Form Fields

Form Field Name	Type	Len	Description
In File Number	char	6	The number of the incoming file. This number is assigned by the system to identify the file to which the incoming transaction belongs
Institution ID	char	10	The internal identifier of the institution.
Institution Name	char	40	The name of the institution.
File Type	char	6	The code used to identify the file type. E.g. "01" for TC57, or "11" for OCS etc. For a list of file type codes see Appendix B of IST/Clearing Administration Guide.
File Type Name	char	50	The descriptive name of the file type. E.g. "Visa Clearing File".
Incoming Date	date		The date and time when the incoming file entered the system.
External File ID	char	50	The external identification of the file.
External File Name	char	40	The external name of the file. E.g. the name as given by the association.
In File Status	char	2	The code indicating the status of the incoming file. For a list of the incoming file status codes see Appendix B of IST/Clearing Administration Guide. If the file is rejected, its status will be "S".
End Date	date		The date when IST/Clearing completed processing the file.

## In Batch Log

**Type:** Inquiry.

**Underlying Table:** IN\_BATCH\_LOG.

When you double-click on the file of interest in the In File Log form, the system opens the In Batch Log form listing the statistical information on all the batches that make up the file. Use this history table to monitor the batches that make up files. If you wish to drill down even further, double click on the batch of interest and IST/Clearing will open the Cut Off Batch form to show you if the batch is ready to go out.

The table underlying this form is IN\_BATCH\_LOG and the information stored there, especially concerning the number of transactions and their amounts, is used by IST/ Clearing for system balancing. [See "System Balancing" on page 57.](#) for details of the process.

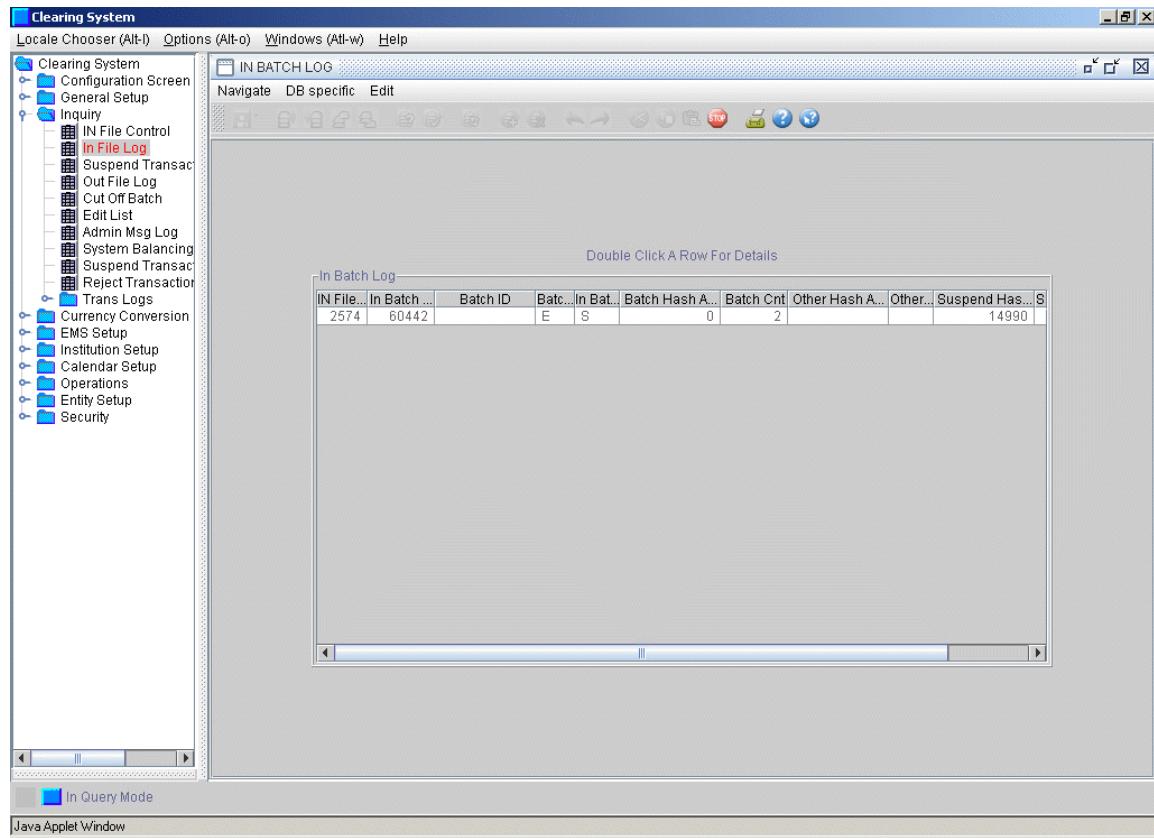


Figure 6 In Batch Log Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > In File Log > **In Batch Log**

The form opens by default in the [Query Mode](#).

### In Batch Log Form Fields

Form Field Name	Type	Len	Description
In File Number	num	9	The number of the incoming file. This number is assigned by the system to identify the file to which the incoming transaction belongs
In Batch Number	num	9	The identification number assigned to the batch when it came into the system.
Batch ID	char	25	The identifier assigned to the batch to identify the batch to which a transaction is associated.

Form Field			
Name	Type	Len	Description
Batch IE Ind	char	1	Batch internal or external indicator.
In Batch Status	char	2	Shows the status of the incoming batch. E.g. if the batch is rejected, the status will be "S" (suspended)
Batch Hash Amount	num	26,8	The total hash amount for a file is input in this field. It is used for internal system balancing.
Batch Cnt	num	6	The total number of transactions within the batch used for system balancing.
Other Hash Amount	num	26,8	Other Hash Amount
Other Cnt	num	6	Other transactions count.
Suspend Hash Amount	num	26,8	Total hash amount of all suspended transactions from the batch. Used for system balancing.
Suspend Count	num	6	Total number of suspended transactions. Used for system balancing.
Suspend Reason	char	2	Reason why the batch was suspended, if applicable.

## Out File Log

**Type:** Inquiry.

**Underlying Table:** OUT\_FILE\_LOG.

Use this form to monitor outbound files. The form contains all the necessary tracing information on the outgoing files created by the Export process. The tracing information includes the unique internally assigned Out File Number, as well as all the details concerning the destination of the file.

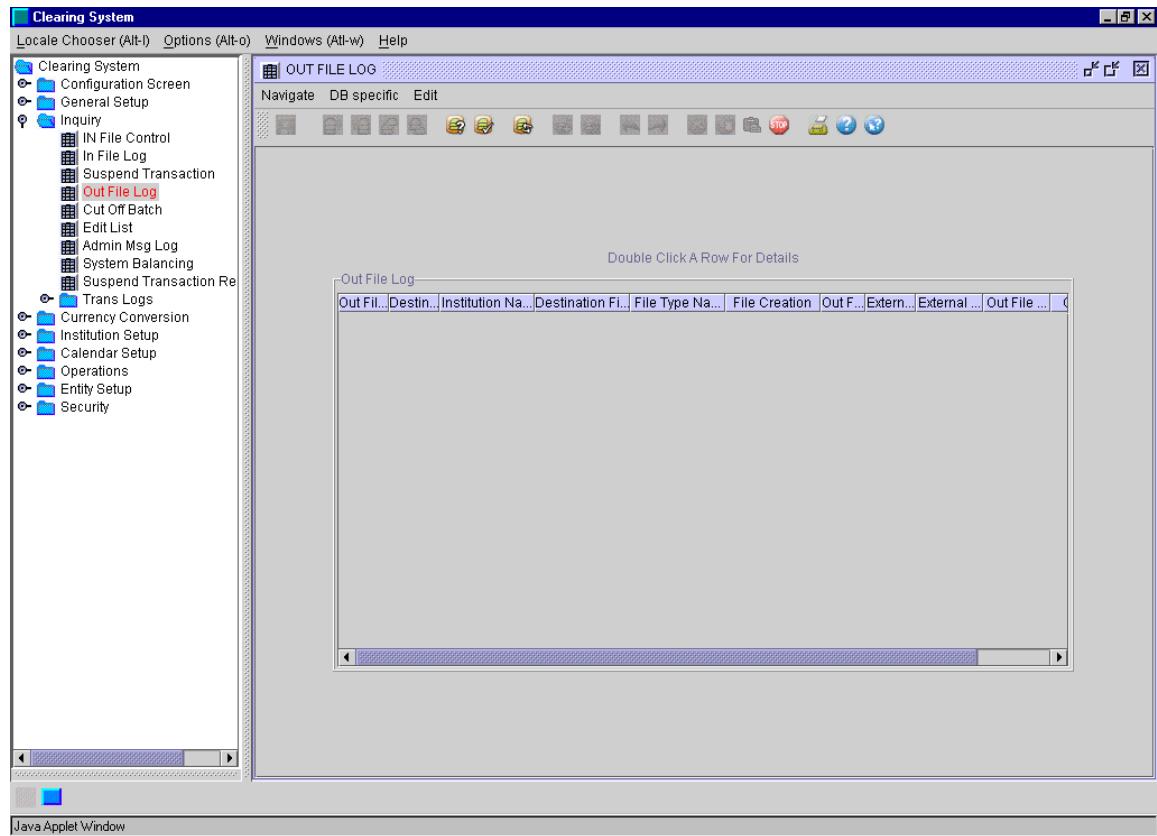


Figure 7 Out File Log Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > **Out File Log**

The form opens by default in the [Query Mode](#).

### Out File Log Form Fields

Form Field Name	Type	Len	Description
Out File Number	num	6	A sequential number assigned by the system to an outgoing file.
Destination Institution ID	char	10	The identifier of the destination institution to which the transactions from the file are routed.
Institution Name	char	40	The name of the institution.

Form Field Name	Type	Len	Description
Destination File Type	char	6	The code used to identify the destination file type. E.g. "01" for TC57, or "11" for OCS etc. For a list of file type codes see Appendix B of IST/Clearing Administration Guide.
File Type Name	char	50	The descriptive name of the file type. E.g. "Visa Clearing File".
File Creation	date		The date when the outgoing file was created.
Out File Sequence	num	2	The sequence number of the outgoing file.
External File ID	char	50	The external identification of the outgoing file
External File Name	char	40	The external name of the file. E.g. the name as given by the association.
Out File Status	char	2	The status of the outgoing file. E.g. "E"= successfully processed, or "F" = processing failed.
Clear Date J	date		Clearing date, used to populate appropriate fields in the outgoing file headers (Central Processing Date for VISA, File Reference Date for MasterCard) is logged here in the Julian date format.

## Out Batch Log

**Type:** Inquiry.

**Underlying Table:** OUT\_BATCH\_LOG.

When you double-click on the file of interest in the Out File Log form, the system opens the Out Batch Log form listing the statistical information on all the batches that make up the file. Use this history table to monitor the batches that make up outgoing files. If you wish to drill down even further, double click on the batch of interest and IST/Clearing will open the Cut Off Batch form to show you if the batch is ready to go out.

The table underlying this form is OUT\_BATCH\_LOG and the information stored there, especially concerning the number of transactions and their amounts, is used by IST/Clearing for system balancing. [See "Outgoing Balancing" on page 58.](#) for details of the process.

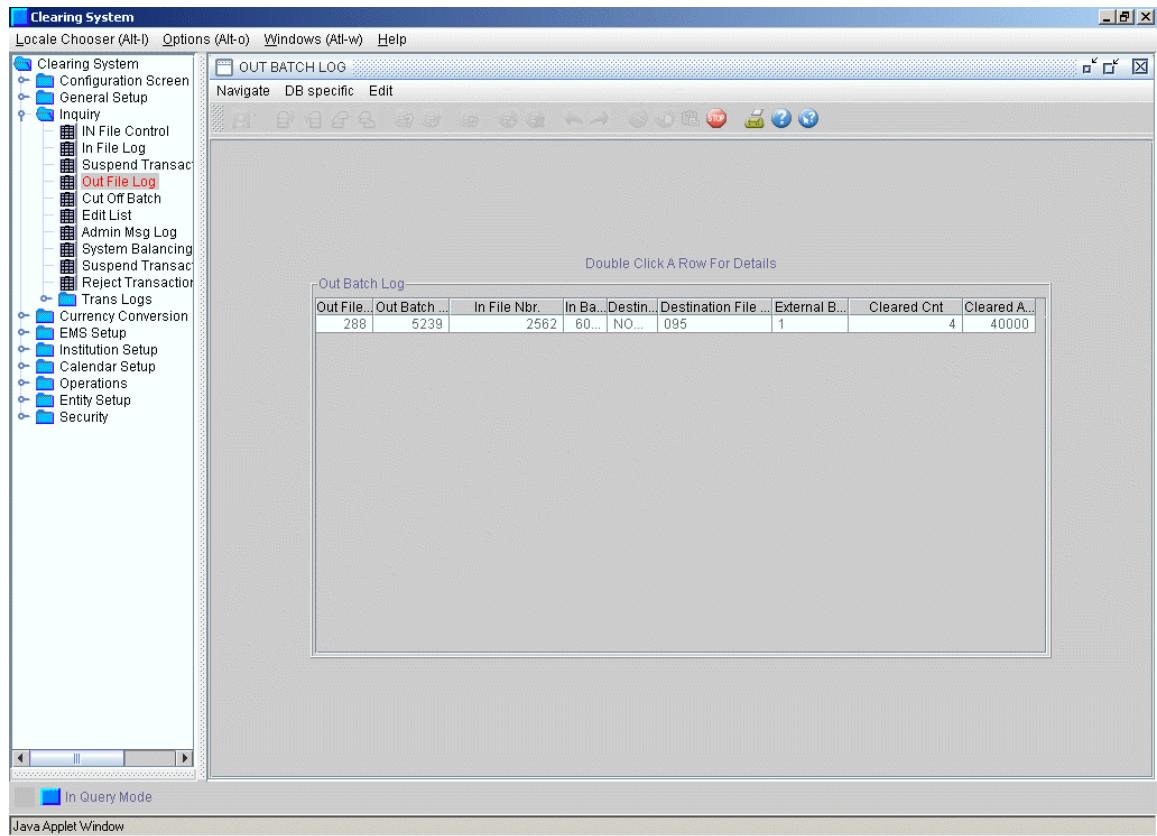


Figure 8 Out Batch Log Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Out File Log > **Out Batch Log**

The form opens by default in the [Query Mode](#).

### Out Batch Log Form Fields

Form Field Name	Type	Len	Description
Out File Number	num	6	A sequential number assigned by the system to an outgoing file.
Out Batch Nbr	num	6	The number assigned by the system to identify the outgoing batch.
In File Nbr	num	6	The number identifying the incoming file to which the batch belonged.

Form Field			
Name	Type	Len	Description
In Batch Nbr	num	6	The identification number assigned to the batch when it came into the system.
Destination Institution ID	char	10	The identifier of the institution where the batch is to be routed, the destination institution of the batch.
Destination File Type	char	6	The code used to identify the destination file type. E.g. "01" for TC57, or "11" for OCS etc. For a list of file type codes see Appendix B of IST/Clearing Administration Guide.
External Batch ID	char	25	The original identifier of this batch.
Cleared Cnt	num	6	The number of cleared transactions in this batch.
Cleared Amount	num	26.8	The amount of cleared transactions in this batch.

## Edit List

**Type:** Inquiry.

**Underlying Table:** EDIT\_LIST.

This form provides a list of all edit functions used for transaction editing.

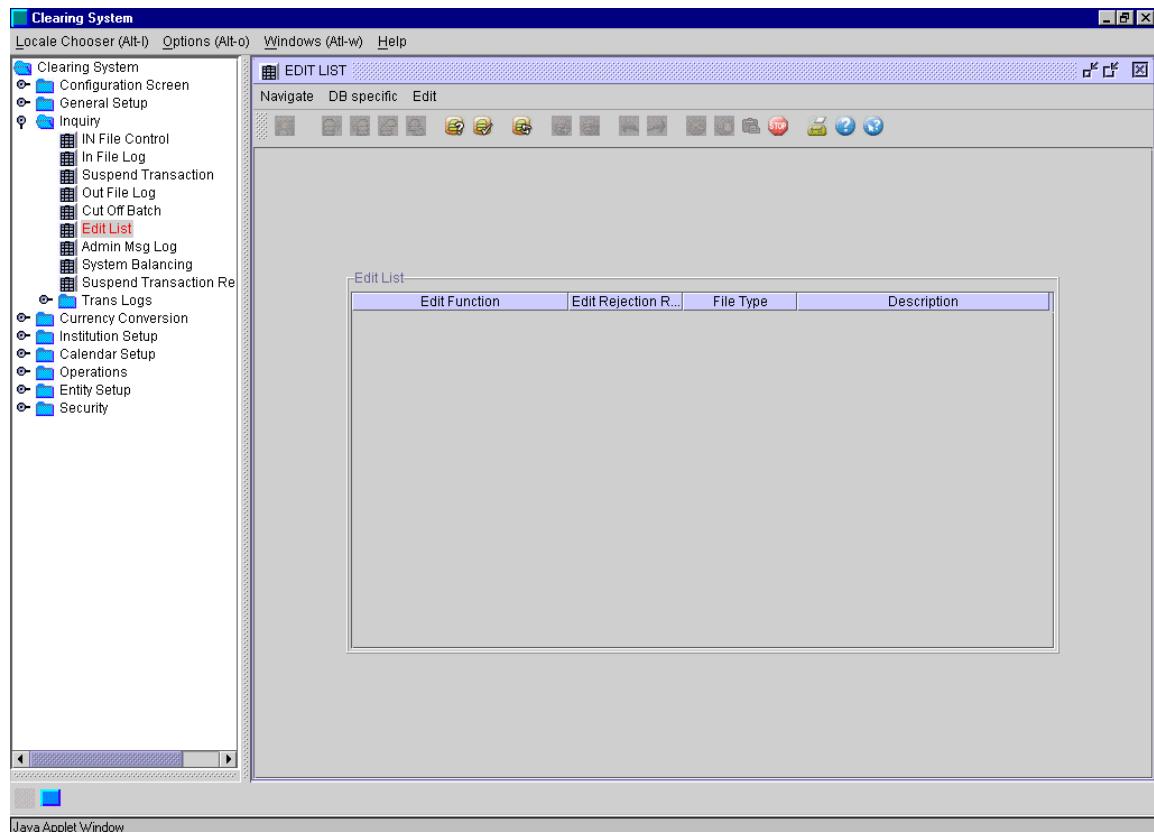


Figure 9 Edit List Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > **Edit List**

The form opens by default in the Query Mode .

## Edit ListForm Fields

Form Field Name	Type	Len	M/O	Description
Edit Function	char	32	M	Name of the edit function.
Edit Rejection Reason CD	char	6	O	The reason code describing why the edit was rejected.
File Type	char	6	O	The code used to identify the file type. E.g. "01" for TC57, or "11" for OCS etc. For a list of file type codes see Appendix B of IST/Clearing Administration Guide.
Description	char	50	O	Description of the edit function.

## Admin Message Log

**Type:** Inquiry.

**Underlying Table:** ADMIN\_MSG\_LOG.

Use this form to monitor all administrative message transactions that came into the system. The form lists all administrative messages sorted according to their sequence number together with the files they belong to, and their corresponding TIDs.

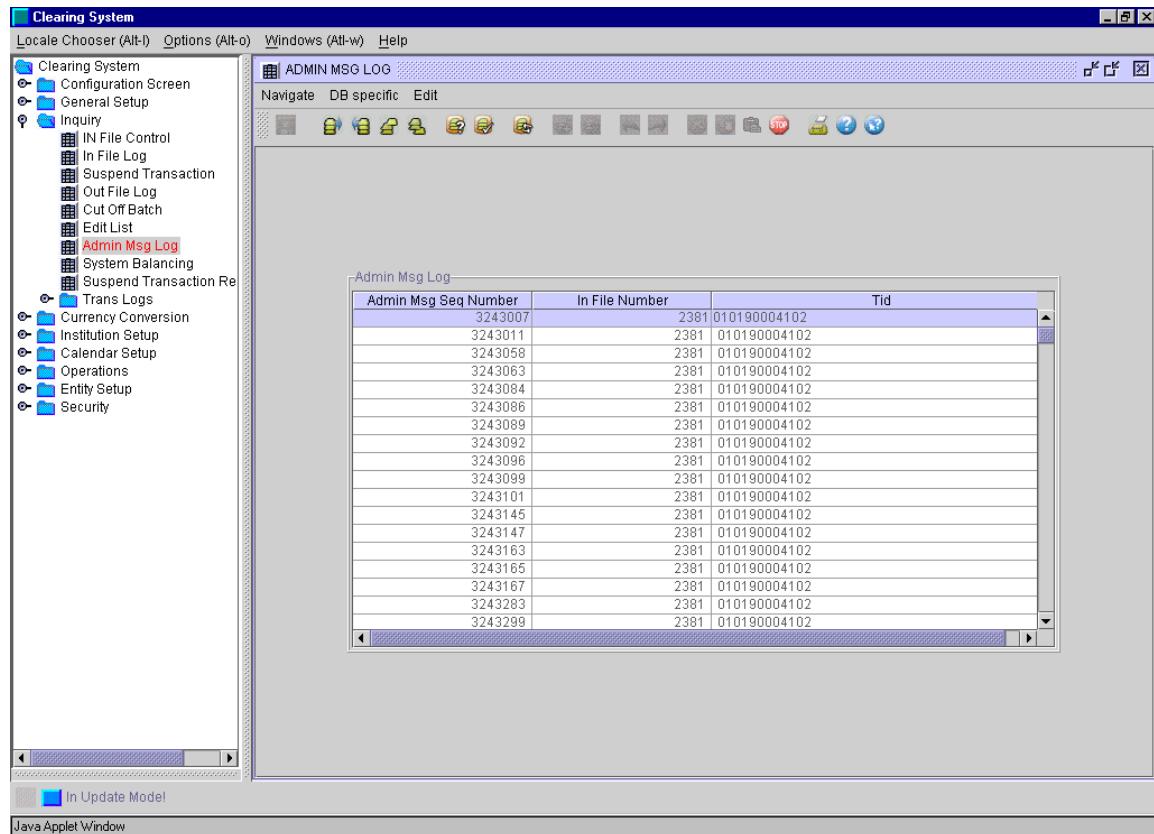


Figure 10 Admin Msg Log Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > **Admin Msg Log**

The form opens by default in the [Query Mode](#).

### Admin Msg Form Fields

Form Field			
Name	Type	Len	Description
Admin Msg Seq Number	num	12	The sequence number assigned to the administrative message by the system.

Form Field			
Name	Type	Len	Description
In File Number	num	6	The system assigned number identifying the file to which the admin message belongs.
TID	char	12	The identifier of the transaction. It is a composite of the transaction domain, transaction scope, transaction class, transaction code, and transaction subtype.
Admin Msg			The text of the administrative message.

## Transaction Inquiry

**Type:** Inquiry.

**Underlying Table:** IN\_DRAFT\_MAIN.

Use this form to monitor all the draft transactions coming into the system. The form lists all the details of a draft transaction and allows you to display any addenda records that are present.

Figure 11 Transaction Inquiry Form

### Search Criteria Section

This Search Criteria section provides a set of options, which can be used in any combination to perform a query: They are:

- Trans Seq Nbr (Transaction Sequence Number)
- TID (Transaction Identifier)
- In File Nbr (In File Number)

- In Batch Nbr (In Batch Number)
- PAN (Personal Account Number)
- Trans Date (Transaction Date)
- Trans Amount (Transaction Amount)
- Merchant Name
- Merchant ID
- Retv Ref Number (Retrieval Reference Number)
- ARN (Acquirer Reference Number)
- Pri Dest ID (Primary Destination ID)

Search Criteria	
Trans Seq Nbr	Pan
Tid	Trans Date
In File Nbr	Amount Trans
In Batch Nbr	Merchant Name
	Merchant ID
	Retv Ref Nbr
	Am
	Pri Dest Inst ID

Figure 12 Transaction Inquiry - Search Criteria section

One or more search options must first be entered before a query can be performed. This ensures that users narrow their search to obtain a finite set of values and allow for more productive use of the data retrieved. Using search criteria will improve performance significantly. For example selecting a combination of **Trans Seq Nbr** and **PAN** will be significantly faster than using TID alone.

## Addendum

This section displays a dynamic list of available addendums based on the row selected in the In Draft Main scrolling list. The list displays only those addenda with corresponding data.

Figure 13 Transaction Inquiry - Addendum

To display addenda records, select an available addendum type from the drop-down-list and click the **Addendum** button.

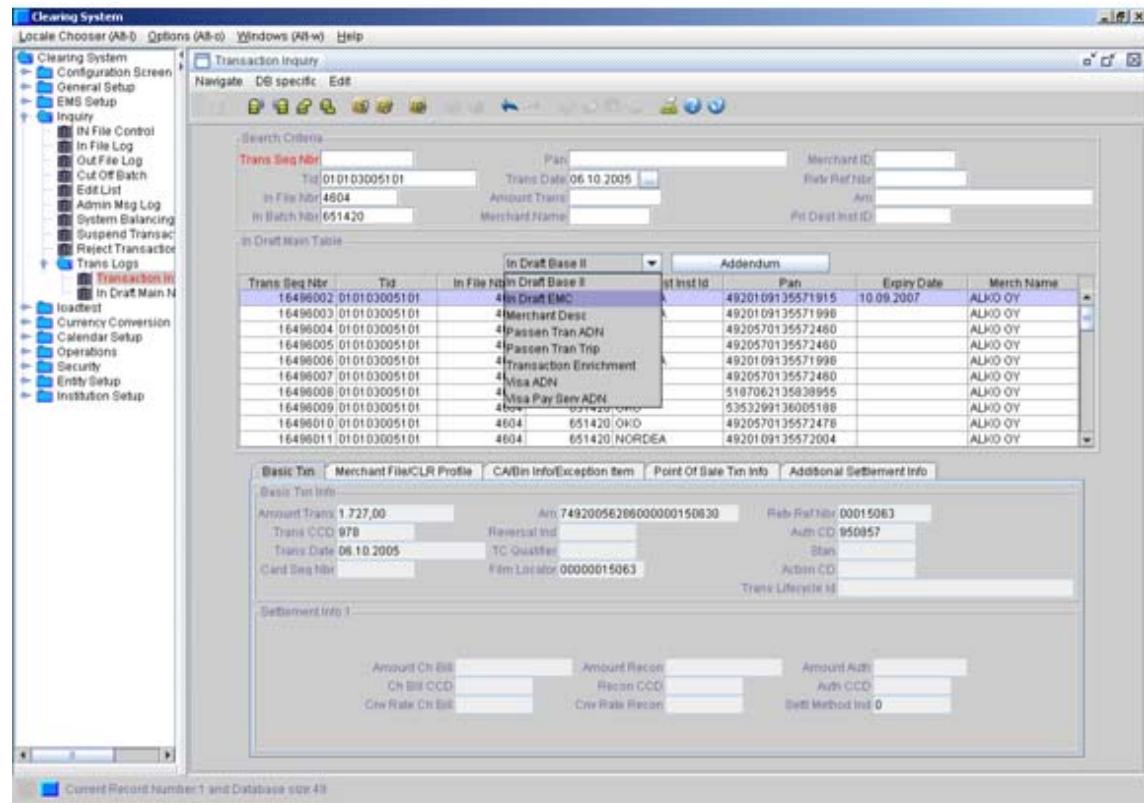


Figure 14 Transaction Inquiry - Addenda Records

## In Draft Main Section

This section displays the most relevant transaction information in a scrolling list. The scrollbar is used to scroll through the set of records displayed in the list. The navigation buttons (next, previous, first, last) are used to get the next or previous set of records the record.

In Draft Main Table								
In Draft Base II Addendum								
Trans Seq Nbr	Tid	In File Nbr	In Batch Nbr	Pri Dest Inst Id	Pan	Expiry Date	Merch Name	
16496002	010103005101	4604	651420 NORDEA	4920109135571915		10.09.2007	ALKO OY	
16496003	010103005101	4604	651420 NORDEA	4920109135571998			ALKO OY	
16496004	010103005101	4604	651420 OKO	4920570135572460			ALKO OY	
16496005	010103005101	4604	651420 OKO	4920570135572460			ALKO OY	
16496006	010103005101	4604	651420 NORDEA	4920109135571998			ALKO OY	
16496007	010103005101	4604	651420 NORDEA	4920570135572460			ALKO OY	
16496008	010103005101	4604	651420 OKO	4920570135572460			ALKO OY	
16496009	010103005101	4604	651420 OKO	4920570135572460			ALKO OY	
16496010	010103005101	4604	651420 OKO	4920570135572478			ALKO OY	
16496011	010103005101	4604	651420 NORDEA	4920109135572004			ALKO OY	

Figure 15 Transaction Inquiry - In Draft Main Section

## Basic Txn TAB

This TAB displays the Basic Transaction information such as the Acquirer Reference Number (ARN). There are two subsections. They are:

1. Basic Txn Info
2. Settlement Info 1.

The screenshot shows the 'Basic Txn' tab selected in a software interface. The top navigation bar includes tabs for 'Basic Txn', 'Merchant File/CLR Profile', 'CA/Bin Info/Exception Item', 'Point Of Sale Txn Info', and 'Additional Settlement Info'. The 'Basic Txn Info' section contains fields for Amount Trans (7.240,00), Trans CCD (978), Trans Date (08.10.2005), Card Seq Nbr, Arn (1520911629600000371753), Reversal Ind, TC Qualifier, Film Locator (00000037175), Rev Ref Nbr (00037175), Auth CD, Stan, Action CD, and Trans Lifecycle Id. Below this is a 'Settlement Info 1' section with fields for Amount Ch Bill, Ch Bill CCD, Cnv Rate Ch Bill, Amount Recon, Recon CCD, Cnv Rate Recon, Amount Auth, Auth CCD, and Settl Method Ind (M).

Figure 16 Basic Txn Tab

## Merchant File / CLR Profile TAB

This TAB displays the Merchant File and CLR Profile information. There are two subsections. They are Merchant Info and Clearing Profile.

The screenshot shows the 'Merchant File/CLR Profile' tab selected. The top navigation bar includes tabs for 'Basic Txn', 'Merchant File/CLR Profile', 'CA/Bin Info/Exception Item', 'Point Of Sale Txn Info', and 'Additional Settlement Info'. The 'Merchant Info' section contains fields for Merch Id (07763071), Merch Address1 (PL 33 HEIDEHOFINTIE 2), Merch Address2, Merch City (VANTAA), Merch Prov/State (IS), Merch Post CD Zip, Merch Cntry CD Num (246), Merch Cntry CD Alp (FI), MCC (5411), and Merch Status (A). The 'Clearing Profile' section contains fields for Transmit Date, Ctr Date (6286), Msg Nbr, External Record Id, External File Id (10106), Src Inst Id (LK), Src File Type (03), Pri Dest Inst Id (NORDEA), Pri Dest File Type (094), Pri Dest Clr Mode (F), Sec Dest Inst Id (MAS), Sec Dest File Type (21), Sec Dest Clr Mode (F), Clearing Flag (checkbox checked), and Prop Licence Flag (checkbox checked).

Figure 17 Merchant File/CLR Profile Tab

### CA/Bin Info/Exception Item TAB

This TAB displays the CA / Bin Info / Exception Item information. There are two subsections. They are Card Association /Bin Info and Exception Item.

The screenshot shows the CA/BIN Info/Exception Item Tab with the following fields:

- Card Association / BIN Info:**
  - Amount Amex Tax: [ ]
  - P CD Trans Type: 0
  - P CD To Acct: 0
  - Amex Tax C/C: [ ]
  - P CD From Acct: 0
  - Msg Type: 500
- Exception Item Info:**
  - Err CD: [ ]
  - Reason CD: [ ]
  - Chgbk Ref Nbr: [ ]
  - Cat Id: 00000000
  - Req Reason Cd: F
  - Fulfill Doc Type: [ ]
  - Function CD: 201
  - Doc Ind: [ ]
  - Mag Text Block: [ ]
  - Trans Cir Status: [ ]
  - Doc Type: [ ]
  - TC50 Msg Text: [ ]
  - Fee Reason CD: [ ]
  - Card Iss Ref Data: [ ]
  - Acq Inst Id: 10020876
  - Trans Dest: [ ]
  - Forwarding Inst Id: 492005
  - Trans Originator: 492005
  - Receiving Inst Id: 492005

At the bottom left, it says "err.7 and Database size:18."

Figure 18 CA/BIN Info/Exception Item Tab

### Point Of Sale Txn Info TAB

This TAB displays the Point Of Sale Txn information that is present in the selected record. There is one subsection - Point Of Sale Txn Info.

The screenshot shows the Point Of Sale Txn Info Tab with the following fields:

POS Crddat In Cap: 2	POS Crd Present: 1	POS Term Out Cap: 4
POS Ch Auth Cap: 9	POS Crddat In Mode: 2	POS Pin Capt Mode: 0
POS Crd Capt Cap: 0	POS Ch Auth Method: 3	POS Cat Level Ind: 0
POS Operating Env: 2	POS Ch Auth Entity: 5	Recurring Pay Ind: [ ]
POS Ch Present: 1	POS Crddat Out Cap: 0	

At the bottom left, it says "err.5 and Database size:43."

Figure 19 Point Of Sale Txn Info Tab

### Additional Settlement Info TAB

This TAB displays Additional Settlement information relevant to the selected transaction. There is one subsection - Additional Settlement Info.

Figure 20 Additional Settlement Info Tab

**Note:** Some of information displayed in the above form is drawn from the addendum records as follows:

**Column 1:**

- IRFP
- MAS Code
- MAS Code Downgrade
- Gutd Uni ID (Guaranteed Unique Identifier)

**Column 2: Present for VISA Transactions**

- |                 |  |
|-----------------|--|
| ACI             | - In Draft Base 2: Auth Characteristic Indicator |
| RA              | - In Draft Base 2: Reimb Attrib                  |
| RPS             | - IN Draft Base 2: Req Paynent Srv               |
| Amount ICHG Fee | - VISA PAY SERV ADN: Amount ICHG Fee             |
| ICHG_fee_CCD    | - VISA PAY SERV ADN: ICHG Fee Currency Code      |
| ICHG_fee_sign   | - Visa VISA PAY SERV ADN: ICHG Fee Sign          |



### Column 3: Present for Master Card Transactions

IRD	- IN DRAFT EMC: ICHG Rate Designator
CPI	- IN DRAFT EMC: Accept Brand ID Code
BS Level	- IN DRAFT EMC: Business SRVLVL Code
BS ID	- IN DRAFT EMC: Business SRV ID Code
Program Reg. ID	- IN DRAFT EMC: Prog Reg ID

### Transaction Inquiry Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins various log tables with the In Draft Main table.
TID	char	12	Transaction identifier code. It is a composite of the transaction domain, transaction scope, transaction class, transaction code, and transaction subtype.
In File Number	num	6	The number of the incoming file, assigned by the system, to identify the file to which the transaction belongs.
In Batch Number	num	6	The number of the incoming batch. This number is assigned by the system to identify the batch to which the incoming transaction belongs.
PAN	char	25	The primary account number which uniquely connects a card to a particular person.
Trans Date	date		The date the transaction took place as recorded at the terminal in the local time. Used mainly in case of reversals.
Amount Trans	num	15	The amount of the transaction in the currency of the acquirer. This is the original transaction amount without fees.
Merchant Name	char	40	The "doing business as" name of the merchant who acquired the transaction.
Merchant ID	char	30	The number used to identify the merchant who acquired the transaction.
Retv Ref Nbr	char	12	A unique document reference number. This number is automatically generated by the system for each processed transaction.
Arn	char	23	The Acquirer Reference Number, a twenty-three digit number assigned to the transaction by the acquirer.

Form Field Name	Type	Len	Description
Pri Dest Inst ID	char	6	The code used to identify the file type of the primary destination. E.g. "01" for TC57. For a list of file type codes see Appendix B of IST/Clearing Administration Guide.
Amount Trans	num	15	The amount of the transaction in the currency of the acquirer. This is the original transaction amount without fees.
Trans CCD	char	3	The currency code of the transaction.
Card Seq Nbr	num	3	The indicator of the card sequence number associated with the transaction.
Reversal Ind	char	1	Reversal indicator. Values: R (Reversed), blank (not reversed).
TC Qualifier	char	1	Transaction code qualifier.
Film Locator	num	11	This field must contain an eleven-digit number. It can not be zero filled. (TC 05, 06, and 07; Usage Code = 1).
Auth CD	char	6	The actual approval response code sent by the authorizing institution.
Stan	num	6	System Trace Audit Number used for
Action CD	num	3	The code defining the action taken and the reason for the action.
Trans Life cycle Id	char	10	Identifier of the transaction life cycle, based on the life cycle data assigned at authorization.
Amount Ch Bill	num	12	The amount charged as the cardholder billing fee. It is the currency conversion revenue that the issuing institution receives from the Cardholder Billing Amount.
Ch Bill CCD	char	3	The code identifying the currency in which the cardholder billing fee is charged.
Cnv Rate Ch Bill	num	18,9	Billing currency conversion rate.
Amount Recon	num	15	The transaction amount converted to the reconciliation currency (that is payment, or settlement currency).
Recon CCD	char	3	Code identifying the reconciliation currency.
Cnv Rate Recon	num	18,9	Reconciliation currency conversion rate.
Amount Auth	num	12	The transaction amount contained in the original authorization request.

Form Field			
Name	Type	Len	Description
Auth CCD	char	3	Currency code of the authorized amount.
Settl Method Ind	char	1	Settlement method indicator shows if the reconciliation messages from the clearing files are to be used as input for net settlement.
Merchant File / CLR Profile TAB			
Merch ID	char	30	The number used to identify the merchant who acquired the transaction.
Merch Address1	char	40	The first line of the address of the merchant who acquired the transaction. It contains the street name and number.
Merch Address2	char	40	The second line of the address of the merchant who acquired the transaction.
Merch City	char	25	The city where the merchant, who acquired the transaction, is located.
Merch Prov State	char	3	The code identifying the state, or province, or the merchant address.
Merch Post CD Zip	char	20	The postal, or ZIP, code of the merchant address.
Merch Cntry CD Num	num	3	The three digit numeric ISO code identifying the country of the merchant's address.
Merch Cntry CD Alp	char	3	The three digit alphabetic ISO code identifying the country of the merchant's address.
MCC	num	4	Merchant Category Code used to identify the type of business the merchant conducts.
Merch Status	char	1	Code indicating the merchant status.
Tier Ind	num	6	Tier Merchant identifier
Transmit Date	date		Transmission date of the transaction.
Clr Date	num	5	Clearing Date. A date presented as the position of a day within a year with the format YYDDD.
Msg Nbr	char	8	Message sequence number, assigned to the message by the transaction originator. The first message in the file is 00000001, and each subsequent message in the file has a greater number than the previous value.
External Record Id	num	8	The external identifier of the record.

Form Field			
Name	Type	Len	Description
External File Id	char	50	The external identification of the file.
Src Inst Id	varchar2	10	Identifier of the source institution of the transaction.
Src File Type	varchar2	6	Identifies where the file originates.
Pri Dest File Type	varchar2	10	Institution ID to which the transaction will be sent.
Pri Dest Clr Mode	char	1	The clearing mode of the primary destination of the transaction.
Sec Dest Inst Id	char	1	The clearing mode of the secondary destination of the transaction, if applicable.
Sec Dest File Type	varchar2	6	Secondary destination, file type.
Sec Dest Clr Mode	char	1	The clearing mode of the secondary destination of the transaction, if applicable.
Clearing Flag	char	1	A flag indicating if merchant is doing clearing through a card association or directly.
Prop Licence Flag	char	1	A flag indicating the proprietary license (JCB, Diners proprietary license flag).
CA/Bin Info/Exception Item TAB			
Amount Amex Tax	num	12	Amex tax amount applicable to the transaction. This field is zero-filled if unused.
Amex Tax CCD	num	3	The code identifying the currency in which the Amex tax is charged.
P CD Trans Type	num	2	The transaction type sub-field of the processing code identifying the transaction that was performed.
P CD From Acct	num	2	The "from account" sub-field of the processing code identifying the account to be debited.
P CD To Acct	num	2	The "to account" sub-field of the processing code identifying the account to be credited.
Msg Type	num	4	Message Type.
Err CD	char	6	Code identifying the error.
cat ID	char	8	Cardholder Activated Terminal identifier identifies the device activated by a cardholder swiping a card.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Function CD	num	3	The function code of the message indicating the specific purpose of the message within its message class.
Trans Clr Status	char	1	Indicator of the transaction clearing status. Possible values are: X-Marked as Exception Transaction C-Completed S-Suspended.
Fee Reason CD	num	4	Code assigned to a particular fee.
Acq Inst ID	char	11	The identifier of the acquiring institution, used to identify the acquirer of the transaction.
Forwarding Inst Id	cahr	11	The identifier of the forwarding institution, the sender of the transaction.
Receiving Inst Id	char	37	The identifier of the receiving institution, the recipient of the transaction.
Reason CD	num	4	Reason Code
Req Reason Cd	char	4	Code identifying the reason for the request.
Doc Ind	char	1	A flag indicating if supporting documentation has been sent in support of the request.
Doc Type	char	1	Indicator of the document type accompanying the request. E.g. 1 = hard copy original document, 4 = substitute draft, etc.
Card Issue Ref Data	char	10	The reference data the issuer provides when processing retrieval or chargeback messages. The acquirer is required to include the same data in the subsequent messages. Issuers assign values for this data element.
Trans Dest	char	11	The institution that is the destination institution of the transaction.
Trans Originator	char	11	The institution which is the originator of the transaction.
Chgbk Ref Nbr	num	10	If the transaction is a chargeback, this reference number identifies the chargeback. It is used for tracking purposes and included in all representations and all mailed documentation.
Fulfill Doc Type	char	1	A flag indicating the type of the fulfillment document.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Msg Text Block	char	70	The actual text of the message.
TC50 Msg Text	char	10	The actual TC50 message.
Point of Sale Txn Info Tab			
POS Crddat in Cap	num	3	POS Card Data Input Capability. This is a code indicating by which means the information from the card was input into the terminal. E.g. 2 = magnetic stripe, 3 = bar code reader, 5 = integrated circuit card reader, etc.
POS Ch Auth Cap	num	3	POS Terminal Data Cardholder Authentication Capability.
POS Crd Capt Cap	num	3	POS terminal data card operating capability indicator - shows if the terminal has the ability to capture a card. Sample values: 0 = no capture capability; 1 = card capture capability, etc.
POS Operating Env	num	3	POS Operating Environment indicator shows the terminal location and if it is attended or not. Sample values: 3 = card acceptor premises, not attended; 6 = on cardholder premises, unattended; 11 = internet originated, electronic delivery of product, etc.
POS Ch Present	num	3	Cardholder Present Data indicator shows if the cardholder is present at the point of service or not. If the cardholder is absent, it provides the reason why. Sample values: 1 = cardholder present; 2 = cardholder not present, mail transaction; 11 = internet originated, physical delivery of product, etc.
POS Crd Present	num	3	POS Card Present indicator shows if the card is present at the point of service or not. Sample values: 1 = card present; 9 = unknown, data not available; 13 = internet, SSL security, etc.
POS Crddat in Mode	num	3	POS Card Data Input Mode shows the method used to input information from the card to the terminal. Sample values: 1 = manual, no terminal; 2 = magnetic stripe read; 3 = bar code; etc.
POS Ch Auth Method	num	3	POS Cardholder Authentication Method indicator indicates the method for verifying the cardholder identity. Sample values: 2 = PIN; 3 = manual signature verification; 6 = electronic signature analysis; etc.

Form Field			
Name	Type	Len	Description
POS Ch Auth Entity	num	3	POS Card Authentication Entity indicator reveals the entity verifying the cardholder's identity. Sample values: 2 = ICC; 3 = card acceptance device; 5 = merchant card acceptor, etc.
POS Crddat OUt Cap	num	3	POS Card Data Output Capability indicator shows if the terminal has the ability to update cards. Sample values: 1 = none; 2 = magnetic stripe write; 3 = ICC capability, etc.
POS Term Out Cap	num	3	POS Terminal Output Capability indicator shows the ability of the terminal to print or display messages. Sample values: 2 = printing; 3 = display; 4 printing and display; etc.
POS Pin Capt Mode	num	3	POS PIN Capture Mode indicator shows what length of PIN the terminal is capable of capturing. Sample values: 1 = no PIN capture capability; 4 = pin capture capability maximum four characters; 5 = pin capture capability maximum five characters; etc.
POS Cat Level Ind	num	3	POS Terminal Data Category Level Indicator shows the category level. Sample values: 1 = CAT level 1 (automated dispensing machine); 2 = CAT level 2 (self-service terminals); 3 = CAT level 3 (limited amount terminal), etc.
Recurring Pay Ind	num	1	A flag indicating if this is a recurring payment transaction.
Additional Settlement Info TAB			
IRFP	char	15	The number identifying the Interchange Reimbursement Fee Plan, or program, associated with the transaction.
MAS Code	char	25	The billing code used to determine how transactions are priced. The MAS Code is used in combination with TID Activity codes to define the fees to be charged to entities. Each MAS Code is associated with a single Card Scheme.
MAS Code Downgrade	char	25	Identifies the rates to be charged for a downgraded transaction.
Gutd Uni ID	varch ar2	36	Guaranteed Unique Identifier.
ACI	num	1	Authorization Characteristics Indicator.
RA	num	1	Reimbursement Attribute
RPS	num	1	Requested Payment Service
Retv Ref Nbr	char	12	A unique document reference number. This number is automatically generated by the system for each processed transaction.

Form Field			
Name	Type	Len	Description
ICHG Fee CCD	char	3	Interchange fee currency code.
ICHG Fee Sign	char	1	Interchange fee sign.
IRD	char	2	Interchange rate designator.
CPI	char	3	Card program identifier.
BS Level	char	3	Business service arrangement type code.
BS ID	char	6	Business Service ID Code.
Program Reg. ID	char	6	Program registration ID.
Nbr of Installment	num	2	Number of installments.

## In Draft EMC

**Type:** Inquiry.

**Underlying Table:** IN\_DRAFT\_EMCA.

Use this form to monitor all the MasterCard electronic draft transactions coming in the system. The form lists all details of each draft transaction.

Figure 21 In Draft EMC Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **In Draft EMC**

The form opens by default in the [Query Mode](#).



## In Draft EMC Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Excl Req Excl	char	2	Exclusion Request Code - the identifier of the clearing system edits that the originator requests to be bypassed during the clearing system processing.
Excl Reason CD	char	1	Exclusion Reason Code - the code assigned by the clearing system to indicate approval of and the reason for the edit exclusion.
Excl Result CD	char	1	Exclusion Result Code - the code assigned by the clearing system to indicate the edit set, or sets, bypassed when the transaction was processed.
First CCNV Date	date		First currency conversion date
Second CCNV Date	date		Second currency conversion date
Banknet Ref Number	char	9	Banknet Reference Number - a unique field assigned by MasterCard to identify an authorization.
Banknet Ref Date	date		Banknet reference date - the date when the reference number was assigned to the authorization.
Partial Amt Ind	char	1	Partial amount indicator - value used to indicate either a chargeback submitted for partial amount, or a second presentment where the chargeback amount has been adjusted by the acquirer. Sample values: I = issuer (chargeback, arbitration chargeback); A = acquirer (second presentment).
Amount Charge Back ICHG Fee	num	12	Chargeback interchange fee amount - the amount charged for chargeback interchange processing.
Charge Back ICHG Fee CCD	num	3	Chargeback interchange fee currency code - the code identifying the currency in which the chargeback interchange fee is charged.
Charge Back ICHG Fee Exp	num	1	Chargeback interchange fee exponent - the indicator of the decimal point location in the chargeback interchange fee.
MasterCom Ind	char	1	MasterCom indicator - an indicator of the service level MasterCom system provides. Sample values:
MasterCom Fee Class	char	1	The code indicating the length of time needed for fulfillment. Sample values: A = 1- 5 days, B = 6-10 days, etc.

Form Field Name	Type	Len	Description
Original CEN Proc Date	date		The date when the file was generated at the originator of the transaction.
ICCR Effect Date	date		Issuer Currency Conversion Rate (ICCR) Effective Date - date when the ICCR became effective in the clearing system.
Prog Reg ID	char	3	Program Registration ID is the identifier of promotions being offered. It allows tracking of various value-added services and promotions.
MasterCom Crtl Number	char	12	MasterCom PC Endpoint Control Number provided by the transaction originator. It is used in routing chargeback and retrieval documentation.
Amount Acq IntCnv	num	12	Acquirer Intermediate Currency Conversion amount is the amount which, if permitted, needs to be pre-converted into an intermediate reconciliation currency.
Acq IntCnv CCD	char	3	The code identifying the currency in which the Acquirer Intermediate Currency Conversion amount.
Acq IntCnv Exp	num	1	The indicator of the decimal point location in the Acquirer Intermediate Currency Conversion amount.
Acq IntCnv Rate	num	8	The rate at which the Acquirer Intermediate Currency Conversion amount was converted.
Accept Brand Id CD	char	3	The Acceptance Brand ID Code identifies the acceptance brand, or financial network, to which the transaction belongs.
Recon Fee CCD	char	3	The code identifying the currency of the reconciliation fee.
Recon Fee Exp	num	1	The indicator of the decimal point location in the reconciliation fee
CNV Date	date		The date when the transaction amount is converted into the settlement amount.
Business SRVLVL CD	char	1	The Business Service Level Code identifies the interchange relationship between the participants in the transaction.
Business SRV ID CD	ar	6	The Business Service ID Code identifies the business service to which the transaction is assigned for reconciliation and rule basis.
ICHG Rate Designat	char	2	The Interchange Rate Designator is a code indicating the interchange pricing rules applied to the transaction.

Form Field			
Name	Type	Len	Description
Business Date	date		The official business processing date when the business service reconciles a transaction. The Clearing system determines the Business Date for all business transactions and inserts it into the transaction. The Business Date is the processing date of the system expressed in the local time zone of the processing center.
Business Cycle	num	2	The identifier of a reconciliation period in a Business Date. The Business Cycle is adjusted at the processing cycle cutover of each business service. At the cycle cutover, the Business Cycle is incremented by one, or to the next available business day for the business service.
Settl Srv ID CD	char	10	Settlement Service ID Code - the code that uniquely identifies the settlement service.
Settl Fxrate Class	char	1	Settlement Foreign Exchange Rate Class - the code that identifies the classification of foreign exchange rates used to compute payment amounts for the settlement service.
Recon Date	date		Reconciliation Date - the date when the settlement service financially reconciles the message. The time for the Reconciliation Date is based on the local time zone and calendar for the settlement service. Settlement service reconciliation cutoffs may occur every day or only on business days the settlement service identifies.
Recon Cycle	num	2	Reconciliation Cycle - the number identifying a reconciliation period in a Reconciliation Date. The Reconciliation Cycle is adjusted at each settlement service reconciliation cutoff. At cutoff, the Reconciliation Cycle is incremented either by one, or to the next available business day for the settlement service.
Settle Date	date		Settlement Date - the date the settlement service initiates settlement for the message. The time for the Settlement Date is based on the clearing date and calendar for the settlement service. Settlement service settlement cutoffs occur only on banking business days the settlement service specifically identifies.
Settl Cycle	num	2	Settlement Cycle - the identifier of a settlement period in a Settlement Date. The Settlement Cycle is adjusted at each settlement service reconciliation cutoff. At cutoff, the Settlement Cycle is incremented either by one, or to the next available business day for the settlement service.
Partner ID CD	char	6	The identifier of a specific partnership agreement, usually between specific card acceptors and issuers.

