



Time Investment 8.3.5

Operations Guide

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Publication Information

Release: Time Investment 8.3.5

Publication Date: February 16, 2022

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Introduction

The *Operations Guide* contains batch operations as well as conversion and migration information for Infopoint Time Investment.

Organization of This Guide

This guide is divided into 5 chapters, a glossary, and an index. The table below briefly describes each chapter.

Chapter	Title	Description
1	Introduction	Describes the guide.
2	Features	Describes the benefits and features of Time Investment. Lists the enhancements and modifications applicable to this product release.
3	Installation Summary	Summarizes the steps between unloading the tape and actually converting the data.
4	Conversion	Describes procedures for converting the existing application to the Infopoint format.
5	Migration	Describes procedures for upgrading to the most current release of an Infopoint application.
	Glossary	Defines financial and data processing terms applicable to Time Investment.
	Index	Provides a quick reference for locating information.

How to Use This Guide

This guide is an instructional and reference guide that should be read in the following manner.

1. Briefly browse through each chapter to obtain an overview of its contents and become familiar with the general layout.
2. Carefully read each chapter to learn specific information and its location.
3. After becoming familiar with the Time Investment product, use this guide as a standard source of instructional and reference information.

Conventions Used in This Guide

Feature	Explanation
Boldface	Identifies the actual numeric and alphanumeric values of the current field. Enter values exactly as shown.
UPPERCASE	Identifies field names (such as TIACTY-NBR), file and record names (such as TI-MRPTFIL), program names (such as TID200), and panel IDs (such as TIEPRO).
<i>Italics</i>	Used to emphasize or define a term or concept. Highlights field requirements.
b	Signifies a blank character or a blank-filled field value.
n	Signifies any numeric field value associated with a field name or card column.

Product Publications

The guides listed below comprise the documentation set for Infopoint Time Investment.

Infopoint Time Investment *Procedures Guide*

Contains daily processing procedures for Time Investment, online messages generated during processing, descriptions of the online panels (with samples), batch forms (with masters) and reports (with samples). In addition, this guide describes the MICM panels and batch forms specific to Time Investment.

Infopoint Time Investment *Reference Guide*

Contains technical information about online and batch programs within Time Investment and provides files and record layouts.

Infopoint Time Investment *Operations Guide*

Describes complete batch operations and technical procedures for Time Investment and provides conversion and migration information.

Infopoint Time Investment *Installation Guide*

Contains step-by-step instructions for installing the product.

Related Publications

The guides listed below provide additional reference material relating to Infopoint Time Investment.

Infopoint MICM *Procedures Guide*

Contains the online panels and batch forms used to maintain MICM. Procedures and reports produced by MICM are also included. A set of form masters is also provided.

Infopoint MICM *Reference Guide*

Contains MICM batch and online programs and record layouts.

Infopoint MICM *Operations Guide*

Contains conversion and migration information.

Infopoint MICM *Installation Guide*

Contains step-by-step instructions for installing the product.

Infopoint Runtime Components *Reference Guide*

Contains technical information on API and mapping features used by Infopoint systems running under the API architecture.

Infopoint Runtime Components *Installation Guide*

Contains step-by-step instructions for installing the product.

Time Investment is designed to satisfy the most critical needs of users by offering a true time investment. This system includes Certificates of Deposit (CD), Time Deposit Open Accounts (TDOA), Individual Retirement Accounts (IRA), and Savings accounts.

Time Investment uses Infopoint MICM (Master Information and Control Manager) to store and maintain processing parameters, institution options, customer names and addresses, and a total profile for each customer that the institution processes. Combining MICM and Time Investment, you build deposits and customer services more profitably. MICM is a functional part of Time Investment.

Input

The three types of input to Time Investment consist of maintenance transactions, monetary transactions, and control cards.

- **Maintenance Transactions**

Maintenance transactions are entered to the system through the input/maintenance forms for existing accounts. New customer/master accounts may be added or existing accounts may be altered. All other records may be maintained, such as assignments/cautions, interest payment history, rate change history, customer payout history and customer relational records. Requests for statements, labels, and 3 x 5 cards can be made.

- **Monetary Transactions**

The capture and balancing phase of the system captures the monetary transactions to be processed for each institution on the system. The system captures from cards, disk or tape.

- **Control Cards**

Control cards are used for program control to select processing options. The control card formats are described in the Batch Programs chapter of the *Reference Guide 1* for each job that uses a control card.

Processing

The system includes 8 phases:

1. Institution Control Phase
2. Capture and Balancing Phase
3. Entry/Edit Phase
4. File Maintenance Phase
5. Posting Phase
6. Statement Processing Phase
7. Report Processing Phase
8. Reorganization

Time Investment uses six permanent files and several temporary files in processing Certificates of Deposit, Time Deposit Open accounts, Individual Retirement accounts and Savings accounts. The permanent files are the MICM Master File, Time Investment Institution Control File, Time Investment Master File, Time Investment Customer Control File, Time Investment Overflow File and Time Investment Total Activity File. All of these files, with the exception of the MICM Master File, are described in the Application Files chapter of *Reference Guide 2*.

Institution Control Phase

Before processing Time Investment, the Institution Control File must be updated. The updating of the processing dates is done automatically by the system when program TID020 is executed. The processing dates are calculated by using the institution holidays stored in the MICM Master File. If any change to the Institution Control File is needed, it must be made in this phase.

In conjunction with updating the Institution Control Record, Time Investment provides a method whereby institutions may be selectively processed. This is useful when processing for correspondent institutions whose work may arrive to be processed at different times during the day, and could prevent a bottleneck when the courier arrives to receive the work for the early institutions.