Form Field Name	Type	Len	Description
Originating Msg Fmt	num	1	Originating Message Format - the identifier of the message format in which the clearing system received a message. E.g. 1= INET or ECCF, 2 = IPM, etc.
MasterCom P Acq Ep	char	7	MasterCom Preferred Acquirer Endpoint identifies the preferred acquirer endpoint to be used in any subsequent Retrieval Request. The endpoint is not used for routing Chargeback Support Documentation.
Amt Original Recon	num	12	Original Reconciliation Amount
Original Recon CCD	char	3	The code identifying the currency of the original reconciliation amount.
Original Recon Exp	num	1	The indicator of the decimal point location in the original reconciliation amount.
Settl Agree Info	char	29	Settlement Agreement Information - additional information related to a bilateral settlement agreement.
Iss Retv Req Date	date		Issuer Retrieval Request Date - the clearing system processing date of the Issuer's Retrieval Request. This is the date that begins the time frame edits related to the validity of a chargeback for non-receipt of requested documentation.
Acq Retv Resp CD	char	1	Acquirer Retrieval Response Code - the code which the acquirer returns in response to the issuer's Retrieval Request. E.g. A = Retrieval request not fulfilled; invalid reference number.
Acq Retv Resp Sent	date		The date when the acquirer responded to the issuer's Retrieval Request. This date determines if the acquirer responded in the appropriate time frames. It is also used in the retrieval fulfillment fee billing to indicate the number of days it took the acquirer to respond.
Iss Resp CD	char	2	Issuer Response Code - the code the issuer returns after reviewing the acquirer's response to the Retrieval Request. It indicates if the issuer accepts or rejects the acquirer's response.
Iss Resp Date	date		Issuer Response Date - the date when the issuer response code was provided. It determines if an issuer responded in the time frame allowed and is therefore eligible to charge back a transaction for Message Reason Code.
Recon Ind	char	4	Reconciliation Indicator is a proprietary value defined by a transaction originator to be assigned to its outgoing financial messages.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Cancellation Ind	char	1	A flag indicating that the transaction was canceled.
Format CD	num	2	Code identifying the structure and format of the message.
Iss Reject Reason	char	10	Issuer Reject Reason - the reason, or reasons, why the issuer rejected the acquirer's response.
Image Review Deces	char	1	Image Review Decision - whenever an issuer rejects an acquirer's response, the case is referred to Image Review for a ruling. The ruling can be "A" meaning that the Image Review ruled in favour of the acquirer, or "I" in favour on the issuer.
Image Review Date	date		The date the Image Review decision was made.
Charge Back D S Proc Date	date		Chargeback Documentation Sender Processing Date - the date when the issuer provided chargeback support documentation information regarding the First Chargeback. The date determines if the issuer provided documentation in the appropriate time frame.
Charge Back D S Proc Date	date		Chargeback Documentation Sender Processing Date - the date when the issuer provided chargeback support documentation information regarding the Second Chargeback. The date determines if the issuer provided documentation in the appropriate time frame.
Reason CD Ret	num	4	Message Reason code of the first Return transaction. It is obtained from the Message Reason Code in the First Chargeback or Fee Collection Return.
Business Date Ret	date		Business processing date of the first return transaction. It is obtained from the Business Date of the Business Activity in the First Chargeback. When used in the Second Presentment, the clearing system provides a valid date.
Excl Reason CD Ret 1	char	1	Exclusion Reason Code of the first Return transaction - obtained from the Message Reason Code in the First Chargeback or Fee Collection Return.
Excl Result CD Ret 1	char	1	Exclusion Reason Code for the first return transaction. It is obtained from the Edit Exclusion Results Code of Edit Exclusion Indicator in the First Chargeback or Fee Collection Return. The clearing system provides a valid value in Second Presentment and Arbitration Chargeback messages. It contains a valid Edit Exclusion Results Code or a space if no exclusion was granted.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Amt Ret1	num	12	The submitted amount of the first return transaction. It is obtained from the First Chargeback or Fee Collection Return. The Clearing system provides the appropriate value in Second presentment and Arbitration Chargeback messages.
Ret1 CCD	char	3	First Return Currency Code - the code identifying the currency of the
Ret1 Exp	num	1	First Return Exponent - the indicator of the decimal point location of the
Data Rec Ret1	char	100	Data Record, First Return - the message text data of the first return transaction. It is obtained from the First Chargeback or the Fee Collection Return. The Clearing system provides the appropriate value for this field in Second Presentment and Arbitration Chargeback messages. The transaction originator may provide the value in Fee Collection Re-submission and Fee Collection Arbitration Return messages.
Reason CD Ret2	num	4	Reason Code, Second Return - the message reason code of the second return transaction. It is obtained from Message Reason Code in the Second Presentment or Fee Collection Re-submission. The clearing system provides this field in Arbitration Chargeback messages. The transaction originator may provide this value in Fee Collection Arbitration Return messages.
Business Date Ret2	date		Business Date, Second Return - the business processing date of the second return transaction. It is obtained from the Business Date field of Business Activity in the Second Presentment or Fee Collection Re-submission. The clearing system provides a valid date when used in Arbitration Chargeback messages. The transaction originator may provide the date in Fee Collection Arbitration Return messages.
Excl Reason CD Ret 2	char	1	Edit Exclusion Reason Code for the second return transaction. It is obtained from the Edit Exclusion Reason Code of the Edit Exclusion Indicator in the SEcond Presentment or Fee Collection Re-submission. The clearing system provides a valid value when used in Arbitration Chargeback messages. The transaction originator may provide the value in Fee Collection Arbitration Return messages.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Excl Result CD Ret 2	char	1	Edit Exclusion Results Code for the second return transaction. It is obtained from the Edit Exclusion Results Code of the Edit Exclusion Indicator in the SEcond Presentment or Fee Collection Re-submission. The clearing system provides a valid value when used in Arbitration Chargeback messages. The transaction originator may provide the value in Fee Collection Arbitration Return messages.
Amt Ret 2	num	12	Amount, Second Return - the submitted amount of the second return transaction. It is obtained from Amount, Transaction in the Second Presentment or Fee Collection Re-submission. The clearing system provides a valid value in Arbitration Chargeback messages. The transaction originator may provide the value in Fee Collection Arbitration Return messages.
Ret2 CCD	char	3	Second Return Currency Code - the code identifying the currency of the second return amount.
Ret2 Exp	num	1	Second Return Exponent - the indicator of the decimal point location of the second return amount.
Data Rec Ret2	char	100	Data Record, Second Return - the message text data of the second return transaction. It is obtained from Data Record in the Second Presentment or Fee Collection Re-submission. The clearing system provides a valid value in Arbitration Chargeback messages. The transaction originator may provide the value in Fee Collection Arbitration Return messages.
Amount Partial Trans	num	12	The partial transaction amount in the First Presentment currency.
Msg Text	char	132	The actual text of the message.
EcsL Sec Protocol	num	1	Electronic Commerce Security Level Security Protocol - an indicator of the presence and type of security protocol present in the authorization process. Populated from the Authorization Request message.
EcsL CH Auth	num	1	Electronic Commerce Security Level Cardholder Authentication - indicator of the type of Cardholder Authentication used in the authorization process. Populated from the Authorization Request message.
Partial Trans CCD	char	3	The code identifying the currency in which the partial amount of the transaction was charged.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Partial Trans Exp	num	1	The indicator of the decimal point location in the partial transaction amount.
Initial Reason CD	num	4	The Message Reason Code of the initial transaction. It is obtained from Message Reason Code in the First Presentment or Fee Collection.
Initial P Bus Date	date		Initial Presentment Business Date - the business processing date of the initial transaction. It is obtained from Business Date of Business Activity in the First Presentment or Fee Collection.
Initial Data Rec	char	100	Initial Data Record contains the message text data of the initial Fee Collection transaction. It is obtained from Data Record in the Fee Collection.
Action Date	date		A future action date, or a specific date such as a transaction date.
Fee Coll Ctrl Number	char	20	Fee Collection Control Number is a financial control number (reference number) assigned by a Fee Collection message originator.
Trace ID	char	15	A unique identifier of a transaction through its full life cycle. It consists of the Banknet Reference Number followed by Banknet Date, followed by two spaces.
Trans Desc	char	4	A code describing the type of transaction being presented.
Processing Class	char	4	The Europay processing class defining the rules to be applied when processing a message.
Trans Type	char	2	The code identifying a specific type of financial detail transaction submitted to the clearing system.
Version Number	num	2	The code identifying the version number of the ECCF format used for the message.
CH CNV Date	date		The date when the conversion rate, applied on the issuer side, became effective.
Fee Type	num	2	The code indicating the type of fee assigned by the clearing system. The code range is from 00 to 99.
Amount Fee	num	12	The fee amount to be charged to the merchant.
Fee CCD	char	3	The code identifying the currency in which the fee is charged.
Fee Exp	num	1	The indicator of the decimal point location in the fee amount.

Form Field Name	Type	Len	Description
CNV Rate Fee	num	18,9	Conversion Rate fee.
Magnetic Track Ind	num	1	An indicator showing which magnetic track of the card was used by the ATM/POS to obtain the cardholder identification.
Proc Fee Rule	char	4	Processing Fee Rule - an indicator of the fee rule used to compute the processing fee.
Trans Fee Rule	char	4	Transaction Fee Rule - an indicator of the fee rule used to compute the transaction fee.
E Img Proc Ind	char	1	Electronic Image Processing Indicator - a flag indicating that the electronic image processing was used for routing document images between members of associations.
Amt Recon Fee	num	12	The amount charged as a reconciliation fee.
Exsl Ucaf Coll Ind	num	1	Universal Cardholder Authentication Field (UCAF) Collection Indicator - a code indicating the level of UCAF supported in the authorization process.
Orig Data Element	char	35	Original Data Element
Amount Original	num	12	The original amount of the transaction from the First Presentment.
Original CCD	char	3	The code identifying the original transaction currency
Original Exp	num	1	The indicator of the decimal point location in the original transaction amount.
Member Msg Number	num	4	Member Message Number
Member Msg Type	num	4	Member Message Type
Member Msg Text	char	80	Member Message Text
Orig Account Number	char	28	Original Account Number
Extended Srv Code	num	3	Extended Service Code
Master Com Msg Type	char	7	MasterCom Message Type
External File Type	char	4	External File Type

Form Field Name	Type	Len	Description
Auth Date	date		Authorization Date from Authorization Log
Track Data	char	76	Magnetic Stripe track data from the authorization transaction
Amount Ichg Fee	num	12	Amount Interchange Fee Amount
Ichg Fee CCD	char	3	Interchange fee currency code
Ichg Fee Exp	num	1	Interchange fee exponent
Amount New Ichg Fee	num	12	Interchange Fee Amount
New Ichg Fee CCD	char	3	Interchange fee currency code
New Ichg Fee Exp	num	1	Interchange fee exponent
Ichg Comp Ind	char	2	Exponent of the Interchange Fee
Amount Adj Ichg Fee	num	12	Adjusted Interchange Fee Amount
Adj Ichg Fee CCD	char	3	Interchange fee currency code
Adj Ichg Fee Exp	num	1	Interchange fee exponent
Ichg Comp Time Ird	char	1	Interchange Compliance Timeliness
Timeliness Chk Ind	char	1	Timeliness Check Result
Magstring Chk Ind	char	1	Magnetic Strip Check Result
MCC Chk Ind	char	1	MCC Check Result
Auth CD Chk Ind	char	1	Authorization Check Result:
Trans Amount Chk Ind	char	1	Transaction amount check indicator
Compliance Text	char	11	Compliance text

Form Field Name	Type	Len	Description
Amount Additional Account Type	char	2	Type of the additional amount.
Amount Additional Amount Type	char	2	Type of the additional amount.
Amount Amount Additional	num	12	Additional amount.
Amount Additional CCD	char	3	Currency code for the additional amount.
Amount Additional Exp	num	1	Exponent for the additional amount.
Amount Amount MCCR	num	12	MCCR amount
Amount MCCR CCD	char	3	Currency code for the MCCR amount.
Amount MCCR Exp	num	1	Exponent for the MCCR amount.
Product ID	char	3	Product Identifier
Card Accept Overind	char	1	Card Acceptor Business Code Override Indicator.
Product Overind	char	1	Product Override Indicator.
Corp IR Ind	char	1	Corporate Incentive Rates Apply Indicator.
ATM Itp Ind	char	1	ATM Late Present Indicator.
Tier Merch ID	num	6	Tier Merchant identifier
Ichg LC valid CD	char	15	Interchange Life Cycle validation code.
Amt Iccr	num	12	Amount ICCR
Amt Iccr CCD	char	3	Amount ICCR Currency Code
Amt Iccr Exp	num	1	Amount ICCR Currency exponent.
QPSPP Chargeback Ind	char	1	QPS/PayPass Chargeback *chg* Eligibility Indicator - program participation Indicator. Possible Values: I, (Space)



Form Field Name	Type	Len	Description
ALM Acctc Cd	char	1	Account Level Management Account Category Code Possible Values: B, P, M, S, T, Z.
Device Type Ind	char	2	Device Type Indicator.
Fraud Noti Date	date		Fraud Notification Date.
Remote Pymt Ind	num	1	Remote Payment Indicator.
Transit Transaction Type Ind	num	2	Transit Transaction Type Indicator.
Transportation Mode Ind	num	2	Transportation Mode Indicator.
Fraud Noti Counter	char	2	Total number of fraud-related chargebacks processed for the account to date.
Ppol Pgm Data	char	3	Provides information about transactions initiated through the PayPass™ Online platform.
CVC2 VP Ind	char	1	MC CVC2 valid participant. Possible values: C - GCMS populated value for valid CVC2 participating merchant.

## Vehicle Rental Addendum

**Type:** Inquiry.

**Underlying Table:** VEHICLE\_RENTAL\_ADN.

Use this form to monitor the vehicle rental transaction addendum records.

The screenshot shows the 'Clearing System' application window with the title 'VEHICLE RENTAL ADN'. The left sidebar navigation tree includes 'Clearing', 'Config', 'General', and 'Inquiry' sections, with 'Inquiry' currently selected. The main panel displays a grid of form fields. The first column contains field names such as 'Trans Seq Nbr', 'Rental Agreement Nbr', 'Renter Name', 'Rental Rtn City', 'Rental Rtn State', 'Rental Rtn Country', 'Rental Rtn Date', 'Rental Rtn Loc ID', 'Rental Loc City', 'Rental Loc State', 'Rental Loc Cntry', 'Rental Loc ID', 'Rental Cust Srv PH', 'CSI Toll Free Nbr', 'Rental Class CD', 'Rental Rate Ind', 'Amt Daily Rate', 'Daily Rate CCD', 'Daily Rate Exp', 'Amt Weekly Rate', 'Weekly Rate CCD', 'Weekly Rate Exp', 'Amt Monthly Rate', 'Monthly Rate CCD', 'Monthly Rate Exp', 'Amt Rate Milekm', and 'Rate Milekm CCD'. The second column contains corresponding input fields. The third column contains field names such as 'Rate Milekm Exp', 'Total Mile Km', 'Max Free Mile Km', 'Insurance Ind', 'Insurance Chg', 'Insurance Chg CCD', 'Insurance Chg Exp', 'Amt Fuel Chg', 'Fuel Chg CCD', 'Fuel Chg Exp', 'Amt Oneway Dropoff', 'Oneway Dropoff CCD', 'Oneway Dropoff Exp', 'Adjust Ind', 'Amount Adjust', 'Adjust CCD', 'Adjust Exp', 'Program CD', 'Rental Chkout Date', 'Mile Km Ind', 'Amt Rental Xchg', 'Rental Xchg CCD', 'Rental Xchg Exp', 'Days Rented', 'No Show Ind', 'Rental Bus Fmt CD', 'Commodity CD', 'Rental Xservice CD', 'Amount DTax3', 'DTax3 CCD', 'DTax3 Exp', 'DTax3 Rate', 'DTax3 Rate Exp', 'DTax3 Applied Type', 'DTax3 Type ID', 'CRD Accept Tax3 ID', 'CRD Accept Tax4 ID', 'DTax4 Ind', 'Amt DTax4', 'DTax4 CCD', 'DTax4 Exp', 'DTax4 Rate', 'DTax4 Rate Exp', 'DTax4 Applied Type', 'DTax4 Type ID', 'Crd Accept Tax4 ID', 'DTax5 Ind', 'Amt DTax5', 'DTax5 CCD', 'DTax5 Exp', 'DTax5 Rate', 'TC50 Item Seq Number', 'Amt Total Tax', 'Total Tax CCD', and 'Total Tax Exp'. The fourth column contains input fields for these fields. The bottom status bar indicates 'In Update Model' and 'Java Applet Window'.

Figure 22 Vehicle Rental Addendum Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Vehicle Rental Addendum**

The form opens by default in the [Query Mode](#).



## Vehicle Rental Addendum Form Fields

Form Field Name	Type	Len	Description
Trans Seq Nbr	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Rental Agreement Nbr	char	9	The invoice number of the original vehicle rental agreement.
Renter Name	char	40	The name of the person making the vehicle rental agreement.
Rental Rtn City	char	18	Rental Return City - the city where the vehicle was returned.
Rental Rtn State	char	3	Rental Return State - code identifying the state, or province, where the vehicle was returned. This field must contain a valid code.
Rental Rtn Country	char	3	Rental Return Country - code identifying the country where the vehicle was returned.
Rental Rtn Date	date		Rental Return Date - date when the vehicle was returned.
Rental Rtn Loc ID	char	10	Rental Return Location ID - code, address abbreviation, or phone number. used to identify the location of the vehicle rental return.
Rental Loc City	char	18	Rental Location City - city where the vehicle was rented.
Rental Loc State	char	3	Rental Location State - a code identifying the state or province where the vehicle was rented.
Rental Loc Cntry	char	3	Rental Location Country - a code identifying the country where the vehicle was rented.
Rental Loc ID	char	10	Rental Location ID - agency code, phone number, or address abbreviation used to identify the rental location.
Rental Cust Srv PH	char	15	The customer service telephone number used to resolve questions, or disputes, concerning vehicle rental.
CSI Toll Free Nbr	char	15	The toll free customer service number used to resolve questions and disputes concerning vehicle rental.
Rental Class CD	char	4	The code identifying the class of the vehicle rented. (E.g. mid-size, luxury, etc.)
Rental Rate Ind	char	1	Rental Rate Indicator - an indicator if the rental rate is for a daily, weekly, or monthly rental. E.g. "D" = daily rate.

Form Field Name	Type	Len	Description
Amt Daily Rate	num	12	The daily vehicle rental rate charged.
Daily Rate CCD	char	3	The code identifying the currency of the daily rate amount.
Daily Rate Exp	num	1	The indicator of the decimal point location in the daily rate amount.
Amt Weekly Rate	num	12	The weekly vehicle rental rate charged.
Weekly Rate CCD	char	3	The code identifying the currency in which the weekly rate amount is charged.
Weekly Rate Exp	num	1	The indicator of the decimal point location in the weekly rate amount.
Amt Monthly Rate	num	12	The monthly vehicle rental rate charged.
Monthly Rate CCD	char	3	The code identifying the currency of the monthly rate amount.
Monthly Rate Exp	num	1	The indicator of the decimal point location in the monthly rate amount.
Amt Rate Milekm	num	12	Rate per Mile (or per Kilometer) - the rate charged for each mile, or kilometer. It may be a daily, weekly, or monthly rate.
Rate Milekm CCD	char	3	The code identifying the currency of the mile or kilometer rate amount.
Rate Milekm Exp	num	1	The indicator of the decimal point location in the rate charged per mile or kilometer.
Total Mile Km	num	4	Total Miles or Kilometers - the number indicating the total miles, or kilometers, that the customer drove.
Max Free Mile Km	num	4	Maximum Free Miles (or Kilometers) - the number of free miles or kilometers allowed to a customer for the duration of the vehicle rental agreement.
Insurance Ind	char	1	Insurance indicator - a flag indicating if the customer purchased a vehicle rental insurance.
Amt Insurance Chg	num	12	Insurance Charge Amount - the amount charged to the customer for purchasing vehicle rental insurance.
Insurance Chg CCD	char	3	The code identifying the currency of the insurance charge.

Form Field			
Name	Type	Len	Description
Insurance Chg Exp	num	1	The indicator of the decimal point location in the insurance charge amount.
Amt Fuel Chg	num	12	Fuel Charge Amount - the amount charged to the customer for the fuel cost.
Fuel Chg CCD	char	3	The currency code of the fuel charge amount.
Fuel Chg Exp	num	1	The indicator of the decimal point location in the fuel charge amount.
Amt Oneway Dropoff	char	3	One-way drop off amount - the amount charged to the customer for the one way vehicle drop off.
Oneway Dropoff CCD	char	3	The code identifying the currency in which the one way drop-off amount is charged.
Oneway Dropoff Exp	num	1	The indicator of the decimal point location in the one way drop off amount.
Adjust Ind	char	1	Adjustment Indicator - a flag indicating if any additional charges were incurred after the vehicle was rented.
Amount Adjust	num	12	Adjustment Amount - the amount charged, in addition to the vehicle rental agreement, after the vehicle was returned.
Adjust CCD	char	3	The code identifying the currency of the adjustment amount.
Adjust Exp	num	1	The indicator of the decimal point location in the adjustment amount.
Program CD	char	12	A code used to identify special circumstances. E.g. "frequent renter".
Rental Chkout Date	date		Rental Checkout Date - date when the customer picks up the rental vehicle from the rental agency.
Mile Km Ind	char	1	Mile/Kilometer Indicator - a flag indicating if miles or kilometers are used as measure of distance.
Amt Rental Xchg	num	12	Rental Extra Charge Amount - extra charges associated with the vehicle rental.
Rental Xchg CCD	char	3	The code identifying the currency of the rental extra charge amount.
Rental Xchg Exp	num	1	The indicator of the decimal point location in the rental extra charge amount.
Days Rented	num	2	The number of days the vehicle was rented.

Form Field Name	Type	Len	Description
No Show Ind	char	1	No Show Indicator - a flag indicating that the customer never showed up at the rental agency.
Rental Bus Fmt CD	char	2	Rental Business Format - a code identifying the rental business format.
Commodity CD	char	15	Identifier, assigned by the card acceptor, that best categorizes the services offered in a standardized commodity group.
Rental Xservice CD	char	6	Code identifying extra rental service.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
CRD Accept Tax3 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amt DTax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.

Form Field Name	Type	Len	Description
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
CRD Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amt DTax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
CRD Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Tax Exempt Ind	char	1	Tax Exempt Indicator - a flag indicating if the service was tax exempt.
Corporate ID	char	12	The unique identifier of the corporation or entity renting the vehicle.
Amt Weekly Rental	num	12	Weekly Rental Amount - the amount charged for a seven-day rental period.
Weekly Rental CCD	char	3	The code identifying the currency of the Weekly Rental Amount.
Weekly Rental Exp	num	1	The indicator of the decimal point location in the Weekly Rental Amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Amt Total Auth	num	12	Total Authorized Amount - the amount reserved on a credit card to cover the anticipated charges associated with the rental of a vehicle.
Total Auth CCD	char	3	Code identifying the currency of the Total Authorized Amount.
Total Auth Exp	num	1	The indicator of the decimal point location in the Total Authorized Amount.
Amt Reg Mile Chg	num	12	Regular Mileage Charge Amount - the amount charged for regular miles traveled during vehicle rental.
Reg Mile Chg CCD	char	3	The code identifying the currency of the Regular Mileage Charge Amount.
Reg Mile Chg Exp	num	1	The indicator of the decimal point location in the Regular Mile Charge Amount.
Amt Xmile Chg	num	12	Extra Mileage Charge - the amount charged for miles exceeding maximum allowed miles traveled during vehicle rental.
Xmile Chg CCD	char	3	Code identifying the currency of the Extra Mileage Charge amount.
Xmile Chg Exp	num	1	The indicator of the decimal point location in the Extra Mileage Charge amount.
Amt Late Chg	num	12	Late Charge - the amount charged for returning the rented vehicle after the agreed date of return.
Late Chg CCD	char	3	Code identifying the currency of the Late Charge amount.
Late Chg Exp	num	1	The indicator of the decimal point location in the Late Charge amount.
Amt Towing Chg	num	12	Towing Charges - the amount charged to tow the rental vehicle.
Towing Chg CCD	char	3	Code identifying the currency of the Towing Charge amount.
Towing Chg Exp	num	1	The indicator of the decimal point location in the towing charge amount.
Amt Other Chg	num	12	Other Charges - the amount of other charges associated with the vehicle rental.
Other Chg CCD	char	3	The code identifying the currency of the amount of additional charges.

Form Field			
Name	Type	Len	Description
Other Chg Exp	num	1	The indicator of the decimal point location in the amount of additional charges.
TC50 Item Seq Number	num	4	Item Sequence Number in the TC 50 message.
Amt Total Tax	num	12	Total tax amount on the service purchased.
Total Tax CCD	char	3	The code identifying the currency of the tax amount.
Total Tax Exp	num	1	The indicator of the decimal point location in the tax amount.

## Lodging Addendum

**Type:** Inquiry.

**Underlying Table:** LODGING\_ADN.

Use this form to monitor lodging transaction addendum records.

Figure 23 Lodging Addendum Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Lodging**

The form opens by default in the [Query Mode](#).

## Lodging Addendum Form Fields

Form Field Name	Type	Len	Description
Tans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Lodg Bus Rmt CD	char	2	Lodging Business Format Code - code identifying the format of the lodging business. E.g. "hotel".
Arrival Date	date		The date when the cardholder checked in the lodging property.
Departure Date	date		The date when the cardholder checked out of the lodging property.
Folio Number	char	10	The internal invoice or billing ID reference number of the card acceptor.
Property Ph Number	char	15	Property Phone Number - the local phone number identifying the specific lodging property location.
CSI Toll Free Number	char	15	The toll free customer service number used to resolve questions and disputes concerning lodging.
Amount Room Rate	num	12	Daily room charges excluding taxes and fees.
Room Rate CCD	char	3	The code identifying the currency of the room rate amount.
Room Rate Exp	num	1	The indicator of the decimal point location in the room rate amount.
Amount Room Tax	num	12	Daily room tax amount.
Room Tax CCD	char	3	The code identifying the currency of the room rate tax amount.
Room Tax Exp	num	1	The indicator of the decimal point location in the room tax amount.
Program CD	char	12	A code identifying special circumstances, such as "frequent renter".
Amount Phone Call	num	12	The total amount of charges for all telephone calls.
Phone Call CCD	char	3	The code identifying the currency of the phone call charges.
Phone Call Exp	num	1	The indicator of the decimal point location in the amount charged for phone calls from the room.

Form Field			
Name	Type	Len	Description
Amount Restau Room Srv	num	12	Restaurant and Room Service Charges - the total amount of all restaurant and room food service charges.
Restau Room Srv CCD	char	3	The code identifying the currency in which the restaurant room service was charged.
Restau RoomSrv Exp	num	1	The indicator of the decimal point location in the amount charged for the restaurant room service.
Amount Bar Mini	num	12	Bar and Mini-Bar Charges - the total amount of all bar and in-room "mini-bar" service charges.
Bar Mini CCD	char	3	Code of the currency in which the mini bar use is charged.
Bar min Exp	num	1	Currency exponent of the mini bar charges.
Amount Giftshop chg	num	12	Total amount of the gift shop charges.
Giftshop Chg CCD	char	3	Currency in which the gift shop purchases are charged.
Giftshop Chg Exp	num	4	The exponent of the currency in which gift shop purchases are charged.
Amount Laundry Chg	num	12	The amount charged for laundry services.
Laundry Chg CCD	char	3	Code of the currency in which the laundry services are charged.
Laundry Chg Exp	num	1	Currency exponent of the laundry service payment currency.
Other Chg CCD	char	3	Currency in which other services are charged.
Other Chg Exp	num	1	Exponent of the other service payment currency.
Amount Other Serv Chg	num	12	The amount charged for "other services".
Other Serv Chg CCD	char	3	The code identifying the currency in which additional services were charged.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Other Serv Chg Exp	num	1	The indicator of the decimal point location in the other service change amount.
Bill Adjust Ind	char	1	Billing Adjustment Indicator - a flag indicating if any additional charges were incurred after the cardholder's departure.
Amount Bill Adjust	num	12	Billing Adjustment Amount - the total amount of the charges added after the departure.
Bill Adjust CCD	char	3	The code identifying the currency of the billing adjustment amount.
Bill Adjust Exp	num	1	The indicator of the decimal point location in the billing adjustment amount.
Lodg No Show Ind	char	1	Lodging No Show Indicator - a flag indicating that the individual did not show up after making reservation for the lodging.
Amount Lodging Xchg	num	12	Lodging Extra Charge Amount - extra charges associated with the vehicle rental.
Lodging Xchg CCD	char	3	The code identifying the currency of the Lodging Extra Charge Amount.
Lodging Xchg Exp	num	1	The indicator of the decimal point location in the Lodging Extra Charge Amount.
Amount Total Tax	num	12	Total taxes paid during the lodging stay.
Total Tax CCD	char	3	The code identifying the currency of the total tax amount.
Total Tax Exp	num	1	The indicator of the decimal point location in the total tax amount.
Amount Prepaid Exp	num	12	Prepaid Expenses Amount - the amount of deposit or other prepaid amounts for the lodging stay.
Prepaid Exp CCD	char	3	The code identifying the currency of the pre-paid expenses.
Prepaid Exp Exp	num	1	The indicator of the decimal point location in the pre-paid expenses amount.
Amount Folio Cash Adv	num	12	The amount of cash received during the lodging stay.
Folio Cash Adv CCD	char	3	The code identifying the currency of the folio cash advance amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Folio Cash Adv Exp	num	1	The indicator of the decimal point location in the folio cash amount.
Amount Food Beverage Chg	num	12	The amount charged for food and beverage during the lodging stay.
Food Beverage Chg CCD	char	3	The code identifying the currency of the amount charged for food and beverage.
Food Beverage Chg Exp	num	1	The indicator of the decimal point location in the food and beverage amount.
Room Night	num	12	The room rate per night
Commodity CD	char	15	Identifier assigned by the card acceptor to categorize the item being purchased in a standardized commodity group.
Tax exempt Ind	char	1	A flag indicating whether or not an entity is exempted from paying taxes.
Amount Total Auth	num	12	The total of all previous authorizations performed for a particular transaction or associated with a single Transaction ID).
Total Auth CCD	char	3	Code identifying the currency of the Total Authorization Amount.
Total Auth Exp	num	1	The decimal point location in the Total Authorization Amount.
Amount Ttlnonroom Tax	num	12	Total amount of taxes for all items not specifically associated with the room rental during the lodging stay.
Ttlnonroom Tax CCD	char	3	Currency code of the non-room tax amount.
Ttlnonroom Tax Exp	num	1	Currency exponent of the non-room tax amount.
Amount Valet Chg	num	12	Charges associated with the use of valet services.
Valet Chg CCD	char	3	Currency code of the valet charges
Valet Chg Exp	num	1	Currency exponent of the valet charges

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Amount Movie Chg	num	12	Amount charged for in-room movies.
Movie Chg CCD	char	3	Currency code of the movie charges.
Movie Chg Exp	num	1	Currency exponent of the movie charges.
Amount Bus Center Chg	num	12	Amount charged for business center use and supplies.
Bus Center CCD	char	3	Currency code of the business center charges.
Bus Center Exp	num	1	Currency exponent of the business center charges
Amount Health Club Chg	num	12	Amount charged for health club use and supplies.
Health Club Chg CCD	char	3	Currency code of the health club charges.
Health Club Chg Exp	num	1	Currency exponent of the health club charges.
Firesafety Act Ind	char	1	Indicator that the facility is in compliance with the Hotel and Motel Fire Safety Act or similar legislation.
TC50 Item Seq Number	num	4	Item Sequence Number in the TC 50 message.
Amount Total Non Room	num	12	Total non-room charges for all items not specifically associated with the room rental during the lodging stay.
Total Non Room CCD	char	3	Currency code of the total non-room charges amount.
Total Non Room Exp	num	1	Currency exponent of the total non-room charges amount.
Total Tax Coll Ind	char	1	Total Tax Collected Indicator - an indicator used to reflect sales tax capture and reporting.
Dtax1 Ind	char	1	Tax 1 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax1	num	12	Tax 1 Amount - the amount on the purchased service.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax1 CCD	char	3	Tax 1 Currency Code - the code identifying the currency of the tax amount.
Dtax1 Exp	num	1	Tax 1 Exponent - the indicator of the decimal point location in the tax amount.
Dtax1 Rate	num	5	Tax 1 Rate - the rate applied in relationship to the specific tax amount.
Dtax1 Rate Exp	num	1	Tax 1 Rate Exponent - indicator of the decimal location for the Tax Rate 1.
Dtax1 Applied Type	char	4	Tax 1 Applied Type - indicator used to further define tax categories.
Dtax1 Type Ind	char	2	Tax 1 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax1ID	char	20	Card Acceptor Tax ID 1 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Dtax2 Ind	char	1	Tax 2 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax2	num	12	Tax 2 Amount - the amount on the purchased service.
DTax2 CCD	char	3	Tax 2 Currency Code - the code identifying the currency of the tax amount.
Dtax2 Exp	num	1	Tax 2 Exponent - the indicator of the decimal point location in the tax amount.
Dtax2 Rate	num	5	Tax 2 Rate - the rate applied in relationship to the specific tax amount.
Dtax2 Rate Exp	num	1	Tax 2 Rate Exponent - indicator of the decimal location for the Tax Rate 2.
Dtax2 Applied Type	char	4	Tax 2 Applied Type - indicator used to further define tax categories.
Dtax2 Type Ind	char	2	Tax 2 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax2ID	char	20	Card Acceptor Tax ID 2 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3ID	char	20	Card Acceptor Tax ID 3 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Crd Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax6 Ind	char	1	Tax 6 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax6	num	12	Tax 6 Amount - the amount on the purchased service.
DTax6 CCD	char	3	The code identifying the currency of the tax amount.
DTax6 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax6 Rate	num	5	Tax 6 Rate - the rate applied in relationship to the specific tax amount.
DTax6 Rate Exp	num	1	Tax 6 Rate Exponent - indicator of the decimal location for the Tax Rate 6.
DTax6 Applied Type	char	4	Tax 6 Applied Type - indicator used to further define tax categories.
DTax6 Type ID	char	2	Tax 6 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.

Form Field			
Name	Type	Len	Description
Crd Accept Tax6 ID	char	20	Card Acceptor Tax ID 6 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Customer CD	char	17	A code supplied by the cardholder to the merchant.
Carrier CD	char	2	Standard abbreviation of the carrier providing the service.
Flight Number	char	5	Flight Number
Amount Total Roomchg	num	12	Total non-room changed amount
Total Roomchg CCD	char	3	Currency code in which the non-room amount is charged
Total Roomchg Exp	num	1	Currency Exponent Code in which the non-room amount is charged
Amount Total Crcard	num	12	Total Amount charged for Credit Card
Total Crcard CCD	char	3	Currency Code of Credit Card Charges
Total Crcard Exp	num	1	Currency Exponent of Credit Card Charges
Amount Room Srv	num	12	Amount Paid for Room Service Charges
Room Srv CCD	char	3	Currency Code of Room Service Charges
Room Srv Exp	num	1	Currency Exponent of Room Service Charges
Amount Transport Chg	num	12	Amount Paid for Transportation Charges
Transport Chg CCD	char	3	Currency Code of Transportation Charges
Transport Chg Exp	num	1	Currency Exponent of Transportation Charges

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Amount Loungebar Chg	num	12	Amount for Lounger/Bar Charges
Loungebar Chg CCD	char	3	Currency Code of Lounger/Bar Charges
Loungebar Chg Exp	num	1	Currency Exponent of Lounger/Bar Charges
Amount Gratuity Chg	num	12	Amount for gratuity charges
Gratuity Chg CCD	char	3	Currency Code of gratuity charges
Gratuity Chg Exp	num	1	Currency Exponent of gratuity charges
Amount Confroom Chg	num	12	Amount for Conference Room Charges
Confroom Chg CCD	char	3	Currency Code of Conference Room Charges
Confroom Chg Exp	num	1	Currency Export of Conference Room Charges
Amount Audiovis Chg	num	12	Amount for Audio visual charges
Audiovis Chg CCD	char	3	Currency Code of Audio visual charges
Audiovis Chg Exp	num	1	Currency Exponent of Audio Visual Charges
Amount Banquet Chg	num	12	Total Amount Of Banquet Charges
Banquet Chg CCD	char	3	Currency Code charged for Banquet
Banquet Chg Exp	num	1	Currency Exponent of Banquet charges
Amount Internet Chg	num	12	Total Amount changed for Internet Access
Internet Chg CCD	char	3	Currency code of Internet Access Charges

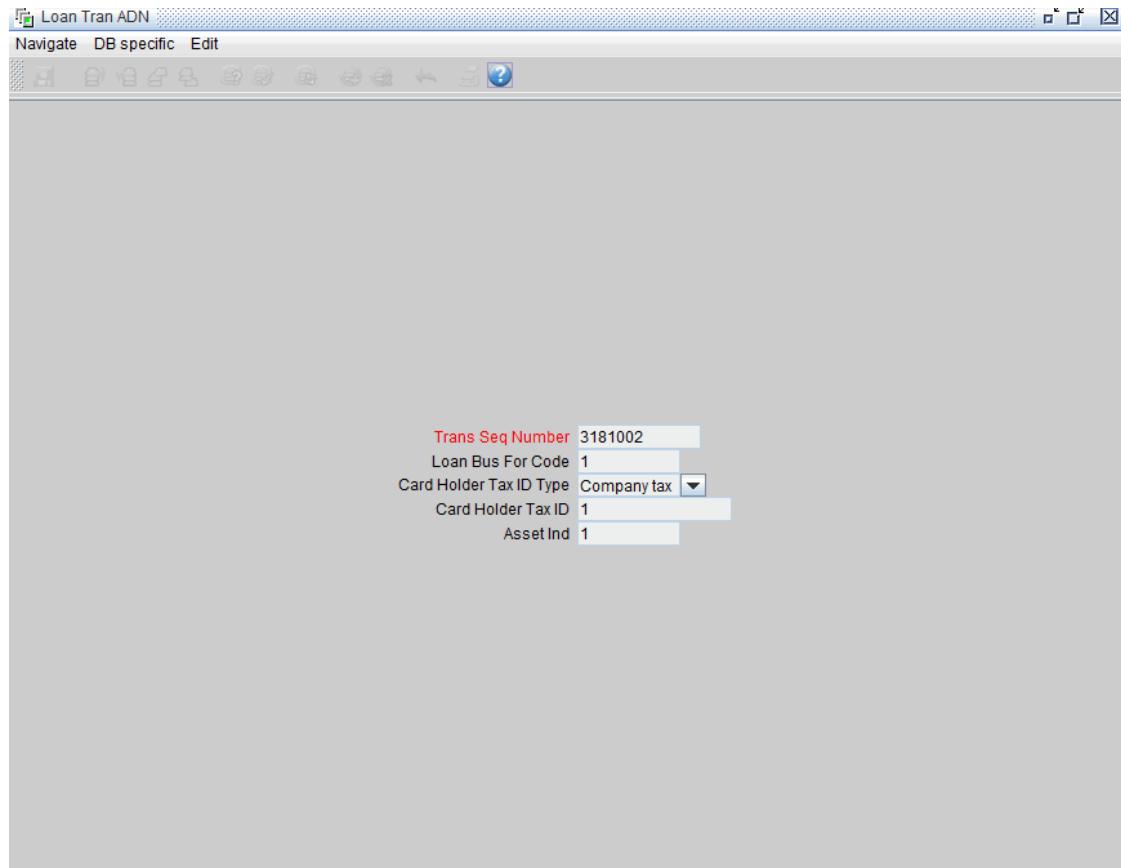
Form Field			
Name	Type	Len	Description
Internet Chg Exp	num	1	Currency Exponent of Inter Access Charges
Amount Earlydep Chg	num	12	Amount of Early Departure charges
Earlydep Chg CCD	char	3	Currency Code of Early Departure Charges
Earlydep Chg Exp	num	1	Currency Exponent of Early Departure Charges
Guest Name	char	40	Guest Name
Guest Number	char	25	Guest Number

## Loan Transaction Addendum

**Type:** Inquiry.

**Underlying Table:** LOAN\_TRAN\_ADN

Use this form to monitor loan transaction addendum records.



The screenshot shows a software application window titled "Loan Tran ADN". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. Below the title bar is a toolbar with several icons. The main area of the window is a large, empty space with a light gray background. In the bottom-left corner of this area, there is a small green rectangular box containing the text "Copyright© 2014 FIS".

Figure 24 Loan Transaction Addendum Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Load Tran Adn**

The form opens by default in the [Query Mode](#).



## Loan Transaction Addendum Form Fields

Form Field Name	Type	Len	Description
Tans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Loan Bus For Code	char	2	Default value is LD.
Card Holder Tax ID Type	Varch ar2	4	Holds cardholder tax ID type data. The valid values for Brazil domestic transactions are: <ul style="list-style-type: none"><li>● CNPJ - Company tax</li><li>● CPF - Consumer tax</li></ul>
Card Holder Tax ID Type	Varch ar2	15	Holds cardholder tax ID data.
Asset Ind	char	1	Holds asset indicator data.
Loan Type	Varch ar2	20	Holds loan type value.
Loan Merch Prog Id	Varch ar2	6	Holds merchant program identifier data. The field must contain the value BNDES for Brazil domestic transactions when the product ID is S6 (Visa Commercial Marketplace/Visa BNDES).

## Fleet Service Addendum

Type: Inquiry

**Underlying Table:** FLEET\_SERV\_ADN.

Use this form to monitor fleet service transaction addendum records.

The screenshot shows a software interface for the FLEET\_SERV\_ADN table. The left side displays a grid of transaction fields, and the right side shows validation results for each field. The validation results include descriptions like 'Fuel Txn validation results' and specific error codes such as 'Exp Non Fuel Prod Cost1' through 'Exp Non Fuel Prod Cost8'.

Trans Seq Number	7167262	Amount Discount	Dtax3 Exp	Fuel Brand	Wheeler Acc Avb
Purchase Type	1	Discount CCD	Dtax3 Rate	Fuel Txn validation results	Diesel Sites Avb
Fuel Type	12	Discount Exp	Dtax3 Rate Exp	Fuel Acceptance Mode	Interstate Access
Unit Of Measure	L	Amount Total Tax	Card Scheme	Job Number	Conv Store Avb
Quantity	500	Total Tax CCD	Dtax3 Applied Type	Fleet Number	Truckstop Rest Avr
Quantity Exp		Total Tax Exp	Dtax3 Type Id	Tax9 Type Id	Truckstop Hotel Avr
Unit Cost	6500	Total Tax Coll Ind	Crd Accept TaxId	Crd Accept Tax Id	Truckstop Shwr Avr
Amount Gross Fuel	6500	Purchase Time	Dtax4 Ind	Tax10 Ind	Veh Maint Rep Bay
Gross Fuel CCD	840	Commodity CD	Amount Dtax4	Amount Tax10	Car Wash Avb
Gross Fuel Exp	2	TC50 Item Seq Number	Dtax4 CCD	Tax10 CCD	Aviation Loc Avb
Amount Net Fuel	0	TC50 Total Item Count	Dtax4 Rate	Tax10 Exp	Marina Loc Avb
Net Fuel CCD	840	Amount Tax1	Dtax4 Applied Type	Tax10 Rate	Alt Fuel Loc Avb
Net Fuel Exp	2	Tax1 CCD	Dtax4 Type Id	Tax10 Rate Exp	Exp Fuel Type
Amount Gross Non Fuel	0	Tax1 Exp	Crd Accept TaxId	Tax10 Applied Type	Prod Qualifier
Gross Non Fuel CCD	840	Amount Tax2	Dtax5 Ind	Tax10 Type Id	Exp Non Fuel Prod Code1
Gross Non Fuel Exp	2	Tax2 CCD	Amount Dtax5	Crd Accept TaxId Old	Exp Non Fuel Prod Quantity1
Amount Net Non Fuel	0	Tax2 Exp	Dtax5 CCD	Tax11 Ind	Exp Non Fuel Prod Unit Cost1
Net Non Fuel CCD	840	Tax Exempt Ind	Dtax5 Rate	Amount Tax11	Exp Non Fuel Prod Code2
Net Non Fuel Exp	2	Dtax1 Ind	Dtax5 Rate Exp	Tax11 CCD	Exp Non Fuel Prod Quantity2
Odometer Reading	3215100	Amount Dtax1	Dtax5 Applied Type	Tax11 Exp	Exp Non Fuel Prod Unit Cost2
Tax Rate	1100	Dtax1 CCD	Dtax5 Type Id	Tax11 rate	Exp Non Fuel Prod Code3
Tax Rate Exp	2	Dtax1 Exp	Crd Accept TaxId	Tax11 Rate Exp	Exp Non Fuel Prod Quantity3
Amount M Fuel Tax	200	Dtax1 Rate	Dtax6 Ind	Tax11 Applied Type	Exp Non Fuel Prod Unit Cost3
M Fuel Tax CCD	840	Dtax1 Rate Exp	Amount Dtax6	Tax11 Type Id	Exp Non Fuel Prod Code4
M Fuel Tax Exp	2	Dtax1 Applied Type	Dtax6 CCD	Crd Accept TaxId 1d	Exp Non Fuel Prod Quantity4
M Non Fuel Tax CCD	040	Dtax1 type Id	Dtax6 Exp	Tax12 Ind	Exp Non Fuel Prod Unit Cost4
M Non Fuel Tax Exp	2	Crd Accept Tax Id	Dtax6 Rate	Amount Tax12	Exp Non Fuel Prod Code5
Service Type	F	Dtax2 Ind	Dtax6 Rate Exp	Tax12 CCD	Exp Non Fuel Prod Quantity5
M Non Fuel Tax Exs	0	Amount Dtax2	Dtax6 Applied Type	Tax12 Exp	Exp Non Fuel Prod Unit Cost5
Fleet Bus Fmt CD	FL	Dtax2 CCD	Dtax6 Type Id	Tax12 Rate	Exp Non Fuel Prod Code6
Oil CO Brand Name		Dtax2 Rate	Crd Accept TaxId	Tax12 Rate Exp	Exp Non Fuel Prod Quantity6
Amount Fuel Sale		Dtax2 Rate Exp	Tax9 Ind	Tax12 Applied Type	Exp Non Fuel Prod Unit Cost6
Fuel Sale CCD		Dtax2 Applied Type	Crd Accept TaxId	Tax12 Type Id	Exp Non Fuel Prod Code7
Fuel Sale Exp		Dtax2 Type Id	Amount Tax9	Crd Accept Tax Id 2d	Exp Non Fuel Prod Quantity7
Vehicle Number		Crd Accept Tax2Id	Tax9 CCD	Merch Address	Exp Non Fuel Prod Unit Cost7
Drive Id Number		Dtax2 Ind	Tax9 Exp	Merch Post CD Zip	Exp Non Fuel Prod Code8
Product Type CD		Amount Dtax3	Tax9 Rate	Hours Of Operation	Exp Non Fuel Prod Quantity8
		Dtax3 CCD	Tax9 Rate Exp	Pay At Pump Avb	Exp Non Fuel Prod Unit Costs8
			Tax9 Applied Type		

Figure 25 Fleet Service Addendum Form



## Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Fleet Service**

The form opens by default in the [Query Mode](#).

## Fleet Service Addendum Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Purchase Type	char	1	The flag indicating whether the transaction covers fuel and /or non-fuel elements.
Fuel Type	char	2	The code identifying the type and grade of fuel purchased.
Unit of Measure	char	1	Motor Fuel Unit of Measure - the indicator of the unit used to measure the motor fuel. E.g. "L" for liter.
Quantity	num	6	Motor Fuel Quantity - the quantity of the purchased motor fuel.
Quantity Exp	num	1	Motor Fuel Quantity Exponent - the code indicating the decimal point location in the quantity amount.
Unit Cost	num	12	The price of the motor fuel per unit. E.g. the price of fuel per liter.
Amt Gross Fuel	num	12	The total price of fuel purchases only.
Gross Fuel CCD	char	3	The code identifying the currency of the gross fuel amount.
Gross Fuel Exp	num	1	The indicator of the decimal point location in the gross fuel tax amount.
Amount Net Fuel	num	12	The gross fuel price excluding any taxes.
Net Fuel CCD	char	3	The code identifying the currency of the net fuel amount.
Net Fuel Exp	num	1	The indicator of the decimal point location in the non fuel amount.
Amount Gross Non Fuel	num	12	The gross amount of non-fuel purchases.
Gross Non Fuel CCD	char	3	The code identifying the currency of the gross non-fuel amount.

Form Field Name	Type	Len	Description
Gross Non Fuel Exp	num	1	The indicator of the decimal point location in the gross non fuel amount.
Amount Net Non Fuel	num	12	The gross non-fuel amount excluding taxes.
Net Non Fuel CCD	char	3	The code identifying the currency of the net non-fuel amount.
Net Non Fuel Exp	num	1	The indicator of the decimal point location in the net non-fuel amount.
Odometer Reading	char	7	The reading of the vehicle, marine, or aircraft odometer at the time of the purchase, as entered by the purchaser.
Tax Rate	num	4	The rate of tax applied to calculate the tax amount of the line item.
Tax Rate Exp	num	1	The indicator of the decimal point location in the tax amount.
Amount M Fuel Tax	num	12	The amount of tax applied to the motor fuel charge.
M Fuel Tax CCD	char	3	The code identifying the currency of the motor fuel tax amount.
M Fuel Tax Exp	num	1	The indicator of the decimal point location in the motor fuel tax amount.
Amount M Non Fuel Tax	num	12	Amount of tax charged for non-fuel transactions.
M Non Fuel Tax CCD	char	3	The code identifying the currency of the non-fuel tax amount.
M Non Fuel Tax Exp	num	1	The indicator of the decimal point location in the non fuel amount.
Service Type	char	1	A code indicating the type of motor fuel service received at the card acceptor site. E.g. 1 = Self service; 2 = full service, etc.
M Fuel Tax Exs	char	1	Motor Fuel Tax Exempt - the flag indicating if the motor fuel charges were tax exempt.
M Non Fuel Tax Exs	char	1	Non-Motor Fuel Tax Exempt - the flag indicating if the non-motor fuel charges were tax exempt.
Fleet Bus Fmt CD	char	2	Fleet Business Format - a code indicating the business format of the fleet. E.g. vehicle fleet, marine fleet, etc.
Oil Co Brand Name	char	9	The code indicating the card acceptor oil company brand name. E.g. "Shell", "Petro Canada", etc.

Form Field			
Name	Type	Len	Description
Amount Fuel Sale	num	12	Motor Fuel Sale Amount
Fuel Sale CCD	char	3	The code identifying the currency of the fuel sale amount.
Fuel Sale Exp	num	1	The indicator of the decimal point location in the fuel sale amount.
Vehicle Number	char	17	The number assigned to the vehicle by the business using the fleet services.
Driver Id Number	char	20	The number assigned to the driver by the business using the fleet services.
Product Type CD	char	1	The code read from the card magnetic stripe indicating prompts that occur at the point of sale.
Amount Discount	num	12	The discount or coupon amount.
Discount CCD	char	3	The code identifying the currency of the discount amount.
Discount Exp	num	1	The indicator of the decimal point location in the discount amount.
Amount Total Tax	num	12	The total tax amount for the purchased item.
Total Tax CCD	char	3	The code identifying the currency of the tax amount.
Total Tax Exp	num	1	The indicator of the decimal point location in the tax amount.
Total Tax Coll Ind	char	1	Total tax collection indicator.
Purchase Time	num	4	The time the purchase was made.
Commodity CD	char	15	Identifier, assigned by the card acceptor, that best categorizes the goods or services offered in a standardized commodity group.
TC50 Item Seq Number	num	4	Item Sequence Number in the TC 50 message.
TC50 Total Item Count	num	4	Total item count in the TC 50 message
Amount Tax1	num	12	The tax amount for tax exempt fleets.

Form Field Name	Type	Len	Description
Tax1 CCD	char	3	The code identifying the currency of the tax amount.
Tax1 Exp	num	1	The indicator of the decimal point location in the tax amount.
Amount Tax2	num	1	The tax amount for tax exempt fleets.
Tax2 CCD	char	3	The code identifying the currency of the tax amount.
Tax2 Exp	num	1	The indicator of the decimal point location in the tax amount.
Tax Exempt Ind	char	1	A flag indicating whether or not an entity is exempted from paying taxes.
Dtax1 Ind	char	1	Tax 1 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax1	num	12	Tax 1 Amount - the amount on the purchased service.
DTax1 CCD	char	3	Tax 1 Currency Code - the code identifying the currency of the tax amount.
Dtax1 Exp	num	1	Tax 1 Exponent - the indicator of the decimal point location in the tax amount.
Dtax1 Rate	num	5	Tax 1 Rate - the rate applied in relationship to the specific tax amount.
Dtax1 Rate Exp	num	1	Tax 1 Rate Exponent - indicator of the decimal location for the Tax Rate 1.
Dtax1 Applied Type	char	4	Tax 1 Applied Type - indicator used to further define tax categories.
Dtax1 Type Ind	char	2	Tax 1 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax1ID	char	20	Card Acceptor Tax ID 1 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Dtax2 Ind	char	1	Tax 2 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax2	num	12	Tax 2 Amount - the amount on the purchased service.
DTax2 CCD	char	3	Tax 2 Currency Code - the code identifying the currency of the tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Dtax2 Exp	num	1	Tax 2 Exponent - the indicator of the decimal point location in the tax amount.
Dtax2 Rate	num	5	Tax 2 Rate - the rate applied in relationship to the specific tax amount.
Dtax2 Rate Exp	num	1	Tax 2 Rate Exponent - indicator of the decimal location for the Tax Rate 2.
Dtax2 Applied Type	char	4	Tax 2 Applied Type - indicator used to further define tax categories.
Dtax2 Type Ind	char	2	Tax 2 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax2ID	char	20	Card Acceptor Tax ID 2 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3ID	char	20	Card Acceptor Tax ID 3 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.

Form Field Name	Type	Len	Description
DAmount Tax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax6 Ind	char	1	Tax 6 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DAmount Tax6	num	12	Tax 6 Amount - the amount on the purchased service.
DTax6 CCD	char	3	The code identifying the currency of the tax amount.
DTax6 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax6 Rate	num	5	Tax 6 Rate - the rate applied in relationship to the specific tax amount.
DTax6 Rate Exp	num	1	Tax 6 Rate Exponent - indicator of the decimal location for the Tax Rate 6.
DTax6 Applied Type	char	4	Tax 6 Applied Type - indicator used to further define tax categories.
DTax6 Type ID	char	2	Tax 6 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax6 ID	char	20	Card Acceptor Tax ID 6 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Tax9 Ind	char	1	Tax 9 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Tax9	num	12	Tax 9 Amount - the amount on the purchased service.
Tax9 CCD	char	3	The code identifying the currency of the tax amount.
Tax9 Exp	num	1	The indicator of the decimal point location in the tax amount.
Tax9 Rate	num	5	Tax 9 Rate - the rate applied in relationship to the specific tax amount.
Tax9 Rate Exp	num	1	Tax 9 Rate Exponent - indicator of the decimal location for the Tax Rate 9.
Tax9 Applied Type	char	4	Tax 9 Applied Type - indicator used to further define tax categories.
Tax9 Type ID	char	2	Tax 9 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax9 ID	char	20	Card Acceptor Tax ID 9 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Tax10 Ind	char	1	Tax 10 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Amount Tax10	num	12	Tax 10 Amount - the amount on the purchased service.
Tax10 CCD	char	3	The code identifying the currency of the tax amount.
Tax10 Exp	num	1	The indicator of the decimal point location in the tax amount.
Tax10 Rate	num	5	Tax 10 Rate - the rate applied in relationship to the specific tax amount.
Tax10 Rate Exp	num	1	Tax 10 Rate Exponent - indicator of the decimal location for the Tax Rate 10.
Tax10 Applied Type	char	4	Tax 10 Applied Type - indicator used to further define tax categories.
Tax10 Type ID	char	2	Tax 10 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax10 ID	char	20	Card Acceptor Tax ID 10 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Tax11 Ind	char	1	Tax 11 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Tax11	num	12	Tax 11 Amount - the amount on the purchased service.
Tax11 CCD	char	3	The code identifying the currency of the tax amount.
Tax11 Exp	num	1	The indicator of the decimal point location in the tax amount.
Tax11 Rate	num	5	Tax 11 Rate - the rate applied in relationship to the specific tax amount.
Tax11 Rate Exp	num	1	Tax 11 Rate Exponent - indicator of the decimal location for the Tax Rate 10.
Tax11 Applied Type	char	4	Tax 11 Applied Type - indicator used to further define tax categories.
Tax11 Type ID	char	2	Tax 11 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax11 ID	char	20	Card Acceptor Tax ID 11 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Tax12 Ind	char	1	Tax 12 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.

Form Field Name	Type	Len	Description
Amount Tax12	num	12	Tax 12 Amount - the amount on the purchased service.
Tax12 CCD	char	3	The code identifying the currency of the tax amount.
Tax12 Exp	num	1	The indicator of the decimal point location in the tax amount.
Tax12 Rate	num	5	Tax 12 Rate - the rate applied in relationship to the specific tax amount.
Tax12 Rate Exp	num	1	Tax 12 Rate Exponent - indicator of the decimal location for the Tax Rate 10.
Tax12 Applied Type	char	4	Tax 12 Applied Type - indicator used to further define tax categories.
Tax12 Type ID	char	2	Tax 12 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax12 ID	char	20	Card Acceptor Tax ID 12 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Merch Address	char	40	The first line of the address of the merchant who acquired the transaction. It contains the street name and number.
Merch Post CD Zip	char	20	The postal, or ZIP, code of the merchant address.
Hours of Operation	char	1	Hours of Operation
Wheeler Acc Avb	char	1	Wheel Access Available
Diesel Sites Avb	char	1	Diesel Site Available
Interstate Access	char	1	Interstate access/Exit number with direction available
Conv Store Avb	char	1	Convenience Store Available
Truckstop Rest Av	char	1	Truck Shop restaurant Available
Truckstop Hotel Av	char	1	Truck Shop hotel available
Truckstop Shwr Av	char	1	Truck shop with showers available

Form Field			
Name	Type	Len	Description
Veh Maint Rep Bay	char	1	Vehicle Maintenance/Repair Bays Available
Car Wash Avb	char	1	Car Wash Available
Aviation Loc Avb	char	1	Aviation location available
Marina Loc Avb	char	1	Marina Location Available
Alt Fuel Loc Avb	char	1	Alternative Fuel location Available
Pay at Pump Avb	char	1	Pay At Pump Available
Fuel Brand	var char2	4	Contains the fuel brand
Fuel Txn Validation Results	var char2	5	Contains the fuel transaction validation results
Fuel Acceptance Mode	char	1	Contains the fuel acceptance mode
Job Number	var char2	10	Contains the job number
Fleet Number	var char2	8	Contains the fleet number
Exp Fuel Type	var char2	4	Contains the expanded fuel type.
Prod Qualifier	var char2	6	Contains the product qualifier.
Exp Non Fuel Prodcode1	var char2	4	Contains the expanded non-fuel product code 1.
Exp Non Fuel Prod Quant1	num	4	Contains the expanded non-fuel product code 1 quantity.
Exp Non Fuel Prod Unitcost1	num	12	Contains the expanded non-fuel product code 1 unit cost.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Exp Non Fuel Prodcode2	var char2	4	Contains the expanded non-fuel product code 2.
Exp Non Fuel Prod Quant2	num	4	Contains the expanded non-fuel product code 2 quantity.
Exp Non Fuel Prod Unitcost2	num	12	Contains the expanded non-fuel product code 2 unit cost.
Exp Non Fuel Prodcode3	var char2	4	Contains the expanded non-fuel product code 3.
Exp Non Fuel Prod Quant3	num	4	Contains the expanded non-fuel product code 3 quantity.
Exp Non Fuel Prod Unitcost3	num	12	Contains the expanded non-fuel product code 3 unit cost.
Exp Non Fuel Prodcode4	var char2	4	Contains the expanded non-fuel product code 4.
Exp Non Fuel Prod Quant4	num	4	Contains the expanded non-fuel product code 4 quantity.
Exp Non Fuel Prod Unitcost4	num	12	Contains the expanded non-fuel product code 4 unit cost.
Exp Non Fuel Prodcode5	var char2	4	Contains the expanded non-fuel product code 5.
Exp Non Fuel Prod Quant5	number	4	Contains the expanded non-fuel product code 5 quantity.
Exp Non Fuel Prod Unitcost5	num	12	Contains the expanded non-fuel product code 5 unit cost.
Exp Non Fuel Prodcode6	var char2	4	Contains the expanded non-fuel product code 6.
Exp Non Fuel Prod Quant6	num	4	Contains the expanded non-fuel product code 6 quantity.
Exp Non Fuel Prod Unitcost6	num	12	Contains the expanded non-fuel product code 6 unit cost.
Exp Non Fuel Prodcode7	var char2	4	Contains the expanded non-fuel product code 7.

Form Field			
Name	Type	Len	Description
Exp Non Fuel Prod Quant7	num	4	Contains the expanded non-fuel product code 7 quantity.
Exp Non Fuel Prod Unitcost7	num	12	Contains the expanded non-fuel product code 7 unit cost.
Exp Non Fuel Prodcode8	var char2	4	Contains the expanded non-fuel product code 8.
Exp Non Fuel Prod Quant8	num	4	Contains the expanded non-fuel product code 8 quantity.
Exp Non Fuel Prod Unitcost8	num	12	Contains the expanded non-fuel product code 8 unit cost.

## Restaurant Addendum

**Type:** Inquiry.

**Underlying Table:** RESTAURANT\_AND.

This form displays the contents of the RESTAURANT\_AND table with all the logged details concerning the given transactions.

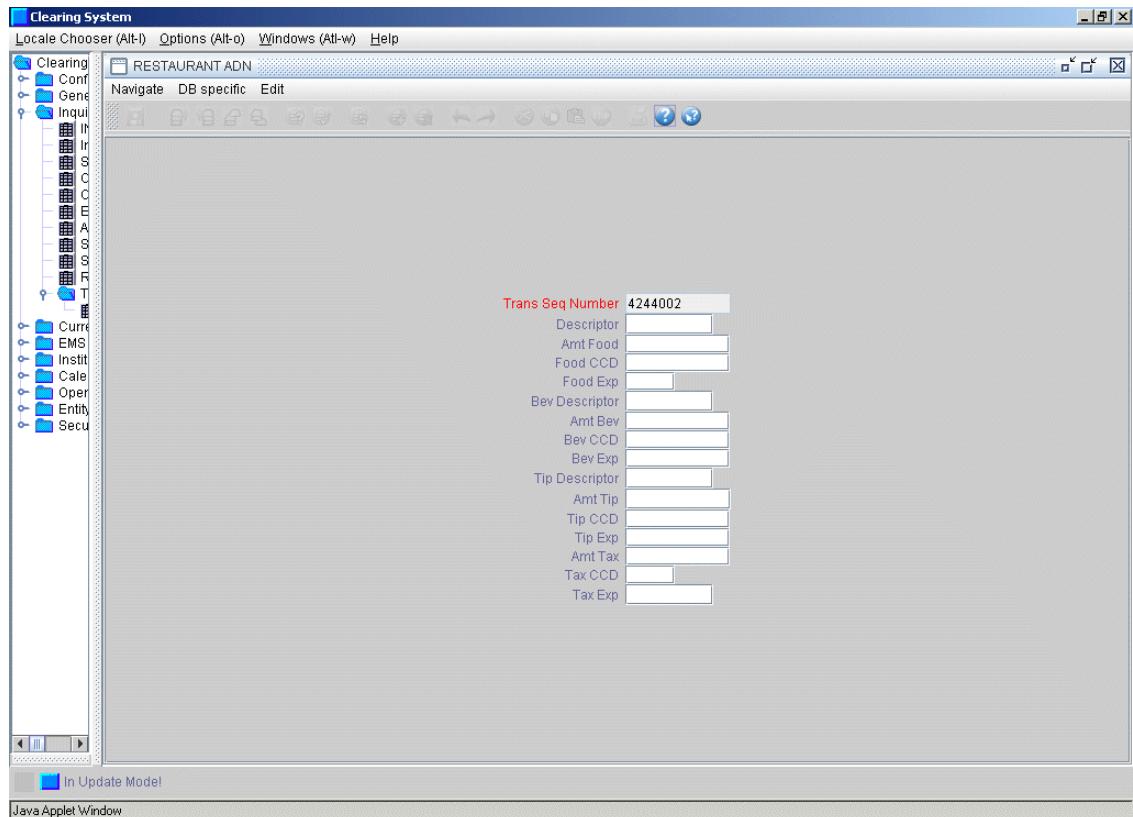


Figure 26 Restaurant Addendum Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > In Draft Main > **Restaurant ADN**.

The form opens by default in the [Query Mode](#).

### Restaurant Addendum Form Fields

Form Field			
Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Descriptor	char	8	The descriptor of the transaction.
Amount Food	num	12	The amount paid for food.
Food CCD	char	3	Code identifying the currency in which the food amount was paid.
Food Exp	num	1	The decimal point location in the food amount currency.

Form Field Name	Type	Len	Description
Bev Descriptor	char	8	The descriptor of beverages.
Amt Bev	num	12	The amount paid for beverages.
Bev CCD	char	3	Code identifying the currency in which the beverage amount was paid.
Bev Exp	num	1	The decimal point location in the beverage amount.
Tip Descriptor	char	8	The descriptor of the tip.
Amt Tip	num	12	The amount paid as tip.
Tip CCD	char	3	Code identifying the currency of the tip amount.
Tip Exp	num	1	The decimal point location in the tip amount.
Amt Tax	num	12	The amount paid as tax.
Tax CCD	char	3	Code identifying the currency of the tax amount.
Tax Exp	num	1	The decimal point location in the tax amount.

## Passenger Transport Trip

**Type:** Inquiry.

**Underlying Table:** PASSEN\_TRAN\_TRIP.

Use this form to get full trip detail concerning passenger transportation transactions.

**Clearing System**

Locale Chooser (Alt-l) Options (Alt-o) Windows (Alt-w) Help

PASSEN TRAN TRIP

Clearing Conf Gene Inqui Curr EMS Instit Cale Oper Entity Secu

Navigate DB specific Edit

Trans Seq Number: 4244002  
 Trip Leg Key: 0  
 Carrier CD: 4U  
 Flight Nbr:  
 Departure DT: 4, 2005  
 Departure Time Seg:  
 Arrival DT:  
 Arrival Time Seg:  
 Origin City Ap CD: HEL  
 Dest City Ap CD: CGN  
 Service Class CD: B  
 Fare Basis CD: 257HEL  
 Stop Over CD: O  
 Conjunction TKT:

Exchange TKT:  
 Amt Fare TKT Leg:  
 Fare TKT Leg CCD:  
 Fare TKT Leg Exp:  
 Amt Fee TKT Leg:  
 Fee TKT Leg CCD:  
 Fee TKT Exp:  
 Amt Tax TKT Leg:  
 Tax TKT CCD:  
 Tax TKT Exp:  
 Coupon Nbr:  
 Endorse Restrict:  
 Tc50 Item Seq Nbr:  
 Tc50 TotalItem Cnt:

In Update Model

Java Applet Window

Figure 27 Passenger Transport Trip Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > In Draft Main > **Passen Tran Trip**

The form opens by default in the [Query Mode](#).

### Passen Tran Trip Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Trip Leg Key	num	2	The key of the trip leg.
Carrier CD	char	2	Standard abbreviation of the carrier providing the service.
Flight Nbr	char	5	Flight number assigned by the operating or marketing carrier.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Departure DT	date		The effective ticket date. It can contain either: • the actual travel date for each trip leg, or • the date of the first trip leg repeated in each subsequent addendum record
Departure Time Seg	char	4	Departure Time Segment—an indicator of departure time (e.g. "A" for a.m. hours, and "P" for p.m. hours).
Arrival DT	date		The date on which the passenger arrived at the destination of the trip.
Arrival Time Seg.	char	4	Arrival Time Segment—an indicator of departure time (e.g. "A" for a.m. hours, and "P" for p.m. hours).
Origin City Ap CD	char	5	Origin City Airport Code—the standard abbreviation of the airport (or railway name) of the city of origin.
Dest City Ap CD	char	5	Destination City Airport Code—the standard abbreviation of the airport (or railway name) of the destination city.
Service Class CD	char	2	The code indicating the service type. E.g. first class.
Fare Basis CD	char	15	The alphanumeric code that carriers assign to a particular ticket type. E.g. non-refundable.
Stop Over CD	char	1	A code indicating a non-direct flight on the same ticket number.
Conjunction Tkt	char	15	Ticket that contains additional coupons on an itinerary of more than four segments.
Exchange TKT	char	15	Original ticket number replaced by the new ticket number.
Amt Fare TKT Leg	num	12	Amount of the ticket per trip leg.
Fare TKT Leg CCD	char	3	Currency code of the fare charged for this trip leg of the ticket.
Fare TKT Leg Exp	num	1	Decimal point location in the amount charged for this trip leg of the ticket.
Amt Fee TKT Leg	char	12	The amount charged for fees associated with the ticket per trip leg.
Fee TKT Leg CCD	char	3	Code identifying the currency of the Ticket Leg Fee charges.
Fee TKT Exp	num	1	Decimal point location in the Ticket Leg Fee amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Amt Tax TKT Leg	num	12	The amount charged for taxes associated with the ticket per trip leg.
Tax TKT CCD	char	3	Code identifying the currency of the Ticket Leg Tax charges.
Tax TKT Exp	num	1	Decimal point location in the Ticket Leg Tax amount.
Coupon Nbr	char	1	Coupon Number of the ticket. A ticket can contain several legs of travel, each of which requires a separate coupon. Each coupon within the series is identified by a coupon number.
Endorse Restrict	char	20	Endorsements and restrictions on the ticket. Endorsements can be notations added by agencies, or mandatory government required notations (e. g. VAT). Restrictions are limitations set on a ticket based on the type of fare (e. g. non-refundable).
TC 50 Item Seq Nbr	num	4	Item Sequence Number in the TC 50 message.
TC 50 Total Item Count	num	4	Total item count in the TC 50 message

## Passenger Transport Addendum

**Type:** Inquiry.

**Underlying Table:** PASSEN\_TRAN\_ADN.

Use this form to get full details concerning Passenger transportation transactions.

The screenshot shows the 'PASSEN TRAN ADN' inquiry form. The top navigation bar includes 'Navigate', 'DB specific', and 'Edit'. The main area contains several groups of input fields:

- Left Column Fields:** Trans Seq Number (3181002), Passen Bus Fmt CD (AI), Issue Date, Customer CD, Passenger Name (PASSEI), Computer RSV Sys, Travel Agency CD (00000000), Travel Agency Name (000000000000), Restricted TKT IND (0), Issuing Carrier CD, Amt Total Fare, Total Fare CCD, Total Fare Exp, Amt Total Fees, Total Fees CCD, Total Fees Exp, Amt Total Taxes, Total Taxes CCD, Total Taxes Exp, Coupon Nbr, Ticket ID, Carrier Name, Airline Trans Type, Issuer City, Nbr In Party, Misc Doc Type, Credit Reason Ind, Passenger Anc Bus For Code, Ticket Change Ind, and Anc Ticket ID.
- Middle Column Fields:** Doc Nbr, Route Desc, Extended Pay CD, Commodity CD, DTax3 Ind, Amt DTax3, DTax3 CCD, DTax3 Exp, DTax3 Rate, DTax3 Rate Exp, DTax3 Applied Type, DTax3 Type ID, Crd Accept Tax3 ID, DTax4 Ind, Amt DTax4, DTax4 CCD, DTax4 Exp, DTax4 Rate, DTax4 Rate Exp, DTax4 Applied Type, DTax4 Type ID, Crd Accept Tax4 ID, DTax5 Ind, Amt DTax5, DTax5 CCD, Anc Service Cat1, Anc Service Cat2, Anc Service Cat3, Anc Service Cat4, Anc Passenger Name, and Anc Credit Reason Ind.
- Right Column Fields:** DTax5 Exp, DTax5 Rate, DTax5 Rate Exp, DTax5 Applied Type, DTax5 Type ID, Crd Accept Tax5 ID, Tax Exempt Ind, Amt Exchange TKT, Exchange TKT CCD, Exchange TKT Exp, Amt Exchange Fee, Exchange Fee CCD, Exchange Fee Exp, Travel Auth CD, Iata Client CD, Tc50 Item Seq Nbr, Tc50 TotalItem Cnt, Control ID, Amt Natl Tax, Natl Tax CCD, Natl Tax Exp, Exchange TKT ID, E TKT ID, Internet Ind, Card Schema, Anc Sub Service Cat3, Anc Service Cat4, Anc Sub Service Cat4, Anc Sub Service Cat5, Anc Passenger Name, and Anc Add Ticket ID.

Figure 28 Passen Tran Adn Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Passen Tran ADN**

The form opens by default in the [Query Mode](#).

## Passen Tran ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Passen Bus Fmt CD	char	2	Passenger Business Format Code—the code identifying the business format.
Issue Date	date		The date the ticket was issued to the customer.
Customer CD	char	17	A code supplied by the cardholder to the merchant.
Passenger Name	char	30	Name of the person to whom the ticket is issued.
Computer RSV Sys	char	4	Computerized Reservation System code. E.g. PARS = TWA.
Travel Agency CD	char	8	Code identifying the travel agency.
Travel Agency Name	char	25	The name of the travel agency.
Restricted TKT Ind	char	1	A flag indicating if this is a restricted ticket.
Issuing Carrier CD	char	8	Standard abbreviation identifying the carrier who issued the ticket.
Amt Total Fare	num	12	Total Fare Amount—the total charged for the fare.
Total Fare CCD	char	3	Currency code of the Total Fare Amount.
Total Fare Exp	num	1	Decimal point location in the Total Fare Amount.
Amt Total Fees	num	12	Total Fees Amount—the total charged for the fees.
Total Fees CCD	char	3	Code identifying the currency of the Total Fees Amount.
Total Fees Exp	num	1	Decimal point location in the Total Fees Amount.
Amt Total Taxes	num	12	Total Taxes Amount—the total charged for taxes.

Form Field Name	Type	Len	Description
Total Taxes CCD	char	3	Code identifying the currency of the Total Taxes Amount.
Total Taxes Exp	num	1	Decimal point location in the Total Taxes Amount.
Coupon Nbr	char	1	Coupon Number of the ticket. A ticket can contain several legs of travel, each of which requires a separate coupon. Each coupon within the series is identified by a coupon number.
Ticket ID	char	15	Airline, or railway, ticket identifier.
Carrier Name	char	8	Abbreviated name of the airline or railway carrier.
Airline Trans Type	char	3	Airline Transaction Type—code indicating the type of financial transaction.
Issuer City	char	13	City where the ticket was issued.
Nbr in Party	num	3	Number of people traveling together.
Misc Doc Type	num	2	Code indicating the document type. E. g. 01=passenger ticket.
Doc Nbr	num	4	Document Number—the number assigned to the airline document. It is composed of the document number and the number of parts.
Route Desc	char	20	Route description.
Extended Pay CD	num	2	Extended Payment Code—a code indicating if an extended payment request was processed. E.g. 12 = Extended Payment Request processed for Card member.
Commodity CD	char	15	Commodity code—a assigned by the c card acceptor to categorize the item, or service, purchased in a standardized commodity group.
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.

Form Field Name	Type	Len	Description
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type Id	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3 Id	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type Id	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax4 Id	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.

Form Field Name	Type	Len	Description
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type Id	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Tax Exempt Ind	char	1	A flag indicating whether or not an entity is exempted from paying taxes.
Amt Exchange TKT	num	12	The amount of the new ticket purchase on an exchanged ticket.
Exchange TKT CCD	char	3	Code identifying the currency of the exchanged ticket amount.
Exchange TKT Exp	num	1	Decimal point location in the Ticket Exchange Amount.
Amt Exchange Fee	num	12	Amount Exchange Fees
Exchange Fee CCD	char	3	Fee Exchange Currency Code
Exchange Fee Exp	num	1	Fee Exchange currency exponent
Travel Auth CD	char	64	Code provided by the company to a travel agent authorizing ticket issuance. Identified as Customer File Reference Number in Airline Reporting Corporation (ARC) specifications.
IATA Client CD	char	17	International Air Transport Association (IATA) code identifying the company that purchased the ticket.
TC 50 Item Seq Nbr	num	4	Item Sequence Number in the TC 50 message.
TC 50 Total Item Count	num	4	Total item count in the TC 50 message
Control ID	char	3	Control Identifier
Amt Natl Tax	num	12	National tax amount

Form Field			
Name	Type	Len	Description
Natl Tax CCD	char	3	Code identifying the currency of the National Tax Amount.
Natl Tax Exp	num	1	Decimal point location in the National Tax Amount.
Exchange TKT ID	char	13	The identifier of the exchanged ticket.
E TKT Ind	char	1	A flag indicating if this is an exchanged ticket or not.
Internet Ind	char	1	A Y(es)/N(o) flag indicating if this was an internet transaction or not.
Credit Reason Ind	char	1	Possible values: • A - Passenger transport ancillary purchase cancellation • B - Airline ticket and passenger transport ancillary purchase cancellation • C - Airline ticket cancellation • O - Other • P - Partial refund of airline ticket • Space - Not used
Passenger Anc Bus For Code	char	2	Default value is "AN".
Ticket Change Ind	char	1	Possible values: • C - Change to existing ticket • N - New ticket • Space - Not used
Anc Ticket ID	varchar2	15	Holds the form number assigned by the carrier for the transaction. The value of this field is comprised of the carrier code, form, and serial number, without the Check digit.
Anc Service Cat1	varchar2	4	Holds the ancillary service category code for the sole or primary type of service that has been provided.
Anc Sub Service Cat1	varchar2	4	Holds either a valid ancillary service sub-category code for the Ancillary Service Category 1 field.
Anc Service Cat2	varchar2	4	Holds the ancillary service category code for the sole or primary type of service that has been provided.
Anc Sub Service Cat2	varchar2	4	Holds either a valid ancillary service sub-category code for the Ancillary Service Category 2 field.
Anc Service Cat3	varchar2	4	Holds the ancillary service category code for the sole or primary type of service that has been provided.
Anc Sub Service Cat3	varchar2	4	Holds either a valid ancillary service sub-category code for the Ancillary Service Category 3 field.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Anc Service Cat4	varch ar2	4	Holds the ancillary service category code for the sole or primary type of service that has been provided.
Anc Sub Service Cat4	varch ar2	4	Holds either a valid ancillary service sub-category code for the Ancillary Service Category 4 field
Anc Passenger Name	varch ar2	20	Holds the passenger's name, or the cardholder's name if the passenger's name is unavailable. If the name is not available, a description of the ancillary purchase will be used.
Anc Credit Reason Ind	char	1	Possible values: <ul style="list-style-type: none"> <li>• A - Passenger transport ancillary purchase cancellation</li> <li>• B - Airline ticket and passenger transport ancillary purchase cancellation</li> <li>• O - Other</li> </ul>
Anc Add Ticket ID	Varch ar2	15	Holds the ticket document number of the other purchase connected to this transaction.eg: baggage fee. For a standalone purchase, this field must contain the same value as in the Ancillary Ticket Document Number field.

## In Draft BASE II

**Type:** Inquiry.

**Underlying Table:** IN\_DRAFT\_BASEII

Use this form to query all incoming Base II transactions.

**Clearing System**

Locale Chooser (Alt-l) Options (Alt-o) Windows (Alt-w) Help

IN DRAFT BASE2

Navigate DB specific Edit

Print

Trans Seq Number	3434004
Pan Ext	
Auth Charstics Ind	N
Crb ExptFile Ind	
Floor Limit Ind	
Intl Fee Ind	
Pcas Ind	
Reimb Attrib	0
Req Payment Srv	
Coll Only Flag	
Usage CD	1
Trans ID	005230000018
Fee Cntry CD Alpha	
Acq Bin	485400
Isb Bin	407311
Nbr Of Payment Forms	

Current Record Number:1 and Database size:1

User Name : sdfs

Figure 29 In Draft Base II Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs >In Draft Main > **In Draft BASE II**

The form opens by default in the [Query Mode](#).



## In Draft Base II Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
PAN Ext	char	3	Primary Account Number Extension - used for PANs longer than 16 digits.
Auth Charistics Ind	char	1	Authorization Characteristic Indicator (ACI). E.g. K=card present with key-entry.
CRB Expt File Ind	char	1	Card Recovery Bulletin or Exception File Indicator. E.g. N=account number was not listed in merchant's CRB region or Exception File on purchase date.
Floor Limit Ind	char	1	Indicator of the floor limit. E.g. A = above floor limit by more than 20%.
Intl Fee Ind	char	1	International Fee Indicator—a flag indicating if this is an international fee or not.
Pcas Ind	char	1	Positive Cardholder Authorization Service indicator. E.g. N=authorization not issued by PCAS.
Reimb Attrib	char	1	The code indicating the reimbursement fees applicable to a specific transaction.
Req Payment Srv	char	1	Requested Payment Service—a code indicating the requested service.
Coll Only Flag	char	1	Collection Only Flag—Flag indicating that the transaction has been submitted to BASE II for collection, not for settlement.
Usage CD	char	1	Transaction usage code. E.g. 1=subsequent payment, or chargeback.
Trans ID	char	15	Transaction identifier associated with the transaction being settled.
Fee Cntry CD Alpha	char	3	Alphabetical fee country code.
Acq Bin	Char	11	Acquirer BIN
ISS Bin	Char	25	Issuer BIN
Fund Src Ind	Char	1	Funding Source
Nbr of Payment Forms	Char	1	Number of payment forms.

## Shipping Courier 1

**Type:** Inquiry.

**Underlying Table:** SHIPPING\_COURIER\_1

Use this form to query all incoming Shipping Courier transactions.

The screenshot shows the 'Shipping Courier1' inquiry screen within the 'Clearing System' application. The left sidebar contains a tree view of various clearing modules like 'Clearing', 'Conf', 'Gen', 'Inquiry', 'Trans Logs', 'Current', 'EMS', 'Instit', 'Calc', 'Oper', 'Entity', and 'Secu'. The main panel has a title bar 'Shipping Courier1' with tabs 'Navigate', 'DB specific', and 'Edit'. Below the title bar are several toolbar icons. The form itself contains numerous input fields and dropdown menus. Key visible fields include 'Trans Seq Number' (4244002), 'Customer CD' (1), 'Amount Total Tax', 'Total Tax CCD', 'Total Tax Exp', 'Tax Coll Ind', 'Commodity CD', 'Tax Exempt Ind', 'Misc Expense Desc1', 'Misc Expense Desc2', 'Misc Expense Desc3', 'Misc Expense Desc4', 'Amount Misc Expense1', 'Misc Expense CCD', 'Misc Expense1 Exp', 'Amount Misc Expense2', 'Misc Expense2 CCD', 'Misc Expense2 Exp', 'Amount Misc Expense3', 'Misc Expense3 CCD', 'Misc Expense3 Exp', 'Amount Misc Expense4', 'Misc Expense4 CCD', 'Misc Expense4 Exp', 'Serv Desc CD1', 'Tracking Number', 'Amount Net', 'Net CCD', 'Net Exp', 'Amount Incentive', 'Incentive CCD', 'Incentive Exp', 'Pickup Date', 'Delivery Date', 'Number of Packages', 'Package Weight', 'Unit Of Measure', 'Ship Party Name1', 'Ship Party Name2', 'Ship Party Name3', 'Ship Party Address1', 'Ship Party Address2', 'Ship Party Address3', 'Ship Party Address4', 'Ship Party Address5', 'Ship Party Address6', 'Ship City', 'Ship State CD', 'Ship Country CD', 'Ship Postal CD', 'Ship Contact Desc1', 'Ship Contact Desc2', and 'Ship Contact Desc3'. At the bottom of the form, there is a status bar indicating 'In Update Model' and 'Java Applet Window'.

Figure 30 Shipping Courier 1 Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Shipping Courier 1**

The form opens by default in the [Query Mode](#).



## Shipping Courier 1 Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Customer CD	char	17	A code supplied by the cardholder to the merchant.
Amount Total Tax	num	12	The total tax amount for the purchased item.
Total Tax CCD	char	3	The code identifying the currency of the tax amount.
Total Tax Exp	num	1	The indicator of the decimal point location in the tax amount.
Tax Coll Ind	char	1	The indicator reflecting total sales tax capture and reporting.
Commodity CD	char	15	Identifier, assigned by the card acceptor, that best categorizes the goods or services offered in a standardized commodity group.
Tax Exempt Ind	char	1	A flag indicating whether or not an entity is exempted from paying taxes.
Misc Expense Desc1	char	50	Description of Miscellaneous Expense 1.
Misc Expense Desc2	char	50	Description of Miscellaneous Expense 2.
Misc Expense Desc3	char	50	Description of Miscellaneous Expense 3.
Misc Expense Desc4	char	50	Description of Miscellaneous Expense 4.
Amount Misc Expense1	num	12	Amount of Miscellaneous Expense 1.
Misc Expense CCD	char	3	Currency code of the Miscellaneous Expense 1 amount.
Misc Expense1 Exp	num	1	Decimal position location in the Miscellaneous Expense 1 amount.

Form Field			
Name	Type	Len	Description
Amount Misc Expense2	num	12	Amount of Miscellaneous Expense 2.
Misc Expense2 CCD	char	3	Currency code of the Miscellaneous Expense 2 amount.
Misc Expense Exp2	num	1	Decimal position location in the Miscellaneous Expense 2 amount.
Amount Misc Expense3	num	12	Amount of Miscellaneous Expense 3.
Misc Expense3 CCD	char	3	Currency code of the Miscellaneous Expense 3 amount.
Misc Expense Exp3	num	1	Decimal position location in the Miscellaneous Expense 3 amount.
Amount Misc Expense4	num	12	Amount of Miscellaneous Expense 4.
Misc Expense4 CCD	char	3	Currency code of the Miscellaneous Expense 4 amount.
Misc Expense Exp4	num	1	Decimal position location in the Miscellaneous Expense 4 amount.
Serv Desc CD1	char	40	Service descriptor code
Tracking Number	char	40	Tracking number or pickup number - the number used to track items shipped.
Amount Net	num	12	Cost of shipping an item.
Net CCD	char	3	Currency code of the Net Amount.
Net Exp	num	1	Decimal point location in the Net Amount.
Amount Incentive	num	12	Incentive amount.
Incentive CCD	char	3	Currency code of the Incentive Amount.
Incentive Exp	num	1	Decimal point location in the Incentive Amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Pickup Date	date		Date when the shipped item was picked up.
Delivery Date	date		Date when the shipped item was delivered.
Number of Packages	num	6	The number of packages shipped.
Package Weight	num	12	The weight of the packages shipped.
Unit of Measure	char	3	The alpha numeric code for units of measurement as used in international trade.
Ship Party Name1	char	50	Name of the party shipping the item(s).
Ship Party Name2	char	50	Name of the party shipping the item(s).
Ship Party Name3	char	50	Name of the party shipping the item(s).
Ship Party Address1	char	50	Address of the party shipping the item(s).
Ship Party Address2	char	50	Address of the party shipping the item(s).
Ship Party Address3	char	50	Address of the party shipping the item(s).
Ship Party Address4	char	50	Address of the party shipping the item(s).
Ship Party Address5	char	50	Address of the party shipping the item(s).
Ship Party Address6	char	50	Address of the party shipping the item(s).
Ship City	char	25	Sending party postal information - the city of the sending party address.
Ship State CD	char	3	Sending party postal information - the code identifying the state of the sending party address.
Ship Country CD	char	3	Sending party postal information - the code identifying the country of the sending party address.
Ship Postal CD	char	10	Sending party postal information - the postal code of the sending party address.

Form Field			
Name	Type	Len	Description
Ship Contact Desc1	char	1	Descriptor of the sending party contact.
Ship Contact Desc2	char	1	Descriptor of the sending party contact.
Ship Contact Desc3	char	1	Descriptor of the sending party contact.

## Generic ADN

**Type:** Inquiry.

**Underlying Table:** GENERIC\_ADN

Use this form to get Generic Addendum data for transactions.

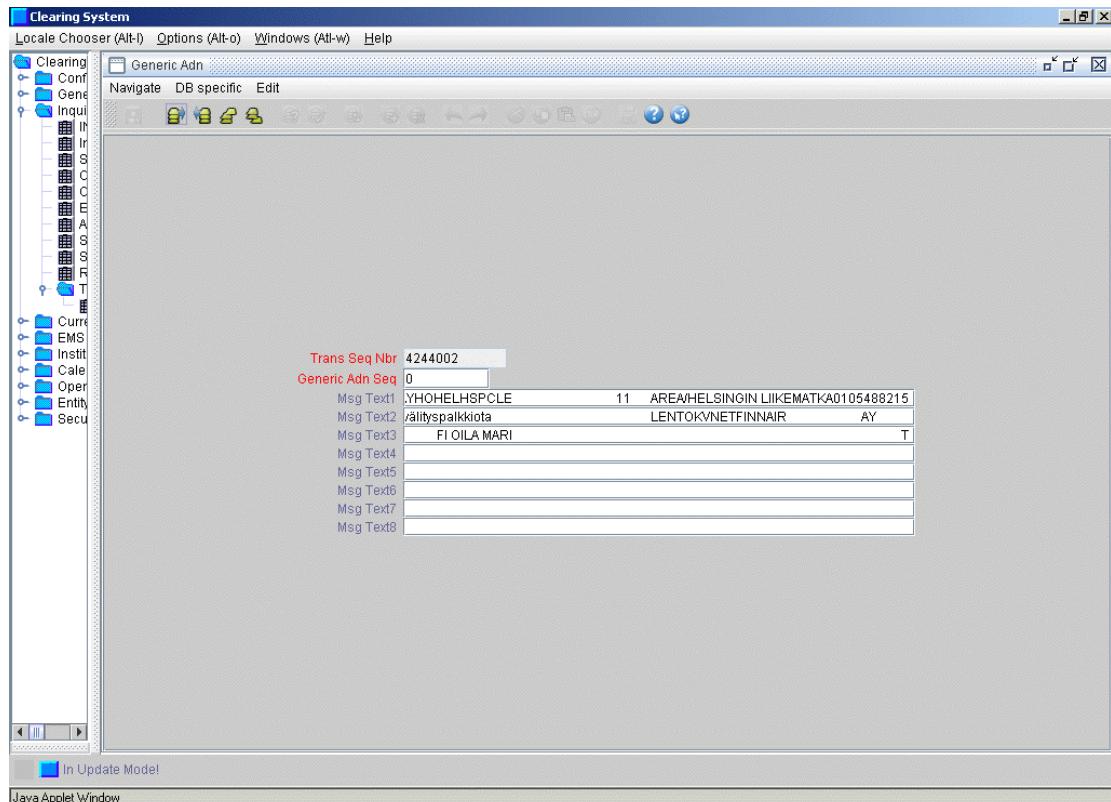


Figure 31 Generic ADN Form

## Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Generic ADN**

The form opens by default in the [Query Mode](#).

### Generic ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Generic Adn Seq	num	3	Sequence Number
Msg Text1	char	255	Additional Message description1
Msg Text2	char	255	Additional Message description2
Msg Text3	char	255	Additional Message description3
Msg Text4	char	255	Additional Message description4
Msg Text5	char	255	Additional Message description5
Msg Text6	char	255	Additional Message description6
Msg Text7	char	255	Additional Message description7
Msg Text8	char	255	Additional Message description8

## E\_Invoice ADN DTL1

**Type:** Inquiry.

**Underlying Table:** E\_Invoice\_ADN\_DTL1

Use this form to get Electronic Invoice details data.

The screenshot shows the 'Clearing System' application window. The menu bar includes 'Locale Chooser (Alt-L)', 'Options (Alt-O)', 'Windows (Alt-W)', and 'Help'. The title bar says 'E\_INVOICE ADN DTL1'. The left sidebar has a tree view with nodes like 'Clearing', 'Config', 'Gene', 'Inqui', 'Trans', 'Current', 'EMS', 'Instit', 'Cale', 'Oper', 'Entity', and 'Secu'. The main area contains a form with the following fields:

- Trans Seq Number: 4244002
- E Invoice Seq: 1
- Party ID: [empty]
- Party Name1: [empty]
- Party Name2: [empty]
- Party Name3: [empty]
- Party Address1: [empty]
- Party Address2: [empty]
- Party Address3: [empty]
- Party Address4: [empty]
- Party Address5: [empty]
- Party Address6: [empty]
- City: [empty]
- State Prov Code: [empty]
- Country Code: [empty]
- Postal Code: [empty]
- Party Contact Des1: [empty]
- Party Contact Des2: [empty]
- Party Contact Des3: [empty]
- Party Contact Des4: [empty]
- Party Contact Des5: [empty]
- Party Contact Inf1: [empty]
- Party Contact Inf2: [empty]
- Party Contact Inf3: [empty]
- Party Contact Inf4: [empty]
- Party Contact Inf5: [empty]
- Party File Nature: [empty]

At the bottom, there are buttons for 'in Update Model' and 'Java Applet Window'.

Figure 32 E\_Invoice ADN DTL1 Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **E\_Invoice ADN DTL1**

The form opens by default in the [Query Mode](#).

### E\_Invoice ADN DTL Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
E Invoice Seq	num	3	Electronic Invoice Sequence number
Party ID	char	2	Party Identifier
Party Name1	char	40	Party Name1

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Party Name2	char	40	Party Name2
Party Name3	char	40	Party Name3
Party Address1	char	40	Party Address1
Party Address2	char	40	Party Address2
Party Address3	char	40	Party Address3
Party Address4	char	40	Party Address4
Party Address5	char	40	Party Address5
Party Address6	char	40	Party Address6
City	char	25	Party City
State Prov Code	char	3	Party State/Province Code
Country Code	char	3	Party Country Code
Postal Code	char	15	Party Postal Code
Party Contact Des1	num	1	Party Contact Descriptor1
Party Contact Des2	num	1	Party Contact Descriptor2
Party Contact Des3	num	1	Party Contact Descriptor3
Party Contact Des4	num	1	Party Contact Descriptor4
Party Contact Des5	num	1	Party Contact Descriptor5

Form Field			
Name	Type	Len	Description
Party Contact Inf1	char	60	Party Contact Information1
Party Contact Inf2	char	60	Party Contact Information2
Party Contact Inf3	char	60	Party Contact Information3
Party Contact Inf4	char	60	Party Contact Information4
Party Contact Inf5	char	60	Party Contact Information5
Party File Nature	char	1	Party Nature of Filing

## Transaction Enrichment

**Type:** Inquiry.

**Underlying Table:** TRANS\_ENRICHMENT

Use this form to get Transaction Enrichment data.

Figure 33 Transaction Enrichment Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Transaction Enrichment**

The form opens by default in the [Query Mode](#).

## Transaction Enrichment Form Fields

Form Field Name	Type	Len	Description
Transaction Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
TGA	num	1	TGA Values: 1 = Inter-Regional 2 = Intra-Regional 3 = Domestic 4 = Exported Domestic 5 = International
ISS Card Scheme	char	2	Issuer Card scheme
ISS Bin	char	25	Issue BIN
ISS Country Code A2	char	2	Issuer country code – alpha2
ISS Country Code A3	char	3	Issuer country code – alpha3
ISS Region	char	1	Issuer Region
ISS Domain	char	1	Issuer Domain
ISS Visa Usage	char	1	Issuer VISA usage
ISS Product ID	char	3	Issuer product ID
ISS Accept Brand	char	4	Issuer acceptance brand
ISS Technology	char	1	Issuer Technology
ISS Ardef Region	char	1	Issuer ARDEF region
ISS Ardef Country	char	2	Issuer ARDEF country
ISS Product Type	char	1	Issuer product type
CC Level2 Ind	char	1	CC level2 indicator

Form Field Name	Type	Len	Description
CC Pos Prompt Ind	char	1	CC POS prompt indicator
CC Level3 Ind	char	1	CC level3 indicator
CC E Vat Evid Ind	char	1	CC Electronic VAT evidence indicator
Brandpriority Code	char	3	Brandpriority code
Acq Card Scheme	char	2	Acquirer card scheme
Acq Bin	char	11	Acquirer BIN
Acq Region	char	1	Acquirer Region
Acq Country Code A2	char	2	Acquirer country code – alpha2
Acq Country Code A3	char	3	Acquirer country code – alpha3
Bin Type	char	1	Bin Type
Acq Sub Region	char	1	Acquirer sub region
GSA Flag	char	1	GSA flag
Intra Country Fee Ind	char	1	Intra country fee indicator
Supermarket Ind	char	1	Supermarket indicator
Warehouse Club Ind	char	1	Warehouse club indicator
IEI Qualifier	char	2	IEI qualifier
Internal MBR ID Ind	char	1	Internal Member ID indicator
Acq Switch	char	1	ACQ switch
ATM Ind	char	1	ATM indicator
Acq Conversion	char	1	Acquirer conversion
RCL Region	char	1	RCL region

Form Field Name	Type	Len	Description
Endpoint	char	11	Endpoint
Service Indus Acq	char	1	Service industry acquirer
Member Name	char	30	Member Name
Eurocard ICA Number	char	4	Eurocard ICA number
Eurochq ID	char	6	Eurocheque ID
Eurocard Type	char	2	Eurocard Type
Eurochq ATM Type	char	2	Eurocheque ATM Type
Eurochq Net Settlement	char	1	Eurocheque net settlement
NNSS Ind	char	1	NNSS Indicator
Product Subtype	char	2	Product Subtype
Large Ticket	char	1	Valid values: • L (Large Ticket) • Space (n/a)
Acct Fund Src	char	1	Valid values: • C (Credit) • D (Debit) • P (Prepaid) • H (Charge) • Space (n/a)
Settlement Match	char	1	Valid values: • B (B2B) • Space (n/a)
Travel Acct	char	1	Valid values: • A (CTA air) • H (CTA hotel) • Space (n/a)
Acct Rest Use	char	1	Valid values: • A (ATM only) • Space (n/a)

Form Field			
Name	Type	Len	Description
PayPass Ind	char	1	PayPass Enabled Indicator. Valid values: <ul style="list-style-type: none"> <li>• N = Not PayPass Enabled</li> <li>• Y = PayPass Enabled</li> </ul>
Currency Conversion Lookup Key	date		The date used for the currency conversion.
Currency Plan Institution ID	varchar	10	Institution ID used for the currency conversion.
Disc Pay With Reward Ind	number	1	Discover pay with reward indicator.
Repower Part Ind	char	1	Valid values: <ul style="list-style-type: none"> <li>• Y = RePower only for non-MasterCard BIN</li> <li>• N = No RePower capability</li> </ul>

## Purchasing Item

**Type:** Inquiry.

**Underlying Table:** PURCHASING\_ITEM.

Use this form to monitor purchasing item records.

Figure 34 Purchasing Item Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > In Draft Main > **Purchasing Item**

The form opens by default in the [Query Mode](#).

## Purchasing Item Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Purchase Item Seq	num	2	The sequence number of the individual item purchased.
Product CD	char	15	The product code of the individual item purchased.
Item Desc	char	35	The description of the individual item purchased.
Item Quantity	num	12	The number indicating the quantity of the item purchased.
Item Quantity Exp	num	1	The number indicating the decimal point location in the item quantity number.
Amount Extended Item	num	12	The individual item amount that is normally calculated as price multiplied by quantity.
Extended Item CCD	char	3	The code identifying the currency of the extended amount.
Extended Item Exp	num	1	The indicator of the decimal point location in the extended item amount.
Discount Ind	char	1	A flag indicating if the amount is discounted or not. E.g. Y = amount discounted, N = amount not discounted; Space = not supported.
Amount Discount	num	12	The actual amount of the item discount, provided the item is discounted.
Discount CCD	char	3	The code identifying the currency of the discount amount.
Discount Exp	num	1	The indicator of the decimal point location in the discount amount.
Discount Rate Exp	num	1	The indicator of the decimal point location in the discount rate amount.
Extended Item Ind	char	1	A flag indicating if the extended item amount includes the tax amount.
Tax Rate	num	8	A numeric decimal rate representing the rate of tax applied to calculate the tax amount of the purchased item.
Tax Type	char	4	The type of tax applied to the purchased item.
DT CR Ind	char	1	Debit or Credit Indicator - a flag indicating if the extended item amount is a debit (D), or a credit (C).