Capture and Balancing Phase

The capture and balancing phase of Time Investment captures the monetary transactions to be processed for each institution on the system. The system captures from cards, disk or tape. Capture input may contain a serial number, routing-transit number, an account number, the transaction code, amount, effective date and a standard description. The capture phase assigns item sequencing, which is maintained throughout the balance of the system, and lists all of the capture input. Totals are accumulated for debits and credits in each batch and are compared to a batch total to simplify the balancing procedures. Items may be deleted and added to the capture file as required. Complete capture and balancing reports are produced allowing any item to be traced easily.

Once the transactions are captured, they are sorted and a net post header is created.

Entry/Edit Phase

The entry/edit phase edits the data of every maintenance transaction and verifies that the contents are valid. The new and maintenance input edit report may list all the transactions processed through this phase, or list only those transactions that are in error. This is done according to the option selected by the user.

Any transaction failing the edit tests is rejected from further processing. The reason for rejection is shown on the report. The editing criteria may be unique for each institution and are based on data entered in MICM.

File Maintenance Phase

Batch maintenance and new accounts are processed in a separate program from the Posting program, and, therefore, may be eliminated for those institutions that do file maintenance and that enter new accounts in an online environment.

Posting Phase

The posting of monetary transactions in Time Investment is simple and straightforward. The record key for posting is the institution number and account number. The system also posts to an activity file which is used to generate report records, thus allowing recapping at five levels.

Report files to be used by the statement and report processing phases are spooled to record the activity during the day.

Statement Processing Phase

During the posting phase, each account is tested to determine the statement processing requirements during the processing run. Statement information is spooled, sorted, and printed according to processing parameters at the institution level and the account level. Statements are printed two-up in the sequence selected by the institution. Statements of similar format are printed together to aid operations and distribution.

Report Processing Phase

The report processing phase of Time Investment is controlled by each institution's processing parameters. During the posting phase, report records are spooled according to activity and as exception conditions are detected. Each institution may control the selection of reports to be produced, and the sequence in which each report is printed. Each report is produced from information contained in the report records for that report. This concept allows for the easy modification of existing reports and printing of additional reports. The system allows for reports to be produced on stock paper microfiche, or both.

Reorganization

Time Investment must be backed up each time the system is processed. Use the backup program, which copies Time Investment files to tape without altering the contents of any of the records, to backup the system. The reload program recreates the files. Program TIR020 reorganizes several files by deleting records that are older than their specified retention dates. Retention is specified on MICM Record 3500; the following records are affected.

- Account Numbers
- Assignment
- Customer Payout
- Interest History
- Rate Change
- TDOA Availability
- Transaction
- Transaction Description
- Statement Copies

This program should be run on a periodic basis.

Output

The output from Time Investment consists of the updated Master Files and the various reports that are produced by the system, on a daily, monthly, annual, or on request basis. The Time Investment files are described in the Application Files chapter of *Reference Guide 2*. The reports are described in the Reports chapter of the *Procedures Guide 2*.

Features and Options

Time Investment processing depends on the features and options selected by the user. These features and options are controlled by parameters entered in MICM. The following is a list of the features and options provided in Time Investment.

Customer Processing

- Individual customers.
- Alternate names and addresses.

Statement Processing

- Form selection at account level.
- Combined customer statement.
- Serial number sort option by account.
- No activity statement option by account.
- Ninety-nine cycled statements.
- No activity statement option by account.
- Scheduled statements.
- Snapshot statements on request.
- Copies may be sent to other customers.
- Thirty-position account type description.
- Sixty position transaction description.

Service Charge Processing

- Cycled separately from statements.
- Cycled service charges.
- Scheduled service charges.
- Affiliate service charges.
- Reporting optional by account.
- Thirty sets of parameters available and user routine interface provided.
- Retained service charges.
- Two special service charges at the account level.
- Incremental service charges.

Interest Processing

- Pay on balance or collected balance optional by account.
- Annual interest rate by account.
- Interest calculation optional by account.
- Simple interest.
- Daily compounding.
- Continuous compounding.
- Year base option by account – 360, 365, or actual day year.
- Month base option by account – 30 or actual day month.
- Pay interest or principal by check.
- Transfer interest or principal to another account.

Rate Change History Processing

- Scheduled rate changes.
- Multiple rate changes permitted.
- Effective date processing.
- Automatic re-accrual of interest.
- Rate change history printed on statement option.

Assignments and Cautions Processing

- Automatic deletion on expiration date.
- Sixty-position description available.

TDOA Availability Processing

- Deposits automatically generate availability records.
- Each deposit may accrue at a different rate.
- Transactions may be processed against a specific deposit.
- Several options for the sequence of withdrawals.

IRA/Keogh Payout Processing

- Distribution amount option.
- Distribution frequency option.
- Number of days or months between payments option.
- Equal payment option.
- Specific account for disbursing of funds.
- Several options for the sequence of withdrawals.

Renewals Processing

- Single and automatic renewal options.
- Renewal frequency option.
- Number of days or months between renewal option.
- Specific day renewal option.
- Principal disposition option.
- Ability to renew into a different type.
- Re-default type values at renewal.

Transaction Processing

- Four-digit external and internal transaction codes.
- Effective date processing with automatic adjustments to interest accruals.
- Sixty-position description available.
- Post or reject unmatched reversals option.
- Matched reversals not shown on statement.
- Block, batch, and sequence numbers carried.
- List post optional by account.

Report Processing

- Each report optional by institution.
- Report sort options by institution.
- Special forms option.
- Stand alone trial balances.
- Activity recap sort sequence option.
- Report resorting.

Passbook Accounts

- Any account designation may be identified as a passbook account.
- Special passbook reports show balanced transactions, unbalanced transactions, and discrepancies.

Online Processing

- Online editing of information.
- Immediate updating of major files.
- Security checks.
- Recovery ability.
- Field-level security.
- Multi-institution signon.

Regional Pricing

Regional pricing refers to the ability to assign different pricing structures based on the branch of domicile. Certain MICM records used by Time Investment may be defined as region specific records. Region zero is used as the default. The user is required to establish parameters for a specific region only if the processing requirements for the region are different from the default.

Up to 999 pricing regions may be established for each institution. The region numbers assigned for pricing may be different than the reporting region.

The system automatically tables parameters for a maximum of four regions. If more than four regions are used, the system automatically begins overlaying to accommodate additional regions. The system may be modified to accommodate up to 36 different regions.

For more information on regional pricing, refer to the Application Processing chapter of the *Procedures Guide 1*.

Installation Summary

The process of installing and converting to Time Investment is accomplished in two main phases. The first phase involves *downloading the product media (product tape or CD)*. For the procedure to do this, see the *Installation Guide* which contains the following information (MVS):

- Instructions for installing the Time Investment product media
- Instructions for compiling the system
- Disk space requirements
- Necessary updates to the CICS/VS tables
- JCL requirements

Once you have downloaded the product media by completing the instructions outlined in the *Installation Guide*, you are ready to begin the second phase by installing the product. The steps for compiling the system and loading all the required MICM parameters can be found in the *Installation Guide*.

Proceed to the Migration or Conversion chapters, as applicable.

Installation Processing

The following list includes the steps necessary to complete the second phase of the installation/conversion process for Infopoint Time Investment.

Step 1

Read the related documentation.

Refer to the Introduction chapter for a list of the documentation for Infopoint Time Investment, MICM, and Runtime Components.

Step 2

Convert MICM.

Refer to the Conversion chapter in the Infopoint MICM *Operations Guide* for details on this conversion.

Step 3

Install Infopoint Runtime Components.

Step 4

Catalog all source library copybooks to the source statement library.

Include those modules with 'A', 'P', 'S', or 'W' in the third position of the member name, excluding TIP700.

Step 5

Compile and catalog certain routines.

Compile the following relocatable programs and catalog the generated object code to the relocatable library.

- TIBAPI – Batch API access routine.
- TIB201 – Service charge user routine example.
- TIICKPT – I/O routine for TICKPT.
- TIICPI – I/O routine for TICAPT.
- TIICPL – Load I/O routine for TICAPT.
- TIIRPTO – I/O routine for TIRPTO.
- TIITEMP – I/O routine for TITEMP.
- All called report programs (modules with a 'G' in the third position of the name).

Step 6

Compile the online modules (all 'L' programs).

Compile these programs to the Core Image Library. The 'L' is in the third position of the name. Use 'NOOPT' in the CBL card.

Step 7

Delete Time Investment entries from the MICM Table File.

If you are migrating from a previous release of Time Investment (8.1 or less), use member MITTID as input for MICM forms specific to Time Investment. MICM program MIR061 is used to delete the old versions of MICM records 3500, 3501, 3502, 3503, 3504, 3505, 3507, and 3508.

Step 8**Delete MICM records.**

If you are migrating from a previous release of Time Investment (8.1 or less), run MICM jobs MID090, MID100, and MID200 in sequence using the following members as input:

- TIDELABO (Deletes MICM Record 0404)
- TIDELERR (Deletes MICM Record 0006)
- TIDELOPR (Deletes MICM Record 0405)
- TIDELPOT (Deletes MICM Record 0407)

If you are migrating from release 8.2 or higher, run MICM jobs MID090, MID100, and MIDR00 in sequence, using the following members as input:

- TITRND (deletes MICM records 4002 and 4004)
- TIMSGD (deletes MICM Record 0006)

Be sure to close the MIMAST File.

Step 9**Run MICM jobs MID090, MID100, and MID200 sequentially.**

Use members TIMSG and TITRN as input. TIMSG contains:

- MICM Form 0006 – Error Message Information
- MICM Form 0404 – Online Abort Messages
- MICM Form 2011 – Online Messages

TITRN contains:

- MICM Form 4000 – Work Unit Description
- MICM Form 4002 – Transaction Description
- MICM Form 4004 – Menu Dialogue

Note: If you will be using the sample Time Investment files delivered on the distribution tape, you must include member TIMICM. This member contains the card input for the MICM records necessary to process the sample Time Investment files.

Be sure to close the MIMAST File.

Step 10**Establish Operator records.**

Use either the MICM online transaction MIOPER (Operator Record) or the batch program MIR410 (Operator Record Update). Member TIOPER can be used as a sample of what is required for batch.

Step 11**Establish Operator Dialogue records.**

Use either the MICM online transaction MIDIALOG (Operator Dialogue) or the batch program MIR420 (Operator Dialogue Record Update). Member TIDIAL can be used as a sample of what is required for batch.

Step 12 **Compile the remaining programs.**
Compile the programs that contain a 'B', 'C', 'D', 'M', 'R', or 'Y' in the third position of their names and catalog the generated object code to the Core Image Library.

Step 13 **Run MIR700 using the members TIAMTC and MIATI as input.**
Be sure to include all other input to the Application Management Table (e.g., MIAMTC) because this program adds Time Investment AMT entries to the table. Be sure to close the MIAMTT File.

Step 14 **Determine volumes for the various files and establish JCL for each program.**
Information on files for each program is found in *Reference Guide 2*.

Step 15 **Establish the common MICM forms required to convert to Time Investment.**
See the Common MICM Forms section in this chapter to identify the MICM forms needed. MICM Record 0006 (Error Message Information) and MICM Record 4002 (Transaction Description) can be omitted from this step since they were created in Step 10.
Note: If you currently have Infopoint Time Investment, you have already established the necessary MICM forms and can omit this entire step.