Form Field Name	Type	Len	Description
Alt Tax Ind	char	1	Alternate Tax Indicator - an flag indicating if the alternate tax was included in the total purchase amount.
Item Measure	char	12	The code indicating the item unit of measure.
Amount Tax	num	12	The total tax amount for the purchased item.
Tax CCD	char	3	The code identifying the currency of the tax amount.
Tax Exp	num	1	The indicator of the decimal point location in the tax amount.
Discount Rate	char	5	The discount rate of the purchase item.
Item Unit price	num	12	The price for one unit of the product purchased.
Item Unit Pric CCD	char	3	Code identifying the currency of the Item Unit Price.
Item Unit Pric Exp	num	1	The indicator of the decimal point location in the item unite price amount.
Commodity CD	char	15	Identifier, assigned by the card acceptor, that best categorizes the goods or services offered in a standardized commodity group.
Tax Exempt Ind	char	1	The indicator noting if the goods or services were tax exempt.
Uq Vat Inv Ref Number	char	17	Unique VAT Invoice Reference Number provides an additional element used to identify the value-added tax (VAT) invoice or tax receipt.
Amount Lineitem Total	num	12	Total amount of the line item.
Lineitem Total CCD	char	3	Currency code of the line item total.
Lineitem Total Exp	num	1	Currency exponent of the line item total.
Lineitem Detl Int	char	1	Line Item Detail Indicator.
TC50 Item Seq Number	num	4	TC50 item sequence number.
Total Tax Coll Ind	char	1	Total tax collection indicator.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Dtax1 Ind	char	1	Tax 1 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax1	num	12	Tax 1 Amount - the amount on the purchased service.
DTax1 CCD	char	3	Tax 1 Currency Code - the code identifying the currency of the tax amount.
Dtax1 Exp	num	1	Tax 1 Exponent - the indicator of the decimal point location in the tax amount.
Dtax1 Rate	num	5	Tax 1 Rate - the rate applied in relationship to the specific tax amount.
Dtax1 Rate Exp	num	1	Tax 1 Rate Exponent - indicator of the decimal location for the Tax Rate 1.
Dtax1 Applied Type	char	4	Tax 1 Applied Type - indicator used to further define tax categories.
Dtax1 Type Ind	char	2	Tax 1 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax1ID	char	20	Card Acceptor Tax ID 1 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Dtax2 Ind	char	1	Tax 2 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax2	num	12	Tax 2 Amount - the amount on the purchased service.
DTax2 CCD	char	3	Tax 2 Currency Code - the code identifying the currency of the tax amount.
Dtax2 Exp	num	1	Tax 2 Exponent - the indicator of the decimal point location in the tax amount.
Dtax2 Rate	num	5	Tax 2 Rate - the rate applied in relationship to the specific tax amount.
Dtax2 Rate Exp	num	1	Tax 2 Rate Exponent - indicator of the decimal location for the Tax Rate 2.
Dtax2 Applied Type	char	4	Tax 2 Applied Type - indicator used to further define tax categories.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Dtax2 Type Ind	char	2	Tax 2 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax2ID	char	20	Card Acceptor Tax ID 2 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3ID	char	20	Card Acceptor Tax ID 3 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax6 Ind	char	1	Tax 6 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax6	num	12	Tax 6 Amount - the amount on the purchased service.
DTax6 CCD	char	3	The code identifying the currency of the tax amount.
DTax6 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax6 Rate	num	5	Tax 6 Rate - the rate applied in relationship to the specific tax amount.
DTax6 Rate Exp	num	1	Tax 6 Rate Exponent - indicator of the decimal location for the Tax Rate 6.

Form Field			
Name	Type	Len	Description
DTax6 Applied Type	char	4	Tax 6 Applied Type - indicator used to further define tax categories.
DTax6 Type ID	char	2	Tax 6 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax6 ID	char	20	Card Acceptor Tax ID 6 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Order Date	date		Date on which the order was made
Fstax Rate	num	5	Federal Sales Tax Rate
Ship Date	date		Shipping Date
Ms Ship Hin	char	40	Medical Service Ship to Health Industry Number
Ms Price Adj Type	char	1	Medical Service Price Adjustment
Ms Prodnbr Qualifi	char	2	Medical Service Product Number Qualifier
Corp Contact Number	char	40	Contract Number
Line Item Date	date		Line Item Date
Zero Cost Cust Ind	char	1	Zerocost customer indicator. Values Y - The Line Item is at zero cost to the customer. Extended Item Amount(PDS0647) may be equal to zero. N - The Line Item is not at zero cost to the customer)
Discount Treatment	num	1	Valid values are: <ul style="list-style-type: none"> <li>● 0 - No line level discount provided</li> <li>● 1 - Tax was calculated on the post-discount line item total</li> <li>● 2 - Tax was calculated on the pre-discount line item total</li> </ul>

## Corpcard Purchasing

**Type:** Inquiry.

**Underlying Table:** CORPCRD\_PURCHASING.

Use this form to get full details concerning the Corporate Card Purchasing Transactions.

Figure 35 Corpcard Purchasing Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > In Draft Main > **Corpcrd Purchasing**.

The form opens by default in the [Query Mode](#).

## Corpcard Purchasing Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Customer CD	char	17	The code that the cardholder supplied to the card acceptor.
Amount Total Tax	num	12	The total tax amount for the purchased item.
Total Tax CCD	char	3	The code identifying the currency of the tax amount.
Total Tax Exp	num	1	The indicator of the decimal point location in the tax amount.
Amount Freight	num	12	The freight amount on the total purchases.
Freight CCD	char	3	The code identifying the currency of the freight amount.
Freight Exp	num	1	The indicator of the decimal point location in freight amount.
Destination Postal CD	char	10	The ZIP code or postal code to which the goods will be delivered.
Amount Duty	num	12	The amount paid for duty on the total purchase amount.
Duty CCD	char	3	The code identifying the currency of the duty amount.
Duty Exp	num	1	The indicator of the decimal point location in the duty amount.
Ship From Postal CD	char	10	The ZIP code or other postal code from which purchased items were shipped.
Amount Alt Tax	num	12	The amount of the alternate tax on the purchased goods or services.
Alt Tax CCD	char	3	The code identifying the currency of the alternate tax amount.
Alt Tax Exp	num	1	The indicator of the decimal point location in the tax amount.
Destination Country CD	char	3	The code identifying the destination country where the purchased goods will be delivered.
Total Tax Coll Ind	char	1	Total Tax Collected Indicator - an indicator used to reflect sales tax capture and reporting.
Alt Tax Ind	char	1	Alternate Tax Indicator - an flag indicating if the alternate tax was included in the total purchase amount.
Business Type	char	4	The code identifying the type of business. E.g. corporation.

Form Field			
Name	Type	Len	Description
Business Owner Type	num	1	The code indicating the type of the business owner. E.g. female business owner.
Certification Type	char	1	The code identifying the business certification type. E.g. small business, disadvantage, or other certification type.
Race Ethnic Type	num	1	The code identifying racial or ethnic type unconditional majority owner.
Corporate Vat Number	char	15	The Value Added tax (VAT) number of the corporation.
Destination State Province CD	char	3	The code identifying the state, or province, where the goods will be delivered.
Order Date	date		The date when the item was ordered.
Amount Total Discount	num	12	The total discount amount.
Total Discount CCD	char	3	The code identifying the currency of the total discount amount.
Total Discount Exp	num	1	The indicator of the decimal point location in the total discount amount.
Crd Accept Vat Nr	char	20	Card Acceptor VAT number - the value-added tax (VAT) number for the card acceptor location used to identify the card acceptor when collecting and reporting taxes.
Customer Vat Number	char	20	Value-added tax (VAT) number for the customer used to identify the customer when purchasing goods and services from a card acceptor.
Unique Invoice Number	char	17	Unique number associated with the individual transaction provided by the card acceptor.
Commodity CD	char	15	Identifier, assigned by the card acceptor, that best categorizes the goods or services offered in a standardized commodity group.
Auth Contact Name	char	36	Authorized Contact Name - the name of an individual or company contacted for company authorized purchases.
Auth Contact Phone	char	15	Authorized Contact Phone - the phone number of an individual or company contacted for company authorized purchases.
Tax Exempt Ind	char	1	A flag indicating whether or not an entity is exempted from paying taxes.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
TC50 Item Seq Number	num	4	Item Sequence Number in the TC 50 message.
TC50 Total Item Cnt	num	4	Total item count in the TC 50 message
Order Number	char	25	Order number
Amount Local Tax	num	12	Amount of the local tax.
Local Tax CCD	char	3	Currency code of the local tax.
Local Tax Exp	num	1	Currency exponent of the local tax.
Amount National Tax	num	12	Amount of the national tax.
National Tax CCD	char	3	Currency code of the national tax.
National Tax Exp	num	1	Currency exponent of the national tax.
Amount Rate Tax	num	4	Tax rate amount.
Local Tax Ind	char	1	Local tax indicator.
National Tax Ind	char	1	National tax indicator.
Amount Other Tax	num	12	Amount of any other tax.
Other Tax CCD	char	3	Currency code of the other tax.
Other Tax Exp	num	1	Currency exponent of the other tax.
Product CD1	char	2	Product code1
Product CD2	char	2	Product code2
Product CD3	char	2	Product code3
Product CD4	char	2	Product code4
Product CD5	char	2	Product code5

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Product CD6	char	2	Product code6
Product CD7	char	2	Product code7
Product CD8	char	2	Product code8
Interreg Postal	char	11	Interregional postal code.
Dtax1 Ind	char	1	Tax 1 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax1	num	12	Tax 1 Amount - the amount on the purchased service.
DTax1 CCD	char	3	Tax 1 Currency Code - the code identifying the currency of the tax amount.
Dtax1 Exp	num	1	Tax 1 Exponent - the indicator of the decimal point location in the tax amount.
Dtax1 Rate	num	5	Tax 1 Rate - the rate applied in relationship to the specific tax amount.
Dtax1 Rate Exp	num	1	Tax 1 Rate Exponent - indicator of the decimal location for the Tax Rate 1.
Dtax1 Applied Type	char	4	Tax 1 Applied Type - indicator used to further define tax categories.
Dtax1 Type Ind	char	2	Tax 1 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax1ID	char	20	Card Acceptor Tax ID 1 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Dtax2 Ind	char	1	Tax 2 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax2	num	12	Tax 2 Amount - the amount on the purchased service.
DTax2 CCD	char	3	Tax 2 Currency Code - the code identifying the currency of the tax amount.
Dtax2 Exp	num	1	Tax 2 Exponent - the indicator of the decimal point location in the tax amount.
Dtax2 Rate	num	5	Tax 2 Rate - the rate applied in relationship to the specific tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Dtax2 Rate Exp	num	1	Tax 2 Rate Exponent - indicator of the decimal location for the Tax Rate 2.
Dtax2 Applied Type	char	4	Tax 2 Applied Type - indicator used to further define tax categories.
Dtax2 Type Ind	char	2	Tax 2 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax2ID	char	20	Card Acceptor Tax ID 2 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3ID	char	20	Card Acceptor Tax ID 3 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax6 Ind	char	1	Tax 6 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax6	num	12	Tax 6 Amount - the amount on the purchased service.
DTax6 CCD	char	3	The code identifying the currency of the tax amount.
DTax6 Exp	num	1	The indicator of the decimal point location in the tax amount.

Form Field Name	Type	Len	Description
DTax6 Rate	num	5	Tax 6 Rate - the rate applied in relationship to the specific tax amount.
DTax6 Rate Exp	num	1	Tax 6 Rate Exponent - indicator of the decimal location for the Tax Rate 6.
DTax6 Applied Type	char	4	Tax 6 Applied Type - indicator used to further define tax categories.
DTax6 Type ID	char	2	Tax 6 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax6 ID	char	20	Card Acceptor Tax ID 6 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Discount Type	char	18	Discount Type
Adtl Cardact Info	char	40	Additional Card Acceptor information
Austin Tera Number	char	15	Austin Tetra Number
Naics Code	char	15	NAICS Code
Bus Type Provcd	char	1	Business type provided code
Bus Owntype Provcd	char	1	Business owner type provided code
Bus Certype Provcd	char	1	Business certification type provided code
Card Accept Provcd	char	1	Card acceptor provided code
Invoice Discount Treatment	num	1	Valid values are: • 0 - No invoice level discount provided • 1 - Tax was calculated on the post-discount invoice total • 2 - Tax was calculated on the pre-discount invoice total

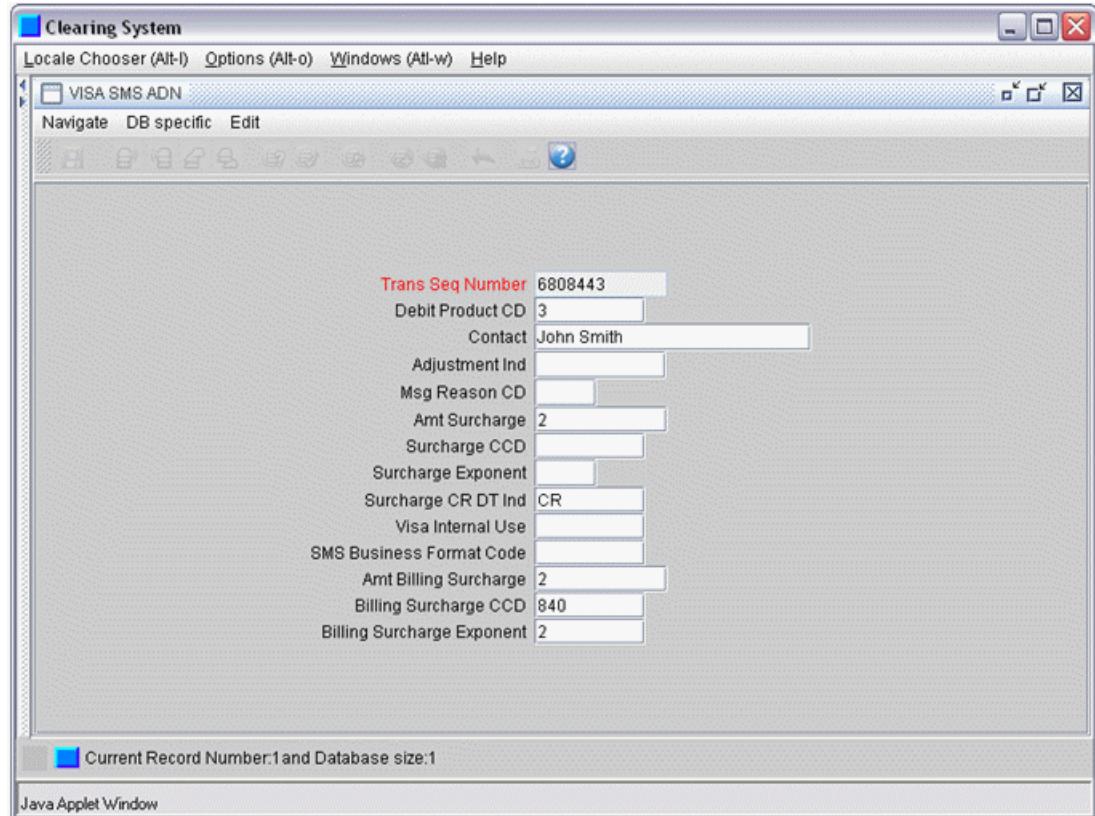
Form Field			
Name	Type	Len	Description
Tax Treatment	num	1	<p>Valid values are:</p> <ul style="list-style-type: none"> <li>● 0 - NLL - Net prices with tax calculated at line item level</li> <li>● 1 - NIL - Net prices with tax calculated at invoice level</li> <li>● 2 - GLL - Gross prices given with tax information provided at line item level</li> <li>● 3 - GIL - Gross prices given with tax information provided at invoice level</li> <li>● 4 - NON - No tax applies (small supplier) on the invoice for the transaction</li> </ul>
Discount Amt Sign	char	1	<p>Valid values are:</p> <ul style="list-style-type: none"> <li>● D - Discount amount is considered as discount for the invoice (+)</li> <li>● C - Discount amount is considered as a discount refund for the invoice (-)</li> </ul>
Ship Amt Sign	char	1	<p>Valid values are:</p> <ul style="list-style-type: none"> <li>● D - Freight/shipping amount is considered positive and represents a cost on the invoice (+)</li> <li>● C - Freight/shipping amount is considered negative and represents a refund on the invoice (-)</li> </ul>
Duty Amt Sign	char	1	<p>Valid values are:</p> <ul style="list-style-type: none"> <li>● D - Duty amount is considered positive and represents a cost on the invoice (+)</li> <li>● C - Duty amount is considered negative and represents a refund on the invoice (-)</li> </ul>
VAT Amt Sign	char	1	<p>Valid values are:</p> <ul style="list-style-type: none"> <li>● D - VAT/tax amount is considered positive for the invoice (+)</li> <li>● C - VAT/tax amount is considered negative for the invoice (-)</li> </ul>

## Visa SMS Addendum

**Type:** Inquiry.

**Underlying Table:** VISA\_SMS\_ADN.

Use this form to query the Visa Single Message System Addendum records.



The screenshot shows a Java Applet window titled "VISA SMS ADN" within the "Clearing System" application. The window has a toolbar at the top with icons for file operations like Open, Save, Print, and Help. Below the toolbar is a menu bar with "Locale Chooser (Alt-l)", "Options (Alt-o)", "Windows (Alt-w)", and "Help". The main area contains a table of fields and their values:

Trans Seq Number	6808443
Debit Product CD	3
Contact	John Smith
Adjustment Ind	
Msg Reason CD	
Amt Surcharge	2
Surcharge CCD	
Surcharge Exponent	
Surcharge CR DT Ind	CR
Visa Internal Use	
SMS Business Format Code	
Amt Billing Surcharge	2
Billing Surcharge CCD	840
Billing Surcharge Exponent	2

At the bottom of the form, there is a status message: "Current Record Number:1 and Database size:1". The status bar at the very bottom of the window says "Java Applet Window".

Figure 36 Visa SMS ADN Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs> In Draft Main > **Visa SMS Adn.**

The form opens by default in the [Query Mode](#).



## Visa SMS ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Debit Product CD	num	4	Code identifying the debit product. E.g. 0002 = Visa; 0006 = MasterCard; 0040 = American Express, etc.
Contact	char	25	Contact
Adjust Ind	char	1	Adjustment Processing Indicator—a flag indicating if the transaction is an adjustment or not.
Msg Reason CD	char	4	The reason code of the message, if applicable. If it is not used, it has to be zero-filled.
Amt Surchg	num	12	The amount of surcharge, if applicable. If the field is used, two decimal points are implied.
Surchg CCD	char	3	Code identifying the currency of the Surcharge Amount.
Surchg Exp	num	1	Decimal point in the Surcharge Amount currency.
Surch Cr Dt Ind	char	2	Indicator if the surcharge amount is a credit or a debit.
Visa Internal Use	char	1	
SMS Business Format Code	char	2	Indicates SMS Business Format Code.
Amt Billing Surcharge	num	12	Indicates the surcharge billing amount for the SMS Data record.
Billing Surcharge CCD	char	3	Indicates the surcharge billing amount currency for the SMS Data record
Billing Surcharge Exponent	num	1	Indicates the surcharge billing amount exponent for the SMS Data record.
Foreign Exc Fee	num	12	Indicates foreign exchange fee.
Foreign Exc CCD	char	3	Indicates foreign exchange currency code.
Foreign Exc Exp	num	1	Indicates foreign exchange exponent.

## Visa SMS and Promotion ADN Addendum

**Type:** Inquiry.

**Underlying Table:** VISA\_SMSPRO\_ADN.

Use this form to query the Visa Single Message System Promotion Details addendum records. If the addendum record is present, the form name will appear in addenda drop-down-list in the Transaction Inquiry, Suspended Transaction Reprocess and Rejected Transaction Reprocess forms when used to query a transaction.

The screenshot shows a Java-based application window titled "Clearing System". The menu bar includes "Locale Chooser (Alt-l)", "Options (Alt-o)", "Windows (Alt-w)", and "Help". Below the menu is a toolbar with various icons. A tab bar at the top has "Visa SMS and Promotion Details" selected. A bottom status bar displays "Java Applet Window". The main area contains a grid of input fields for transaction details:

Transaction Sequence Number	6653018
SMS & Promotion Buss Format Code	SP
Debit Product Code	3
Contact	John Smith
Adjustment Indicator	
Message Reason Code	
Surcharge Amt	3
Surcharge Amt CCD	840
Surcharge Amt Curr Exponent	2
Surcharge Amt Indicator	DB
Visa Internal Use	
Promotion Type	V2
Promotion Code	W7578473848V
Amt Billing Surcharge	
Billing Surcharge CCD	
Billing Surcharge Exponent	

Figure 37 VISA SMS and Promotion Details Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs> Transaction Inquiry > Visa SMS xxxx

The form opens by default in the [Query Mode](#).



## Visa SMS and Promotion Details Form Fields

Current Label	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
SMS & Promotion Buss Format Code	char	2	SMS and Promotion Business Format Code.
Debit Product CD	num	4	Code identifying the debit product. For example: 0002 = Visa 0006 = MasterCard 0040 = American Express, etc.
Contact	char	25	Contact
Adjustment Ind	char	1	Adjustment Processing Indicator - a flag indicating if the transaction is an adjustment or not.
Msg Reason CD	char	4	The reason code of the message, if applicable. If it is not used, it is zero-filled.
Amt Surcharge	cum	12	The amount of surcharge, if applicable. If the field is used, two decimal points are implied.
Surcharge CCD	char	3	Code identifying the currency of the Surcharge Amount.
Surcharge Exponent	num	1	Decimal point in the Surcharge Amount currency.
Surcharge CR DT Ind	char	2	Indicator if the surcharge amount is a credit or a debit.
Promotion Type	char	2	The type of promotion associated with the transaction.
Promotion Code	char	25	Indicates a specific promotion loyalty program.
Amt Billing Surcharge	num	14	The access fee amount in the cardholder billing currency.
Billing Surcharge CCD	char	3	Code identifying currency of the billing surcharge. This is the same as the cardholder billing currency.
Billing Surcharge Exponent	num	1	The number of decimal positions in the Amount Billing Surcharge.
Visa Internal Use	char	1	Visa reserved field.

## Visa Payment Service Addendum

**Type:** Inquiry.

**Underlying Table:** VISA\_PAY\_SERV\_ADN.

Use this form to query Visa Payment Service Addendum records.

Figure 38 Visa Pay Serv Adn Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs> In Draft Main > **Visa Payment Service Addendum**

The form opens by default in the [Query Mode](#).

### Visa Pay Serv ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Auth Response CD	char	2	The code indicating the status of the authorization request.
Excl Trans Reason	char	1	Excluded Transaction Identifier Reason—code identifying the reason for the exclusion of a transaction.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Crs Processing CD	char	1	Chargeback Reduction Service processing code.
Chgbk Rights Ind	char	2	An indicator of chargeback rights for travel and entertainment and non-travel and entertainment transactions.
Multi Clr Seq Nbr	num	2	The sequence number identifying a specific clearing transaction record when multiple records are submitted for a single authorization.
Multi Clr Seq Cnt	num	2	The total number of clearing records associated with the settlement record.
Mkt S Auth Dat Ind	char	1	An indicator of the market specific authorization data. E.g. H=valid hotel marked specific authorization data received.
Amt Total Auth	num	12	Total Authorization Amount—the total of all previous authorizations performed for a particular transaction or associated with a single Transaction ID.
Total Auth CCD	char	3	Code identifying the currency of the Total Authorization Amount.
Total Auth Exp	num	1	The decimal point location in the Total Authorization Amount.
Information Ind	char	1	A Y(es)/N(o) indicator if merchant or customer service telephone number may be provided on the cardholder statement.
Merch Ph Nbr	char	16	Merchant telephone number.
Additional Dat Ind	char	1	An indicator if additional data is included for commercial card non Travel and Entertainment transactions in the U.S.
Merch Vol Ind	char	2	An indicator of the merchant volume.
Validation CD	char	4	A validation code.
Ecom Goods Ind	char	2	Electronic Commerce Goods Indicator—an indicator of the type of goods purchased on the Internet.
Merch Verifi Value	char	10	Merchant Verification Value.
Amount Ichg Fee	num	12	Amount Interchange Fee Amount

Form Field Name	Type	Len	Description
Ichg Fee CCD	char	3	Interchange fee currency code
Ichg Fee Exp	num	1	Interchange fee exponent
Ichg Fee Sign	char	1	Interchange fee sign.
Source to Base Rate	num	8	The rate for exchange from the source amount to the US dollar amount.
Source to Base R Exp	num	2	The decimal point location in the Source to US Dollar Rate.
Base to Destination Rate	num	8	The rate for exchange from the US dollar amount to a destination amount.
Base to Destination R Exp	num	2	The decimal point location in the USD to Destination Rate amount.
CVV2 Result Code	char	1	Card Verification Value2 Result Code
Amt Issuer ISA	num	12	Issuer ISA amount
Issuer ISA CCD	char	3	Issuer ISA Currency code
Issuer ISA Exp	num	1	Issuer ISA Currency exponent
DCC Ind	char	1	DCC Indicator.
Account Type ID	char	4	Account Type Identification
Spend Qual Ind	char	1	Spend Qualification Indicator.
Pan Token	VarChar2	25	If the PAN participates in tokenization, this field holds the tokenized pan in the BASE II retrieval request record.

## IPM Intcnv Fee

**Type:** Inquiry.

**Underlying Table:** IPM\_INTCNV\_FEE.

Use this form to query the IPM fees pre-converted to their intermediate reconciliation currency.

The screenshot shows the 'Clearing System' application window. The menu bar includes 'Locale Chooser (Alt-l)', 'Options (Alt-o)', 'Windows (Alt-w)', and 'Help'. The main menu tree on the left is expanded to show 'Inquiry' and its sub-options: If, Ir, S, C, E, A, S, R, T, Current, EMS, Instit, Calc, Open, Entity, and Secu. The central workspace displays the 'IPM INTCNV FEE' inquiry screen. At the top of this screen are buttons for 'Navigate', 'DB specific', and 'Edit'. Below these are several input fields: 'Trans Seq Number' (containing '4244002'), 'Fee Type Key' (containing '1'), 'Fee Type CD' (containing '1'), 'Fee Proc CD' (containing ''), 'Amt Acq Intcnv Fee' (containing ''), 'Acq Intcnv Fee CCD' (containing ''), and 'Acq Intcnv Fee Exp' (containing ''). At the bottom of the workspace, there is a status bar with the text 'In Update Mode!' and 'Java Applet Window'.

Figure 39 VIPM Intcnv Fee Form

*Figure 1:*

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs> In Draft Main > **IPM Intcnv Fee.**

The form opens by default in the Query Mode.



## IPM Intcnv Fee Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Fee Type Key	num	2	The key indicating the fee type.
Fee Type CD	num	2	The code in the range 00 to 99, indicating the fee type.
Fee Proc CD	num	2	Code used to identify the entity to be debited, or credited for the fee amount. Valid values are: 19 = Debit transaction destination; 29 = Credit transaction destination; 00 = Not applicable.
Amt Acq Intcnv Fee	num	8	Acquirer Intermediate Conversion Fee Amount—the amount of the fee that the acquirer pre-converted to its Acquirer Intermediate Conversion Fee Amount.
Acq Intcnv Fee CCD	char	3	Code identifying the currency of the Acquirer Intermediate Conversion Fee Amount.
Acq Intcnv Fee Exp	num	1	Decimal point location in the Acquirer Intermediate Converted Fee.

## IPM Transaction Fee

**Type:** Inquiry.

**Underlying Table:** IPM\_TRANS\_FEE.

Use this form to query IPM transaction fee records.

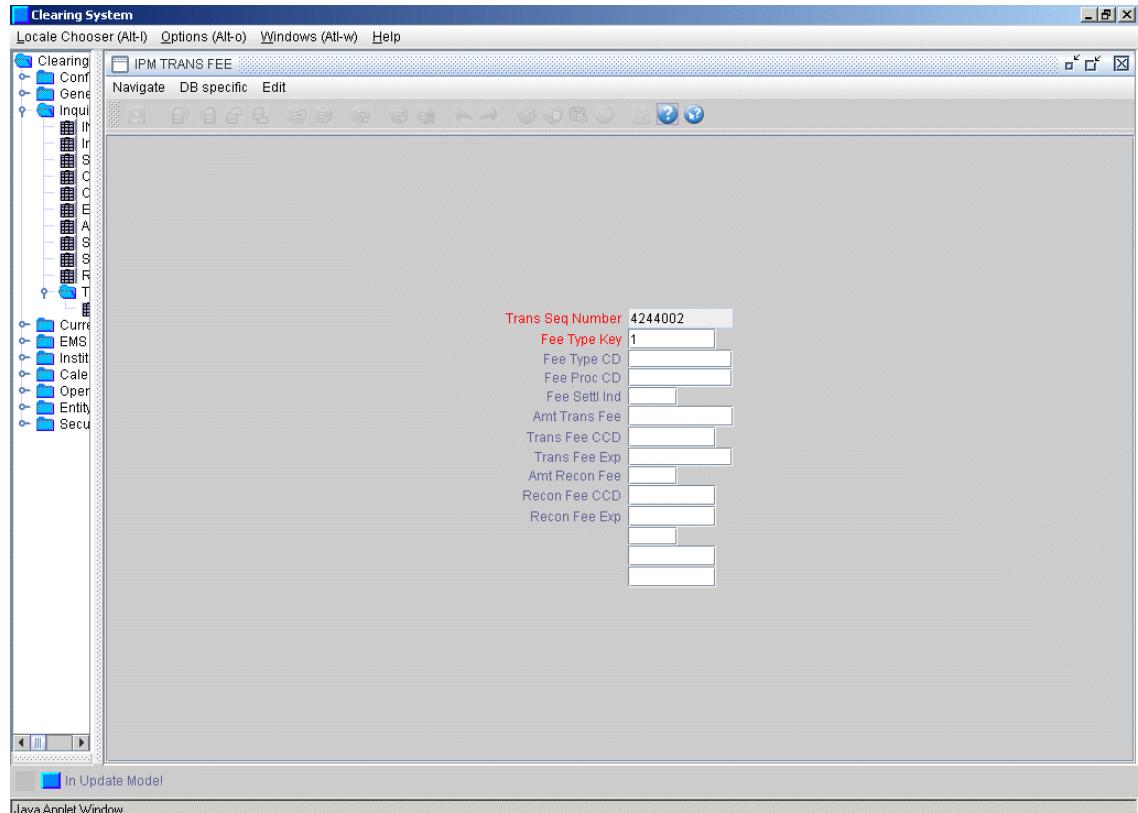


Figure 40 IPM Trans Fee Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **IPM Trans Fee**

The form opens by default in the [Query Mode](#).



## IPM Trans Fee Form Fields

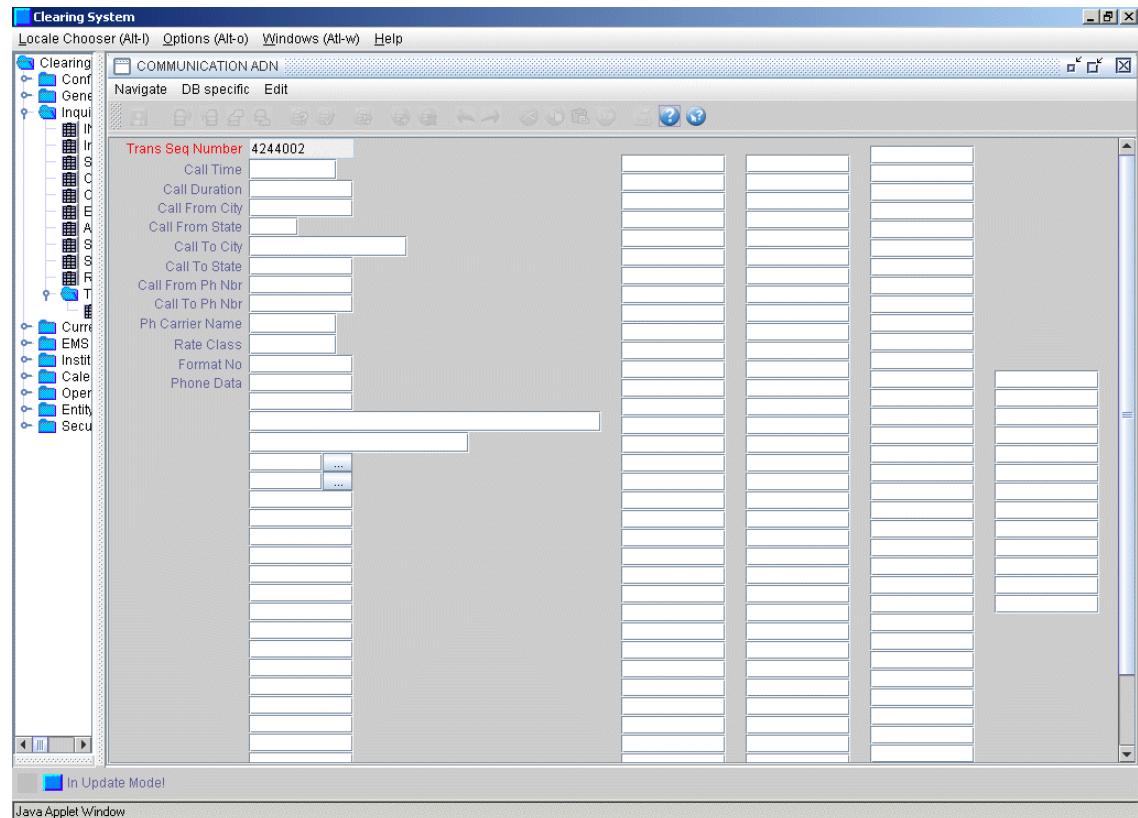
Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Fee Type Key	num	2	The key indicating the fee type.
Fee Type CD	num	2	The code in the range 00 to 99, indicating the fee type.
Fee Proc CD	num	2	Code used to identify the entity to be debited, or credited for the fee amount. Valid values are: 19 = Debit transaction destination; 29 = Credit transaction destination; 00 = Not applicable.
Fee Settl Ind	num	2	An indicator of the settlement service to which the fee is associated for reconciliation and settlement.
Amt Trans Fee	num	12	The fee amount.
Trans Fee CCD	char	3	Code identifying the currency in which the fee is charged.
Trans Fee Exp	num	1	The decimal point location in the transaction fee amount.
Amt Recon Fee	num	12	The amount charged as reconciliation fee.
Recon Fee CCD	char	3	Code identifying the currency of the reconciliation fee amount.
Recon Fee Exp	num	1	The decimal point location in the currency of the reconciliation fee.

## Communication Addendum

**Type:** Inquiry.

**Underlying Table:** COMMUNICATION\_ADN.

Use this form to monitor the communication addendum records.



The screenshot shows the 'COMMUNICATION ADN' form within the 'Clearing System' application. The left sidebar contains a tree view with nodes like 'Clearing', 'Conf', 'Gen...', 'Inqui...', 'Trans...', 'Cur...', 'EMS...', 'Insti...', 'Cale...', 'Oper...', 'Entity...', and 'Secu...'. The main panel has tabs for 'Navigate', 'DB specific', and 'Edit'. The 'Edit' tab is active, showing a grid of fields. The first field, 'Trans Seq Number', is highlighted in red and contains the value '4244002'. Other visible fields include 'Call Time', 'Call Duration', 'Call From City', 'Call From State', 'Call To City', 'Call To State', 'Call From Ph Nbr', 'Call To Ph Nbr', 'Ph Carrier Name', 'Rate Class', 'Format No', and 'Phone Data'. Below the grid is a toolbar with various icons. At the bottom of the window, there are status messages: 'In Update Model' and 'Java Applet Window'.

Figure 41 Communication Adn Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Communication Adn**

The form opens by default in the [Query Mode](#).



## Communication Addendum Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Call Time	char	4	The time when the phone call was made.
Call Duration	char	4	The duration of the telephone call.
Call From City	char	18	Call originator city—the name of the city from which the call was made.
Call From State	char	2	The code of the state, or province, from which the call was made.
Call To City	char	18	Call destination city—the name of the city to which the call was made.
Call to State	char	2	The code identifying the state, or province, to which the call was made.
Call From Ph Number	char	15	Call originator phone number—the telephone number from which the call was made.
Call to Ph Number	char	15	Call destination phone number—the telephone number to which the call was made.
Ph Carrier Name	char	10	The name of the telephone carrier.
Rate Class	char	1	The rate class assigned to this call that determines the call price.
Format No	num	1	The identifier of the format of the telephone data.
Phone Data	char	40	Telephone data concerning the phone call information. E.g. the number dialed, the call duration etc. The issuer can print this data directly on the cardholder's statement.

## Message Error Indicator Type (Msg Err Ind Type)

**Type:** Inquiry.

**Underlying Table:** MSG\_ERR\_IND\_TYPE.

Use this form to query the message error indicators.

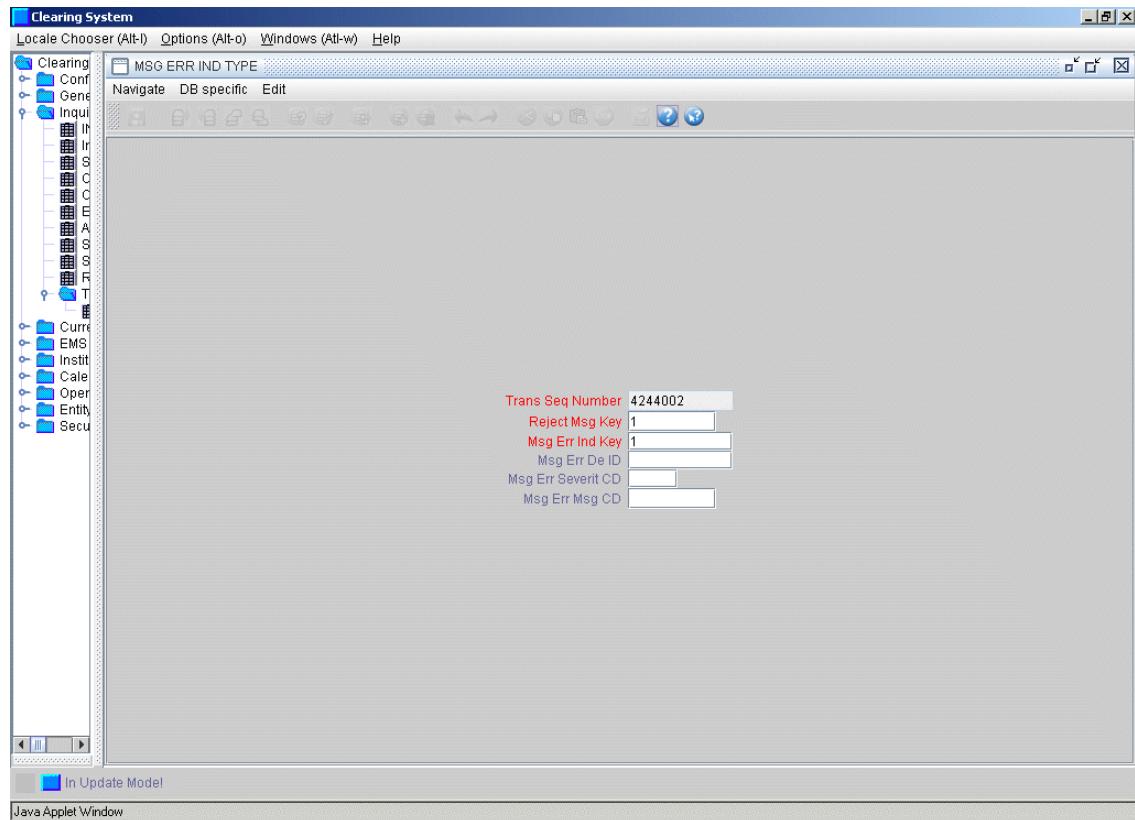


Figure 42 Msg Err Ind Type Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > In Draft Main > **Msg Err Ind Type**

The form opens by default in the [Query Mode](#).

## Msg Err Ind Type Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Reject Msg Key	num	3	Rejected message key.
Msg Err Ind Key	num	2	Message Error indicator key.
Msg Err De ID	char	5	Message Error Data Element ID - the identifier of the data element on which the error occurred.
Msg Err Severit CD	num	2	Message Error Severity CD - the code indicating the severity of the error detected by the clearing system. For example, an error can be fatal, which means that it affects the ability to process the message successfully. Most errors are minor errors, and are reported as "warnings". They indicate potential problems or invalid data fields.
Msg Err Msg CD	char	4	Error Message Code - a four-digit code that refers to a specific edit error message that identifies the error condition.

## Shipping Courier2

Type: Inquiry.

**Underlying Table:** SHIPPING\_COURIER2

Use this form to query Shipping Courier details.

The screenshot shows the 'Shipping Courier' inquiry screen within the 'Clearing System' application. The left sidebar contains a navigation tree with categories like 'Clearing', 'Conf', 'Gene', 'Inqui', 'Trans Logs', 'Curre', 'EMS', 'Instit', 'Cale', 'Oper', 'Entity', and 'Secu'. The main panel title is 'Shipping Courier' with tabs for 'Navigate', 'DB specific', and 'Edit'. The form itself has a header 'Trans Seq Number' with value '4244002'. Below this are numerous input fields grouped into sections: 'Del City' (with value '1'), 'Del State CD', 'Del Country CD', 'Del Postal CD', 'Del Contact Desc1' through 'Del Contact Desc5', 'Del Contact Info1' through 'Del Contact Info5', 'Dtax1 Ind' (with value '1'), 'Amount Dtax1' through 'Dtax1 CCD', 'Dtax1 Exp', 'Dtax1 Rate', 'Dtax1 Rate Exp', 'Dtax1 Applied Type', 'Dtax1 Type Id', 'Crd Accept Tax1 Id', 'Dtax2 Ind', 'Amount Dtax2' through 'Dtax2 CCD', 'Dtax2 Exp', 'Dtax2 Rate', 'Dtax2 Rate', 'Dtax2 Applied Type', 'Dtax2 Type Id', 'Crd Accept Tax2 Id', 'Dtax3 Ind', 'Amount Dtax3' through 'Dtax3 CCD', 'Dtax3 Exp', 'Dtax3 Rate', 'Dtax3 Rate Exp', 'Dtax3 Applied Type', 'Dtax3 Type Id', 'Crd Accept Tax3 Id', 'Dtax4 Ind', 'Amount Dtax4' through 'Dtax4 CCD', 'Dtax4 Exp', 'Dtax4 Rate', 'Dtax4 Rate Exp', 'Dtax4 applied Type', 'Dtax4 Type id', 'Crd Accept Tax4 Id', 'Dtax5 Ind', 'Amount Dtax5'. A status bar at the bottom indicates 'In Update Model' and 'Java Applet Window'.

Figure 43 Shipping Courier2 Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs> In Draft Main > **Shipping Courier2**

The form opens by default in the [Query Mode](#).



## Shipping Courier2 Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Del City	char	25	Delivery party postal information - the city of the address to which the items are delivered.
Del State CD	char	3	Delivery party postal information - the code identifying the state to which the items are delivered.
Del Country CD	char	3	Delivery party postal information - the code identifying the country to which the items are delivered.
Del Postal CD	char	10	Delivery party postal information - the postal code of the address to which the items are delivered.
Del Contact Desc1	char	1	Descriptor of the delivery party contact.
Del Contact Desc2	char	1	Descriptor of the delivery party contact.
Del Contact Desc3	char	1	Descriptor of the delivery party contact.
Del Contact Desc4	char	1	Descriptor of the delivery party contact.
Del Contact Desc5	char	1	Descriptor of the delivery party contact.
Del Contact Info1	char	60	Delivery party contact information.
Del Contact Info2	char	60	Delivery party contact information.
Del Contact Info3	char	60	Delivery party contact information.
Del Contact Info4	char	60	Delivery party contact information.
Del Contact Info5	char	60	Delivery party contact information.
Dtax1 Ind	char	1	Tax 1 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax1	num	12	Tax 1 Amount - the amount on the purchased service.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax1 CCD	char	3	Tax 1 Currency Code - the code identifying the currency of the tax amount.
Dtax1 Exp	num	1	Tax 1 Exponent - the indicator of the decimal point location in the tax amount.
Dtax1 Rate	num	5	Tax 1 Rate - the rate applied in relationship to the specific tax amount.
Dtax1 Rate Exp	num	1	Tax 1 Rate Exponent - indicator of the decimal location for the Tax Rate 1.
Dtax1 Applied Type	char	4	Tax 1 Applied Type - indicator used to further define tax categories.
Dtax1 Type Ind	char	2	Tax 1 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax1ID	char	20	Card Acceptor Tax ID 1 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Dtax2 Ind	char	1	Tax 2 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax2	num	12	Tax 2 Amount - the amount on the purchased service.
DTax2 CCD	char	3	Tax 2 Currency Code - the code identifying the currency of the tax amount.
Dtax2 Exp	num	1	Tax 2 Exponent - the indicator of the decimal point location in the tax amount.
Dtax2 Rate	num	5	Tax 2 Rate - the rate applied in relationship to the specific tax amount.
Dtax2 Rate Exp	num	1	Tax 2 Rate Exponent - indicator of the decimal location for the Tax Rate 2.
Dtax2 Applied Type	char	4	Tax 2 Applied Type - indicator used to further define tax categories.
Dtax2 Type Ind	char	2	Tax 2 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax2ID	char	20	Card Acceptor Tax ID 2 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3ID	char	20	Card Acceptor Tax ID 3 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Crd Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax6 Ind	char	1	Tax 6 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax6	num	12	Tax 6 Amount - the amount on the purchased service.
DTax6 CCD	char	3	The code identifying the currency of the tax amount.
DTax6 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax6 Rate	num	5	Tax 6 Rate - the rate applied in relationship to the specific tax amount.
DTax6 Rate Exp	num	1	Tax 6 Rate Exponent - indicator of the decimal location for the Tax Rate 6.
DTax6 Applied Type	char	4	Tax 6 Applied Type - indicator used to further define tax categories.

Form Field			
Name	Type	Len	Description
DTax6 Type ID	char	2	Tax 6 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax6 ID	char	20	Card Acceptor Tax ID 6 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Visa Internal Use	char	1	

## Communication DTL

**Type:** Inquiry.

**Underlying Table:** COMMUNICATION\_DTL

Use this form to query the message error indicators.

The screenshot shows the 'COMMUNICATION DTL' form within a Java Applet window. The left sidebar contains a navigation tree with categories like Clearing, Configuration, General, Inquiry, Current, EMS, Institution, Calendar, Operations, Entity, and Security. The main panel displays several input fields for communication data, including:

- Trans Seq Number: 4244002
- Comm Item Seq: 1
- Amount Total Tax
- Total Tax CCD
- Total Tax Exp
- Call Date
- Call To City
- Call To State Prov
- Call To Country
- Call To Phone Number
- Call Type
- Call Duration
- Call Time Period
- Call From City
- Call From State Province
- Call From Country
- Call From Phone Number
- Amount Call Usage
- Call Usage CCD
- Call Usage Exp
- Amount Call Long Distance
- Long Dist CCD
- Long Dist Exp
- Amount Coll Connect
- Call Connect CCD
- Call Connect Exp
- Other Desc
- Misc Expense Desc1
- Misc Expense Desc2

On the right side of the form, there is a vertical list of message error indicators, each associated with a corresponding input field:

- Misc Expense1 CCD
- Misc Expense1 Exp
- Amount Misc Expense2
- Misc Expense2 CCD
- Misc Expense2 Exp
- Amount Misc Expense3
- Misc Expense3 CCD
- Misc Expense3 Exp
- Amount Misc Expense4
- Misc Expense4 CCD
- Misc Expense4 Exp
- Dtax1 Ind
- Amount Dtax1
- Dtax1 CCD
- Dtax1 Exp
- Dtax1 Rate
- Dtax1 Rate Exp
- Dtax1 Applied Type
- Dtax1 Type Id
- Crd Accept TaxID
- Dtax2 Ind
- Amount Dtax2
- Dtax2 CCD
- Dtax2 Exp
- Dtax2 Rate
- Dtax2 Rate Exp
- Dtax2 Applied Type
- Dtax2 Type ID
- Crd Accept Tax2ID
- Dtax3 Ind
- Amount Dtax3
- Dtax3 CCD

The status bar at the bottom indicates 'In Update Mode!' and 'Java Applet Window'.

Figure 44 Communication DTL form



## Access

Oasis Integrated GUI > Clearing > Inquiry > In Draft Main > **Communication DTL**

The form opens by default in the [Query Mode](#).

## Communication DTL Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Comm Item Seq	num	3	Sequence number assigned for each communication addendum.
Amount Total Tax	num	12	The total tax amount for the purchased item.
Total Tax CCD	char	3	The code identifying the currency of the tax amount.
Total Tax Exp	num	1	The indicator of the decimal point location in the tax amount.
Call Date	date		Call Date/Time
Call to City	char	40	Call to which City
Call to State Prov	char	40	Call to State/Province
Call to Country	char	40	Call to Country
Call to Phone Number	char	30	Call to Which Phone number
Call Type	char	1	Call Type
Call Duration	char	6	Duration of the Call
Call Time Period	char	2	Time period of the Call
Call from City	char	40	Call from which City
Call from State Province	char	40	Call from which state/province
Call from Country	char	40	Call from which country
Amount Call Connect	num	12	Charged Call usage amount

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Call Usage CCD	char	3	Currency Code of Call usage amount
Call Usage Exp	num	1	Currency Amount of Call usage amount
Amount Call Long Distance	num	12	Long distance Call amount
Long Dist CCD	char	3	Currency code of the Long distance Call amount
Long Dist Exp	num	1	Currency Exponent of the Long Distance Call amount
Amount Call Connect	num	12	Amount charged for Call connection
Call Connect CCD	char	3	Currency Code of Call Connection charges
Call Connect Exp	num	1	Currency Exponent of Call Connection charges
Other Desc	char	60	Other descriptions
Misc Expense Desc1	char	50	Miscellaneous Expense Description
Misc Expense Desc2	char	50	Miscellaneous Expense Description
Misc Expense Desc3	char	50	Miscellaneous Expense Description
Misc Expense Desc4	char	50	Miscellaneous Expense Description
Amount Misc Expense1	num	12	Miscellaneous Expense Amount
Misc Expense1 CCD	char	3	Currency Code of the miscellaneous Expense Amount

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Misc Expense1 Exp	num	1	Currency Exponent of the miscellaneous Expense
Amount Misc Expense2	num	12	Miscellaneous Expense Amount
Misc Expense2 CCD	char	3	Currency Code of the miscellaneous Expense Amount
Misc Expense2 Exp	num	1	Currency Exponent of the miscellaneous Expense
Amount Misc Expense3	num	12	Miscellaneous Expense Amount
Misc Expense3 CCD	char	3	Currency Code of the miscellaneous Expense Amount
Misc Expense3 Exp	num	1	Currency Exponent of the miscellaneous Expense
Amount Misc Expense4	num	12	Miscellaneous Expense Amount
Misc Expense4 CCD	char	3	Currency Code of the miscellaneous Expense Amount
Misc Expense4 Exp	num	1	Currency Exponent of the miscellaneous Expense
Dtax1 Ind	char	1	Tax 1 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax1	num	12	Tax 1 Amount - the amount on the purchased service.
DTax1 CCD	char	3	Tax 1 Currency Code - the code identifying the currency of the tax amount.
Dtax1 Exp	num	1	Tax 1 Exponent - the indicator of the decimal point location in the tax amount.
Dtax1 Rate	num	5	Tax 1 Rate - the rate applied in relationship to the specific tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Dtax1 Rate Exp	num	1	Tax 1 Rate Exponent - indicator of the decimal location for the Tax Rate 1.
Dtax1 Applied Type	char	4	Tax 1 Applied Type - indicator used to further define tax categories.
Dtax1 Type Ind	char	2	Tax 1 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax1ID	char	20	Card Acceptor Tax ID 1 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Dtax2 Ind	char	1	Tax 2 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax2	num	12	Tax 2 Amount - the amount on the purchased service.
DTax2 CCD	char	3	Tax 2 Currency Code - the code identifying the currency of the tax amount.
Dtax2 Exp	num	1	Tax 2 Exponent - the indicator of the decimal point location in the tax amount.
Dtax2 Rate	num	5	Tax 2 Rate - the rate applied in relationship to the specific tax amount.
Dtax2 Rate Exp	num	1	Tax 2 Rate Exponent - indicator of the decimal location for the Tax Rate 2.
Dtax2 Applied Type	char	4	Tax 2 Applied Type - indicator used to further define tax categories.
Dtax2 Type Ind	char	2	Tax 2 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax2ID	char	20	Card Acceptor Tax ID 2 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3ID	char	20	Card Acceptor Tax ID 3 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax5	num	12	Tax 5 Amount - the amount on the purchased service.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax6 Ind	char	1	Tax 6 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax6	num	12	Tax 6 Amount - the amount on the purchased service.
DTax6 CCD	char	3	The code identifying the currency of the tax amount.
DTax6 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax6 Rate	num	5	Tax 6 Rate - the rate applied in relationship to the specific tax amount.
DTax6 Rate Exp	num	1	Tax 6 Rate Exponent - indicator of the decimal location for the Tax Rate 6.
DTax6 Applied Type	char	4	Tax 6 Applied Type - indicator used to further define tax categories.
DTax6 Type ID	char	2	Tax 6 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax6 ID	char	20	Card Acceptor Tax ID 6 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.