Step 16 **Establish the Time Investment-specific MICM forms required to convert to Time Investment.**
Note: If you currently have Infopoint Time Investment, you have already established the necessary Time Investment forms and can omit this step.
See the MICM Forms Specific to Time Investment section in this chapter to identify the Time Investment forms needed.

Step 17 **Proceed to the Conversion or Migration chapter.**
For new users of Time Investment, see the Conversion chapter in this guide for converting your data to Infopoint Time Investment.
For current users of Infopoint Time Investment, see the Migration chapter in this guide for migrating your existing Infopoint Time Investment data to a more recent release.

Processing Parameters

The section provides an overview of Master Information and Control Manager (MICM) and Time Investment parameters that must be set up *prior* to the conversion and daily operation of Time Investment.

Common MICM Forms

A facet of conversion is to establish or define parameters and options in Time Investment. To accomplish this, certain MICM forms must be completed. This section lists those forms and provides brief narratives.

Detailed field descriptions and parameters along with the actual forms are found in two sources of documentation:

- MICM *Procedures Guide* (Batch Forms chapter). This chapter contains common MICM forms used by more than one application.
- Time Investment *Procedures Guide 2* (MICM Batch Forms chapter). This chapter contains MICM forms specific to Time Investment.

The following forms are found in the Batch Forms chapter of the MICM *Procedures Guide*:

Form 0000	Form 0021	Form 0301	Form 2000	Form 2013
Form 0002	Form 0211	Form 0307	Form 2001	Form 2015
Form 0003	Form 0231	Form 0316	Form 2005	Form 4000
Form 0006	Form 0234	Form 0323	Form 2010	Form 4002
Form 0020	Form 0245	Form 0404	Form 2011	Form 4004

Form 0000

Institution Information

Institution information must be entered for the System Institution (Institution 000) and each actual institution to be processed.

Note: If you have already established this form for another Infopoint product, you do not need to create it again.

This record contains the name, address, and holidays for each institution to be processed. Put the holidays common to all institutions in the system record (Institution 000). The holding company number must be established here, if appropriate. The name of the holding company is established on the holding company information Form 0020.

Form 0002

Type Information

There must be one form for each type product within an institution.

Form 0003

Code Description

This form is for code identification and its description. It is a multi-purpose form whose key and key descriptions may vary. This form is used to input messages for the pre-renewal and renewal notices.

Form 0006

Error Message Information

This form creates the error messages used by most TriSyn Group system applications. The member TMSG contains the error messages for Time Investment in batch input format.

Form 0020

Holding Company Information

This form establishes the name and address of a holding company. The institutions related to this holding company are assigned on the institution information form.

Form 0021

Region Information

This form establishes the name and address of an institution's regions. The branches related to this region are assigned on the branch information form.

Form 0211

Application Information

This form establishes the application parameters necessary for Time Investment processing. The internal application must be '08' for Time Investment. One form must be set up for each institution being processed.

Form 0231

Application Edit Table

If completed, this table is used to edit codes such as officer and class.

Form 0234

Federal Withholding Information

This form establishes the parameters necessary for federal withholding processing. One should be set up for each institution being processed.

Form 0245

General Ledger Interface

This form defines the General Ledger accounts to which totals from Time Investment are processed. Refer to *Procedures Guide 1* for additional information.

Form 0301

Application System Option Flags

Refer to *Procedures Guide 1* for an explanation of the system options. The application number for Time Investment is '08'.

Form 0307

Application System Report Flags

Refer to **Procedures Guide 1** for an explanation of the system report flags and a list of daily accounting reports and their report numbers. The statements (reports) are also set up on this form. Monthly reports also should be selected at this time. All report records should be set up.

Form 0316

Source Code Description

This form defines descriptions that appear on statements. A monetary transaction entered with a source code causes the appropriate description to appear on the statement.

Form 0323

Deposits Fund Sweeping Institution Information

This form identifies the originating institutions information used to create the ACH Batch Header, and Batch Control records, as well as the trace number in the Entry Detail record. One form per institution.

Note: This form is also used by Deposits.

Form 0404

Online Abort Messages

This form contains the abort messages to be displayed when an error occurs that prevents further processing of an online transaction. The member TIMSG contains the online abort messages.

Form 2000

Advertising Messages

This form may be used if you would like an advertising message to appear on the statements.

Form 2001

Branch Information

Branch information must be input for each branch within the organization to establish the branch number and name and address. This form also establishes the pricing and reporting region number, if appropriate. The name of the reporting region is established on the region information Form 0021. If you do not have branches, set up Branch 0001 and specify it for each account.

Form 2010

Record Security

Record security parameters allow fields to be defined as unprotected, dark protected, inquiry only, or updated. This form is not required.

Form 2005

Cycles Information

This form defines both the statement cycles and the service charge cycles. This is used when the Statement Frequency Code is 'C' or the Service Charge Frequency Code is 'C' for cycle. If you are not using cycle processing, this record still must be filled out with blanks.

Form 2011

Online Messages

This form contains online messages to be displayed when errors or special situations occur. The member TIMSG contains the online messages.

Form 2013

Transaction Code Parameters

This form should be filled out for each external transaction code you have. To do this, enter application '08' and the transaction code you wish to describe. It should also be filled out for the system-generated transaction codes. To do this, enter application '98' and the internally generated transaction code. Refer to Transaction Code Processing in *Procedures Guide 1* for a list of the transaction codes within Time Investment.