Form Field			
Name	Type	Len	Description
Amount	num	12	Line Item Amount
LineItem Total			
LineItem Total CCD	char	3	Currency Code of Line Item Amount
LineItem Total Exp	num	1	Currency Exponent of Line Amount

## E\_Invoice ADN DTL2

**Type:** Inquiry.

**Underlying Table:** E\_INVOICE\_ADN\_DTL2

Use this form to get full detail concerning Electronic Invoice data.

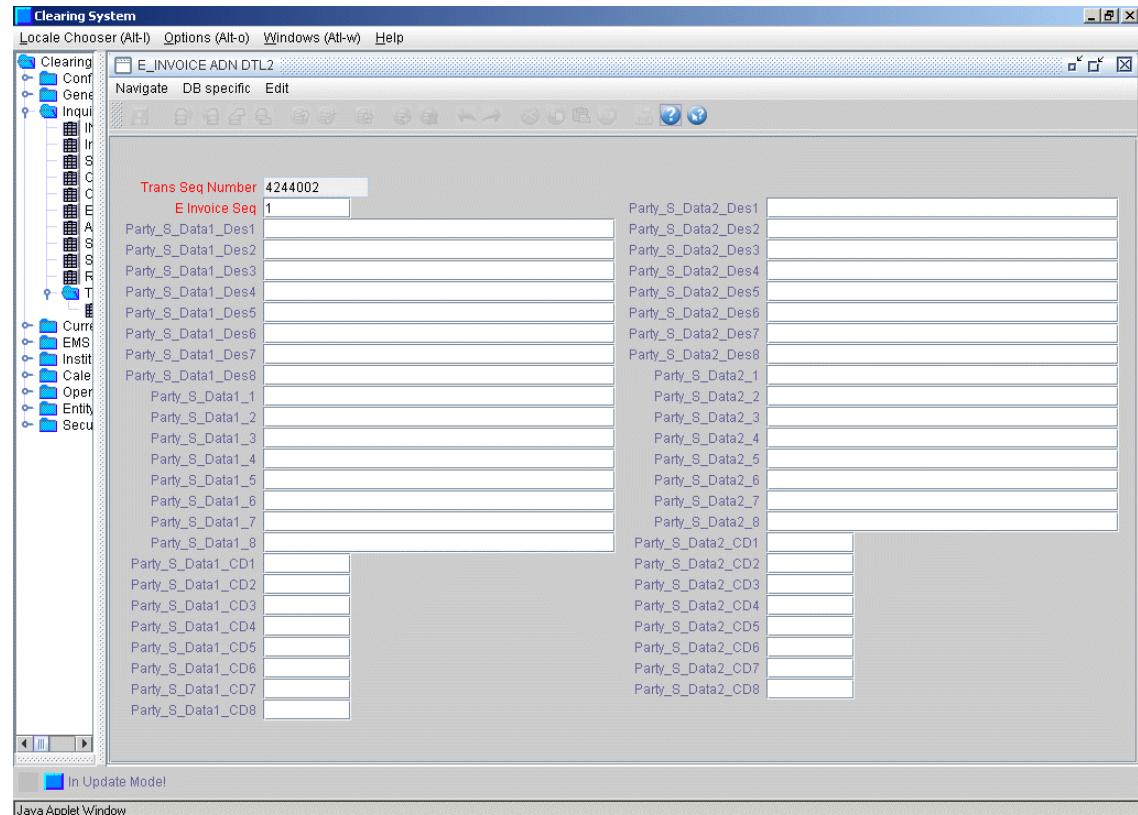


Figure 45 E\_Invoince ADN DTL2 form

## Access

Oasis Integrated GUI > Clearing > Inquiry > In Draft Main > **E\_Invoice ADN DTL2**

The form opens by default in the [Query Mode](#).

### **E\_Invoice ADN DTL2 Form Fields**

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
E Invoice Seq	num	3	Invoice Sequence Number
Party_S_Dat a1_Des1	char	40	Party Supplemental Data description 1
Party_S_Dat a1_Des2	char	40	Party Supplemental Data description 2
Party_S_Dat a1_Des3	char	40	Party Supplemental Data description 3
Party_S_Dat a1_Des4	char	40	Party Supplemental Data description 4
Party_S_Dat a1_Des5	char	40	Party Supplemental Data description 5
Party_S_Dat a1_Des6	char	40	Party Supplemental Data description 6
Party_S_Dat a1_Des7	char	40	Party Supplemental Data description 7
Party_S_Dat a1_Des8	char	40	Party Supplemental Data description 8
Party_S_Dat a1_1	char	40	Party Supplemental Data1
Party_S_Dat a1_2	char	40	Party Supplemental Data2
Party_S_Dat a1_3	char	40	Party Supplemental Data3
Party_S_Dat a1_4	char	40	Party Supplemental Data4
Party_S_Dat a1_5	char	40	Party Supplemental Data5

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Party_S_Dat a1_6	char	40	Party Supplemental Data6
Party_S_Dat a1_7	char	40	Party Supplemental Data7
Party_S_Dat a1_8	char	40	Party Supplemental Data8
Party_S_Dat a1_CD1	char	4	Party Supplemental Data Code 1
Party_S_Dat a1_CD2	char	4	Party Supplemental Data Code 2
Party_S_Dat a1_CD3	char	4	Party Supplemental Data Code 3
Party_S_Dat a1_CD4	char	4	Party Supplemental Data Code 4
Party_S_Dat a1_CD5	char	4	Party Supplemental Data Code 5
Party_S_Dat a1_CD6	char	4	Party Supplemental Data Code 6
Party_S_Dat a1_CD7	char	4	Party Supplemental Data Code 7
Party_S_Dat a1_CD8	char	4	Party Supplemental Data Code 8
Party_S_Dat a2_Des1	char	40	Party Supplemental Data2 Description
Party_S_Dat a2_Des2	char	40	Party Supplemental Data2 Description
Party_S_Dat a2_Des3	char	40	Party Supplemental Data2 Description
Party_S_Dat a2_Des4	char	40	Party Supplemental Data2 Description
Party_S_Dat a2_Des5	char	40	Party Supplemental Data2 Description
Party_S_Dat a2_Des6	char	40	Party Supplemental Data2 Description
Party_S_Dat a2_Des7	char	40	Party Supplemental Data2 Description

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Party_S_Dat a2_Des8	char	40	Party Supplemental Data2 Description
Party_S_Dat a2_1	char	40	Party Supplemental Data1
Party_S_Dat a2_2	char	40	Party Supplemental Data2
Party_S_Dat a2_3	char	40	Party Supplemental Data3
Party_S_Dat a2_4	char	40	Party Supplemental Data4
Party_S_Dat a2_5	char	40	Party Supplemental Data5
Party_S_Dat a2_6	char	40	Party Supplemental Data6
Party_S_Dat a2_7	char	40	Party Supplemental Data7
Party_S_Dat a2_8	char	40	Party Supplemental Data8
Party_S_Dat a2_CD1	char	4	Party Supplemental Data Code1
Party_S_Dat a2_CD2	char	4	Party Supplemental Data Code2
Party_S_Dat a2_CD3	char	4	Party Supplemental Data Code3
Party_S_Dat a2_CD4	char	4	Party Supplemental Data Code4
Party_S_Dat a2_CD5	char	4	Party Supplemental Data Code5
Party_S_Dat a2_CD6	char	4	Party Supplemental Data Code6
Party_S_Dat a2_CD7	char	4	Party Supplemental Data Code7
Party_S_Dat a2_CD8	char	4	Party Supplemental Data Code8

## Visa Addendum

**Type:** Inquiry.

**Underlying Table:** VISA\_ADN.

Use this form to monitor Visa addendum records.

Figure 46 Visa ADN Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Log > In Draft Main > **Visa ADN**.

The form opens by default in the [Query Mode](#).

### VISA ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Issuer WS BIN	char	6	Issuer Workstation BIN—a Visa Image Exchange Workstation BIN.
Acquirer WS BIN	char	6	Acquirer Workstation BIN—a Visa Image Exchange Workstation BIN.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Special Cond Ind	char	2	Special Condition Indicator—a code indicating special conditions.
Fee Prog Ind	char	3	Fee Program Indicator—a code indicating the kind of fee program applied.
Card Acceptor ID	char	30	The identification of the card acceptor.
Terminal ID	char	8	The identifier of a specific terminal, especially if the Card Acceptor ID has multiple terminals.
Natl Reimb Fee	num	12	National Reimbursement Fee—the applicable national reimbursement fee.
Natl Reimb Fee CCD	char	3	The currency code of the National Reimbursement Fee.
Natl Reimb Fee Exp	num	1	The decimal point location in the National Reimbursement Fee.
Moto E Com Ind	char	1	Mail Order Telephone Order Electronic Commerce Indicator—a flag indicating if this is mail, telephone, or electronic order.
Special Chgbk Ind	char	1	An indicator of a special chargeback. E.g. P = partial amount chargeback.
Interfacetrace Nbr	char	15	Interface Trace Number—a number allowing the support of a unique cardholder identifier.
Prepaid Card Ind	char	1	A flag indicating if this is a pre-paid card.
Service Dev Field	char	1	Service Development Field. E.g. 2=In-Flight Commerce.
AVS Response Cd	char	1	Address Verification Service Response Code. E.g. A=Address matches, but ZIP code does not match.
Auth Src Cd	char	1	Authorization Source Code—a code used to provide information on the source or origin of the authorization being settled.
Purchase ID Format	char	1	A code identifying if and what type of Purchase Identifier is associated with the transaction being settled.
ATM Acct Selection	char	1	ATM Account Selection—a flag indicating if the ATM account was selected.
Install Pmt Cnt	char	2	Installment Payment Counter—indicates the number of installment payments made.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Mbr Msg Txt	char	132	Member Message Text—the actual text of the message.
Purchase ID	char	25	An optional purchase identifier assigned by the merchant.
Amt Cashback	num	12	The cashback amount contained in the original authorization request message.
Cashback CCD	char	3	Code identifying the currency of the cashback.
Cashback Exp	num	1	The decimal position location in the Cashback Amount.
Chip Condition CD	char	1	A code providing information about magnetic stripe read transactions or integrated chip cards read on CCPS capable terminals. E.g. 2=last attempted chip read failed.
Fax Nbr	char	16	The telephone number of the fax machine.
Req Fulfill Method	char	1	Requested Fulfillment Method—an indicator if the issuer requested manual or automated fulfillment.
Est Fulfil Method	char	1	Established Fulfillment Method—an indicator of the fulfillment method that should be used as determined by the VIC.
Issuer RFC BIN	char	6	Issuer Request for Comments BIN—the identifier of the BASE II endpoint to which automated fulfillments and nonfulfillment should be routed.
Issuer RFC Subaddr	num	7	Issuer Request for Comments Sub-Address—for automated fax issuers, this field is used to specify the issuer's Public Network Mailbox. The first character identifies the Public Network, followed by the six-digit Mailbox ID.
Amt Issuer Bill	num	12	Issuer Billing Transaction Amount—the transaction amount in the billing currency.
Issuer Bill CCD	char	3	Issuer Billing Currency Code—the code identifying the billing currency used.
Issuer Bill Exp	num	1	Issuer Billing Currency Exponent—the decimal point location in the Issuer Billing Transaction Amount.
Trans ID	char	15	Transaction Identifier—the identifier of the transaction being settled.
Excl Trans Reason	char	1	Excluded Transaction Reason—the identifier of the reason why the transaction was excluded.
CRS Processing CD	char	1	Chargeback Reduction Service processing code.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Multi Clr Seq Nbr	num	2	The sequence number identifying a specific clearing transaction record when multiple records are submitted for a single authorization.
Debit Product CD	num	4	Debit Product Code—the code included in all non-Visa presentations acquired by the VisaNet Debit System. Plus issuers are required to retain the Debit Product Code in subsequent U. S. domestic chargebacks and retrieval requests if this field was received in the original transaction.
Contact	char	25	Contact for information.
POS Environment	char	1	POS Environment
Issuer Charge	char	1	Issuer Charge
Bus Format Code	char	2	Indicates the type of business that is applicable to this transaction.
Agent Unique ID	char	5	Contains an Agent Unique ID value.
Additional Authentication Method	char	2	Contains a valid VE-defined Additional Authentication Method value.
Additional Authentication Reason Code	char	2	Contains a valid VE-defined Additional Authentication Reason Code value.
Token Assurance Level	char	2	If the PAN participates in tokenization, holds token assurance level.
Pan Token	VarChar2	25	If the PAN participates in tokenization, this field holds the tokenized pan in the BASE II retrieval request record

## ICC Data

**Type:** Inquiry.

**Underlying Table:** ICC\_DATA.

Use this form to query Integrated Circuit Card data.

The screenshot shows the 'ICC DATA' inquiry screen within the 'Clearing System'. The left sidebar lists categories like 'Clearing', 'Conf', 'Gene', 'Inqui', and 'Trans Logs'. The main panel has tabs for 'Navigate', 'DB specific', and 'Edit'. Below these are several input fields and dropdown menus. A large area on the right contains a grid of status indicators with corresponding progress bars. The bottom status bar indicates 'In Update Model' and 'Java Applet Window'.

Field	Value
Trans Seq Number	4244002
App Crypto	CA06EA2C0991E723
Crypto Info Data	
Issuer App Data	
Unpredictable Nbr	077752
App Trans Cnt	0006
Tr	8000040000
Trans DT	Jun 4, 2005
Trans Type	01
Amt Crypto	0
Crypto CCD	
Crypto Exp	
App Ichg Profile	5C00
Terminal Cntry CD	300
Amt Other	[Progress Bar]
Other CCD	[Progress Bar]
Other Exp	[Progress Bar]
Issuer Auth Data	
Issuer Scr Tmp1	
Issuer Scr Tmp2	
Cvm Result	
Terminal Cap	60C020
Terminal Type	
Ifd Serial Nbr	
Dedicate File Name	
Terminal App Ver	
Trans Seq Cnt	3
Issuer Scr Result	
Tcc	
Amt Trans	
Trans CCD	
Trans Exp	
Common Core ID	
Issuer Discr Data	
CCD Counters	
Cvm Result Ext	
Iad First Length	
Iad Sec Length	

Figure 47 ICC Data Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **ICC Data**

The form opens by default in the [Query Mode](#).

## ICC Data Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
App Crypto	char	16	Applied Cryptogram—the 16-character long applied cryptogram. Allowed characters in this field are the numbers 0-9 and the letters A-F.
Crypto Info Data	char	2	Cryptogram Information Data—data indicating the type of cryptogram and the actions to be performed by the terminal.
Issuer App Data	char	64	Issuer Application Data—proprietary application data for transmission to the issuer in an online transaction.
Unpredictable Nbr	char	8	Unpredictable Number—a value that provides variability and uniqueness to the generation of a cryptogram. It must be display hexadecimal.
App Trans Cnt	char	4	Application Transaction Count—the counter maintained by the application in the Integrated Circuit Card.
Tvr	char	10	Terminal Verification Results—status of different functions as seen from the terminal.
Trans DT	date		Local date on which the transaction was authorized.
Trans Type	char	2	Transaction Type—specific type of financial detail transaction submitted to the clearing system. E.g. 02=Adjustment.
Amt Crypto	num	12	Cryptogram Amount
Crypto CCD	char	3	Cryptogram Currency Code
Crypto Exp	num	1	Cryptogram Exponent—decimal point location in the Cryptogram Amount.
App Ichg Profile	char	4	Application Interchange Profile—indicates the capabilities of the card to support specific functions in the application.
Terminal Cntry CD	char	3	Terminal Country Code—indicates the country of the terminal, represented according to ISO 3166.
Amt Other	num	12	Other Cryptogram Amount
Other CCD	char	3	Other Cryptogram Currency Code
Other Exp	num	1	Other Cryptogram Exponent
Issuer Auth Data	char	32	Issuer Authentication Data—data sent to the ICC for online issuer authentication.

Form Field Name	Type	Len	Description
Issuer Scr Tmp 1	char	256	Issuer Script Template 1—proprietary issuer data for transmission to the ICC before the second GENERATE AC command.
Issuer Scr Tmp 2	char	256	Issuer Script Template 2—proprietary issuer data for transmission to the ICC after the second GENERATE AC command.
CVM Result	char	8	Cardholder Verification Method (CVM) Result—indicator of the result of the last CVM performed.
Terminal Cap	char	6	Terminal Capabilities—an indicator of the card data input, CVM, and security capabilities of the terminal.
Terminal Type	char	2	The identifier of the type of terminal used at the point of interaction. Indicates the environment of the terminal, its communications capability, and its operational control.
IFD Serial Nbr	char	8	Interface Device (IFD) Serial Number—a unique permanent serial number assigned to the IFD by the manufacturer.
Dedicate File Name	char	32	Dedicated File (DF) Name—an identifier of the DF name as described in ISO/IEC 7816-4.
Terminal App Ver	char	4	Terminal Application Version number.
Trans Seq Cnt	char	8	Transaction Sequence Counter—a counter maintained by the terminal and incremented by one for each transaction.
Issuer Scr Result	char	10	Issuer Script Results—must be a displayable hexadecimal.
Tcc	char	4	Transaction Category Code
Amt Trans	num	15	Transaction amount.
Trans CCD	char	3	Transaction currency code.
Trans Exp	num	1	Currency exponent with the above currency code.
Common Core ID	char	2	Common core identifier
Issuer Discr Data	char	30	Issuer discretionary data
CCD Counters	char	16	CCD counters

Form Field			
Name	Type	Len	Description
Cvm Result Ext	char	2	CVM result extension
Iad First Length	char	2	IAD first length
Iad Sec Length	char	2	IAD second length

## Merchant Description

**Type:** Inquiry.

**Underlying Table:** MERCHANT\_DESC.

Use this form to monitor merchant related data.

The screenshot shows the 'MERCHANT DESC' form within the 'Clearing System' application. The form includes fields for Trans Seq Number (21049393), Merch Phone Nbr (Tel. 09-720 6060), Sole Proprietor Name, Sole Proprietor Middle Name, Sole Proprietor Last Name, Legal Corp Name, Dun Nbr, Merch Type, Merch Tax ID, Merch Ref Nbr, NW Merchant ID (1000058569400), MPS ID, TIN Type, OOB Date, Ownership Chg Date, Info Refusal Ind, Acq Severance Date, Wholesale Acq Bin, Discover Merch ID, Merch DNN ID, Merch DNN Prefix, DNN Invoice Nbr, Establish Alpha ID, Recap Ref Nbr, Invoice Batch, Invoice Sub CD, PC ID, Cap Nbr, Cust Srv Phone Nbr, Addtl Contact Info, Character Set Ind, Alt Merch Desc, Establishment Nbr, Alt Tax ID, CDCSE Nbr, and AMEX Seller ID. A status bar at the bottom indicates 'In Update Model' and 'Java Applet Window'.

Figure 48 Merchant Desc Form



## Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Merchant Desc.**

The form opens by default in the [Query Mode](#).

### Merchant Desc Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Merch PH Nbr	char	16	Merchant's telephone number
Sole P Name	char	30	If the incorporation status indicates an individual, or sole proprietorship, this field contains the first name of the owner.
Sole P Name Middle	char	41	If the incorporation status indicates an individual, or sole proprietorship, this field contains the middle name of the owner.
Sole P Name Last	char	25	If the incorporation status indicates an individual, or sole proprietorship, this field contains the last name of the owner.
Legal Corp Name	char	30	The legal corporation name of the card acceptor.
Dun Nbr	char	30	The number identifying the card acceptor merchant in the DUN & Bradstreet database (if applicable)
Merchant Type	char	4	Code categorizing the merchant based on the type of business conducted. This type is implied through the MCC.
Merch Tax ID	char	15	Identifier used for tax (or VAT) purposes.
Merch Ref Nbr	char	17	Merchant Reference Number.
NW Merchant ID	char	30	Merchant ID defined by network.
Mps ID	num	12	Merchant Profile Service ID
Tin Type	char	1	Identifier of the tax reporting number.
Oob Date	date		Out of business date—date when the merchant stopped conducting any Visa business.
Ownership Chg Date	date		Date on which the ownership of the business changed.



<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Info Refusal Ind	char	1	A flag indicating that the merchant refused to provide the requested information.
Acq Severance Date	date		The date on which the acquirer and the merchant severed their relationship.
Pfolio Acq Bin	char	6	Portfolio sale Acquirer BIN—if the merchant portfolio is sold, this field contains the BIN of the acquirer who purchased the portfolio.
Discover Merch ID	char	15	A unique identifier of a Discover merchant.
Merch Dnn ID	num	3	A unique three-digit merchant DNN prefix in Discover.
Merch Dnn Prfix	num	2	A unique three-digit merchant DNN prefix in Discover.
Dnn Invoice Nbr	char	8	A DNN invoice number in Discover.
Establish Alpha	char	4	Diners establishment alphabetical identifier.
Recap Ref Nbr	char	8	Diners reference number.
Invoice Batch	num	3	A three-digit code assigned by the American Express to specify the processing options applicable to this batch.
Invoice Sub CD	num	2	A unique code assigned by the American Express to specify additional Amex controls and processing requirements.
Pc ID	char	6	Process control identifier assigned by the American Express to merchants, locations, and third party processors.
Cap Nbr	char	10	Chain Affiliated Property Number for American Express.
Cust Srv PH Nbr	char	16	Customer service phone number of the merchant that accepted the card. The cardholder may use this number for inquiries on the transaction.
Addtl Contact Info	char	25	Additional contact information on the merchant that accepted the card. It can be an additional phone number, customer service operation hours, or a contact name.
Character Set Ind	char	3	Character Set Indicator—identifies the character set in which the alternate card acceptor description is provided.



Form Field			
Name	Type	Len	Description
Alt Merch Desc	char	96	An alternate description of the merchant that accepted the card. For example, a local language version of the merchant name.
Establishment Nbr	char	10	A ten-digit Service Establishment number assigned by American Express to identify and pay merchants.
Alt Tax ID	char	12	Tax identification number for the alternate tax amount.
CDCSE Nbr	char	10	Citicorp Diners Club number.
Seller ID	varchar2	20	For aggregators (third party billers) only, this field contains the Seller ID, a merchant-assigned, 20-byte (maximum), alphanumeric, seller/vendor code that uniquely identifies an aggregator's specific seller or vendor.

## Insurance Addendum

**Type:** Inquiry.

**Underlying Table:** INSURANCE\_ADN.

Use this form to query insurance addendum transactions.

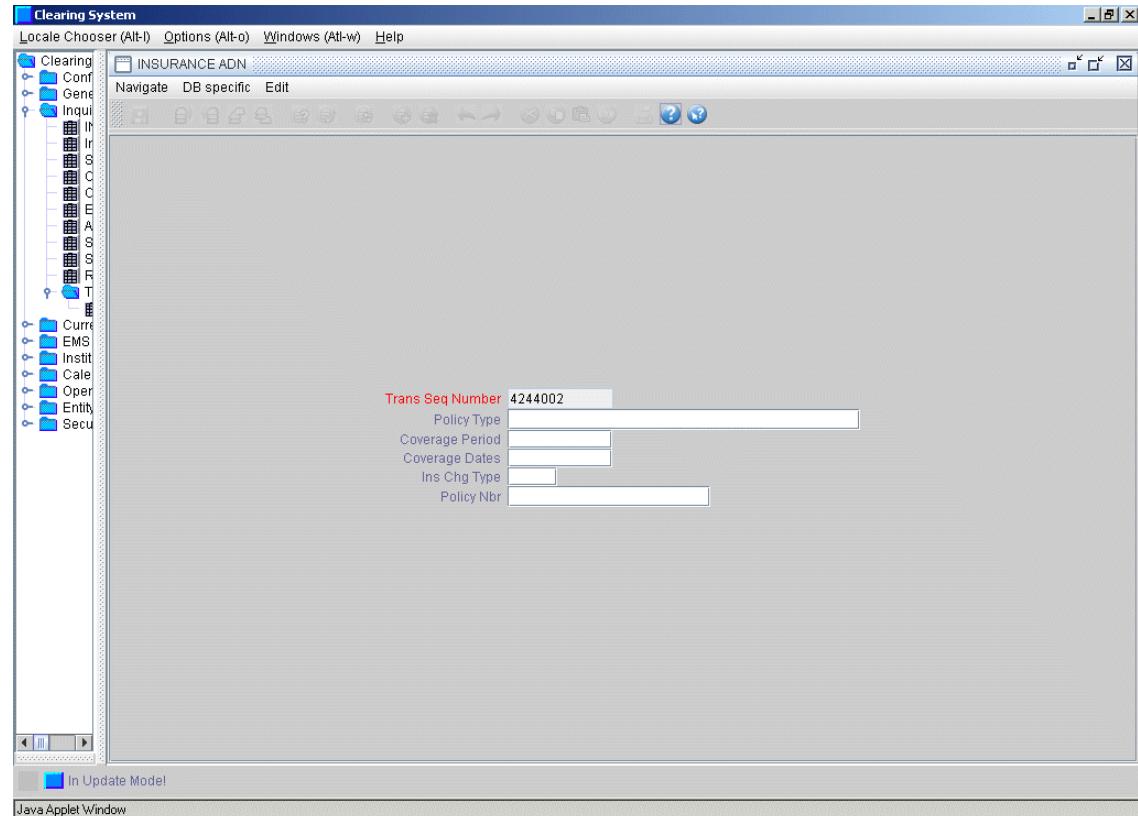


Figure 49 Insurance Adn Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Insurance ADN**.

The form opens by default in the [Query Mode](#).



## Insurance ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Policy Type	char	40	The type of policy issued according to insurance classification or description. (E.g. "term life", etc.)
Coverage Period	char	40	Coverage period—the text that forms part of the descriptive bill.
Coverage Dates	char	40	Dates of the policy coverage period. E.g. 12/05/2003-12/05/2004 for one year coverage beginning 5 December 2003.
Ins Chg Type	char	40	Insurance Charge Type—charge description indicating the purpose of the transaction. (E.g. Insurance premium, etc.)
Policy Nbr	char	23	Policy Number—the insurance policy number.

## IPM Reject Message

**Type:** Inquiry.

**Underlying Table:** IPM\_REJECT\_MSG.

Use this form to query IPM rejected messages.

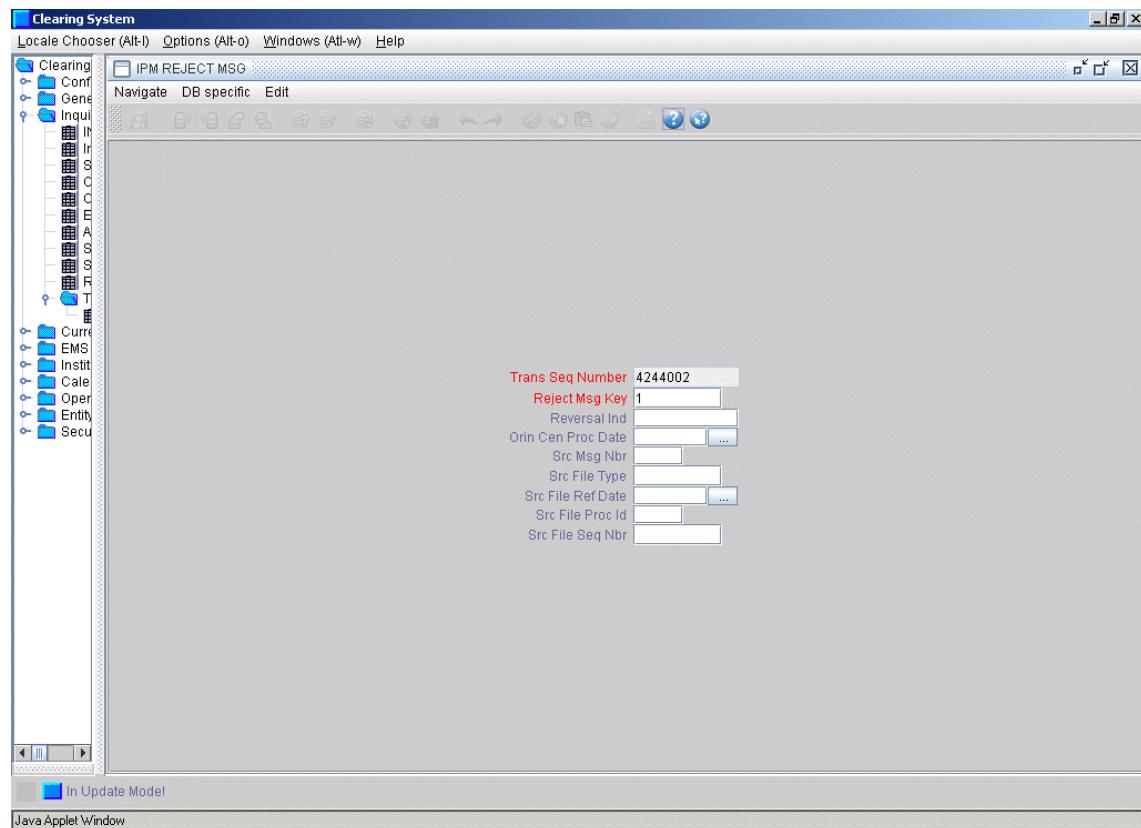


Figure 50 IPM Reject Msg Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **IPM Reject Msg**

The form opens by default in the [Query Mode](#).

### IPM Reject Msg Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Reject Msg Key	num	3	Rejected Message Key
Reversal Ind	char	1	File Reversal Indicator—a flag indicating that the entire clearing file should be reversed.

Form Field Name	Type	Len	Description
Orin Cen Proc Date	date		Original Centre Processing Date—the date when the file was generated at the originator of the transaction.
Src Msg Nbr	num	8	Source Message Number—the number of the message in the original data file that caused this message to be generated. Present if the clearing system can parse the rejected message.
Src File Type	num	3	Source File Type—a three-digit code used to indicate the type of the transmitted source file.
Src File Ref Date	date		Source File Reference date: <ul style="list-style-type: none"> <li>● For outgoing files (from the member to the clearing system)—the date when the transmitting processor processed or submitted the file. It must be less than or equal to the clearing system business processing date.</li> <li>● For incoming files (from the clearing system to the member)—the clearing system business processing date.</li> </ul>
Src File Proc Id	char	11	Source File Processor ID: <ul style="list-style-type: none"> <li>● for outgoing files—the member ID of the member, or processor, who submitted the file for outgoing files</li> <li>● for member inbound logical files (from the clearing system to the member)—the member ID of the member, or processor, who received the file.</li> </ul>
Src File Seq Nbr	num	5	Source File Sequence Number—a five-digit value assigned by the processor who submitted the file. It is unique for each Processor ID and File Reference Date.

## Amex Autocon Report

**Type:** Inquiry.

**Underlying Table:** AMEX\_AUTOCON\_RPT.

Use this form to query Amex reporting.

The screenshot shows the 'Clearing System' application window. The left sidebar contains a tree menu with nodes like 'Clearing System', 'Configuration Screen', 'General Setup', 'EMG Setup', 'Inquiry', 'IN File Control', 'In File Log', 'Suspend Transac...', 'Out File Log', 'Cut Off Batch', 'Edit List', 'Admin Msg Log', 'System Balancing', 'Suspend Transac...', 'Reject Transaction', 'Trans Logs', 'In Draft Main', 'Currency Conversion', 'Calendar Setup', 'Operations', 'Security', 'Entity Setup', and 'Institution Setup'. The 'In Draft Main' node is expanded, showing its sub-items. The main panel title is 'AMEX AUTOCON RPT'. Below it are buttons for 'Navigate', 'DB specific', and 'Edit'. A toolbar with various icons is at the top of the main panel. On the right side of the main panel, there is a form with fields: 'Trans Seq Number' (containing '4244002'), 'Ac Rpt ID' (containing '1'), 'Proc Center CD' (containing '1'), 'Pc ID' (containing '1'), 'Ac File Seq Nbr' (empty), 'Ac Rpt Date' (empty), 'Amex Proc Date' (empty), 'Curr Code' (empty), 'Ac Rpt Line1' (empty), 'Ac Rpt Line2' (empty), 'Ac Rpt Line3' (empty), 'Ac Rpt Line4' (empty), and 'Ac Rpt Line5' (empty). At the bottom of the main panel, there is a status bar with the message 'In Update Mode!' and 'Java Applet Window'.

Figure 51 Amex Autocon Rpt Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Amex Autocon Rpt.**

The form opens by default in the [Query Mode](#).



## Amex Autocon Rpt Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Ac Rpt ID	char	6	Autocon Report ID—a six-digit American Express report identification number.
Proc Center CD	char	4	Processing Centre Code
Pc ID	char	6	Process Control ID—a unique American Express identifier of merchants, locations, and third-party processors.
Ac File Seq Nbr	char	6	The sequence number of the file to which the report corresponds.
Ac Rpt Date	char	8	The date of the report.
Amex Proc Date	char	8	The processing date of the report.
Curr Code	char	3	ISO 4217 currency code.
Ac Rpt Line 1	char	80	Autocon Report Line 1—contains transmittal number, sequence number, and processing date.
Ac Rpt Line 2	char	80	Autocon Report Line 2 DEBIT—contains transmittal number, sequence number, and processing date.
Ac Rpt Line 3	char	80	Autocon Report Line 3 CREDIT—contains transmittal number, sequence number, and processing date.
Ac Rpt Line 4	char	80	Autocon Report Line 4 TOTAL—contains transmittal number, sequence number, and processing date.
Ac Rpt Line 5	char	80	Autocon Report Line 5—contains the sequence number.

## In Draft Amex

**Type:** Inquiry.

**Underlying Table:** IN\_DRAFT\_AMEX.

Use this form to query the incoming American Express draft data.

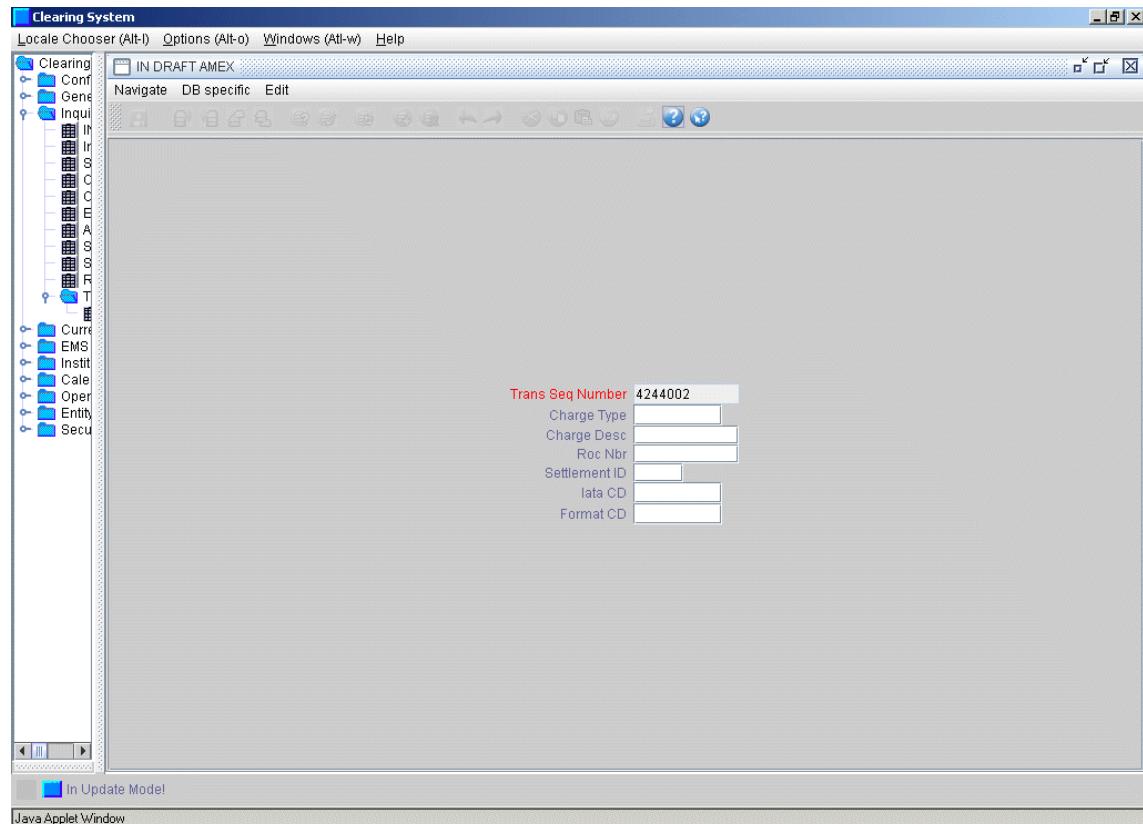


Figure 52 In Draft Amex Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **In Draft Amex.**

The form opens by default in the [Query Mode](#).

## In Draft Amex Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Charge Type	num	2	The classification of the charge, or the description of the purpose of the transaction.
Charge Desc	char	40	The description of the purchase associated with the charge. For example, auto repair.
Roc Nbr	char	10	Record of Charge for the credit or debit transaction. This record identifier the card member, the service establishment, the transaction amount and the descriptive data elements.
Settlement ID	char	6	The card issuer code identifying the settlement entity.
Iata CD	char	3	International Air Transport Association code used to identify the company that purchased the ticket.
Format CD	num	2	Code used to identify the structure and format of the message.

## Visa Return Reclassified Addendum (Visa Rtn Rclas Adn)

**Type:** Inquiry.

**Underlying Table:** VISA\_RTN\_RCLAS\_ADN.

Use this form to monitor Visa returned reclassified transaction records.

The screenshot shows the 'Visa Rtn Rclas Adn' form within the 'Clearing System' application. The interface includes a menu bar with 'Locale Chooser (Alt-l)', 'Options (Alt-o)', 'Windows (Alt-w)', and 'Help'. A toolbar with standard icons like back, forward, and search is visible above the main data area. The main window title is 'VISA RTN RCLAS ADN'. The form contains several input fields and dropdown menus. On the left, there are fields for 'Trans Seq Number' (3565002), 'Orig TC' (05), 'Orig TC Qualifier' (0), 'Orig TOR' (0), 'Src Batch Date' (02.10.21), 'Src Batch Nbr' (3), 'Item Seq Nbr' (710), 'Amt Orig Src' (15933), 'Orig Src CCD' (640), 'Orig Src Exp' (2), 'Orig Settl Flag' (0), 'Crs Flag' (0), 'Settled IFI' (0), 'Settled Auth Char' (0), 'Settled Req Pmt Sv' (0), and 'Settled Reimb Attr' (0). On the right, there are fields for 'Return Reason CD1' (1B), 'Return Reason CD2' (1B), 'Return Reason CD3' (1B), 'Return Reason CD4' (1B), 'Return Reason CD5' (1B), 'Derived Ifr Desc' (Settled Ifr Desc), 'Pmt Sv Recl Reason' (Submit Fee Prog Ind), 'Fee Prog Ind Rcl R' (Asses Fee Prog Ind), 'Fee Reclass Reason' (Fee Prog Ind Rcl R), 'Merch Vol Rcl Rsn' (Moto Eci Rclas Rsn), 'Amt Ichg Fee' (Aml Ichg Fee Ccd), 'Ichg Fee Exp' (Ichg Fee Exp), 'Ichg Fee Sign' (Ichg Fee Sign), and 'Txn Int Fee Reclass Reason' (12X). At the bottom, status messages indicate 'Current Record Number:1 and Database size:1' and 'User Name : sdfs'. A green bar at the bottom of the page contains the copyright information.

Figure 53 Visa Rtn Rclas Adn Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Visa Rtn Rclas Adn**

The form opens by default in the [Query Mode](#).

## Visa Rtn Rclas Adn Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Orig TC	char	2	Original Transaction Code—the transaction code of the returned item.
Orig TC Qualifier	char	1	Original Transaction Code Qualifier—the Transaction Code Qualifier of the returned item.
Orig TCR	char	1	Original Transaction Component Record sequence number of the item being returned.
Src Batch Date	date		The source batch date in the format YYDDD, year and Julian date.
Src Batch Nbr	num	4	Source Batch Number—the number of the original batch that contained the item being returned.
Item Seq Nbr	num	4	Item Sequence Number—the sequence number of the item being returned as it appears in the batch.
Amt Orig Src	num	12	Original Source Amount—the amount of the transaction in the original currency.
Orig Src CCD	char	3	Original Source Currency—ISO numeric code identifying the currency.
Orig Src Exp	num	1	Original Source Exponent—the decimal point location in the Original Source Amount.
Orig Settl Flag	char	1	The original settlement Flag. E.g. 0=Visa-settled transaction.
CRS Flag	char	1	Chargeback Reduction Service Return Flag. E.g. Transaction has been returned by the Chargeback Reduction Service.
Settled IFI	char	1	Settled International Fee Indicator—the IFI assigned by the VisaNet Interchange Centre and cleared to the issuer.
Settled Auth Char	char	1	Settled Authorization Characteristics Indicator—the Authorization Characteristics Indicator at which the transaction was settled and cleared to the issuer.
Settled Req Pmt Sv	char	1	Settled Requested Payment Service—the Requested Payment Service or the payment service at which the transaction was settled and cleared to the issuer.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Settled Reimb Attr	char	1	Settled Reimbursement Attribute—the Reimbursement Attribute at which the transaction was settled and cleared to the issuer.
Return Reason CD 1	char	3	The return reason code from BASE II or the first of five possible return reason codes from the Chargeback Reduction Service.
Return Reason CD 2	char	3	The second of five possible return reason codes from the Chargeback Reduction Service.
Return Reason CD 3	char	3	The third of five possible return reason codes from the Chargeback Reduction Service.
Return Reason CD 4	char	3	The fourth of five possible return reason codes from the Chargeback Reduction Service.
Return Reason CD 5	char	3	The fifth of five possible return reason codes from the Chargeback Reduction Service.
Derived IRF Desc	char	16	Derived Interchange Reimbursement Fee Descriptor—the descriptor for the IRF derived from the fields submitted in the transaction.
Settled IRF Desc	char	16	Settled Interchange Reimbursement Fee Descriptor—the descriptor for the IRF at which the transaction was settled.
Pmt Sv Recl Reason	char	3	Payment Service Reclassification Reason—code identifying the reason for the change of the payment service.
Submt Fee Progr Ind	char	3	Submitted Fee Program Indicator—code indicating that the requested Fee Program is present in the transaction, if applicable. If no indicator is submitted, this field contains zeros.
Access Fee Prog Ind	char	3	Access Fee Program Indicator—code indicating the Fee Program for which the transaction qualified.
Fee Prog Ind Rcl R	char	3	Fee Program Indicator Reclassification Reason—code identifying the reason for the change of the Fee Program Indicator, if applicable.
Fee Reclass Reason	char	3	Fee Reclassification Reason—code indicating the reason for the change of a fee, if applicable.



Form Field			
Name	Type	Len	Description
Merch Vol Rcl Rsn	char	3	Merchant Volume Reclassification Reason—code identifying the reason for the change of the merchant volume indicator, if applicable.
Txn Int Fee Reclass Reason	char	3	Transaction Integrity Fee Reclassification Reason Code.
Settl Send Qual Ind	char	1	Settlement Spend Qualification Indicator

## Temporary Serv ADN

**Type:** Inquiry.

**Underlying Table:** TEMPORARY\_SERV\_ADN

Use this form to query the full detail concerning the Temporary Service data.

Figure 54 Temporary Serv ADN Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Temporary Serv Adn**

The form opens by default in the [Query Mode](#).



## Temporary Serv ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Temporary Serv Adn Seq	num	3	System assigned Sequential number.
Customer CD	char	17	A code supplied by the cardholder to the merchant.
Amount Total Tax	num	12	The total tax amount for the purchased item.
Total Tax CCD	char	3	The code identifying the currency of the tax amount.
Total Tax Exp	num	1	The indicator of the decimal point location in the tax amount.
Total Tax Coll Ind	char	1	Total Tax Collected Indicator - an indicator used to reflect sales tax capture and reporting.
Commodity CD	char	15	Identifier, assigned by the card acceptor, that best categorizes the goods or services offered in a standardized commodity group.
Reg Hour Workd	num	6	Regular Hours Worked - hours worked excluding overtime.
Reg Hour Workd Exp	num	1	Regular Hours Worked Exponent.
Reg Hour Rate	num	6	Regular Hours Rate - rate paid per hour.
Reg Hour Rate Exp	num	1	Regular Hours Rate Exponent.
Ot Hour Workd	num	6	Overtime Hours Worked - number of hours worked overtime.
Ot Hour Workd Exp	num	1	Overtime Hours Worked Exponent.
Ot Hour Workd Rate	num	6	Overtime Hours Rate - rate of overtime pay.
Temp Start Date	date		Temp Start Date - work assignment start date.
Temp Week Ending	date		Temp Week Ending - work assignment or week end date.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Requestor Name Id	char	40	Requestor Name or ID.
Supervisor Rpt To	char	40	The employee's supervisor, or the person the employee reports to.
Time Sheet Number	char	20	Time Sheet Number.
Amount Discount	num	12	Discount Amount.
Discount CCD	char	3	Currency code of the Discount Amount.
Discount Exp	num	1	Decimal point location in the Discount Amount.
Amount Sub Total	num	12	Subtotal Amount.
Sub Total CCD	char	3	Currency code of the Subtotal Amount.
Sub Total Exp	num	1	Decimal point location in the Subtotal Amount.
Misc Expense Desc1	char	50	Description of Miscellaneous Expense 1.
Misc Expense Desc2	char	50	Description of Miscellaneous Expense 2.
Misc Expense Desc3	char	50	Description of Miscellaneous Expense 3.
Misc Expense Desc4	char	50	Description of Miscellaneous Expense 4.
Amount Misc Expense1	num	12	Amount of Miscellaneous Expense 1.
Misc Expense1 CCD	char	3	Currency code of the Miscellaneous Expense 1 amount.
Misc Expense1 Exp	num	1	Decimal position location in the Miscellaneous Expense 1 amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Amount Misc Expense2	num	12	Amount of Miscellaneous Expense 2.
Misc Expense2 CCD	char	3	Currency code of the Miscellaneous Expense 2 amount.
Misc Expense2 Exp	num	1	Decimal position location in the Miscellaneous Expense 2 amount.
Amount Misc Expense3	num	12	Amount of Miscellaneous Expense 3.
Misc Expense3 CCD	char	3	Currency code of the Miscellaneous Expense 3 amount.
Misc Expense3 Exp	num	1	Decimal position location in the Miscellaneous Expense 3 amount.
Amount Misc Expense4	num	12	Amount of Miscellaneous Expense 4.
Misc Expense4 CCD	char	3	Currency code of the Miscellaneous Expense 4 amount.
Misc Expense4 Exp	num	1	Decimal position location in the Miscellaneous Expense 4 amount.
Dtax1 Ind	char	1	Tax 1 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax1	num	12	Tax 1 Amount - the amount on the purchased service.
DTax1 CCD	char	3	Tax 1 Currency Code - the code identifying the currency of the tax amount.
Dtax1 Exp	num	1	Tax 1 Exponent - the indicator of the decimal point location in the tax amount.
Dtax1 Rate	num	5	Tax 1 Rate - the rate applied in relationship to the specific tax amount.
Dtax1 Rate Exp	num	1	Tax 1 Rate Exponent - indicator of the decimal location for the Tax Rate 1.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Dtax1 Applied Type	char	4	Tax 1 Applied Type - indicator used to further define tax categories.
Dtax1 Type Ind	char	2	Tax 1 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax1ID	char	20	Card Acceptor Tax ID 1 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
Dtax2 Ind	char	1	Tax 2 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount Dtax2	num	12	Tax 2 Amount - the amount on the purchased service.
DTax2 CCD	char	3	Tax 2 Currency Code - the code identifying the currency of the tax amount.
Dtax2 Exp	num	1	Tax 2 Exponent - the indicator of the decimal point location in the tax amount.
Dtax2 Rate	num	5	Tax 2 Rate - the rate applied in relationship to the specific tax amount.
Dtax2 Rate Exp	num	1	Tax 2 Rate Exponent - indicator of the decimal location for the Tax Rate 2.
Dtax2 Applied Type	char	4	Tax 2 Applied Type - indicator used to further define tax categories.
Dtax2 Type Ind	char	2	Tax 2 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax2ID	char	20	Card Acceptor Tax ID 2 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax3 Ind	char	1	Tax 3 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
Amount DTax3	num	12	Tax 3 Amount - the amount on the purchased service.
DTax3 CCD	char	3	Tax 3 Currency Code - the code identifying the currency of the tax amount.
DTax3 Exp	num	1	Tax 3 Exponent - the indicator of the decimal point location in the tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax3 Rate	num	5	Tax 3 Rate - the rate applied in relationship to the specific tax amount.
DTax3 Rate Exp	num	1	Tax 3 Rate Exponent - indicator of the decimal location for the Tax Rate 3.
DTax3 Applied Type	char	4	Tax 3 Applied Type - indicator used to further define tax categories.
DTax3 Type ID	char	2	Tax 3 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax3ID	char	20	Card Acceptor Tax ID 3 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax4 Ind	char	1	Tax 4 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax4	num	12	Tax 4 Amount - the amount on the purchased service.
DTax4 CCD	char	3	The code identifying the currency of the tax amount.
DTax4 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax4 Rate	num	5	Tax 4 Rate - the rate applied in relationship to the specific tax amount.
DTax4 Rate Exp	num	1	Tax 4 Rate Exponent - indicator of the decimal location for the Tax Rate 4.
DTax4 Applied Type	char	4	Tax 4 Applied Type - indicator used to further define tax categories.
DTax4 Type ID	char	2	Tax 4 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax4 ID	char	20	Card Acceptor Tax ID 4 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax5 Ind	char	1	Tax 5 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax5	num	12	Tax 5 Amount - the amount on the purchased service.
DTax5 CCD	char	3	The code identifying the currency of the tax amount.
DTax5 Exp	num	1	The indicator of the decimal point location in the tax amount.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
DTax5 Rate	num	5	Tax 5 Rate - the rate applied in relationship to the specific tax amount.
DTax5 Rate Exp	num	1	Tax 5 Rate Exponent - indicator of the decimal location for the Tax Rate 5.
DTax5 Applied Type	char	4	Tax 5 Applied Type - indicator used to further define tax categories.
DTax5 Type ID	char	2	Tax 5 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax5 ID	char	20	Card Acceptor Tax ID 5 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.
DTax6 Ind	char	1	Tax 6 Indicator - used to reflect additional tax capture and reporting. Sample values: Y = tax included in total purchase amount; N = tax not included in total purchase amount.
DAmount Tax6	num	12	Tax 6 Amount - the amount on the purchased service.
DTax6 CCD	char	3	The code identifying the currency of the tax amount.
DTax6 Exp	num	1	The indicator of the decimal point location in the tax amount.
DTax6 Rate	num	5	Tax 6 Rate - the rate applied in relationship to the specific tax amount.
DTax6 Rate Exp	num	1	Tax 6 Rate Exponent - indicator of the decimal location for the Tax Rate 6.
DTax6 Applied Type	char	4	Tax 6 Applied Type - indicator used to further define tax categories.
DTax6 Type ID	char	2	Tax 6 Type ID - indicator of the type of tax collected in relationship to a specific tax amount.
Crd Accept Tax6 ID	char	20	Card Acceptor Tax ID 6 - an identification number used by the card acceptor with the tax authority in relationship to the specific tax amount.

## E\_Invoice ADN

**Type:** Inquiry.

**Underlying Table:** E\_INVOICE\_ADN

Use this form to query the full detail concerning the Electronic Invoice data.

The screenshot shows the 'Clearing System' application window with the title 'E\_INVOICE ADN'. The left sidebar contains a tree view of system modules, with 'Inquiry' selected. The main panel displays a form with fields for 'Trans Seq Number' (set to 4244002), 'Invoice Number' (empty), 'Invoice Date' (empty), and 'Invoice' (empty). Below these are two columns of data entries, each consisting of a label and a text input field. The labels are: Trans\_S\_Data1\_Des1 through Trans\_S\_Data1\_Des8, Trans\_S\_Data2\_Des1 through Trans\_S\_Data2\_Des8, Trans\_S\_Data2\_CD1 through Trans\_S\_Data2\_CD8. The bottom status bar indicates 'In Update Model' and 'Java Applet Window'.

Figure 55 E\_Invoice ADN Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **E\_Invoice Adn**

The form opens by default in the [Query Mode](#).

## E\_Invoice ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Invoice Number	char	25	Invoice Number
Invoice Date	date		Invoice Date
Invoice	date		Invoice Creation Date/Time
Trans_S_Data1_Des1	char	40	Transaction Supplementary data description1
Trans_S_Data1_Des2	char	40	Transaction Supplementary data description2
Trans_S_Data1_Des3	char	40	Transaction Supplementary data description3
Trans_S_Data1_Des4	char	40	Transaction Supplementary data description4
Trans_S_Data1_Des5	char	40	Transaction Supplementary data description5
Trans_S_Data1_Des6	char	40	Transaction Supplementary data description6
Trans_S_Data1_Des7	char	40	Transaction Supplementary data description7
Trans_S_Data1_Des8	char	40	Transaction Supplementary data description8
Trans_S_Data1_1	char	40	Transaction Supplementary data1
Trans_S_Data1_2	char	40	Transaction Supplementary data2
Trans_S_Data1_3	char	40	Transaction Supplementary data3
Trans_S_Data1_4	char	40	Transaction Supplementary data4
Trans_S_Data1_5	char	40	Transaction Supplementary data5

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Trans_S_Dat a1_6	char	40	Transaction Supplementary data6
Trans_S_Dat a1_7	char	40	Transaction Supplementary data7
Trans_S_Dat a1_8	char	40	Transaction Supplementary data8
Trans_S_Dat a_CD1	char	4	Transaction Supplementary data code1
Trans_S_Dat a_CD2	char	4	Transaction Supplementary data code2
Trans_S_Dat a_CD3	char	4	Transaction Supplementary data code3
Trans_S_Dat a_CD4	char	4	Transaction Supplementary data code4
Trans_S_Dat a_CD5	char	4	Transaction Supplementary data code5
Trans_S_Dat a_CD6	char	4	Transaction Supplementary data code6
Trans_S_Dat a_CD7	char	4	Transaction Supplementary data code7
Trans_S_Dat a_CD8	char	4	Transaction Supplementary data code8
Trans_S_Dat a2_Des1	char	40	Transaction Supplementary data2 description1
Trans_S_Dat a2_Des2	char	40	Transaction Supplementary data2 description2
Trans_S_Dat a2_Des3	char	40	Transaction Supplementary data2 description3
Trans_S_Dat a2_Des4	char	40	Transaction Supplementary data2 description4
Trans_S_Dat a2_Des5	char	40	Transaction Supplementary data2 description5
Trans_S_Dat a2_Des6	char	40	Transaction Supplementary data2 description6
Trans_S_Dat a2_Des7	char	40	Transaction Supplementary data2 description7

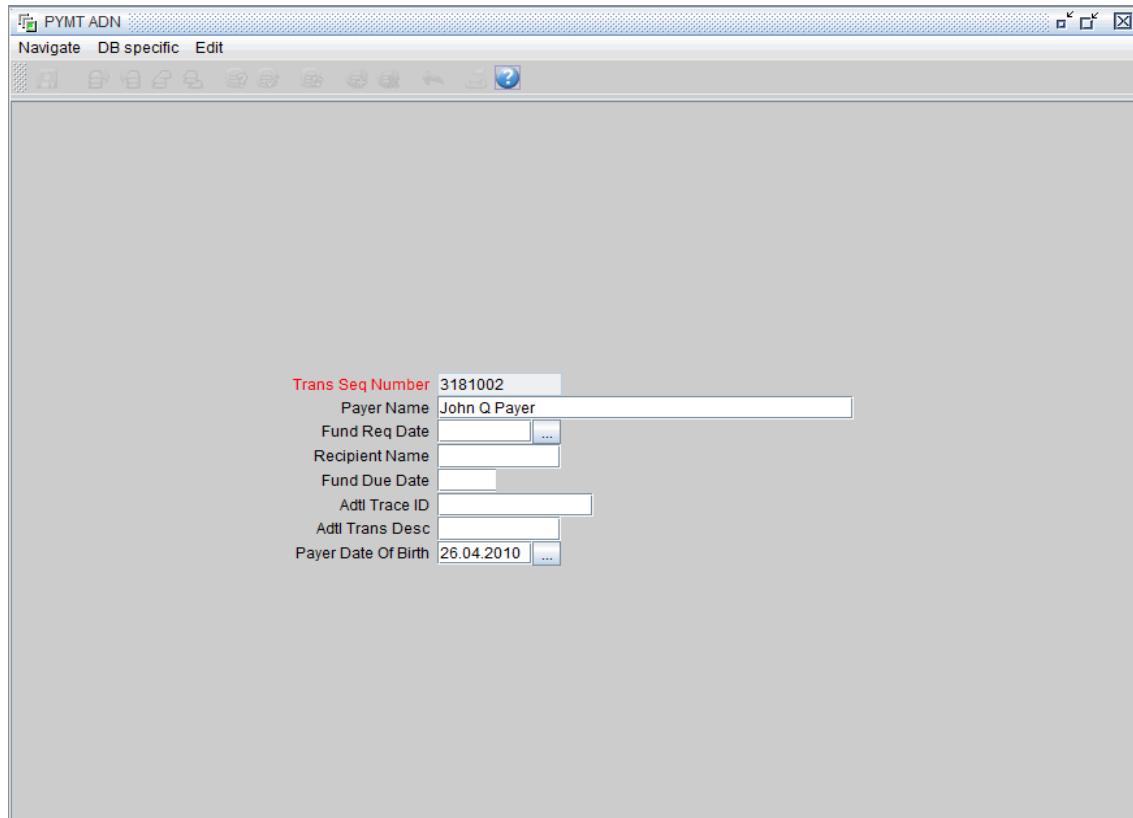
<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Trans_S_Data2_Des8	char	40	Transaction Supplementary data2 description8
Trans_S_Data2_1	char	40	Transaction Supplementary data1
Trans_S_Data2_2	char	40	Transaction Supplementary data2
Trans_S_Data2_3	char	40	Transaction Supplementary data3
Trans_S_Data2_4	char	40	Transaction Supplementary data4
Trans_S_Data2_5	char	40	Transaction Supplementary data5
Trans_S_Data2_6	char	40	Transaction Supplementary data6
Trans_S_Data2_7	char	40	Transaction Supplementary data7
Trans_S_Data2_8	char	40	Transaction Supplementary data8
Trans_S_Data2_CD1	char	4	Transaction Supplementary data2 code1
Trans_S_Data2_CD2	char	4	Transaction Supplementary data2 code2
Trans_S_Data2_CD3	char	4	Transaction Supplementary data2 code3
Trans_S_Data2_CD4	char	4	Transaction Supplementary data2 code4
Trans_S_Data2_CD5	char	4	Transaction Supplementary data2 code5
Trans_S_Data2_CD6	char	4	Transaction Supplementary data2 code6
Trans_S_Data2_CD7	char	4	Transaction Supplementary data2 code7
Trans_S_Data2_CD8	char	4	Transaction Supplementary data2 code8

## PYMT ADN

**Type:** Inquiry.

**Underlying Table:** PYMT\_ADN

Use this form to query the full detail concerning the Payment data.



Trans Seq Number	3181002
Payer Name	John Q Payer
Fund Req Date	<input type="text"/> ...
Recipient Name	<input type="text"/>
Fund Due Date	<input type="text"/>
Adtl Trace ID	<input type="text"/>
Adtl Trans Desc	<input type="text"/>
Payer Date Of Birth	26.04.2010 <input type="button" value="..."/>

Figure 56 Pymt ADN Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > Trans Logs > In Draft Main > **Pymt Adn**

The form opens by default in the [Query Mode](#).



## PyMt ADN Form Fields

Form Field Name	Type	Len	Description
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.
Payer Name	char	40	Invoice Payer Name.
Fund Req Date	date		Date of funds requested.
Recipient Name	char	40	Recipient (seller) Name.
Fund Due Date	date		Date of Anticipated receipt of Funds.
Adtl Trace ID	char	15	Additional Trace/Reference number used by the card acceptor.
Adtl Trans Desc	char	15	Addition transaction description data.
Payer Date Of Birth	Date		Holds the date of birth for Money Send Addendum.

## Clearing Message Log

**Type:** Log.

**Underlying Table:** CLR\_MSG\_LOG.

The Clearing Message Log form shows the transaction details stored in the CLR\_MSG\_LOG table in the binary format into a readable format.

Each transaction may have one or more of the segments given below associated with it and is stored in one clr\_msg\_log log record. This form gets the transaction details of these segments from the clr\_msg\_log record associated with the IN\_DRAFT\_MAIN transaction and displays them in a readable format.

Addendum Name:

- Airline Additional Detail Message
- Airline Routing Detail Message
- ATM Additional Detail Message
- Car Rental Additional Detail Message
- Gasoline Additional Detail Message
- Hotel Additional Detail Message
- Rail Additional Detail Message

- Rail Routing Detail Message
- Restaurant Additional Detail Message
- Telephone Additional Detail Message
- Chip Card Additional Detail Message

**Access:** Clearing System > Inquiry > Trans Logs > Transaction Inquiry > **Clearing Message Log**

## Airline Additional Detail Message

The screenshot shows a Windows application window titled "Detail Message". The window is part of a larger application with a menu bar at the top: "Clearing Message Log", "Navigate", "DB specific", and "Edit". A toolbar is visible above the main area. The main area is titled "Airline Add - Airline Additional Message". On the left, there's a tree view with "Function C" expanded, showing "XA" selected. The right side contains several input fields grouped into two columns:

Function Code	XA	Ticket issuing airline Code	110
Booking Ref#	AIRLINE REF NO	Agent Fees	1000
Agent Fee Ref	AGENT REF BOOKING	Agent Fee Desc	AGENT FEE DESCRIPTION
IATA Agent code	8610530	IATA Agent Trading name	AGENT TRADING NAME SA
Agent Address line 1	NGEETHA SUDHAKAR G	Agent Address line 2	28 GOPALAKRISHNA STREET B4 SUB
Agent Address line 3	HU TNAGAR	Agent City	CHENNAI
Agent State/County	TAMILNADU	Agent Zip Code	600017
Agent Geo Code	129	Agent Int Dial Code	000091
Agent Area Code	011892	Agent Telephone#	27528227528A
Computerized Reserv Sys Code	B	OK	

Figure 57 Airline Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XA"
Booking Ref#	char	20	
Agent Fee Ref	char	20	
IATA Agent Code	char	8	

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Agent Address Line1	char	32	
Agent Address Line 3	char	32	
Agent State/Country	char	30	
Agent Geo Code	char	3	
Agent Area Code	char	6	
Computerised Reserv Sys Code	char	4	
Ticket Issuing Airline Code	num	3	
Agent Fees	num	12	
Agent Fee Description	char	32	
IATA Agent Trading Name	char	32	
Agent Address Line2	char	32	
Agent City	char	30	
Agent ZIP Code	char	10	
Agent Intl Dial Code	char	6	
Agent Telephone #	char	12	

## Airline Routing Message

Clearing Message Log

Navigate DB specific Edit

**Detail Message**

Airline Routing - Airline Routing Message

Function Code	XB	Ticket#	1000333331
Ticket Check Digit	4	Passenger Name	1SMITH\JOHN PAPA
First leg Carrier code	DEL	First leg Flight#	702
First leg Depart Airport Code	4LHR	First leg Depart Date	5102
First leg Depart Time	1122	First leg Arr Airport Code	0FRA1
First leg Arr date	302051	First leg Arr time	2060
First leg Fare Amt	15000000	First leg Fare Basis	0000000000200008
First leg Class of Travel	N	First leg Stop over allowed	
Second leg Carrier code		Second leg Flight#	0
Second leg Depart Airport Code		Second leg Depart Date	0
Second leg Depart Time	0	Second leg Arr Airport Code	
Second leg Arr date	0	Second leg Arr time	0
Second leg Fare Amt	0	Second leg Fare Basis	
Second leg Class of Travel		Second leg Stop over allowed	
Third leg Carrier code		Third leg Flight#	0
Third leg Depart Airport Code		Third leg Depart Date	0
Third leg Depart Time	0	Third leg Arr Airport Code	
Third leg Arr date	0	Third leg Arr time	0
Third leg Fare Amt	0	Third leg Fare Basis	
Third leg Carrier code		Third leg Stop over allowed	
Fourth leg Carrier code		Fourth leg Flight#	0
Fourth leg Depart Airport Code		Fourth leg Depart Date	0
Fourth leg Depart Time	0	Fourth leg Arr Airport Code	
Fourth leg Arr date	0	Fourth leg Arr time	0
Fourth leg Fare Amt	0	Fourth leg Fare Basis	
Fourth leg Carrier code			

OK

Figure 58 Airline Routing Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid Value:"XB"
Ticket Check Digit	num	1	
First Leg Carrier Code	char	4	
First Leg Depart Airport Code	char	6	
First Leg Depart Time	num	4	
First Leg Arr Date	date	6	
First Leg Fare Amount	num	15	
First Leg Class of Travel	char	1	
Second Leg Carrier Code	char	4	

Form Field Name	Type	Len	Description
Second Leg Depart Airport Code	char	6	
Second Leg Depart Time	num	4	
Second Leg Arr Date	date	6	
Second Leg Fare Amt	num	15	
Second Leg Class of Travel	char	1	
Third Leg Carrier Code	char	4	
Third Leg Depart Airport Code	char	6	
Third Leg Depart Time	num	4	
Third Leg Arr Date	date	6	
Third Leg Fare Amount	num	15	
Third Leg Carrier Code	char	4	
Fourth Leg Carrier Code	char	4	
Fourth Leg Depart Airport Code	char	6	
Fourth Leg Depart Time	num	4	
Fourth Leg Arr Date	date	6	
Fourth Leg Fare Amt	num	15	
Fourth Leg Carrier Code	char	4	
Ticket#	char	10	
Passenger Name	char	49	
First Leg Flight #	num	4	
First Leg Depart Date	date	6	
First Leg Arri Airport Code	char	6	
Firt Leg Arr Time	num	4	
First Leg Fare Basis	num	15	
First Leg Stop Over Allowed	char	1	
Second Leg Flight#	num	4	
Second Leg Depart Date	date	6	
Second Leg Arri Airport Code	char	6	
Second Leg Arr Time	num	4	

Form Field Name	Type	Len	Description
Second Leg Fare Basis	num	15	
Second Leg Stopover allowed	char	1	
Third Leg Flight#	num	4	
Third Leg Depart Date	date	6	
Third Leg Arri Airport Code	char	6	
Third Leg Arr Time	num	4	
Third Leg Fare Basis	num	15	
Third Leg Stop Over Allowed	char	1	
Fourth Leg Flight#	num	4	
Fourth Leg Depart Date	date	6	
Fourth Leg Arri Airport Code	char	6	
Fourth Leg Arr Time	num	4	
Fourth Leg Fare Basis	num	15	

## ATM Additional Detail Message

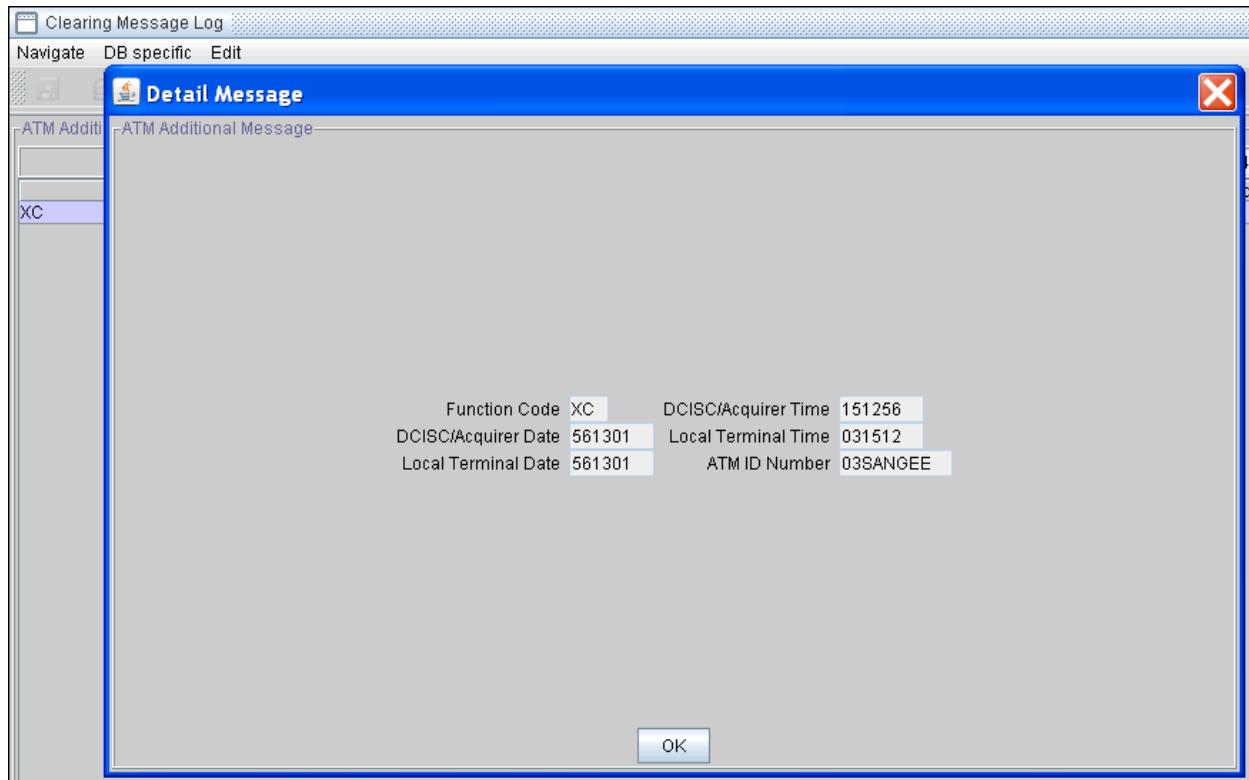


Figure 59 ATM Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XC"
DCISC/Acquirer Date	date	6	
Local Terminal Date	date	6	
DSISC/Acquirer Time	num	6	
Local Terminal Time	num	6	
ATM ID Number	char	8	

## Car Rental Additional Message

The screenshot shows a software application window titled "Detail Message". The main area displays a form for a "Car Rental Additional Message". The form includes the following fields:

Function Code	XV	Rental Agreement#	AGM1234567
Renter Name	JOHN ABRAHAM LINTON JOE	Car Pickup City	PHOENIX CITY CENTER
Car Pickup State/County/Province	ARIZONA STATE	Car Pickup Country	USA
Car Pickup Date	130129	Car Pickup time	940
City of car return	FLAGSTAFF CITY CENTER	State/County/Province of Return	ARIZONA STATE
Country of Return	USA	Date of Return	130205
Time of Return	1050	Class of car	COMP
Weekly Rental Rate	000000000000300	Daily Rental Rate	300
Rate per mile/km	300	Total Rental distance	100
Free mile/km	10	Insurance Charges	300
Fuel Charges	300	Miles or Kilometres	K
One way drop charge	300	Auto towing charge	300
Regular mileage charge	300	Extra mileage charge	300
Late return charge	300	Telephone charge	300
Other charges	300	No show charges flag	1

At the bottom right of the form is an "OK" button.

Figure 60 Car Rental Additional Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XV"
Renter Name	char	49	
CarPickup State/Country/Province	char	20	
Car Pickup Date	date	6	
City of Car return	char	26	
Time of Return	num	4	
Weekly Rental Rate	char	15	
Rate per mile/km	num	15	

Form Field Name	Type	Len	Description
Free Mile/km	num	5	
Fuel Charges	num	15	
One way drop charge	num	15	
Regualr Mileage Charge	num	15	
Late Return Charge	num	15	
Other Charges	num	15	
Rental Agreement#	char	10	
Car Pickup City	char	26	
Car Pickup Time	num	4	
State/Country/Provinve of Return	char	20	
Date of Return	date	6	
Class of car	char	4	
Daily Rental Rate	num	15	
Total Rental Distance	num	5	
Insurance Charges	num	15	
Miles or Kilometres	char	1	'K' or 'M'
Auto towing Charge	num	15	
Extra Mileage Charge	num	15	
Telephone Charge	num	15	
No Show Charges flag	char	1	0-Not applicable 1-No show

## Gasoline Additional Detail Message

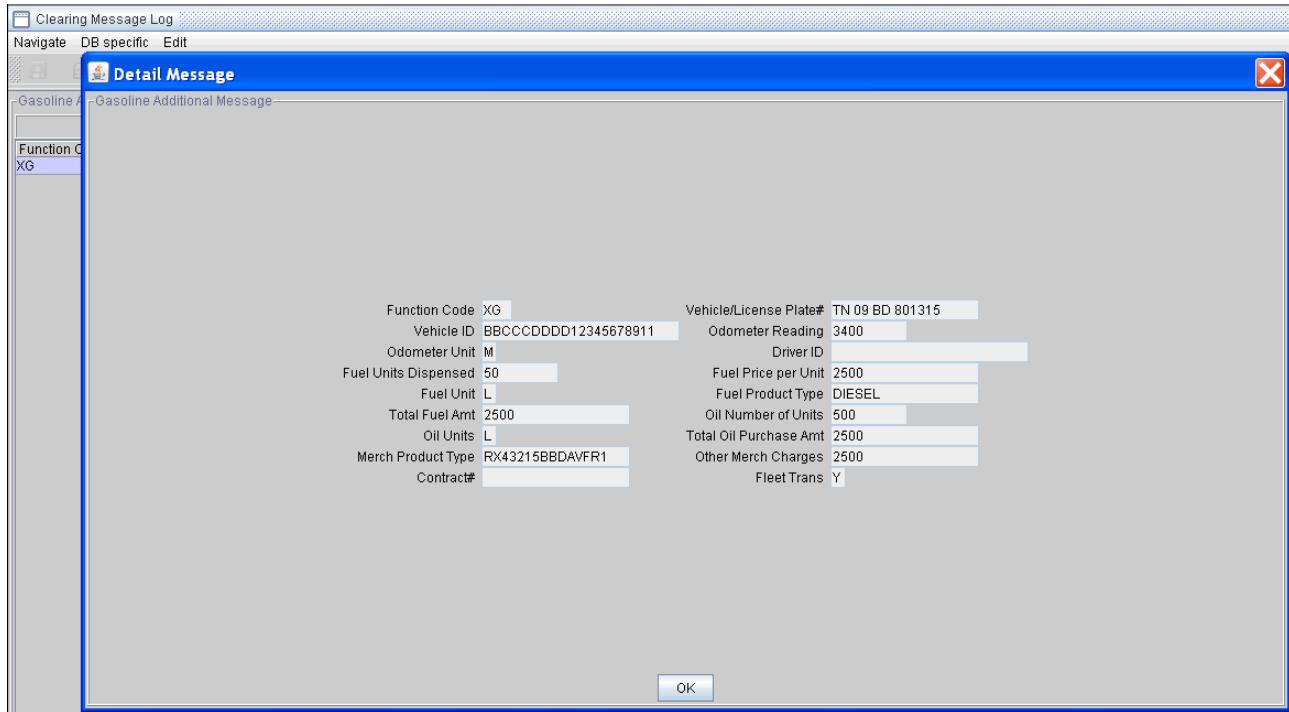


Figure 61 Gasoline Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XG"
Vehicle ID	char	20	
Odometer Unit	char	1	M - Miles K - Kilometres
Fuel Units Dispensed	num	7	
Fuel Unit	char	1	G - Gallons L - Litres
Total Fuel Amt	num	15	
Oil Units	num	7	
Merch Product Type	char	15	

Form Field Name	Type	Len	Description
Contract#	char	15	
Vehicel/License Plate#	char	15	
Odometer Reading	num	7	
Driver ID	char	20	
Fuel Price Per Unit	num	15	
Fuel Product Type	char	15	
Oil Number of Units	num	7	
Total Oll Purchase Amt	num	15	
Other Merch Charges	num	15	
Fleet Trans	char	1	

## Hotel Additional Detail Message

Clearing Message Log >

Navigate DB specific Edit

**Detail Message**

Hotel Addl - Hotel Additional Message

Function XH

Function Code	XH	Date of Check in	130120
Date of Check out	130201	Number in party	0
Guest Name	1JOHN ABRAHAM LINTON JOE	Room type	DLXE
Program Code	01	Folio Ref#	FL01256700
Confirmed Reserv Ind	Y	Daily Room Rate	500
Room Tax	100	Non Room Tax	50
Phone charges	300	Room service charges	100
Mini bar charges	200	Bar charges	300
Gift shop charges	400	Laundry cleaning charges	500
Prepaid expenses	500	Restaurant charges	500
Cash advances	500	Parking/Valet/Transport charge	500
Health club charges	500	Business Centre charges	500
Movie charges	500	Other service charges	500
Gratuities	500	Conference Charges	500
Audio Visual Charges	500	Banquet Charges	500
Internet Charges	500	Early Arr or Depart Charg	500
Billing Adjustment	1	Billing Adjust amt	500

OK

Figure 62 Hotel Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XH"
Date of Checkout	date	6	
Guest Name	char	49	
Program Code	char	2	
Confirm Reserv Ind	char	1	Y - Confirmed N - Not Confirmed
Room Tax	num	15	
Phone Charges	num	15	
Mini bar charges	num	15	
Gift Shop Charges	num	15	
Prepaid expenses	num	15	
Cash advances	num	15	
Health Club charges	num	15	
Movie Charges	num	15	
Gratuities	num	15	
Audio Visual Charges	num	15	
Internet Charges	num	15	
Billing Adjustment	char	1	
Date of Checkin	date	6	
Number in party	num	3	
Room type	char	4	
Folio Ref#	char	10	
Daily Room Rate	num	15	
Non Room Tax	num	15	
Room Service Charges	num	15	
Bar Charges	num	15	
Laundry Cleaning Charges	num	15	
Restaurant Charges	num	15	

Form Field Name	Type	Len	Description
Parking/Valet/Transport Charg	num	15	
Business Center Charges	num	15	
Other Service Charges	num	15	
Conference Charges	num	15	
Banquet Charges	num	15	
Early Arr or Depart Charg	num	15	
Billing Adjust Amt	num	15	

## Rail Additional Detail Message

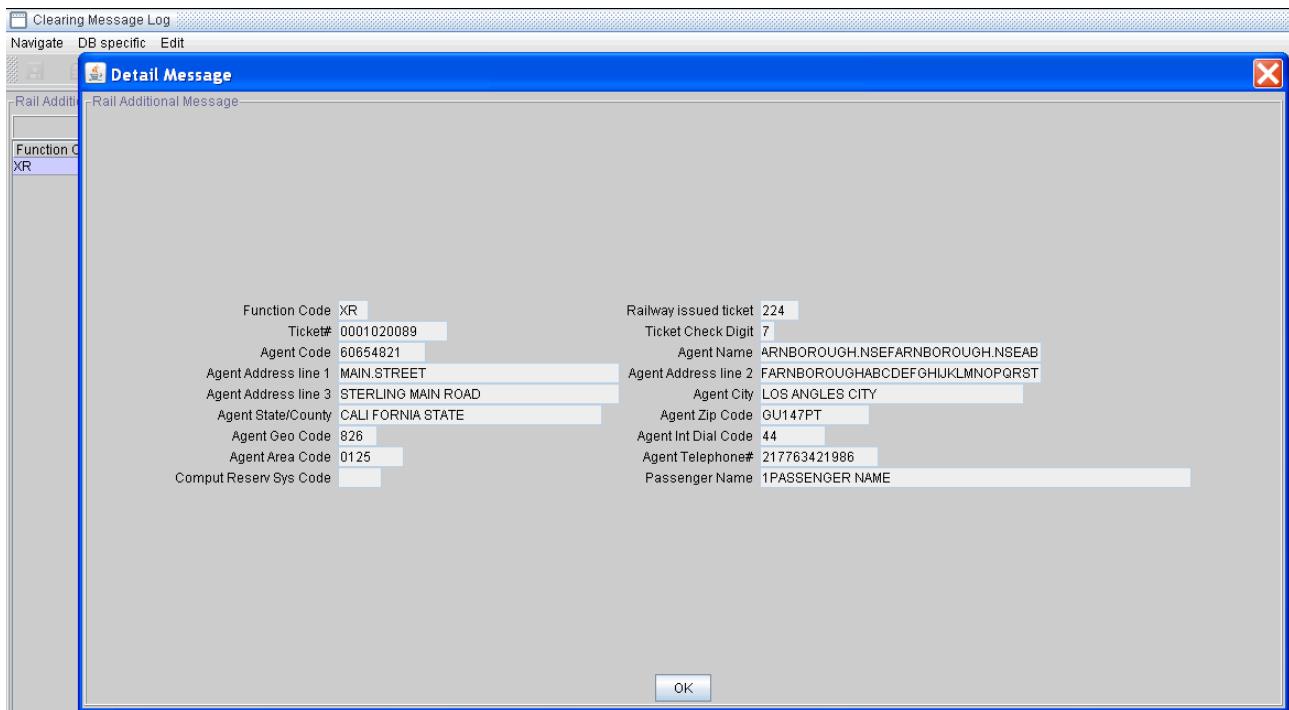


Figure 63 Rail Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XR"
Ticket #	char	10	
Agent Code	char	8	
Agent Address Line1	char	32	
Agent Address Line2	char	32	
Agent Address Line3	char	32	
Agent State/County	char	30	
Agent Geo Code	num	3	
Agent Area Code	char	6	
Comput Reserv Sys Code	char	4	
Railway Issued Ticket	num	3	
Ticket Check Digit	char	1	
Agent Name	char	32	
Agent City	char	30	
Agent ZIP Code	char	10	
Agent Int Dial Code	char	6	
Agent Telephone#	char	12	
Passenger Name	char	49	

## Rail Routing Detail Message

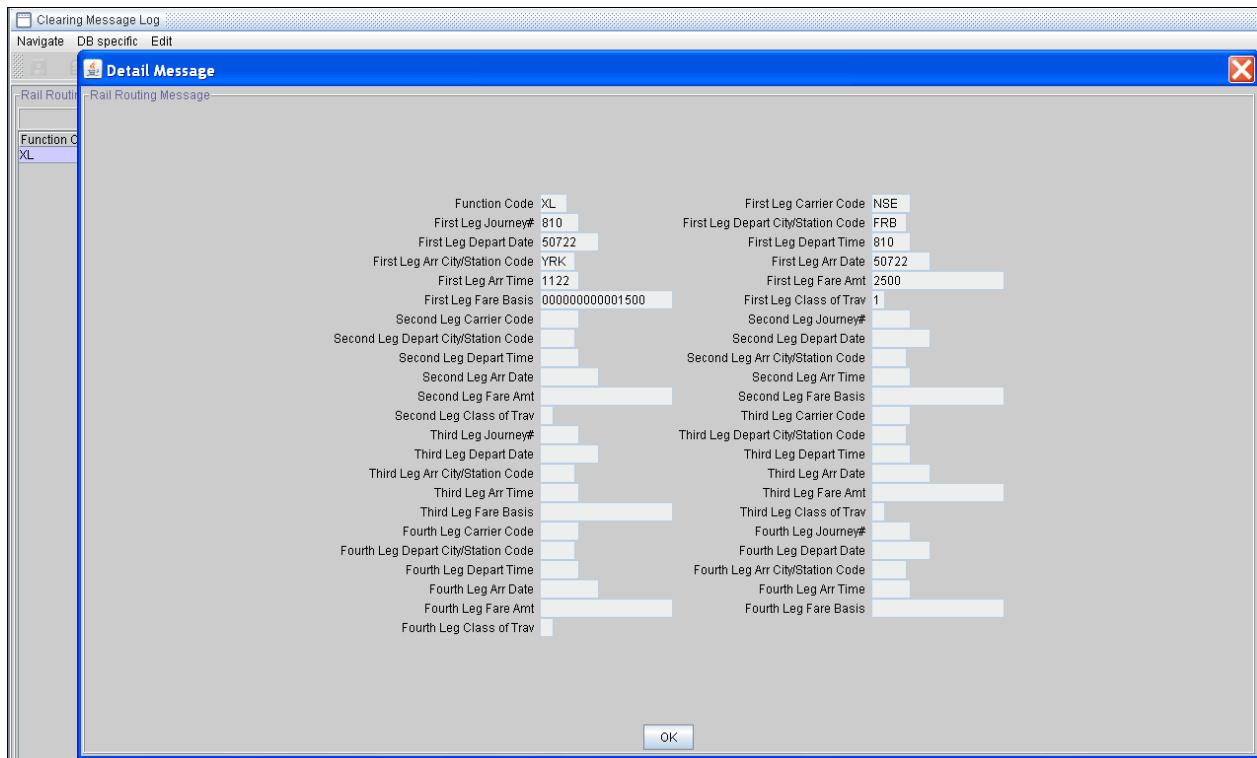


Figure 64 Rail Routing Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid Value:"XL"
First Leg Carrier Code	char	4	
First Leg Journey #	num	4	
First Leg Depart City/Station Code	char	6	
First Leg Depart Date	date	6	
First Leg Depart Time	num	4	
First Leg Arrival City/Station Code	char	6	
First Leg Arr Date	date	6	
First Leg Arr Time	num	4	

Form Field Name	Type	Len	Description
First Leg Fare Amount	num	15	
First Leg Fare Basis	num	15	
First Leg Class of Trav	char	1	
Second Leg Carrier Code	char	4	
Second Leg Journey#	num	4	
Second Leg Depart City/Station Code	char	6	
Second Leg Depart Date	date	6	
Second Leg Depart Time	num	4	
Second Leg Arri City/Station Code	char	6	
Second Leg Arr Date	date	6	
Second Leg Arr Time	num	4	
Second Leg Fare Amt	num	15	
Second Leg Fare Basis	num	15	
Second Leg Class of Travel	char	1	
Third Leg Carrier Code	char	4	
Third Leg Journey#	num	4	
Third Leg Depart City/Station Code	char	6	
Third Leg Depart Date	date	6	
Third Leg Depart Time	num	4	
Third Leg Arri City/Station Code	char	6	
Third Leg Arr Date	date	6	
Third Leg Arr Time	num	4	
Third Leg Fare Amount	num	15	
Third Leg Fare Basis	num	15	
Third Leg Class of Travel	char	1	
Fourth Leg Carrier Code	char	4	
Fourth Leg Journey#	num	4	
Fourth Leg Depart City/Station Code	char	6	

Form Field Name	Type	Len	Description
Fourth Leg Depart Date	date	6	
Fourth Leg Depart Time	num	4	
Fourth Leg Arri City/Station Code	char	6	
Fourth Leg Arr Date	date	6	
Fourth Leg Arr Time	num	4	
Fourth Leg Fare Amt	num	15	
Fourth Leg Fare Basis	num	15	
Fourth Leg Class of Trav	char	1	

## Restaurant Additional Detail Message

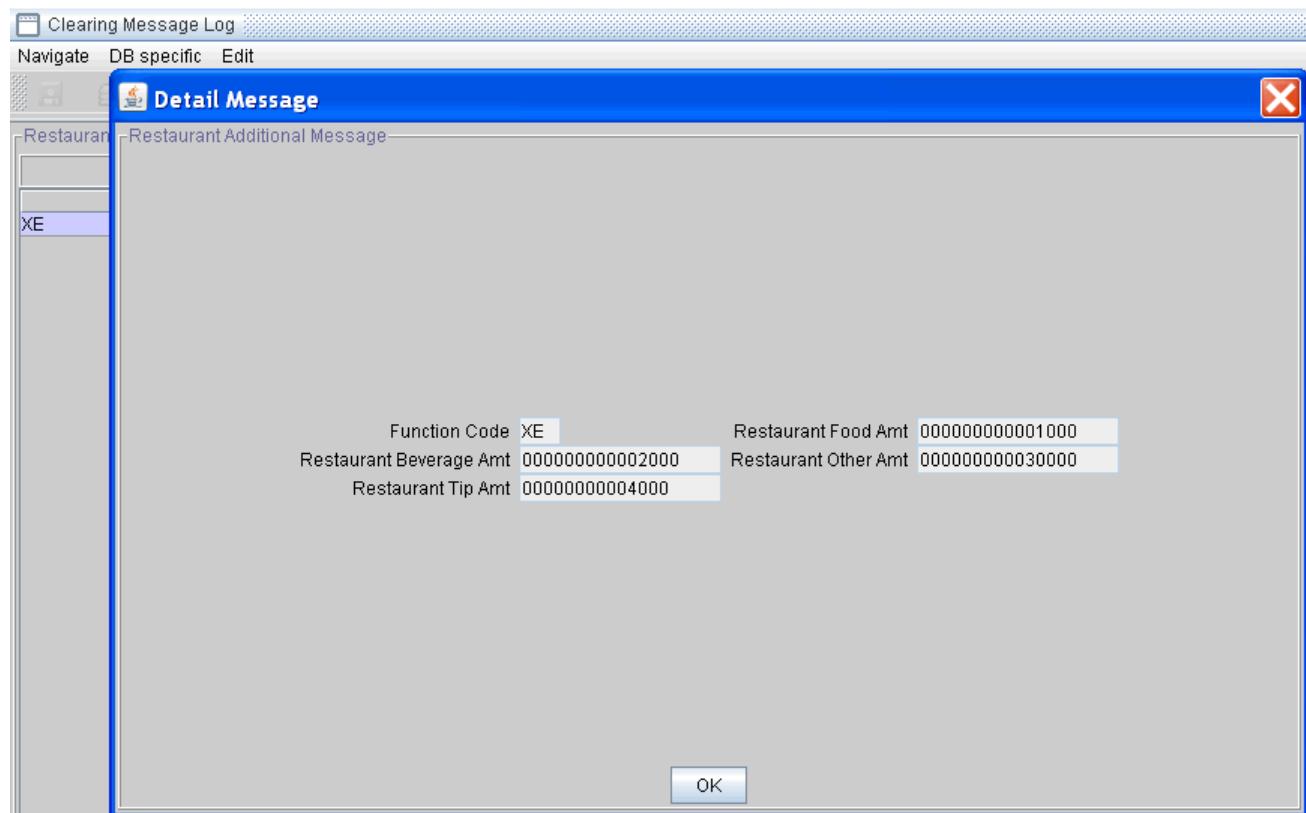


Figure 65 Restaurant Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XE"
Restaurant Beverage Amt	num	15	
Restaurant Tip Amt	num	15	
Restaurant Food Amt	num	15	
Restaurant Other Amt	num	15	

## Chipcard Additional Detail Message

Figure 66 Chipcard Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
Function Code	char	2	Valid value: "XM"
App Ident Terminal	char	32	
App Transn Counter	char	4	
App Usage Control	char	4	
Amt Other	num	12	
CVM Results	char	6	
Interface Device Serial #	char	8	
Issuer Auth Data	char	32	
Terminal Country Code	num	3	
Terminal Capabilities	char	6	
Term Verif Results	num	10	
Trans Type	num	2	
Unpredictable #	char	8	
App PAN Seq#	num	3	
App Interchange Profile	char	4	
App Cryptogram	char	16	
Amt Authorized	num	12	
Cryptogram Inform Data	char	2	
Dedicated File Name	char	32	
Issuer Application Data	char	64	
Issuer Script Results	char	50	
Term App Version#	char	4	
Terminal Type	char	2	
Trans Date	num	6	
Trans Currency Code	num	3	

## Telephone Additional Detail Message

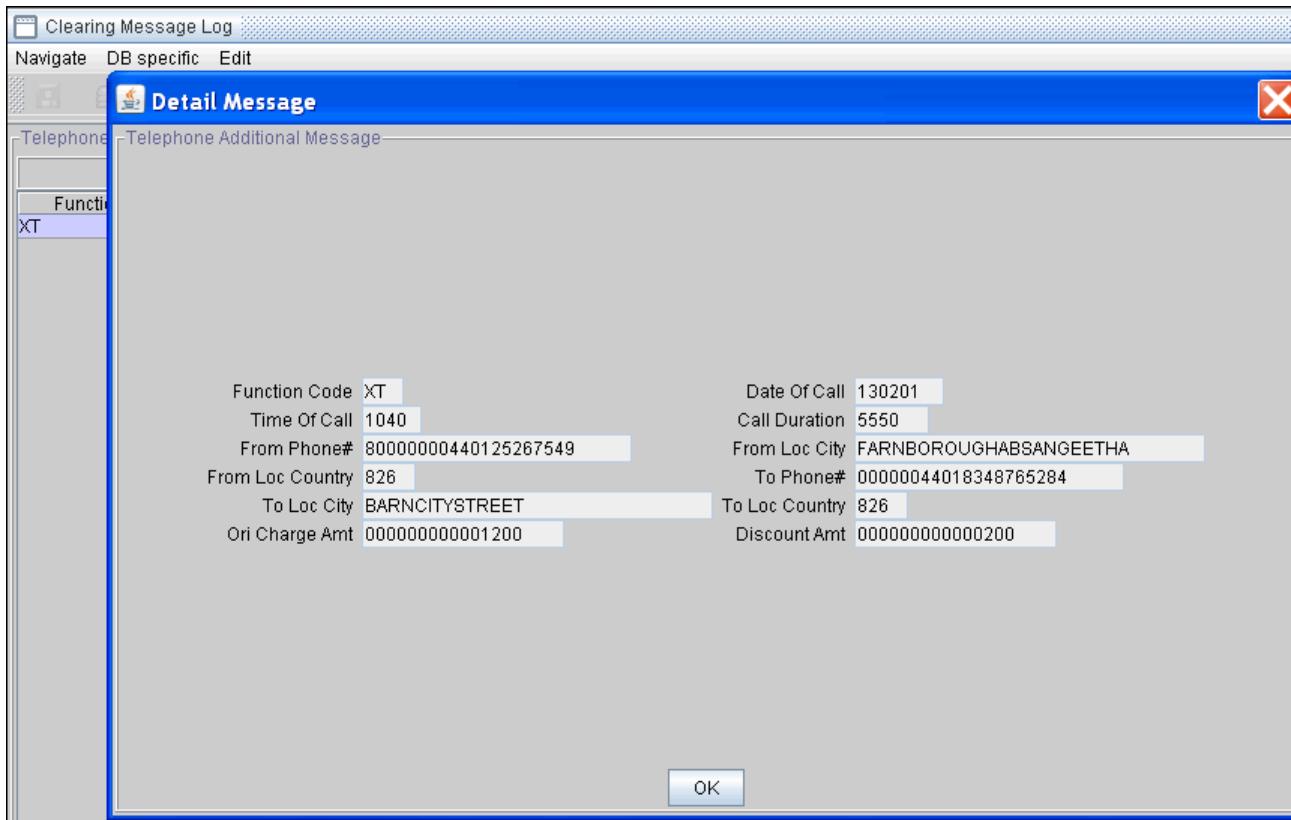


Figure 67 Telephone Additional Detail Message

**Form Fields:** Refer CLR\_MSG\_LOG table. msg\_dmp field ( Length - 40000) from CLR\_MSG\_LOG table should be parsed to display data in each field.

Form Field Name	Type	Len	Description
Function Code	char	2	Valid value: "XT"
Time of Call	num	4	
From Phone#	char	20	
From Loc Country	char	3	
To Loc City	char	26	
Ori Charge Amt	num	15	
Date of Call	date	6	
Call Duration	num	5	



Form Field Name	Type	Len	Description
From Loc City	char	26	
To Phone#	char	20	
To Loc Country	char	26	
Discount Amt	num	15	

## Import System Balancing Log

**Type:** Inquiry.

**Underlying Table:** IMPORT\_BALANCING, CUT\_OFF\_BATCH, OUT\_BATCH\_LOG.

The Import System Balancing Log form shows the status of each outgoing file and indicates if it is in balance with the imported file from which the transactions originated.

The System Balancing form displays information generated as a result of executing the following:

- The Clearing Process
- The Import Balance Process

Import balancing applies to each incoming and outgoing file. For each incoming file, IST/Clearing populates the database and logs history information. The Import Balance process is then executed to check if all transactions are logged in tables and if all associated tables are in sync.

For outgoing file processing, the Scheduler invokes all export adapters to generate clearing files. Then the Import Balancing process is run to check if all transactions expected to clear are generated in the outgoing clearing file.

**Clearing System**

Locale Chooser (Alt-l) Options (Alt-o) Windows (Alt-w) Help

**IMPORT SYSTEM BALANCING**

Import Balance

In File Number	From Balance Date	C Cutoff Batch Cnt	C Cutoff Batch Amt	Balance Status
16477	06.09.2007	0	0 B	
16478	06.09.2007	0	0 B	
16481	06.09.2007	2	2800 B	
16482	06.09.2007	2	2800 B	
16483	06.09.2007	2	2800 B	
16484	06.09.2007	2	2800 B	
16511	06.09.2007	2	2800 B	
16515	06.09.2007	2	16200 B	
16579	07.09.2007	2	16200 B	

Count Summary: Processed Count [T1] 1  
Suspend Count [T2] 0  
Cleared Trx.Cnt [T3=T1-T2] 1  
Dual Dest Count [T4] 1  
Clearing Txn Count [T5=T3+T4] 0

Amount Summary: Processed Amount [T1] 8100  
Suspend Hash Amount [T2] 0  
Cleared Trx Amt [T3=T1-T2] 8100  
Dual Dest Hash Amount [T4] 8100  
Clearing Txn Amount [T5=T3+T4] 0

Recon Summary: Recon Txn 0  
Suspend Recon 0  
Recon Cutoff Batch 0  
Recon Msg 0  
Dual Recon 0  
Non Exp Recon 0

Import/Export CTRL: DestInstId Cutoff Count Cutoff Amount  
02 1 8100  
04 1 8100

Exported Data: Dest Inst Id Out File Nbr Cleared Count Cleared Amount  
04 3354 1 8100

Java Applet Window

Figure 68 Import System Balancing Log Form

The form displays information from three tables IMPORT\_BALANCE, CUTOFF\_BATCH and OUT\_BATCH\_LOG in three sections: Import Balance, Import/Export Ctrl and Exported Data.

Cutoff\_Batch is the link between the import balance and the export data. The search is based on Source Institution, Source File Type and Balance Date range.

## Import Balance

Import Balance consists of a scrolling list and three summary sections: Count Summary, Amount Summary and Recon Summary. The summary sections display related information about the row highlighted in the scrolling list.

A user can search and display import balance information using a combination of the fields: institution, Source File Type and Balance Date range. The user initiates a search by clicking the Query By Example button on the common toolbar with the mouse pointer. The user enters information in each field that is to be used to search for records. The search is executed by clicking the Query button on the common toolbar with the mouse pointer.



Records that match the search criteria are displayed in the first scrolling list below the Import Balance panel, Import/Export Ctrl and Exported data. Highlighting a row displays related information in the summary sections and the two scrolling lists at the bottom of the screen.

## Count Summary

Count Summary displays the count summary from the imported file. It shows the count that was imported and what was exported or cleared.

Field	Description
Processed Count[T1]	Number of Transactions processed through the system.
Suspend Count [T2]	Number of Transactions that were suspended.
Cleared Txn Count [T3=T1-T2]	Number of Transactions that were successfully cleared.
Dual Dest Count [T4]	Number of Transactions marked for Dual destination. Example: MAS.
Clearing Txn Count [T5=T3+T4]	Total number of transactions that cleared through the system. That is, the sum of Dual Destination Count + No of Transaction that were successfully cleared.

## Amount Summary

Amount summary displays the amount summary based on the imported file. It shows the amount, as hash totals, that was imported and what was exported or cleared.

Field	Description
Processed Amount [T1]	Total amount of the transactions processed through the system.
Suspend Hash Amount [T2]	Total hash amount of the transactions that were suspended.
Cleared Txn Amount [T3=T1-T2]	Total amount of the transactions that were successfully processed and cleared.
Dual Dest Hash Amount [T4]	Total hash amount of transactions marked for dual destination. Example: MAS.
Clearing Txn Amount [T5=T3+T4]	Total amount of transactions that cleared through the System that is Sum of Dual Destination Amount + Total Amount of Transaction that Successfully went though the system.



## Reconciliation Summary

Reconciliation Summary displays recon totals calculated by the Import Balance process.

Field	Description
Recon Txn	The count of Reconciliation Messages eligible for export
Suspend Recon	The count of suspended Reconciliation messages
Recon Cutoff Batch	The count of Reconciliation messages per destination institution and file type
Recon Msg	The count of Reconciliation Messages in the file
Dual Recon	The count of Reconciliation Messages marked for dual destination
Non Exp Recon	The count of non exported Reconciliation Messages

## Import Export CTRL

Import/Export Ctrl displays the sum of count and amounts that are ready to be exported or that were exported for each institution based on the selected row in the Import Balance table.

A record is displayed per destination institution and shows the total count and amount sent to each institution (this may include data from multiple batches).

The sum of all rows, in the list is equal to the Clearing Txn Count [T5=T3+T4] in the Count Summary section. The same logic applies to the amounts.

In summary:

1. The sum of the Cut off Counts [2nd column Import/Export CTRL] will match the last field in the Count Summary, highlighted in green.
2. The sum of the Cut off Amounts [3rd column Import/Export CTRL] will match to last field in the Amount Summary, highlighted in green.

## Exported Data

Exported data shows count and amount of data exported to each destination. The count and amount to each destination should be less than or equal to the totals from the Import/Export Ctrl.

## Cutoff Batch

**Type:** Inquiry.

**Underlying Table:** CUTOFF\_BATCH.

Use this form to monitor the batches prepared for export. The form lists all details of the batches per their In File Number.