Form 2015

Index Rate Record

Index rates for the institution may be defined on this form. Accounts with an interest plan value of 'P' may be tied to this form in order to assign a rate to the account.

Form 4000

Work Unit Description

This form is used to define a work unit, which is a series of panels logically grouped together as an individual online transaction. The member TITRN contains the MICM 4000 Records.

Form 4002

Transaction Description

This form defines each panel, work unit, and menu available online. It also contains the entry used to build the menu. The member TITRN contains the MICM 4002 Records.

Form 4004

Menu Dialogue

This form is used to create personalized menus and submenus. The member TITRN contains the MICM 4004 Record that creates the submenu TIME for all of the Time Investment transactions.

MICM Forms Specific to Time Investment

The following MICM forms are specific to Time Investment. They can be found in the MICM Batch Forms chapter of *Procedures Guide 2*.

Form 3500	Form 3503	Form 3506
Form 3501	Form 3504	Form 3507
Form 3502	Form 3505	Form 3508

Form 3500

Time Investment Institution Parameters

This form establishes the set of parameters needed to control the processing of Time Investment for each institution.

Form 3501

Time Investment Type Defaults

This form defines the default values used in Time Investment for each account type designated by the user for Certificates of Deposit, Savings Accounts, and Time Deposit Open Accounts.

Form 3502

Time Investment Type Processing Parameters

This form establishes a set of parameters for each product type that determines minimum balances to accrue and pay interest with. Also included are other miscellaneous system options for ease of processing.

Form 3503

Time Investment Penalty Routines

This form establishes a set of penalty routine parameters used by Time Investment. Up to 30 parameters may be established for each institution.

Form 3504

Time Investment Interest Rate Tables

Various rate tables may be defined on this form. The account's Interest Plan determines how the rate is assigned.

Form 3505

Time Investment Renewal Defaults

This form indicates the type to which a renewing account renews. It also defines the fields from Form 3501 to which the account defaults.

Form 3506

Time Investment Title

This form contains the different report heading titles selected by the user for the applications contained within Time Investment.

Form 3507

Time Investment Service Charge Parameters

This form establishes a set of service charge parameters used by Time Investment. A maximum of 30 parameters may be established for each institution.

Form 3508

Time Investment Monthly Report Parameters

This form establishes a set of parameters used for creating summary control breaks for monthly statistical reporting purposes by specifying various amount ranges or time period ranges.

Time Investment Forms

Once you have established certain MICM parameters, you are required to set up specific Time Investment forms. This section lists those forms and provides brief narratives.

Detailed field descriptions and parameters and the actual forms are found in two sources of documentation:

- The Application Forms chapter of *Procedures Guide 1*. This chapter contains Time Investment forms used in daily processing but also used in conversion.
- The Conversion chapter of this guide. This chapter contains Time Investment forms used only for conversion. *The forms shown below with an asterisk (*) are used solely for conversion.*

Form 15 *	Form 20 *	Form 31
Form 16	Form 25	Form 32
Form 17	Form 30	Form 33

Form 15

Customer Control Input

This form establishes information that controls the processing of Time Investment customers. A customer record is required by the system for each customer that has Time Investment instruments with the institution.

Form 15 *

Customer Control Conversion

This form is used for conversion of the customer control information. This includes the previous years history for IRAs and Keoghs including contributions and distributions.

Form 16

Customer Payout History

This form may be used if you have customer distribution payout history that could be converted for history consideration.

Form 17

Employer Record New or Maintenance

This form establishes information to create a Time Investment Employer File. The Employer File is not required by the system, but is an option that allows you to tie several accounts together under the same Keogh or SEP plan.

Form 20

Master Record New or Maintenance

This form establishes information that controls the processing of the Time Investment instruments, Certificates of Deposit, Savings Accounts, and Time Deposit Open Accounts. This form contains all of the processing options for these account designations.

Form 20 *

Master Conversion Input

This form is used for conversion of the master accounts to Time Investment. This includes the monetary balances, processing information, and history of float, interest, average balances, service charges, and statements.

Form 20 *

Transaction Conversion

This form may be used if you have transaction history on the master accounts that you would like to convert. This is information from your old accumulated transaction file for your Time Investment instruments. You need to consider the implications of converting the accumulated transactions from the old system.

Form 25

Assignment

This form may be used if you have assignments/cautions on the system that you are converting from and want to transfer them over to Time Investment.

Form 30

Statement Copies

This form may be used if you want to establish a statement relationship among accounts. It allows you to send a copy of a statement to a maximum of 16 addresses.

Form 31

Interest Payment History

This form may be used if you have interest payment history information on the system that you are converting from and want to transfer it over to Time Investment.

Form 32

Rate Change History

This form may be used if you have rate change history on the system you are converting and want to transfer it over to Time Investment.

Form 35

TDOA Availability

This form may be used if you have TDOA Availability information on the system that you are converting from and want to transfer it over to Time Investment.

Reporting Requirements

Review the sample reports and determine which reports to print and the sort sequences for these reports. These options are established through parameters on MICM Record 0307 (Application System Report Flags). You can turn off any reports you do not need.

The Reports chapter of *Procedures Guide 2* gives you a detailed explanation of each report produced by Time Investment.

Preparation for the output of reports involves an analysis of your institution's need for each available report. You must also decide the specific details of actual report printing.

All reports provided by the system should be reviewed to decide:

- Who should review daily activity?
- How often should request reports be generated?
- Which reports are not necessary for your operation?

Make decisions jointly with all parties involved. Be sure your decisions meet all setup/conversion, daily operation, and management needs.

Other decisions you need to make are:

- Will the report be printed, or will it be put out to microfiche?
- If the report is printed, what form will be used?

You may need to design and order the forms for printing statements and envelopes for the statements.

MICM Security

Maintaining institution parameters and designating the appropriate user security is critical to the ongoing operation of the system. Carefully consider who is responsible for these issues and to what extent that person distributes the various levels of security.

When you process this system online, decide who has access and what functions they are allowed to perform. This information is entered on:

- Operator Record (MIOPER)
- Operator Dialog (MIDIALOG)
- Transaction Descriptions Record 4002

These records control system-wide security, not just individual institutions. These security control records allow operators to perform only those functions that have been established for them.

Additionally, MICM Record 2010 (Record Security) can be established to provide field-level security. Unique attributes can be set for dormant, escheat, employee, and regular accounts. This security feature is also available at the field level. Field-level security is completely optional.

Ready for Conversion Processing

At this point, all MICM and Time Investment conversion forms are set up. After supplying this conversion information to the data center, you need to coordinate the conversion job steps with the data center and review all output from these job steps. (The steps for conversion processing are described in the Conversion chapter.) This ensures that all accounts have been converted correctly and that the system is in balance with the system from which you are converting. After a determination is made that a clean and balanced conversion has occurred, you may begin daily processing with the Time Investment daily job stream. See the Batch Programs chapter of *Reference Guide 1* for daily program information.

Chapter

4

Conversion

This chapter describes the steps in preparing for conversion and actually converting from your existing application to Infopoint Time Investment. It also lists forms, programs, reports, and files specific to the conversion process.

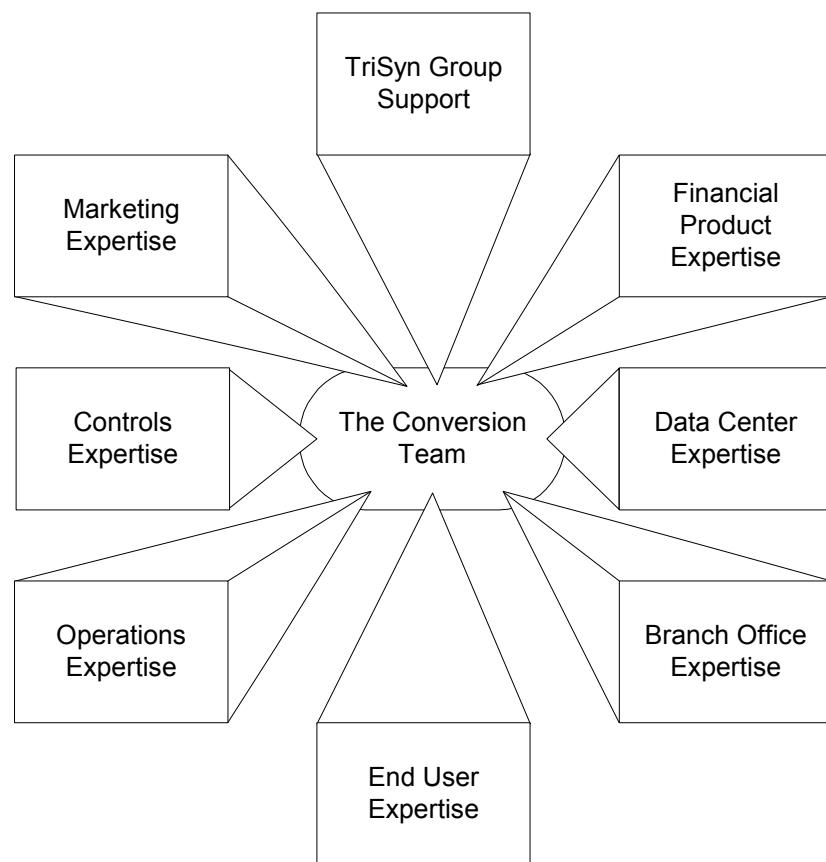
Note: If you are currently using Infopoint Time Investment and are upgrading to a more recent release, skip this chapter and proceed directly to the Migration chapter.

Preparation

The success of the conversion process depends on your organizational techniques and understanding of the system. This section discusses key issues in preparing for the conversion such as deciding the conversion team and creating a written conversion plan. This preparation allows you to keep on track with the requirements of a conversion and helps you to efficiently and quickly transfer or convert your data.

Assemble the Conversion Team

From the information supplied in this section, you should be able to select the best team members. The illustration below illustrates the expertise needed to perform a successful conversion.



TriSyn Group Support	<p>The Account Manager assigned to your installation is an important member of your conversion team. Use your account manager as a resource throughout the conversion for advice about your conversion plan.</p> <p>Select one or two team members to report any problems that they encounter to Technical Support.</p>
Financial Product Expertise	<p>Your team should have some financial expertise and know the products the institution offers and the departmental procedures for supporting these products. These members must possess a basic knowledge of the products such as rates and terms, and also realize how the products interface with each other.</p> <p>For example, certain checking accounts can qualify for a line of credit when there are insufficient funds. Knowledge of the dependency or relationship between the checking account and the line-of-credit account (and the departmental procedures regarding the relationship) is important information in the conversion effort.</p> <p>Some products rely on the information provided by other products. For example, a line-of-credit requires balance information from a checking account. When converting a product such as this, you must know how the calculations were made that determine when the credit is extended to the customer's account.</p> <p>Financial product team members also provide valuable knowledge of the auditing requirements that must be addressed during the conversion. This information is important because an audit trail must be maintained as data is moved from the old system to Time Investment 8.3.</p> <p>In addition, members who have financial product expertise also advise the team on policy matters such as when the customers and accounts will be converted and how the converted data will be tested.</p>
Data Center Expertise	<p>Data center personnel can analyze the current data and then compare it to the record elements in the database, especially when converting account histories. Because there is a large amount of data, thorough analysis must be completed before programming begins.</p> <p>After the analysis is complete, the data center team members must write the code that will transform the current data into a format that is usable by Time Investment 8.3. Depending on the amount and type of data that is loaded, this effort could be extensive. Therefore, your conversion team must know how the programs function and the current product specifications.</p> <p>For Time Investment, the programmer should know COBOL because the conversion programs are written in this language.</p>