The table underlying the form is used for [Import System Balancing Log](#), as well as for drilling down information from various forms.

If you click on any record in the form, a dialog box appears, asking you if you wish to see Out Batch Log or In Batch Log connected with this particular batch.

In File	In Batch	Destination Inst.	Institution Name	Src Inst Id	Destinat...	Msg Gr...	Cutoff...	Cutoff...	Cutoff...	Clear Date J
2381	15540	ALLCARD	ALL_CARD SY...	LK	41	CCM	R	2	3130	5229
2381	15541	MAS	MAS System	LK	21	CCM	R	1	576...	5229
2381	15541	ALLCARD	ALL_CARD S...	LK	55	CCM	R	1	576...	5229
2381	15542	MAS	MAS System	LK	21	CCM	R	3	194...	5229
2381	15542	NORDEA	NORDEA (Do...	LK	095	CCM	R	1	522...	5229
2381	15542	ALLCARD	ALL_CARD S...	LK	41	CCM	R	2	142...	5229
2381	15543	04	VISA Internati...	LK	410	CCM	R	4	107...	5230
2381	15543	MAS	MAS System	LK	21	CCM	R	46	147...	5229
2381	15543	OKO	OKO (Domes...	LK	095	CCM	R	1	5450	5229
2381	15543	SEB	SEB (Domest...	LK	09	CCM	R	1	3990	5229
2381	15543	SAMPO	SAMPO (Dom...	LK	095	CCM	R	1	3530	5229
2381	15540	MAS	MAS System	LK	21	CCM	R	3	6910	5229
2381	15540	NORDEA	NORDEA (Do...	LK	095	CCM	R	1	3780	5229
2381	15543	NORDEA	NORDEA (Do...	LK	095	CCM	R	5	220...	5229
2381	15543	ALLCARD	ALL_CARD S...	LK	41	CCM	R	34	101...	5229
2381	15544	04	VISA Internati...	LK	410	CCM	R	4	143...	5230
2381	15544	MAS	MAS System	LK	21	CCM	R	4	143...	5229
2381	15545	05	MasterCard I...	LK	55	CCM	R	1	200...	5230
2381	15545	MAS	MAS System	LK	21	CCM	R	20	689...	5229

Figure 69 Cutoff Batch Form

### Access

Oasis Integrated GUI > Clearing > Inquiry > **Cutoff Batch**

The form opens by default in the [Query Mode](#).



## Cutoff Batch Form Fields

Form Field Name	Type	Len	Description
In File Nbr	num	6	The number identifying the incoming file to which the batch belonged.
In Batch Nbr	num	6	The identification number assigned to the batch when it came into the system.
Destination Institution ID	char	10	The identifier of the institution where the batch is to be routed, the destination institution of the batch.
Institution Name	char	40	The name of the destination institution.
Destination File Type	char	6	The code used to identify the destination file type. E.g. "01" for TC57, or "11" for OCS etc. For a list of file type codes see Appendix B of IST/Clearing Administration Guide.
Msg Group	char	3	Code identifying the message group (CCM or RCM).
Cutoff Status	char	1	Flag indicating the current status in the processing of the batch.
Cutoff Cnt	num	6	The number of processed transactions in the batch.
Cutoff Amt	num	26,8	The hash amount of the processed transactions within the batch.
Clear Date J	date		Julian clearing date.

## Suspend Transaction

**Type:** Inquiry.

**Underlying Table:** SUSPEND\_TRANSACTION.

The Suspend Transaction form allows you access to all the suspended transactions together with the batches and files they belong to. You will be looking for suspended transactions by file and batch.

The form consists of three tabular blocks, or JTables. The first block contains information on incoming files processed by IST/Clearing on the given day with their statuses. If the File Status is "Partially Processed", you can double-click on the field to display the details of all the suspended batches within the file. Click on the desired batch to display information on the suspended transactions within the batch.

The “Suspend Error Flag” will give you the reason for the batch suspension, and the “Suspend Origin” will indicate if it is an internal error (“C” indicates internal error i.e. suspended by Clearing). If so, knowing the problem, you can go to the problem areas in the forms in question to fix the reasons for suspension. Then, you can change the status of the batch to “Ready to be Processed”, and it will be re-processed.

In file Nbr	Institution Id	File Type	Incomm...	External File Id	In File Status	End Date
2562	05	55	27-Sep...	00205060600...	CompletelyProcessed	27-Sep-05
2563	LK	03	27-Sep...	09802	PartiallyProcessed	27-Sep-05
2564	LK	03	27-Sep...	09802	CompletelyProcessed	27-Sep-05
2565	LK	03	27-Sep...	04147	CompletelyProcessed	27-Sep-05
2566	LK	03	27-Sep...	09803	CompletelyProcessed	27-Sep-05
2567	LK	03	27-Sep...	10101	CompletelyProcessed	27-Sep-05
2568	LK	03	27-Sep...	40884	PartiallyProcessed	27-Sep-05
2569	LK	01	28-Sep...	REV	CompletelyProcessed	28-Sep-05

In file Nbr	In Batch Nbr	Batch Id	Batch IE Ind	In Batch Status	Suspend Err Flag
2562	60403	E		CompletelyProcessed	0

Trans Seq Nbr	In file Nbr	In Batch Nbr	Suspend Origin	Tid	Suspend Status	Msg Group

Figure 70 Suspend Transaction Form

## Access

Oasis Integrated GUI > Clearing > Inquiry > **Suspend Transaction**.

The form opens by default in the [Query Mode](#).

## Suspend Transaction Form Fields

Form Field Name	Type	Len	Description
<b>In File Log</b>			
In File Number	num	6	The number of the incoming file. This number is assigned by the system to identify the file to which the incoming transaction belongs.
Institution ID	char	10	The internal identifier of the institution.
File Type	char	6	The code used to identify the file type. E.g. "01" for TC57, or "11" for OCS etc. For a list of file type codes see Appendix B of IST/Clearing Administration Guide.
Incoming Date	date		The date and time when the incoming file entered the system.
External File ID	char	50	The external identification of the file.
In File Status	char	2	The code indicating the status of the incoming file. For a list of the incoming file status codes see Appendix B of IST/ Clearing Administration Guide. If the file is rejected, its status will be "S".
End Date	date		Date when the file processing ended.
<b>In Batch Log</b>			
In File Nbr	char	50	The number of the incoming file. This number is assigned by the system to identify the file to which the incoming transaction belongs.
In Batch Nbr	num	6	The identification number assigned to the batch when it came into the system.
Batch ID	char	25	The identifier assigned to the batch to identify the batch to which a transaction is associated.
Batch IE Ind	char	1	Batch internal or external indicator.
In Batch Status	char	2	Shows the status of the incoming batch. E.g. if the batch is rejected, the status will be "S" (suspended.)
Suspend Err Flag	char		A code indicating the reason why the batch was suspended.
<b>Suspend Log</b>			
Trans Seq Number	num	12	A system assigned sequential number that uniquely identifies the transaction and joins this table with the In Draft Main table.

Form Field			
Name	Type	Len	Description
In File Number	num	6	The number of the incoming file. This number is assigned by the system to identify the file to which the suspended transaction belongs.
In Batch Number	num	6	The number of the incoming batch. This number is assigned by the system to identify the batch to which the suspended transaction belongs.
Suspend Origin	char	1	A flag indicating if the transaction was suspended internally by Clearing (C), as a result of a failed edit function, or externally as a returned or rejected transaction (R).
Tid	char	12	Transaction identifier code. It is a composite of the transaction domain, transaction scope, transaction class, transaction code, and transaction subtype.
Suspend Status	char	1	The status of the suspended transaction.
Msg Group	char	3	Indicator if this is a CCM or RCM message group transaction.

# Tasks

## Task Log

Type: Query.

**Underlying Table:** TASK\_LOG.

Use the Task Log form to monitor the execution of selected, or all, system tasks.

The Scheduler creates the task log, and the Task Log form lists all the tasks that have been executed, providing a trail of the system operation.

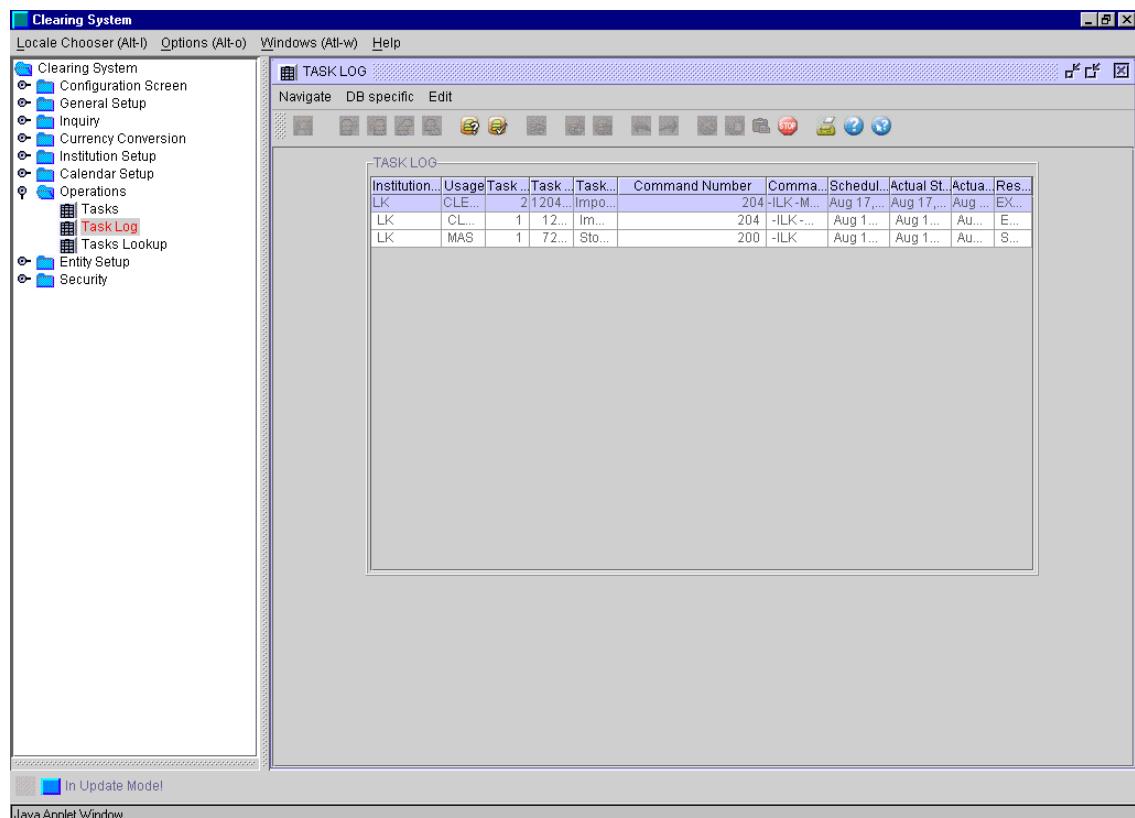


Figure 71 Task Log Form

### Access

Oasis Integrated GUI > Common > Common Operations > **Task Log**.

The form opens by default in [Query Mode](#).



## Task Log Form Fields

Form Field Name	M/O	Type	Len	Description
Institution ID	M	char	10	The internal identifier of the institution for which the task was run.
Usage	M	char	15	The system that used the task. If you are using only IST/Clearing, this will always be "Clearing". However, if you are using more than one <Emphasis>IST product, this field indicates the product for which the task was run.
Task Log Sequence	M	num	12	The sequential number of the task log record.
Task Number	O	num	4	The system supplied number identifying the task.
Command Number	O	num	3	Numeric identifier of the command that was run. E.g. "321" to identify the "Export to MAS" command.
Command Parameters	O	char	150	The actual command parameter used to execute the task, as set in the Tasks table.
Schedule Start Date	O	date		The date and time when the task was scheduled to begin.
Actual Start Date	O	date		The date when the task was actually started processing.
Actual Finish Date	O	date		The actual date when the task finished processing.
Result	O	char	25	The status, or value, that is the result of the task processing; the result of the command. E.g. "EXECUTED" to indicate that the task was executed.

## Tasks Lookup

Type: Operations.

**Underlying Table:** TASKS.

Use the Tasks Lookup form to view, or monitor, all system tasks.

This form is a query counterpart of the Task form. The Task form allows you to set up tasks, one by one, while the Task Lookup form allows you to view all those tasks at the same time. For each task, the form provides the exact month, day, hour, and minute when the task will run next, as well as the day of the week on which it will run.

Figure 72 Tasks Lookup Form

### Access

Oasis Integrated GUI > Common > Operations > **Task Command List**.

The form opens by default in [Query Mode](#).

## Tasks Lookup Form Fields

Form Field Name	Type	Len	M/O	Description
Institution ID	char	10	M	The internal identifier of the institution for which the task has been scheduled.
Usage	char	15	M	The description of the task usage. If you are using only IST/Clearing, this will always be "Clearing". However, if you are using more than one <Emphasis>IST product, this field indicates the product for which the task is to be run.
Task Number	num	4	O	The system supplied number identifying the task.
Task Name	char		O	The name of the command scheduled in the task.
Comm No	num	3	O	The number identifying the command scheduled in the task.
Comm and Parameters	char	150	O	The actual command parameters used to execute the task.
Run Condition	char	1	O	An indicator of the run condition of used to execute the task. (E.g. B = do not run the task if the cycle is not balanced.)
Run Type	char	1	O	An indicator of the run frequency of a task. E.g. N = now.



# General Ledger Screens

## Overview

This section describes the General Ledger screens and the operational procedure to perform GL Export, GL Recovery, Resubmit GL Suspend, Resubmit Clearing Suspend, Write-Off Clearing Suspend, and Generate GL Export File.

General Ledger screens submenu provides you with the option to setup and query the system for information you need so that you can successfully monitor the General Ledger operation.

## General Ledger Setup

### Chart of Accounts

Chart of Accounts is a list of each account that the accounting system tracks, and captures the financial information. There will be two postings for each transaction one for Credit account and the other for Debit account.

*Type:* Inquiry

*Underlying Table:* GL\_CHARTOF\_ACCT

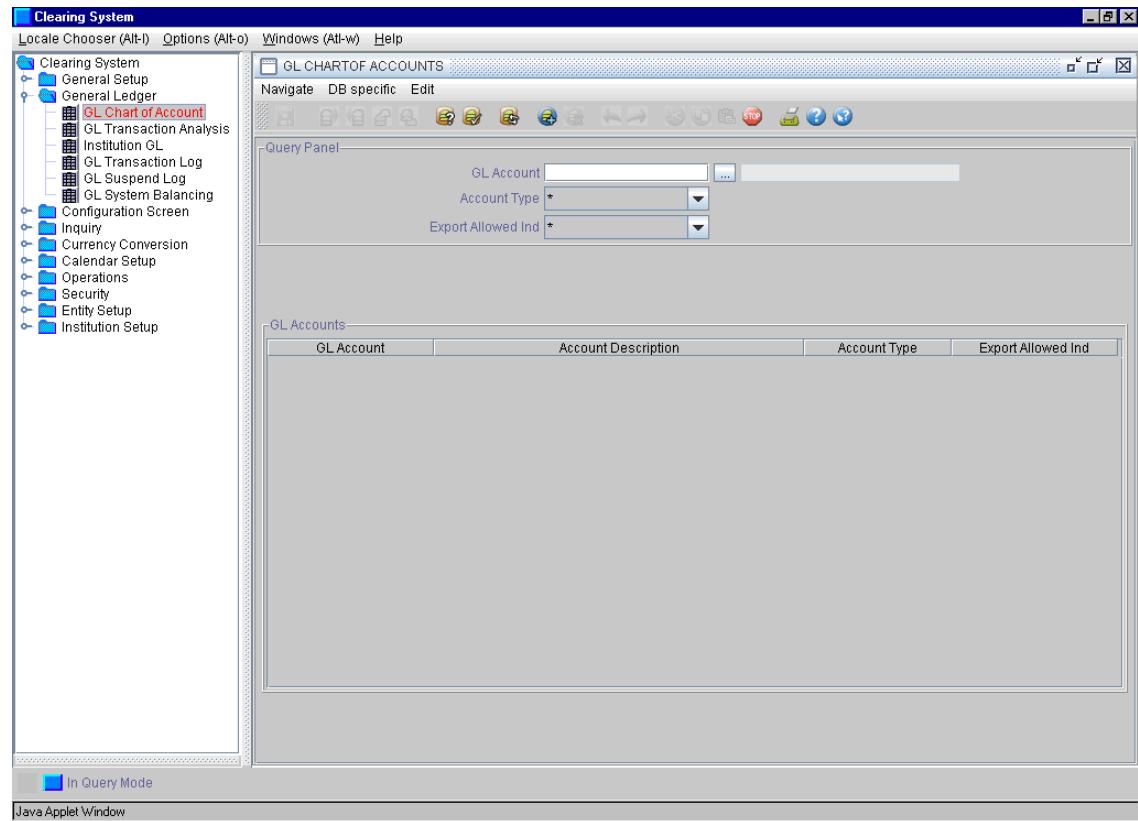


Figure 73 Chart of Accounts

### Chart of Accounts Fields

Field Name	Type	Len	Description
GL Account	Varchar2	25	GL Account.
Account Description	Varchar2	40	GL Account description.
Account Type	Char	1	GL Account type.
Export Allowed Ind	Char	1	Indicates whether the GL entry is to be included in the GL file.

## GL Transaction Analysis

Transaction Analysis configuration screen allows the user to configure GL accounts to which GL accounts a transaction needs to be booked. The user can add, modify and delete records.

*Type:* Updating

*Underlying Table:* GL\_TRANS\_ANALYSIS

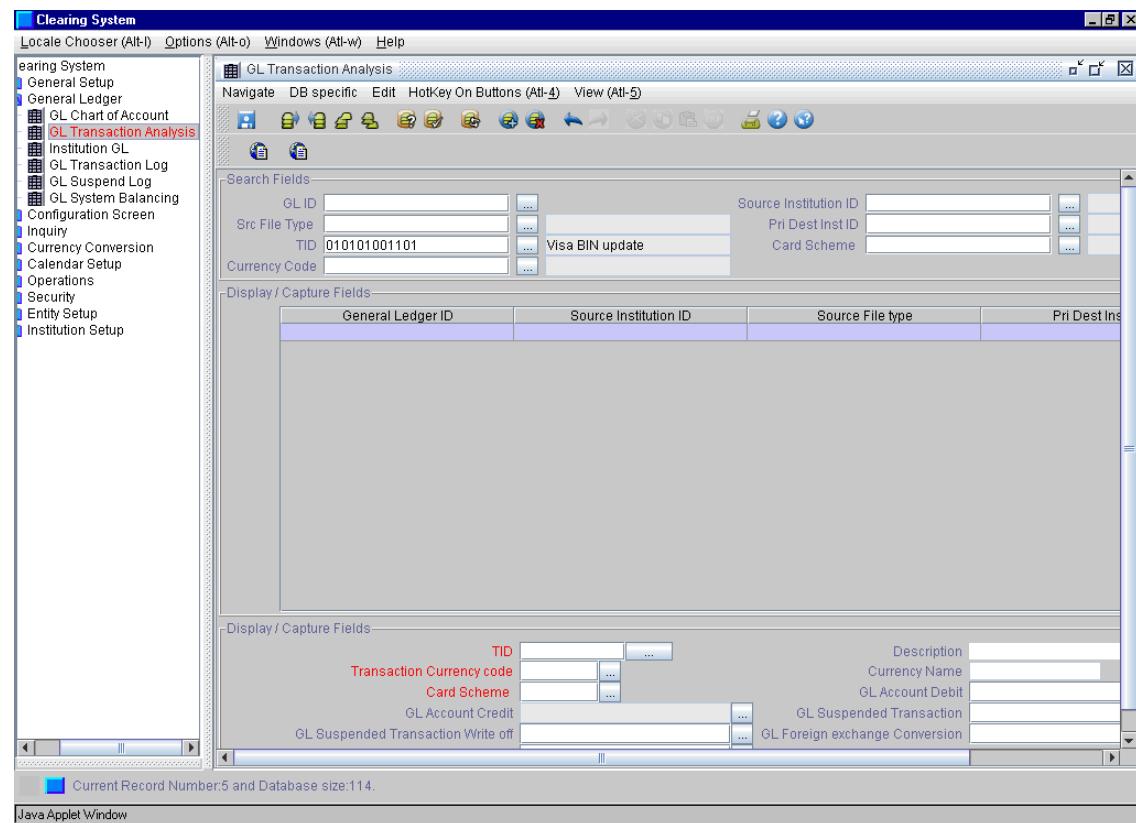


Figure 74 GL Transaction Analysis



## GL Transaction Analysis Fields

Field Name	Type	Len	Description
GL ID	Varchar2	12	Identifier of the general Ledger.
Source Institution ID	Varchar2	10	Source Institution Identifier.
Source File Type	Varchar2	6	Indicator of the type of the source file.
Primary Destination Institution ID	Varchar2	10	Primary Destination Institution Identifier.
TID	Varchar2	12	Transaction Identification code.
TID Description			Description of the Transaction Identification code.
Card Scheme	Char	2	Card Scheme Identifier.
Transaction Currency code	Char	3	Currency code.
GL Account Debit	Varchar2	25	Defines the GL account to be debited.
GL Account Credit	Varchar2	25	Defines the GL account to be credited.
GL Suspended Transaction	Varchar2	25	GL account for application suspended transaction.
GL Suspended Transaction Write off	Varchar2	25	GL account for application suspended transaction write-off.
GL Foreign Exchange Conversion	Varchar2	25	Foreign exchange conversion GL account.
GL Suspended Transaction Write off	Varchar2	25	Foreign exchange suspended transaction write-off.
Currency Conversion Plan	Varchar2	15	Defines the currency conversion plan to be used for converting original currency to institution currency.

## Institutional GL

The Institutional GL screen allows the user to assign the GL account at the institution level and the GL Server Process uses it. The user can add, modify, delete a record.

*Type:* Updating

*Underlying Table:* INST,GL

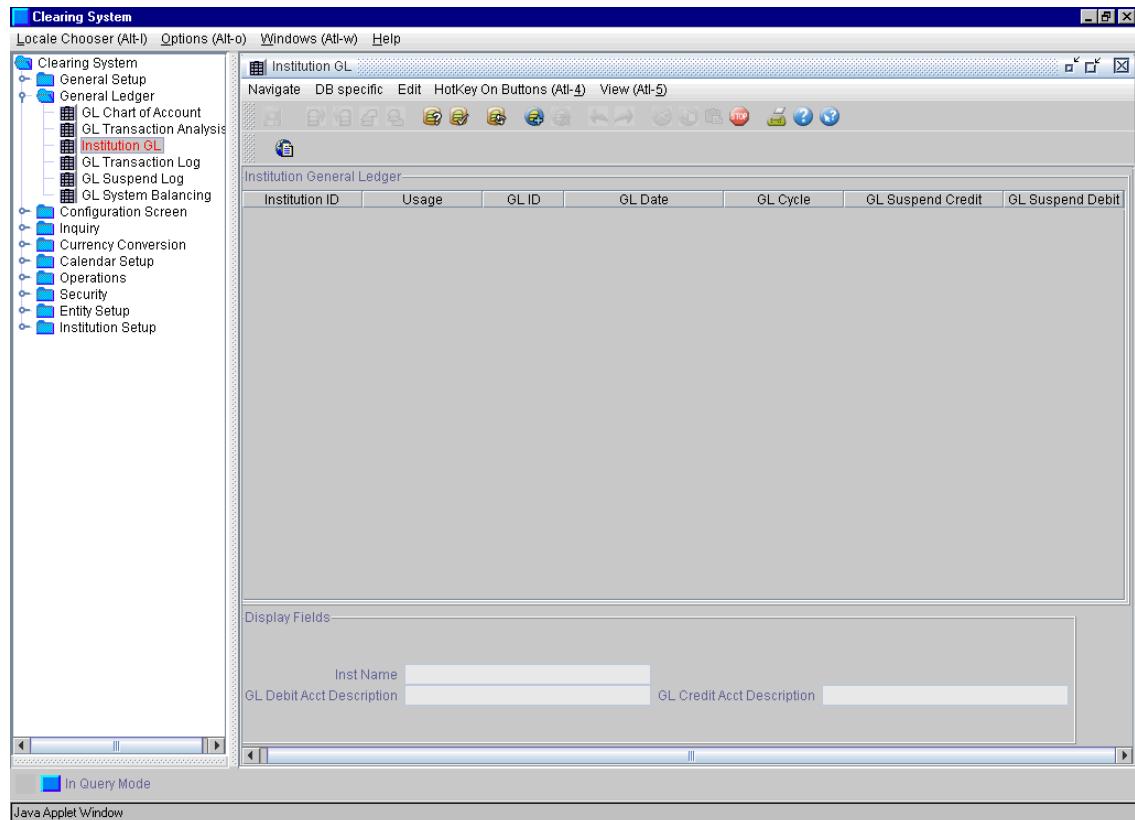


Figure 75 Institutional GL

### Institutional GL Fields

Field Name	Type	Len	Description
Institution ID	Varchar2	10	Identifier of an institution.
Usage	Varchar2	15	Identifies the application that uses the GL.
GL ID	Varchar2	12	General Ledger used by the institution.
GL Date	Date		GL Date



Field Name	Type	Len	Description
GL Cycle	Number	3	GL cycle.
GL Suspend Debit	Varchar2	25	GL account to be debited for GL suspended transaction.
GL Suspend Credit	Varchar2	25	GL account to be credited for GL suspended transaction.

## General Ledger Inquiry

### Query General System Balancing Log

The GL System Balancing Log is a view only screen that allows the user to query information on GL\_FILE\_LOG table.

*Type:* Inquiry

*Underlying Table:* GL\_FILE\_LOG

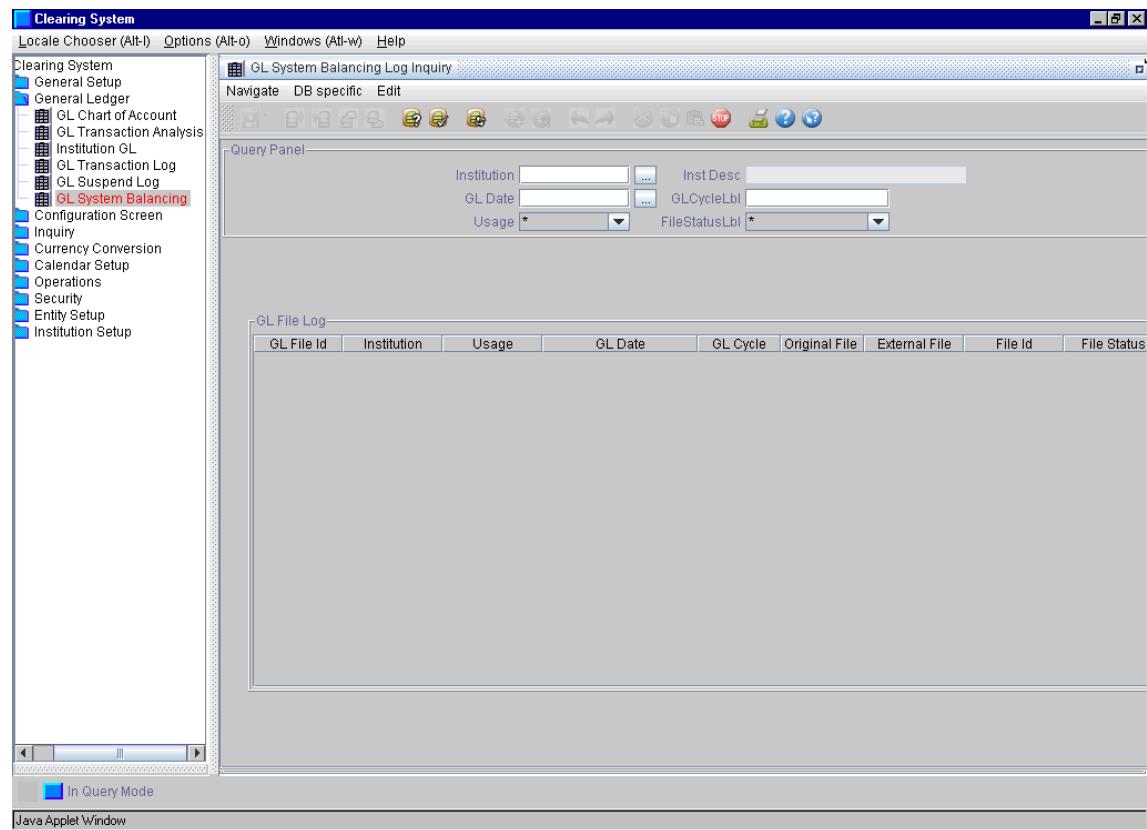


Figure 76 Query GL System Balancing Log

### Query GL System Balancing Log Fields

Field Name	Type	Len	Description
File ID	Varchar2	25	Identifier of the file processed by GL process.
Institution	Varchar2	10	Identifier of the the institution that process the file.
Usage	Varchar2	15	Defines the application that uses the GL.
GL Date	Date		GL date.
GL Cycle	Number	3	GL cycle.
File Status	Char	1	Indicates whether the GL for the file is balance or not. Not balance means that there were transactions lost and were not logged in GL.

Field Name	Type	Len	Description
External File	Varchar2	25	GL export file number.
Original File	Varchar2	25	Original File ID of the resubmitted clearing suspended file.
File ID	Varchar2	25	File ID assigned by the host.

## Query GL Transaction Log

The Query GL Transaction Log is a view only screen that enables the user to query the General Ledger transaction log and view individual transactions.

*Type:* Inquiry

*Underlying Table:* GL\_TRANS\_LOG

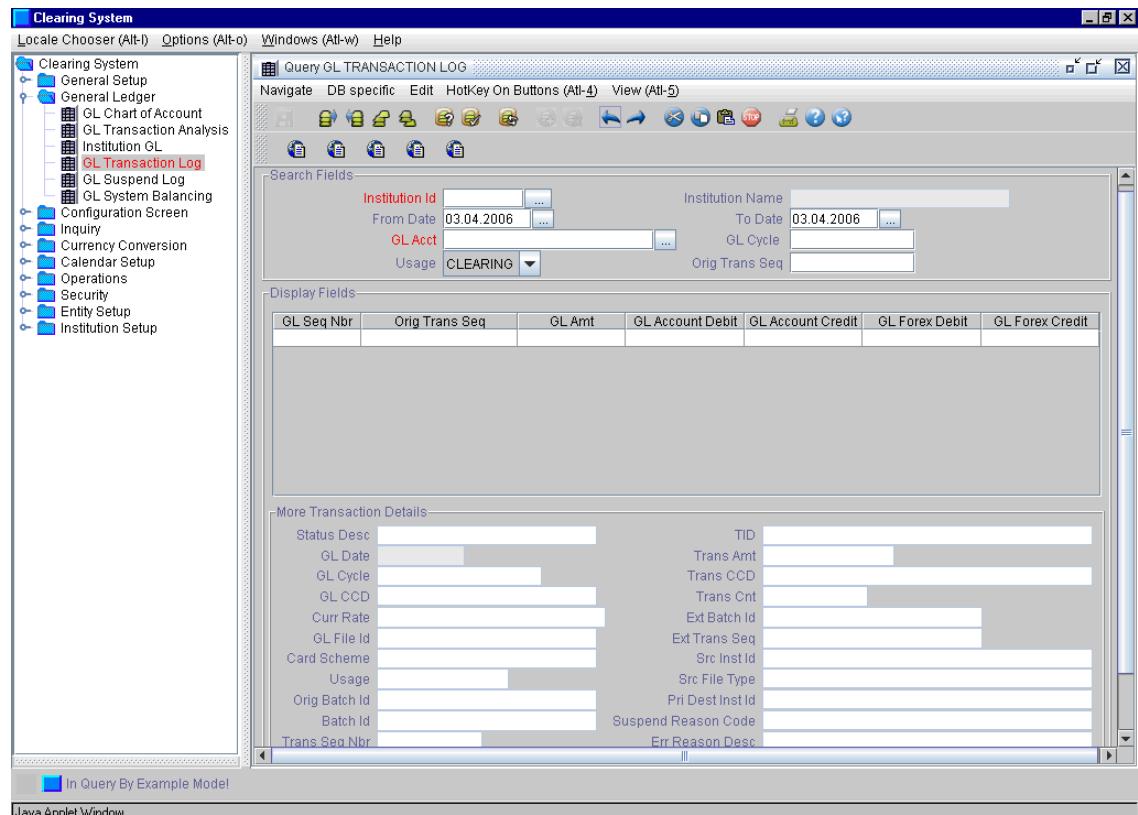


Figure 77 Query General Ledger Transaction Log



## Query General Ledger Transaction Log Fields

Field Name	Type	Len	Description
GL Seq Nbr	Number	12	Unique sequence number that identifies the GL transaction.
Orig Trans Seq	Number	12	Original transaction sequence number of the resubmitted suspended transaction.
GL Amt	Number	15	Amount of the transaction in GL currency.
GL Acct Credit	Varchar2	25	GL account credit.
GL Acct Debit	Varchar2	25	GL account debit.
GL Forex Debit	Varchar2	25	GL account debit of foreign exchange conversion.
GL Forex Credit	Varchar2	25	GL account credit of foreign exchange conversion.
Status	Char	1	Status of the GL transaction.
TID	Varchar2	12	Transaction Identifier.
GL Date	Date		GL Date.
GL Cycle	Number	3	GL cycle within the GL day.
GL CCD	Char	3	Currency of GL.
Curr Rate	Number	26,8	Currency conversion rate used to convert from trans_amt to gl_amt.
Card Scheme	Char	2	Defines the type of card.
Usage	Varchar2	15	Defines the application that uses the GL.
Orig File ID	Varchar2	25	Original File ID of the resubmitted clearing suspended file.
Orig Batch ID	Varchar2	25	Original Batch ID of the resubmitted clearing suspended batch.
Batch ID	Varchar2	25	Batch ID assigned by clearing.
Trans Seq Nbr	Number	12	Identifier that links to the source transaction.
Trans Sub Seq	Number	8	Transaction sub-sequence number.
Trans Amt	Number	15	Original amount of the transaction.
Trans CCD	Char	3	Original currency of the transaction.
Trans Cnt	Number	12	Number of items in the transaction.
Ext File ID	Varchar2	25	File ID assigned by the merchant.



Field Name	Type	Len	Description
Src Inst Name	Varchar2	10	Identifier of the source institution of the transaction.
Src File Type	Varchar2	6	Identifies where the file originates.
Pri Dest Inst Name	Varchar2	10	Institution ID to which the transaction will be sent.
Suspend Reason Desc	Char	6	Reason code that indicates why the transaction was suspended in GL system.
Err Reason Desc	Char	6	Reason code that indicates why the transaction was suspended in the application system.
Resubmit GL Date	Date		GL date when the transaction was resubmitted or written off.
Resubmit GL Cycle	Date		GL cycle when the transaction was resubmitted or written off.
Orig Trans Seq	Number	12	Original transaction sequence number of the resubmitted suspended transaction.
GL Acct	Varchar2	25	General Ledger account.
Recon Amt	Char	3	Amount of the reconciliation transaction.
Recon Ccd	Char	3	Currency code of the reconciliation transaction.
Recon Cnt	Number	6	Number of items in the reconciliation transaction.

## GL Suspend Log

The GL Suspend Log enables the user to query the General Ledger transaction log for suspended and resubmitted transactions, batch or file and resubmit suspended transactions, batch or file for server processing. This enables to determine if any transactions are rejected due to failure to setup general ledger accounts for a specific financial transaction.

**Type:** Inquiry

**Underlying Table:** GL\_TRANS\_LOG

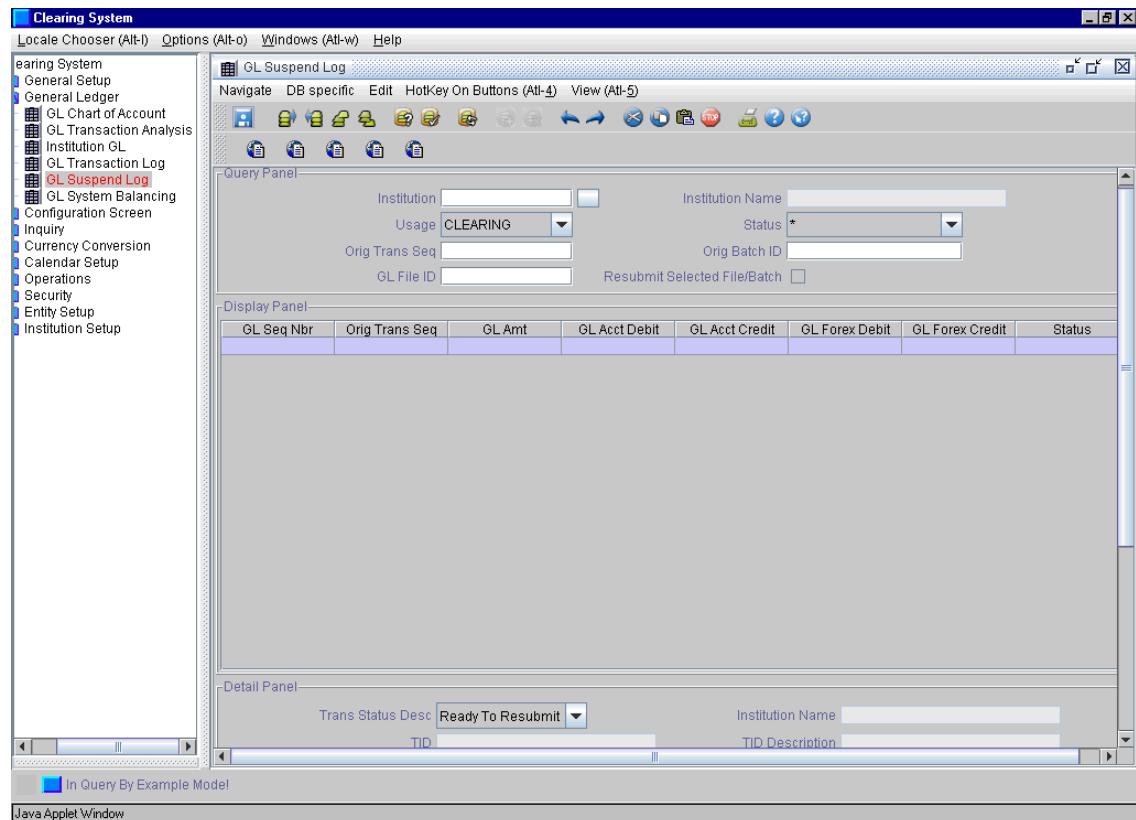


Figure 78 GL Suspend Log



## GL Suspend Log Fields

Field Name	Type	Len	Description
GL Seq Nbr	Number	12	Unique sequence number that identifies the GL transaction.
Orig Trans Seq	Number	12	Original transaction sequence number of the resubmitted suspended transaction.
GL Amt	Number	15	Amount of the transaction in GL currency.
GL Acct Credit	Varchar2	25	GL account credit.
GL Acct Debit	Varchar2	25	GL account debit.
GL Forex Debit	Varchar2	25	GL account debit of foreign exchange conversion.
GL Forex Credit	Varchar2	25	GL account credit of foreign exchange conversion.
Status	Char	1	Status of the GL transaction.
TID	Varchar2	12	Transaction Identifier.
GL Date	Date		GL Date.
GL Cycle	Number	3	GL cycle within the GL day.
GL CCD	Char	3	Currency of GL.
Curr Rate	Number	26,8	Currency conversion rate used to convert from trans_amt to gl_amt.
Card Scheme	Char	2	Defines the type of card.
Usage	Varchar2	15	Defines the application that uses the GL.
Orig File ID	Varchar2	25	Original File ID of the resubmitted clearing suspended file.
Orig Batch ID	Varchar2	25	Original Batch ID of the resubmitted clearing suspended batch.
Batch ID	Varchar2	25	Batch ID assigned by clearing.
Trans Seq Nbr	Number	12	Identifier that links to the source transaction.
Trans Sub Seq	Number	8	Transaction sub-sequence number.
Trans Amt	Number	15	Original amount of the transaction.
Trans CCD	Char	3	Original currency of the transaction.
Trans Cnt	Number	12	Number of items in the transaction.

Field Name	Type	Len	Description
Ext File ID	Varchar2	25	File ID assigned by the merchant.
Src Inst Name	Varchar2	10	Identifier of the source institution of the transaction.
Src File Type	Varchar2	6	Identifies where the file originates.
Pri Dest Inst Name	Varchar2	10	Institution ID to which the transaction will be sent.
Suspend Reason Desc	Char	6	Reason code that indicates why the transaction was suspended in GL system.
Err Reason Desc	Char	6	Reason code that indicates why the transaction was suspended in the application system.
Resubmit GL Date	Date		GL date when the transaction was resubmitted or written off.
Resubmit GL Cycle	Date		GL cycle when the transaction was resubmitted or written off.
Orig Trans Seq	Number	12	Original transaction sequence number of the resubmitted suspended transaction.
GL Acct	Varchar2	25	General Ledger account.
Recon Amt	Char	3	Amount of the reconciliation transaction.
Recon Ccd	Char	3	Currency code of the reconciliation transaction.
Recon Cnt	Number	6	Number of items in the reconciliation transaction.
Ext Trans Seq	Number	12	Transaction sequence number assigned by the external system.

## GL File Summaries

Type: Inquiry.

*Underlying Table: GL\_ACCT\_TOTALS.*

The GL File Summaries is a view only screen that allows the user to query information on the GL cycle account totals and display accumulated Cycle Final Totals for each cycle of the day.

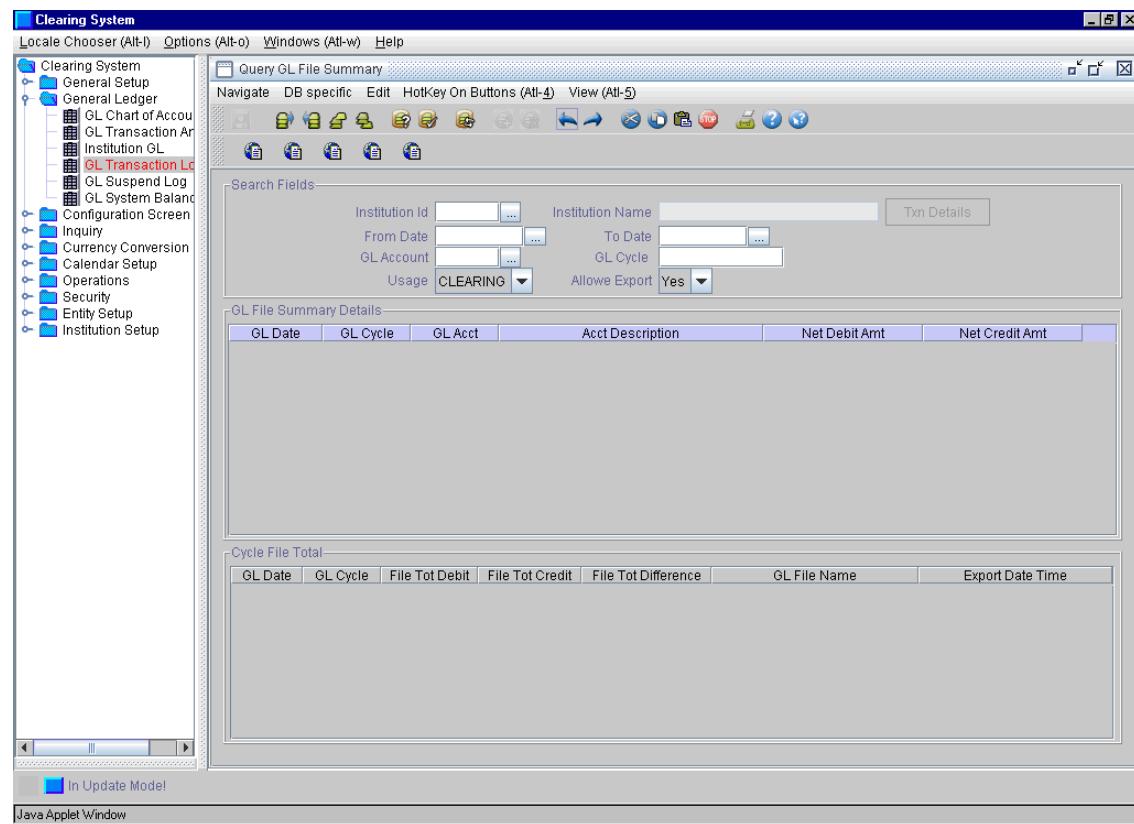


Figure 79 GL File Summaries

### GL File Summaries Fields

Form Field Name	Type	Len	Description
Institution ID	Varchar2	10	Identifier of the Institution.
Institution Name	Varchar2	40	Institution Name.
From Date	Date		From Date.
To Date	Date		To Date.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
GL Acct	Varchar2	25	General Ledger Account.
GL Cycle	Number	3	GL cycle within the GL day.
Usage	Varchar2	15	Defines the application that uses the GL.
Allow Export	Char	1	Allow Export.
GL Date	Date		GL date when the GL was exported.
GL Cycle	Number	3	GL cycle within the GL day.
GL Acct	Varchar2	25	General Ledger account
Acct Desc	Varchar2	40	Description of the GL account.
Amt Debit	Number	26,8	Debit amount of the GL account.
Amt Credit	Number	26,8	Credit amount of the GL account.
GL Date	Date		GL date when the GL was exported.
File Tot Debit	Number	26,8	The total of Debit amounts for specified GL EOD.
File Tot Credit	Number	26,8	The total of Credit amounts for specified GL EOD.
File Tot Difference	Number	26,8	The difference between final total Debit and total Credit amounts for specified GL EOD.
GL File Name	Varchar2	50	GL File Name.
Export Date Time	Date		Date on which the GL File is exported.

## Final GL EOD Totals

Type: Inquiry

Underlying Table: GL\_ACCT\_TOTALS

The Final GL EOD Totals is a view only screen that allows the user to query information on the Final GL EOD account totals and display accumulated Final File Totals for EOD cycle.

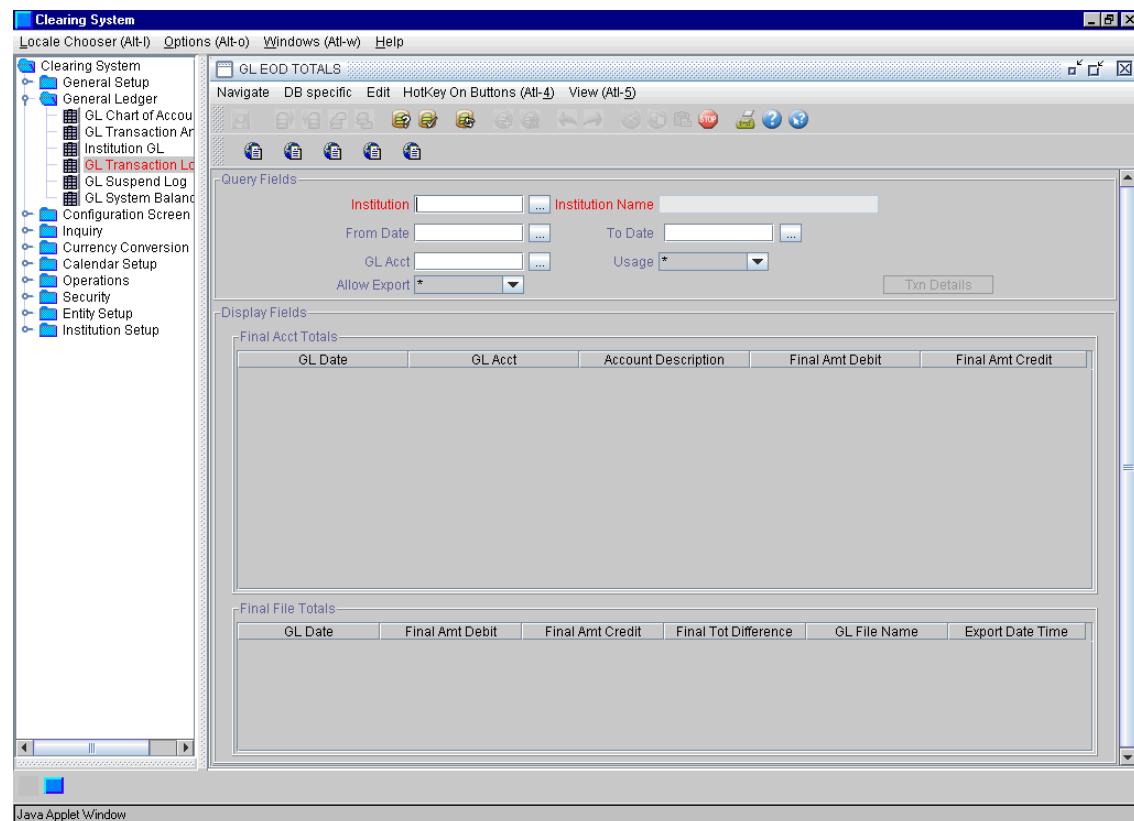


Figure 80 Final GL EOD Totals

### Final GL EOD Totals Fields

Form Field Name	Type	Len	Description
Institution	Varchar2	10	Identifier of the Institution.
Institution Name	Varchar2	40	Institution Name.
From Date	Date		From Date.
To Date	Date		To Date.

<b>Form Field Name</b>	<b>Type</b>	<b>Len</b>	<b>Description</b>
GL Acct	Varchar2	25	General Ledger account.
GL Cycle	Number	3	GL cycle within the GL day.
Usage	Varchar2	15	Defines the application that uses the GL.
Allow Export	Char	1	Allow Export.
GL Date	Date		GL date when the GL was exported.
GL Cycle	Number	3	GL cycle within the GL day.
Acct Desc	Varchar2	25	Description of the GL account.
Amt Debit	Number	26,8	Debit amount of the GL account.
Amt Credit	Number	26,8	Credit amount of the GL account.
File Tot Debit	Number	26,8	The total of Debit amounts for specified GL EOD.
File Tot Credit	Number	26,8	The total of Credit amounts for specified GL EOD.
File Tot Difference	Number	26,8	The difference between final total Debit and total Credit amounts for specified GL EOD.
GL File Name	Varchar2	50	GL File Name.
Export Date Time	Date		Date on which the GL file was exported.

## GL Export

If the GL system is installed (i.e. GL Export mailbox is present), at the end of Clearing import, Clearing process automatically sends the Clearing file id (i.e. in\_file\_nbr) to GL Export process for GL processing.

If the file was rejected in Clearing, there will be no GL entries logged. GL Export process will log a message in the debug file indicating the file is not being processed by GL process.

To check if all transactions in the file were completely logged in GL, go to Query General System Balancing screen to check on the file status. 'B' means the file is balance, 'N' or NULL means the file is not balance, 'R' means the file is recovered.



## GL Recovery

If the file is not balanced, the user needs to run GL Recovery process to re-process the file.

GL Recovery Procedure:

1. Go to the Tasks screen to schedule GL Recovery process.
2. Enter the following values. Replace in\_file\_nbr=1 with the actual Clearing file to be recovered.
  - Institution ID
  - Usage: CLEARING
  - Task Name: GL Recovery
  - Cmd Nbr: 408
  - Cmd Param: -F"gl\_recovery clearing in\_file\_nbr=1"

## Resubmit GL Suspend Transactions

A transaction can be suspended in GL with the following suspend reason. In this case, the transaction is booked to a GL suspense account.