Branch Office Expertise	If financial transactions are posted online in the branch offices before they are recorded in the main office, include branch office expertise on your team. Your team will need branch expertise when establishing the institution structure.
End User Expertise	Clerical workers who maintain the institution's data can assist in product design and influence what data is converted to Time Investment.
Operations Expertise	Operations personnel can advise you concerning proof-of-deposit operations. These team members can assess the impact of the conversion in relation to your institution's method of verifying deposits.
Controls Expertise	Include controls personnel on your team since they can provide important processing knowledge.
Marketing Expertise	Marketing provides vital market information that must be considered when products are designed. In addition, they advise the team about the marketing impact of the conversion.

Formulate the Conversion Plan

Every conversion plan contains certain components. This section describes the areas to include and explains some strategies to consider as you formulate your conversion plan.

Research

A usable plan is the result of thorough research. Become familiar with the current data elements maintained in the applications that the team is converting. This means the team must:

1. Determine the location of the data and assess the problems of gathering it in one place.

Decentralized data presents different problems than centralized data. For example, the decentralized data might contain duplicate information about customers and accounts. The data might also be in different formats and require standardization. Usually, the team needs to gather data from different media such as hard-copy files, diskettes, and mainframe files.
2. Identify how the data was obtained.

For example, the information maintained on a customer could have been gathered from various sources and then edited. The method used to gather the information is an important part of the plan.
3. Determine if the data is complete and accurate.

Obviously, your data must be examined for accuracy before you prepare it for the conversion dialogs and programs.
4. Verify the data definitions and the institutions use of particular data elements.

Identify Goals	<p>Identify the goals of the conversion team and the tasks associated with achieving each goal. The team that develops a plan should adopt a global view that addresses the general questions raised by a conversion. The answers to any general questions, in turn, help identify the tasks of the conversion. The following are some of the questions that the conversion team should initially address:</p>												
	<ul style="list-style-type: none"> ■ Which of the present applications are you converting to Time Investment 8.3? ■ What new information do you want to load (i.e., information not previously available)? ■ What information must you define in Time Investment 8.3 before any data is loaded? ■ Are you converting current applications at the same time or in stages? ■ How are you preparing the current data for loading? ■ Are all of the applications being loaded in single or multiple loads? ■ Does scrubbing occur before or after the data is converted? 												
	<p>The data center needs to confirm the information available from your current processing system before conversion.</p>												
	<p>Other possible goals in preparing for conversion are:</p>												
Typical Plan	<ul style="list-style-type: none"> ■ Make a list of all the transactions and transaction codes for each transaction processed in Time Investment 8.3. ■ List all possible requirements and options that Time Investment 8.3 offers. Adapt these requirements or options to the converting institution environment, including both the MICM Master File parameters and Time Investment parameters. ■ Establish dates and periodically distribute status reports to ensure that all tasks are on target. 												
	<p>Some common tasks associated with all conversion plans are:</p>												
	<table border="0"> <tr> <td data-bbox="494 1431 718 1463">Start Dates</td> <td data-bbox="780 1431 1057 1463">When each task begins.</td> </tr> <tr> <td data-bbox="494 1480 718 1512">Target Dates</td> <td data-bbox="780 1480 1292 1512">When the task is scheduled for completion.</td> </tr> <tr> <td data-bbox="494 1529 718 1560">Critical Dates</td> <td data-bbox="780 1529 1432 1628">Dates when the critical tasks must be completed. If the dates are not met, then the calendar for the project changes.</td> </tr> <tr> <td data-bbox="494 1645 718 1676">Actual Dates</td> <td data-bbox="780 1645 1318 1676">Dates when the tasks are actually completed.</td> </tr> <tr> <td data-bbox="494 1693 718 1757">Related Tasks and Activities</td> <td data-bbox="780 1693 1432 1793">A detailed explanation of all of the tasks and activities. This includes an explanation of the tasks that are to be completed by the conversion team.</td> </tr> <tr> <td data-bbox="494 1807 780 1839">Individuals Responsible</td> <td data-bbox="780 1807 1432 1839">Identify the persons who are responsible for each task.</td> </tr> </table>	Start Dates	When each task begins.	Target Dates	When the task is scheduled for completion.	Critical Dates	Dates when the critical tasks must be completed. If the dates are not met, then the calendar for the project changes.	Actual Dates	Dates when the tasks are actually completed.	Related Tasks and Activities	A detailed explanation of all of the tasks and activities. This includes an explanation of the tasks that are to be completed by the conversion team.	Individuals Responsible	Identify the persons who are responsible for each task.
Start Dates	When each task begins.												
Target Dates	When the task is scheduled for completion.												
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Actual Dates	Dates when the tasks are actually completed.												
Related Tasks and Activities	A detailed explanation of all of the tasks and activities. This includes an explanation of the tasks that are to be completed by the conversion team.												
Individuals Responsible	Identify the persons who are responsible for each task.												

Training Needed	Specify the education courses necessary to implement the plan. This is critical to the success of the project. (Your Account Manager can help you select the classes.)
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Create a Planning Document

Since a conversion plan contains many tasks and requires a number of different contributors, you should include all of the tasks of the conversion in a document that you then distribute to your conversion team.