**ERR\_CD Table**

Error Reason Code	Description
GL0001	GL account lookup key not setup in transaction analysis table.
GL0002	Invalid currency conversion rate setup.
GL0003	Institution not setup in Inst_GL table.
GL0004	TID not found in TID table.
GL0005	No data found in currency conversion plan.

Resubmit GL Suspend Procedure:

1. Go to the GL Suspend Log screen to check why the transaction was suspended in GL.
2. Fix the error based on the suspend reason. For example, if the suspend reason code is GL0001, user needs to go to GL Transaction Analysis to setup the GL accounts of the transaction.
3. Go to the GL Suspend Log screen to mark the status of transactions to ready for reprocess.
4. Go to the Tasks screen to schedule GL Resubmit process.



5. Enter the following values:
  - Institution ID
  - Usage: CLEARING
  - Task Name: GL Resubmit
  - Cmd Nbr: 408
  - Cmd Param: -F"gl\_resubmit clearing"

## Resubmit Clearing Suspend Transactions

There are three types of Clearing failed transactions:

### 1. File is rejected

If a file is rejected in Clearing, no GL entries would be created. A message would be logged in the debug file indicating the file is not being processed by GL process.

### 2. Batch Level Suspend

If a whole batch is suspended, all transactions within the batch are booked to a clearing suspense GL account. These transactions must be reprocessed through Clearing and booked to the correct GL accounts.

Resubmit Clearing Batch Level Suspend Procedure:

- Go to the Clearing Suspend Transaction screen to check the suspend reason. The "Suspend Error Flag" will give you the reason for the batch suspension, and the "Suspend Origin" will indicate if it is an internal error ("C" indicates internal error i.e. suspended by Clearing).
- Knowing the problem, you can go to the problem areas in the forms in question to fix the reasons for suspension.
- Go to the Clearing Suspend Transaction screen to change the batch status of In Batch Log to "Ready to be Processed", and it will be re-processed.

### 3. Transaction Level Suspend

If transactions within a batch are suspended, the transactions are booked to a clearing suspense GL account. These transactions must be reprocessed through Clearing and booked to the correct GL accounts.

Resubmit Clearing Transaction Level Suspend Procedure:

- Go to the Clearing Suspend Transaction screen to check the suspend reason. The "Suspend Error Flag" will give you the reason for the batch suspension, and the "Suspend Origin" will indicate if it is an internal error ("C" indicates internal error i.e. suspended by Clearing).
- Knowing the problem, you can go to the problem areas in the forms in question to fix the reasons for suspension.
- Go to the Clearing Suspend Transaction screen to change the Suspend Status of Suspend Log to "Ready to be Processed", and it will be re-processed.



## Write-Off Clearing Suspend Transactions

Clearing suspend transactions that will never be reprocessed must be written-off to move the transactions from clearing suspense GL account to clearing suspend write-off GL account.

Write-Off Clearing Suspend Procedure:

1. Go to the Clearing Suspend Transaction screen, and change the Batch Status of In Batch Log or Suspend Status of Suspend Log to "Write Off".
2. Go to the Tasks screen to schedule GL Write-Off process.
3. Enter the following values. Replace in\_file\_nbr=1 with the actual Clearing file whose transactions are to be written-off.
  - Institution ID
  - Usage: CLEARING
  - Task Name: GL Write-Off
  - Cmd Nbr: 408
  - Cmd Param: -F"gl\_writeoff clearing in\_file\_nbr=1"

## Generate GL Export File

Go to the Tasks screen to schedule Generate GL Export File.

The following tasks are available for GL Export File:

1. Export GL End-Of-Cycle
  - Institution ID
  - Usage: CLEARING
  - Task Name: Export GL End-Of-Cycle
  - Cmd Nbr: 362
  - Cmd Param: -ILK -DP1="db.inst\_id LK" -DP2="db.usage CLEARING" - DP3="db.Function -EOC" -FP1="file.inst\_id LK" -TYPEGLEXP
2. Export GL End-Of-Day
  - Institution ID
  - Usage: CLEARING
  - Task Name: Export GL End-Of-Day
  - Cmd Nbr: 363
  - Cmd Param: -ILK -DP1="db.inst\_id LK" -DP2="db.usage CLEARING" - DP3="db.Function -EOD" -FP1="file.inst\_id LK" -TYPEGLEXP

3. Re-generate GL Export End-Of-Cycle
  - Institution ID
  - Usage: CLEARING
  - Task Name: Re-generate GL Export End-Of-Cycle
  - Cmd Nbr: 364
  - Cmd Param: -LK -DP1="db.inst\_id LK" -DP2="db.usage CLEARING" - DP3="db.GLdate 20060225" -DP4="db.Cycle 1" -DP5="db.Function - Regen" -FP1="file.inst\_id LK" -TYPEGLEXP
4. Re-generate GL Export End-Of-Day
  - Institution ID
  - Usage: CLEARING
  - Task Name: Re-generate GL Export End-Of-Day
  - Cmd Nbr: 365
  - Cmd Param: -ILK -DP1="db.inst\_id LK" -DP2="db.usage CLEARING" - DP3="db.GLdate 20060225" -DP4="db.Cycle " -DP5="db.Function - Regen" -FP1="file.inst\_id LK" -TYPEGLEXP

# 4

## Technical Reference

### File Formats

IST/Clearing uses the Universal Agent (UA) Subsystem both to:

- Read the incoming files, and
- Generate outgoing files.

In addition to the Card Association specific file formats, FIS uses two other formats:

- OCS format, and
- Modified TC57/50 format.

### OCS File Format

OCS (Oasis Common Clearing) file format is a common format and interface used for exchange of transactions between FIS products, mainly IST/Clearing and IST/AllCard.

### File Naming Convention

The format of both incoming and outgoing file names is as follows:

source\_id.processing\_date.sequence\_no.repeat\_ind

Part Name	Length	Description
source_id	10 characters	Internal member institution ID.

Part Name	Length	Description
processing_date	5 digits	The Julian date on which the institution processed the file. The date format is YYDDD.
sequence_no	2 digits	The sequence number of the file belonging to the <b>source_id</b> institution on the given <b>processing_date</b> . Values range from 01 to 99.
repeat_int	1 digit	Flag indicating if this is the original, or repeated, submission of the file. Values are: 0 = original file submission; 1 = first re-submission; 2 = second re-submission.

Consequently, the standard OCS file name will look like this:

**XXXXXXXXXX.XXXXX.XX.X**

and will be recognized by file name mask:

**\$I10.\$J5.\$S2.\$X**

## File Layout

The file layout has the following structure:

```

file header
    batch header
    ocs record type
    ...
    batch trailer
    batch header
    ocs record type
    ocs record type
    ...
    batch trailer
file trailer

```

## OCS File Record Types

The following table presents and describes the OCS file record types:

Record Type	Description
<b>Main Business Transaction Components</b>	
M	Main clearing transactions common fields
MAX	Amex main transaction specific fields

<b>Record Type</b>	<b>Description</b>
MB2	Visa main transaction Base2 specific fields
MEM	MasterCard IPM, Inet, Europay main transactions specific fields
MMF	Transaction Fees - main records extension
MMC	Conversion Fees - main records extension
MMR	IPM Rejected Messages
MME	IPM Message Error Code
MDD	Merchant Description Specific Fields
V50	Visa TC 50 - MPS and Stop Recurring Payment
MDI	Diners Bank Licensing Specific Fields
<b>Additional Data Addenda</b>	
VAD	Visa Additional data
AIR	Passenger Transport Industry specific addendum fields
AIL	Passenger transport line item details
LGG	Lodging Industry specific addendum fields
CAR	Vehicle Rental specific addendum fields
FLE	Fleet Card specific addendum fields
COP	Corporate – Purchasing specific addendum fields
CPL	Purchasing Line Item details
ICC	Chip Card specific fields
INS	Insurance addendum specific data
RES	Restaurant addendum specific data
VPS	Visa Payment Services additional data
SMS	Visa SMS additional data
RER	Visa return/ reclassified additional data
COM	Communication specific addendum fields
SHP	Shipping Courier Services Specific Addendum Fields
TES	Temporary Services Specific Addendum Fields
FRA	Visa Fraud Advice Addendum Fields



## Example of Data Layout

The following is an example of MB2 – Visa Main Transaction Base 2 Specific Data:

Record Type	Field Id	Field Name	Data Type	Len
MB2	000001	Transaction Sequence Number	num	12
MB2	000010	Cardholder Account Number Extension	alphanum	3
MB2	000020	Central Processing Date	date	
MB2	000030	Authorization Characteristic Indicator	alphanum	1
MB2	000040	CRB Exception File Indicator	alphanum	1
MB2	000050	Floor Limit Indicator	alphanum	1
MB2	000060	International Fee Indicator	alphanum	1
MB2	000070	PCAS Indicator	alphanum	1
MB2	000080	Reimbursement Attribute	alphanum	1
MB2	000090	Requested Payment Service	alphanum	1
MB2	000100	Collection Only Flag	alphanum	1
MB2	000110	Usage Code	alphanum	1
MB2	000120	Transaction Identifier	alphanum	15
MB2	000130	Fee/Charge Country Code Alpha	alphanum	3

where

- OCS File Record Type is a three-characters field indicating the OCS File Format Record Type.
- Field Id is a six-digit fixed length code used to identify the field within the OCS File Record Type.
- Field Length is a three-digit fixed length of the field within the record. This field must be present for all fields (both of fixed, and variable length).
- Field Value is the value of the field and must follow its data type definition for each field and OCS File Record Type.
- Data Type Definition indicates the data type of the field.



## FIS TC57/50 File Format

FIS TC57/50 format is used for importing data capture and based on Visa TC57 Base II Advice format. It includes the following information not covered by Visa:

- Visa Purchasing Cards;
- Chip Cards;
- Additional elements required for Visa and MasterCard base transaction records;
- Optional Commercial Card Level II/III Lodging and Car Rental Elements;
- Additional Passenger Trip Leg data for Consumer Cards;
- Fleet Cards;
- Additional Amex Industries (Airline, Oil, and Cruise).

## TC57/50 Transaction Component Records

The following Transaction Component Record (TCRs) are part of FIS TC57/50 standard format:

TCR Number	TCR Name
TCR 0	File Header
TCR 0	File Header
TCR 0	Batch Header
TCR 1	Batch Header
TCR 2	Amex Batch Header
TCR 0	Batch Trailer
TCR 0	Batch Trailer
TCR 0	Transaction Detail
TCR 1	General Merchandise 02, 03, 10, 20
TCR 1	Amex Auto Rental 05
TCR 1	Amex Lodging 11
TCR 1	Amex Restaurant 12
TCR 1/2	Amex Insurance 1, 2 (04)
TCR 1/2	Auto Leasing 1, 2 (07)
TCR 1/2	Telephone (13)
TCR 1/2	Amex Airline/Oil/Cruise
TCR 3	CPS

TCR Number	TCR Name
TCR 3	Chip
TCR 4	Industry Specific Car Rental
TCR 4	Industry Specific Lodging
TCR 4	Industry Specific Passenger Transport
TCR4	Industry Specific MasterCard Car Rental
TCR 4	Industry Specific MasterCard Lodging
TCR 4	Fleet
TCR5	MasterCard Compliance
TCR 5	Limited Use Data
TCR 5	Visa Commercial/Purchasing Card
TCR 6	MasterCard Commercial/Purchasing
TCR 7	Chip Data
TC 50	
TCR 0	Passenger Itinerary data
TCR 0	Passenger Itinerary Data - Trip Leg Specific
TCR 0	Fleet Service
TCR 1	Fleet Service
TCR 0	Lodging
TCR 0	Car Rental
TCR 0	Purchasing Transaction (Additional Data Elements)
TCR 0	Purchasing Transaction (Line Item Detail)
TCR 0	MasterCard Purchasing Transaction (Line Item Detail)

## File Layout

The file layout has the following structure:

```

tc 90 file header
    tc 57 tcr 0 batch header
    tc 57 tcr 1 batch header
    tc 57 tcr 2 batch header amex
    tc57 tcr 0 transaction detail
    tc57 tcr 1/2 amex addenda
    tc57 tcr 1/2 amex addenda (airline, cruise, oil)
    tc57 tcr 3 cps
    tc57 tcr 3 chip (non-cps)
    tc57 tcr 4 industry specific (lg, ca, ai)
        tc57 tcr 4 industry specific mastercard (lg, ca)
        tc57 tcr 4 fleet specific
    tc57 tcr 5 limited use data
    tc57 tcr 5 mastercard compliance
    tc57 tcr 5 visa purchasing card
    tc50 purcha (if additional data for purchasing card exists)
        tc 50 purchl (purchasing card line item detail)
        tc57 tcr 5 visa commercial card
    tc50 commai (passenger itinerary)
        tc 50 commas (trip leg line item detail)
        tc57 tcr 5 visa commercial card
    tc50 commfl (fleet)
    tc50 tcr 1 commfl (fleet)
    tc57 tcr 5 visa commercial card
    tc50 corplg (lodging)
    tc57 tcr 5 visa commercial card
    tc50 corpca (car rental)
    tc57 tcr 6 mc purchasing card
    tc50 purcha (if additional data for purchasing card exists)
        tc 50 mpurcl (purchasing card line item detail)
    tc57 tcr 6 mc commercial card
    tc50 commai (passenger itinerary)
        tc50 commas (trip leg item detail)
            tc57 tcr 7 chip
    tc57 tcr 2 batch trailer
    tc57 tcr 1 batch trailer
    tc57 tcr 0 batch trailer
tc90 file trailer

```

## Example of Data Layout

The following example presents the TC 57 TCR 7 - Chip Data Layout:

Field			
Position	Length	Format	Contents
1-2	2	UN	Transaction Code
3	1	UN	Transaction Code Qualifier
4	1	UN	Transaction Component Sequence Number
5-6	2	AN	Cryptogram Transaction Type
7-9	3	UN	Card Sequence Number
10-15	6	UN	Terminal Transaction Date
16-21	6	DX	Terminal Capability Profile
22-24	3	UN	Terminal Country Code
25-32	8	AN	Terminal Serial Number
33-40	8	DX	Unpredictable Number
41-44	4	DX	Application Transaction Counter
45-48	4	DX	Application Interchange Profile
49-64	16	DX	Cryptogram
65-66	2	DX	Derivation Key Index
67-68	2	DX	Cryptogram Version
69-78	10	DX	Terminal Verification Results
79-86	8	DX	Card Verification Results
87-143	57	AN	Reserved
144-153	10	DX	Issuer Script 1 Results
154-166	13	AN	Internal Merchant Batch Key
167	1	AN	Record Type
168	1	AN	Reserved



## General Ledger File Format

MSG Header						
FileID	0	0	20	alpha		M
GLDate	1	20	8	date	DDMMYYYY	M
ExportDate	2	28	8	date	DDMMYYYY	M
ExportTime	3	36	6	alpha		M
MSG Detail						
GLAccount ID	0	0	20	alpha		M
CreditAmount	0	20	12	number	2	M
DebitAmount	0	32	12	number	2	M
MSG Trailer						
FileID	0	0	20	alpha		M
CreditAmount	0	20	12	number	2	M
DebitAmount	0	32	12	number	2	M
RecordCount	0	44	12	number		M

### Sample File Contents

File Name	Description
GL.4007.01	0701200407012004125524
PYMT-LIAB-IN	000000001002000000000000
SETTL-305	000000000000000000001002
GL.4007.01	000000001002000000001002000000000002



# Graphical User Interface

The Clearing GUI is intended for the use of system administrators and operators who will be setting up, maintaining and monitoring the Clearing Service system.

When you start the Clearing Service application, the login screen below is launched. The Login Screen, created through the Login.html template, is the first page displayed for the user and should reside on the web server machine.

## Description

### Login Screen

The login screen prompts you for the user name and password.

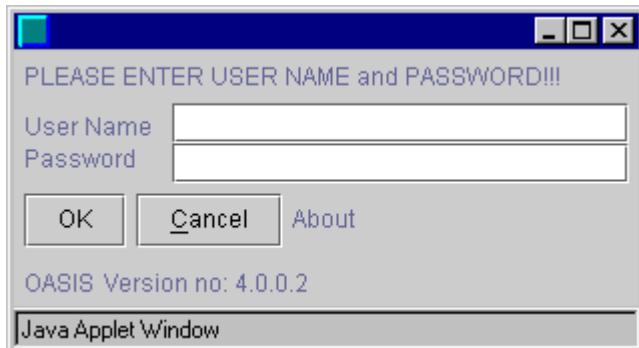


Figure 1 Login Screen

Input the required information and click the okay button.

The Authentication server will authenticate the entered data. When the data is successfully authenticated, the application window is displayed with all the options you are granted access to. The access rights are determined by the Entitlement Server. See Authentication Subsystem Guide and Entitlement Subsystem Guide for details.

## Clearing Services Screen

A Clearing screen consists of the following parts:

- A - application name;
- B - menu bar;
- C - main menu;
- D - form.

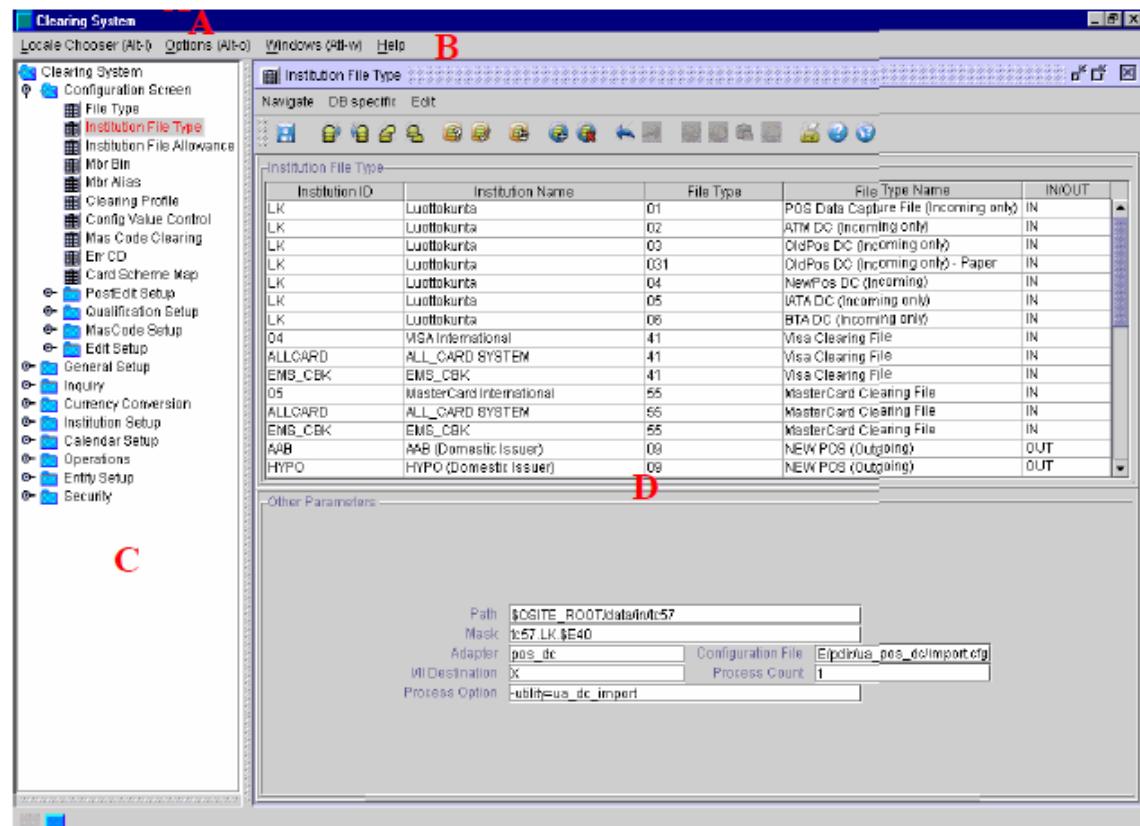


Figure 2 Clearing Services Screen

### Menu Bar

Most screens contain the following menu bar options:

- Locale Chooser - allows you to select the appropriate local language for your application, if applicable. For example, if you are located in Brazil, you would select Brazilian Portuguese as the language of your application.
- Options - allow you to select from the available application options (e.g. view the environment options).

- Windows - lets you select the arrangement of the open windows according to your preferences. It also provides a list of all open windows.
- Help - provides on-line help concerning the basic application topics, as well as information about the application.

## Main Menu

After the log in procedure, when the permission to access the application is granted, the Oasis Products main screen appears:

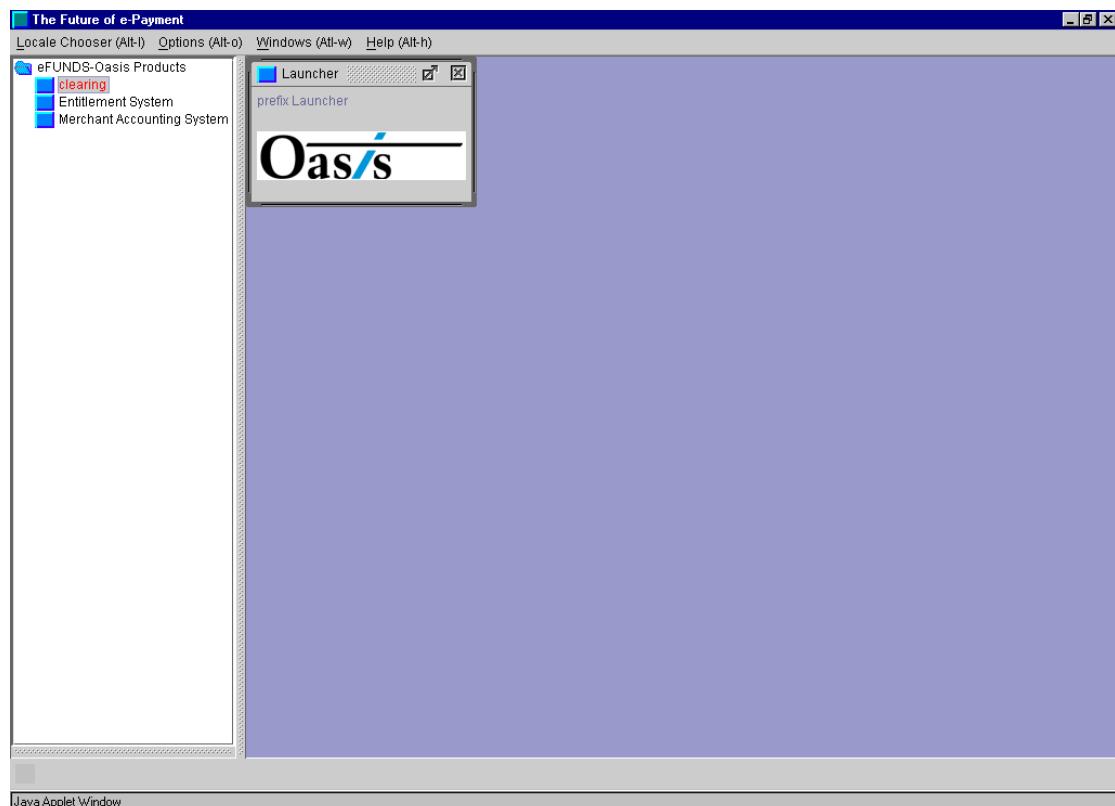


Figure 3 Oasis Products Main Page

Click on the Oasis Integrated GUI to display the GUI menu tree:

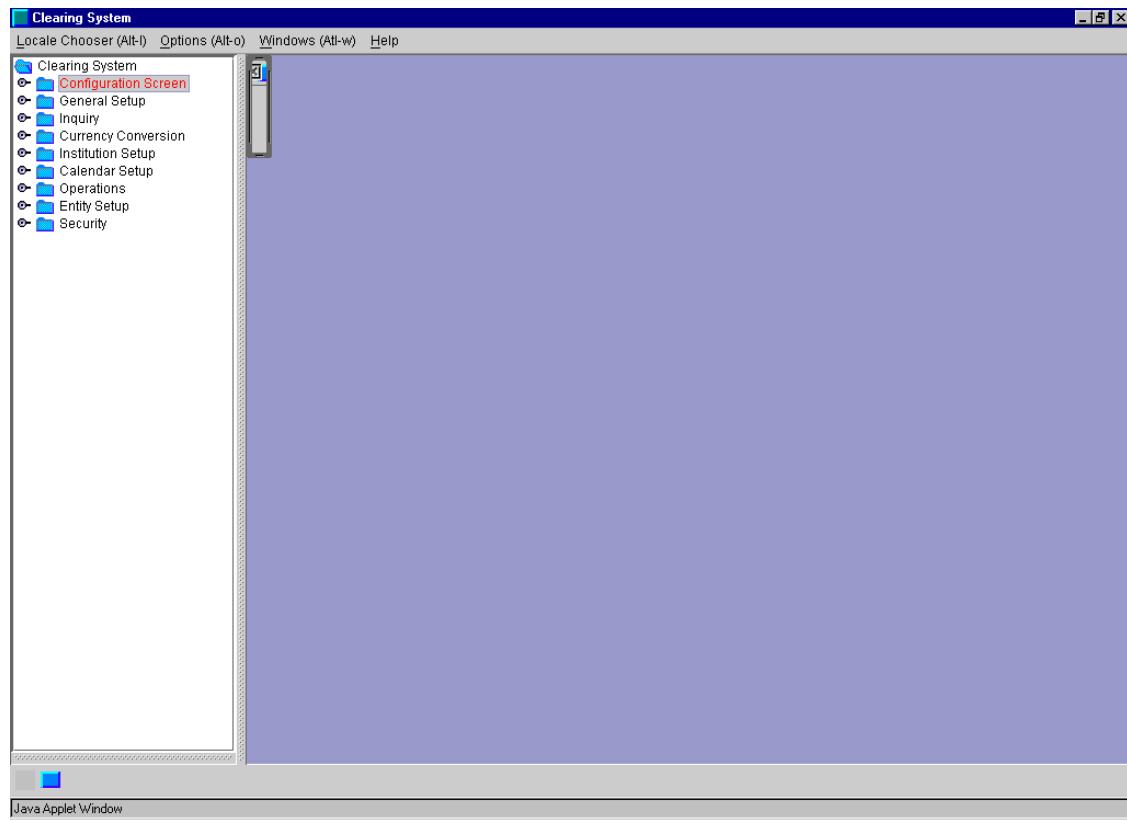


Figure 4 Oasis Integrated GUI Main Menu

If you have both IST/MAS and IST/Clearing installed, the screen will appear exactly as in the figure above. If you have only IST/Clearing, it will not have the “MAS” option.

The **Common** menu option allows you to set up all the forms that are common to two or more FIS products.

The **Clearing** menu option allows you to set up all the IST/Clearing specific forms.

The **Security** menu option allows you to set up additional security features offered by the system.

## Forms

Clearing forms can be either Standalone or Master/Detail forms. [“Stand Alone Form” on page 337](#) and [“Master/Detail Form” on page 337](#))

A form can consist of several parts, as presented in the figure below:

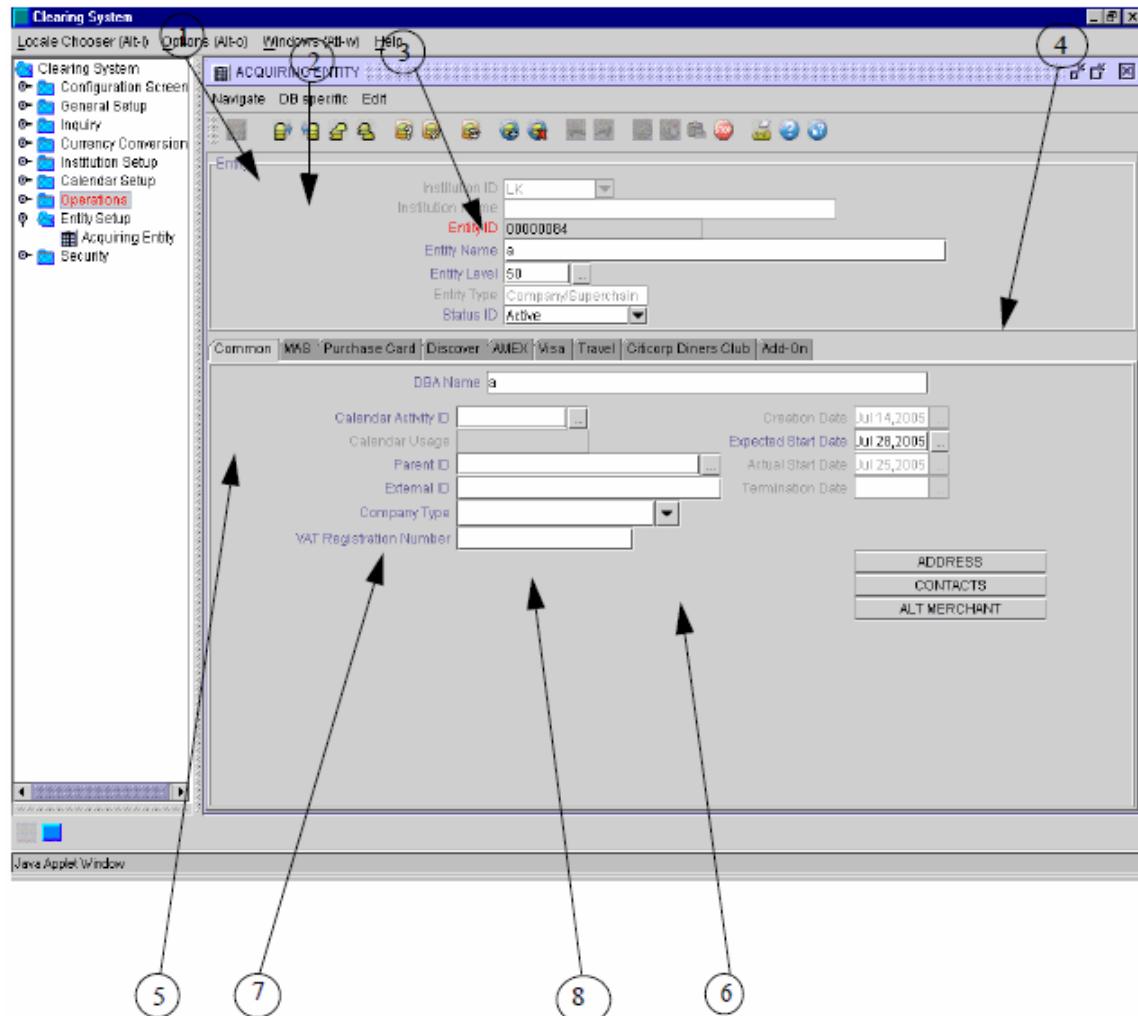


Figure 5 A Clearing Form Screen

No.	Screen Part	Description
1	Title Bar	Contains the form title.
2	Menu Bar	Contains menu options
3	Tool Bar	<a href="#">See “Tool Bar Icons” on page 344.</a>

No.	Screen Part	Description
4	Information Block	A part of the form containing data that is inter-related. An information block consists of <ul style="list-style-type: none"> <li>● fields with slots for user data input,</li> <li>● fields with displayed information,</li> <li>● drop down lists.</li> </ul>
5	Tabular Block (JTable)	A part of the form containing inter-related data presented in a tabular form. It allows you to view data.
6	Tab	A tab through which you can access a piece of information, as labelled. Forms sometimes contain a series of screens grouped together, and displaying information either in the form of a block, or a table. Each screen has a label indicating the nature of information contained in the screen. To access such a screen, click on the appropriate tab.
7	Connection Buttons	Buttons that lead you to the related tasks or forms.
8	Drop Down List	An indicator of the <b>List</b> of values germane to a particular field.
9	Field Name	Name of the field indicating what information the field contains, or should contain.
10	User Input Field	Space provided for the information you need to enter in a specific field.
11	Institution Name	Institution name

### Stand Alone Form

Stand alone forms are those that allow all data to be entered into a single form, and stored in a single database table.

An example of a Stand alone form is the **Language** form (See IST/Clearing Administration Guide). It provides a list of language codes to be used by the system, and those codes are stored in the **Language** database table.

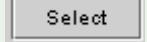
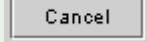
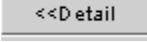
### Master/Detail Form

Master/Detail forms involve entering data into more than one form and storing it in multiple database tables. There is a hierarchy in entering data in the Master/Detail forms: a master record must always exist before a Detail record can be added to it.

An example of a Master/Detail form is the **Institution** form, where Institution record is the master record, while addresses, contacts, etc. are detail records. See IST/Clearing Administration Guide for details.

## Buttons

There is a number of buttons that appear in forms and dialog boxes.

Button	Use
	Some fields have this button adjacent to them. Click on this button, or double-click the field itself, to display either <ul style="list-style-type: none"> <li>* <a href="#">SearchList</a> with a list of values that will help you select the appropriate value, or</li> <li>* <a href="#">Calendar Tool</a> dialog that will help you set up a date and time for Date, Time, or Timestamp columns.</li> </ul>
	Removes the form from the parent IST/Clearing environment, so it becomes a stand-alone window. Use this button when you wish to see the form alone on the screen, and print the whole screen.
	Returns the stand-alone window to the parent environment. Use this button to change back from the “EXT” mode to the normal mode.
	Appears in SearchList dialogs to allow you to select the highlighted option.
	Appears in SearchList dialogs to allow you to refresh the screen display.
	Appears in dialog boxes to allow you to cancel the action or selection.
	Appears in dialog boxes to allow you to display detailed information concerning a status of a process. <a href="#">See “Commit Successful Details” on page 348.</a>

In addition to the buttons described above, there are buttons used in some forms to lead to other forms. See Institution form in the IST/Clearing Administration Guide for an example. They are described as part of those forms.

## SearchList

The SearchList dialog allows you to select a value from the already configured values available in the system. You can:

- Select one of the displayed values,
- Navigate through the list of available records, or
- Perform a query by example by selecting a column, adding specific criteria in the text field provided, and clicking on the Refresh button.

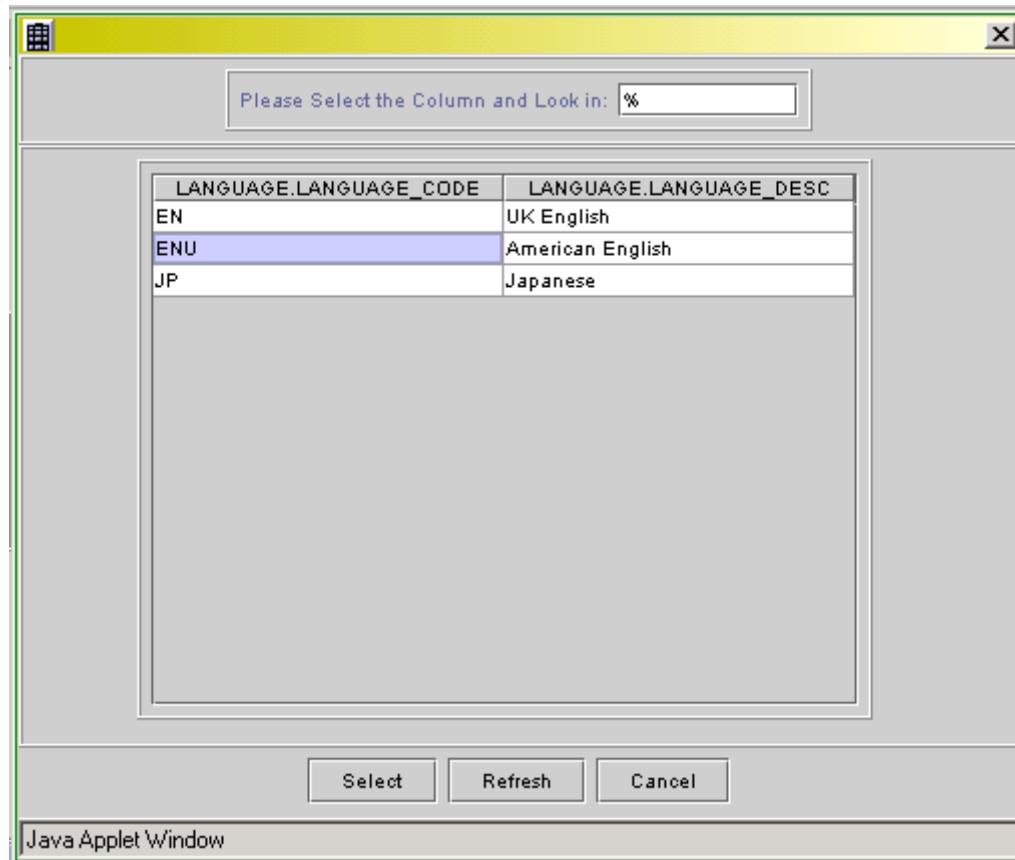


Figure 6 SearchList Dialog

## Calendar Tool

The Calendar tool allows you to specify a date and time without typing any information. This method frees you from concerns about the date format.

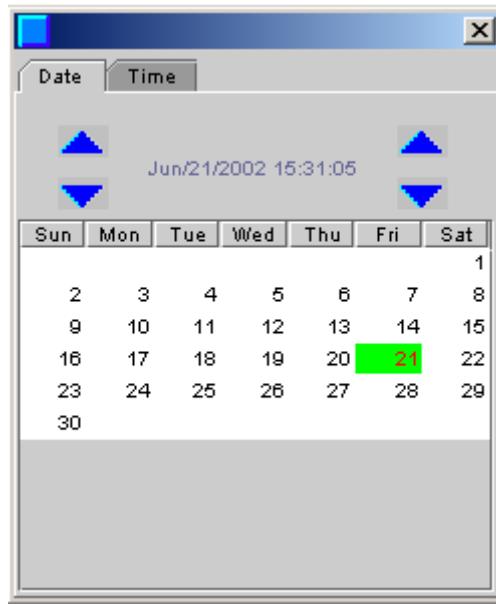


Figure 7 Calendar Tool Date Dialog

You can access the Calendar Tool dialog in one of the following ways:

- Double-click on the field requiring a date input;
- Click on the ellipsis next to the field requiring a date input.

Select the Date tab to set up a desired date. The Calendar date dialog has two sets of up/down arrows. The arrows on the left modify the month setting, and the arrows on the right modify the year setting. To set a specific day, click on the number, in the lower half of the display, corresponding to the desired day. The current date selection is displayed in the upper half of the screen, between the blue arrows.

Select the Time tab to set up a desired time. Once the correct date and/or time have been specified, click OK to place the selection in the text box. Selecting Cancel closes the Calendar, and any previous setting remains. Selecting NoDate clears any previous date setting and closes the Calendar.

## Inserting a Record into the Form

Forms open by default in either:

- Insert mode, or
- Query mode.



### Insert Mode

Some forms open in the “insert” mode by default. You just have to open them and start entering data. Once you have entered the required information, you Save the changes, and the database table(s) behind the form are updated with the entered data.

If you wish to add yet another record, you have to click on the [Add New Record](#) icon.

If the [Add New Record](#) icon is grayed out when you open the form it means that you are not allowed to update the form.

### Query Mode

Some forms open in the “query” mode allowing you to query the database.

All inquiry forms open in this mode, and they normally allow you to view, but not update the records.

There is a number of other forms that open in the “query” mode, but allow updates. However, to add records to such forms, you have to change their mode. Clicking on the [Add New Record](#) icon changes the mode of these forms to the “insert” mode.

### Querying the Database

You can retrieve records from the database tables underlying forms. By executing a query, a record set is returned to the form that generated the query.

Click on the [Execute Query](#) icon to retrieve the records in the associated table. Click the Next, Previous, First and Last Record to navigate through the record set.

You can also query the system for specific information of interest to you. To do that, you can either:

- Double-click on the field of interest to display the Query by Example dialog box, or
- Click on the [Enter Query by Example](#) icon.

Clicking the [Enter Query by Example](#) in a form either:

- Clears all fields in the display allowing you to enter information to be queried, or
- Displays one empty row to allow you to enter criteria for the query.

Enter the query criteria and click on the [Execute Query](#) icon to retrieve all the available records that match the entered search criteria.

If you enter the query criteria and then perform any other operation (e.g. Insert, Delete, navigation to a new record) before you click on the “Execute Query” icon, the previously entered criteria will be lost.

If you press the [Execute Query](#) button immediately after pressing the [Enter Query by Example](#) button, a query with no criteria will be performed and all the records from the tables handled by the form will be returned.

When you *execute* the query, the relevant information fills in the form, and you automatically exit the “query” and get into the “update” mode. If the query causes no records to be retrieved, you have the choice of *re-entering* or *cancelling* it.

## Viewing Lists of Values

There are different ways to view lists of values available for various fields in the forms. You can either:

- Click on the  icon at the right hand side of a field to display a drop-down list of values available for this field,
- Double-click a JTable, or a form, field (with the form in the “insert mode”), to display the SearchList with all the values available in the system for this field ([See “SearchList” on page 339.](#)), or

Unable to insert new records. No records present in BIN table.

- Press the  button at the right hand side of some fields to open the SearchList dialog box displaying all the available records for the given field.

### Example 1

If you double-click on the “File Type Name” field of the **Institution File Type** form, the SearchList appears. It enables you to:

- Perform a search for a specific file type (by file type, file type name or file format), or
- Just navigate through all the file types available to the system and make a selection.

### Example 2

You can double click anywhere in the “BIN field” of the **Issuer BIN** form, or press the  button, to open the SearchList dialog box displaying all the issuer BIN records in the BIN table which have not been assigned a member institution ID. If there are no such records, an error message will be displayed:

Unable to insert new records. No records present in BIN table.

## Saving Changes made to the Form

Click on the [Save Record](#) icon to:

- Save the newly entered records to the database;
- Save modified records to the database;
- Remove the deleted records from the database.

When you attempt to close the form, the status of the form will be checked. If any new changes were made since the last **save** operation, you will be asked if you want to save the changes.

## Deleting a Record from the Form

To delete a record from a form, first select the record in the table control. Then click on the [Delete Record](#) icon.

**Delete Dialog** - whenever you select a record for deletion, the following dialog message is displayed:

Are you sure you want to delete?

Clicking on the **Yes** button marks the record as deleted, and once you chose to Save, the record will actually be removed from the database. If you click on **No**, no change will be made.

## Closing a Form

You can close the form by clicking the X button in the top right hand corner of the form. When the form closes, the system checks to see if any changes have been entered since the last Save operation was performed. If no changes have been made, the form is closed.

If there are some unsaved changes, the following warning message is displayed:

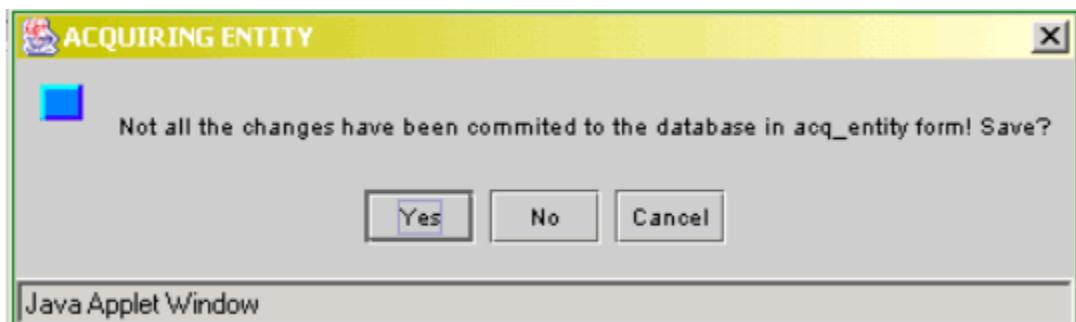


Figure 8 Warning Message

If you click on:

- **Yes** - the changes will be saved in the database and the form will close;
- **No** - the form closes and all the changes will be lost;
- **Cancel** - the form remains open allowing you to enter more changes.

## Tool Bar Icons

Each Clearing form contains a tool bar that provides quick access to the frequently used commands. To perform an operation using this bar, just click on the appropriate icon.

Icon	Icon Meaning	Key Shortcut	Use
	Save Record	Alt S	Saves the information entered into the form, and saves all changes performed since the last change. This button becomes active as soon as new information is entered.
	Next Record	Alt N	Advances to the next sequential record. You can use it to browse through the available records in a sequential order.
	Previous Record	Alt P	Returns to the previous sequential record. You can use it to browse through the available records in a sequential order.
	First Record	Alt F	Displays the first record in the sequence.
	Last Record	Alt L	Displays the last record in the sequence.
	Enter Query by Example	Alt E	<p>Clears the form so that you can specify the requirements for the next query to be performed.</p> <p>This functionality allows you to query the database for records that match a specified value in a specified field.</p> <p>The system will be queried when you click on the "Execute Query" icon.</p> <p>If you perform any other operation (navigate to a different record, insert, delete, save) or press any other icons, the criteria entered for the query by example will be lost.</p> <p>If you click on the "Execute Query" icon immediately after clicking on the "Query by Example" icon, a query with no criteria will be performed, and all the records from the tables handled by the form will be returned.</p>
	Execute Query	Alt Q	Executes the query you specified or initiated. The system queries the database and returns the appropriate record set.

Icon	Icon Meaning	Key Shortcut	Use
	Refresh	Alt R	Refreshes all the values displayed in different fields. E.g. you enter a new institution record in the Institution table, and save the information in the database. To display all the available institutions (including the one you just entered) in a different form, you simply press this button.
	Add New Record	Alt I	<p>Clears all fields in the form and allows you to insert a new record in the form.</p> <p>* If the form contains a <a href="#">Tabular Block (JTable)</a>, and this block has the focus, the new record will be displayed in the table, waiting for your input.</p> <p>* If the form is a <a href="#">Master/Detail Form</a>, click on this icon, with the master form in focus, and all the fields will be cleared and the new record will be entered in the master table. When any of the detail form fields is in focus, the fields of the detail form will be cleared.</p>
	Delete Record	Alt D	<p>Deletes the currently displayed record.</p> <p>* If the form contains a <a href="#">Tabular Block (JTable)</a>, and one or more records are selected in the table, those records will be deleted.</p> <p>*Otherwise, the whole displayed record is deleted from the database.</p>
	Undo		(For future use) Reverses the last command or deletes the last entry you typed.
	Redo		(For future use) Reverses the action of the "Undo" command.
	Cut		(For future use) Removes the highlighted selection and places it on the clipboard.
	Copy		(For future use) Copies the highlighted selection to the clipboard.

Icon	Icon Meaning	Key Shortcut	Use
	Paste		(For future use) Pastes the contents of the clipboard at the insertion point. This command is available only if there is text on the clipboard, i.e. if you have previously cut or copied something.
	Stop	Alt C	Cancels the operation you were performing. E.g. if you started entering a record, or making changes to a specific record, the current record is displayed. When you click on this button, the changes you started making will be lost.
	Print	Alt P	Prints the active window.
	Help		Displays information about the form.
	What is this Help		Displays on-line documentation on the selected item.

Using certain commands temporarily prevents the use of some other commands. The commands which are temporarily unavailable will, in that case, be grayed out.

For example, if you click on the “Enter Query” icon, you will be in the so called “query mode” which allows you to execute the query, but all other actions are not possible at this time.

## Database Queries

Records can be retrieved from the underlying database tables and returned as a record set to the form that generated the query.

Click on the [Execute Query](#) icon to retrieve the first record in the associated table. Click the Next, Previous, First and Last Record to navigate through the record set.

Click the [Enter Query by Example](#) icon to clear all fields in the display before you enter information to be queried. Then click the [Execute Query](#) tool bar icon to query the database table for all records that match the entered search criteria.

When you *execute* the query, the relevant information fills in the form, and you automatically exit the “query” and get into the “update” mode. If the query causes no records to be retrieved, you have the choice of *re-entering* or *cancelling* it.

## Database Commit Operations

The Commit Successful and Commit Fail dialog boxes are used to inform you whether database operations have been successful or not. If the Commit Successful dialog box is displayed, click OK to commit the update to the database table.

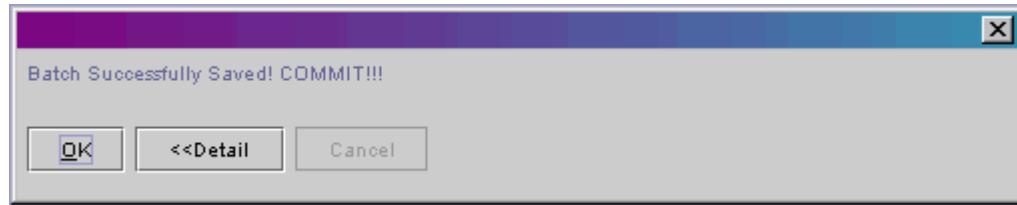


Figure 9 Commit Successful

The Commit Fail dialog box is displayed to inform you that the database operations have failed. In this case, clicking OK does not modify the database; it only clears the failed update batch and refreshes the screen display.

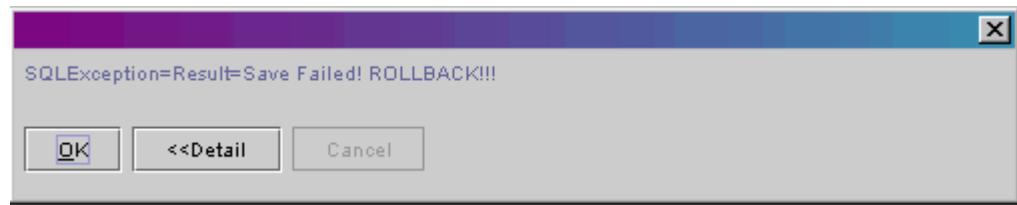


Figure 10 Commit Fail

Select Details from the Commit dialog boxes to display a text box containing the SQL statement used to commit database operations to the database.

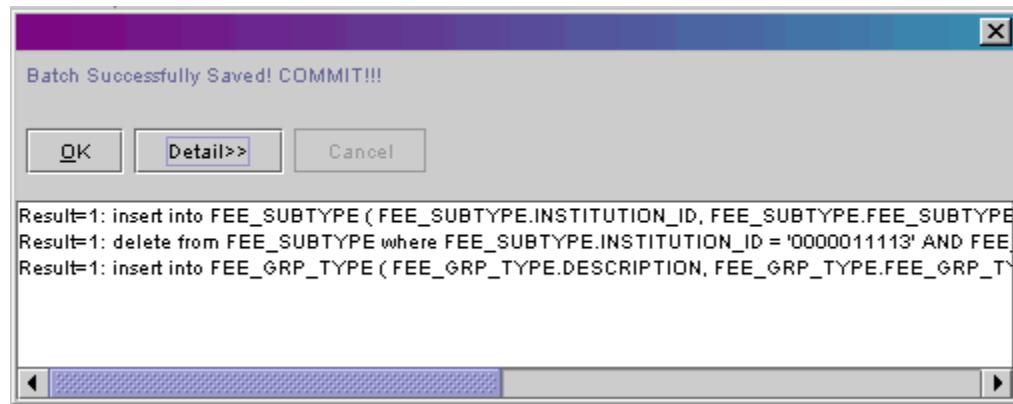


Figure 11 Commit Successful Details

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