The planning document serves as a central repository for information about the goals, tasks, scheduling, and progress of the project and can be used to communicate information to users about the impending conversion to Time Investment 8.3. A well-documented plan not only benefits the team but all personnel affected by the conversion.

Because each conversion team is unique, the method of documenting the team's conversion efforts is unique. The best format depends on the personnel you have assembled to perform the conversion. Although each project plan is unique, there are some common elements to all plans.

Installation Instructions	Installation instructions are included with the tape/CD shipment. The install utility program requires approximately two days to run. Refer to the <i>Installation Guide</i> provided on the Documentation CD for detailed information about installations. A TriSyn Group representative is always onsite for a first install.
Institution Structure	Include your institution structure in the plan before you convert any data. As previously stated, Time Investment gives you the flexibility to identify any entity within your organization as an institution. For example, you could identify a branch office or a department within the office as institutions. You can set up your institutions so that your reports yield information about select products or about profit centers.
Data to Convert	Record the location of the data that you intend to convert. This is particularly important for the programmers because they will be able to find the data quickly.
Conversion Team Goals	Present the overall aims of the project in a concise manner. For example, a goal could be to convert and test all loan products before year-end processing.

Team Members

Specify the name of team members and their role in the project. For example:

Team Member	Title	Conversion Role
Linda Jones	Project Leader	Coordinate the execution of conversion programs
Arthur Mack	Systems Analyst	Prepare current data
Sarah Getty	System Programmer	Monitor testing
Lee Smith	Marketing Manager	Advise the team about market needs

Task Information

Include information about the tasks assigned to each team member:

CONVERSION ACTIVITIES						PAGE 1
ID	STATUS	NAME	START	END	STAFF	DAYS
A1	Current	Identify Stop Cntl	1/1/92	1/31/92	Johnson	2
B1	Current	Identify Hold Cntl	1/1/92	1/31/92	Miller	2
C1	Current	Identify Stop Pro	2/1/92	2/28/92	Katz	1
D1	Current	Identify Hold Pro	2/1/92	2/28/92	Fulton	1
E1	Current	Identify Hold Tra	3/1/92	3/31/92	Rensky	3
F1	Current	Identify Stop Tra	3/1/92	3/31/92	Stephens	3
G1	Current	Identify Inst Info	3/1/92	3/31/92	Friedman	2
H1	Current	Identify Inst Pro	4/1/92	4/30/92	Smith	2
I1	Current	Identify Inst Tra	4/1/92	4/30/92	Burr	31
J1	Current	Identify Inst Test	4/1/92	4/30/92	Schultz	30

Meeting Schedule

Show the team meeting schedule. For example:

- The conversion team will meet every Friday at 9:00 A.M. in the main conference room.
- The team will discuss the status of the project and plans for the following week.
- An updated conversion plan will be distributed every Monday morning to the conversion team.

Listing of Terms

List all unique terms and definitions used in the document. For example:

Conversion Movement of current data to Time Investment 8.3.

Load Program COBOL program supplied by Computer Associates that converts input files containing current system data to records for Time Investment 8.3.

Hardware Requirements Specify the hardware that the conversion team needs, with the following possible headings.

Hardware	Dates Needed	Reason for Need
Mainframe	4/15 to 4/17	Load customers
High-speed printer	4/15 to 5/1	Print conversion reports

Location of Data

List the location of all data to be input or converted to Time Investment 8.3. Since the data can be found in several places, it is very important to note the locations. For example:

Type of Data	Location
Savings account histories	Customer service department file #1
Checking account histories	Customer service department file #2
Mortgage records	Mortgage department personal computer #4

System Definition

Before converting any data, you must identify institutions and products on Time Investment 8.3. Include an institution structure in this section. The illustration conveys to all team members the manner in which the organization has been redesigned for the new release.

Include in the system definition section the names of the products defined on the system. If you are renaming your products, be sure to list the old names of the products. For example:

Old Product Name	New Product Name
Savings Account	Customer Savings Plan #1
Line of Credit	Preferred Customer Credit

Conversion Program Information

Before you run the conversion programs, your data must be prepared in the input record format. The input record formats should be printed so the programmers know how to code the programs that prepare your data for conversion.

As with any conversion plan, your document should contain certain information about the conversion process:

- Flow chart or data-flow diagram
- List of the products to convert
- Sequence of the products conversion
- All conventions that are used in the data preparation programs
- Sample job streams
- Reports and notices that should be printed
- Testing that should be done to the programs

Note: The following sections in this chapter discuss the actual conversion process.

Testing and Acceptance

The accuracy of the data must be verified. If the data has been loaded incorrectly, establish procedures for correcting data exceptions and reloading the data.

Develop acceptance criteria. Specify when and how the converted data should be tested.

Switching to the New System

You must decide how long Time Investment 8.3 will run in test mode and in what manner transactions (under the old system) will be converted to Time Investment 8.3. In addition, list the criteria for comparing the systems to check the accuracy of the converted data.

Revising the Plan

Keep the plan up-to-date. Many individuals will be relying on the plan for current information, so you must update the plan regularly.

Conversion Processing

This section lists the processing steps for converting from your existing application to Infopoint Time Investment. It is assumed that basic installation requirements have been met and MICM and Time Investment parameters are already in place. (See the Installation Processing chapter.)

Process the following programs and information in the order listed.

Step 1

Write Time Investment conversion programs.

Build a Card Image File for conversion input. Use the following Time Investment forms.

Form 0015	Form 0020	Form 0031
Form 0016	Form 0025	Form 0032
Form 0017	Form 0030	Form 0035

Detailed field descriptions can be found in the Forms section of this chapter and the Application Forms chapter of *Procedures Guide 1*.

Once the card image Conversion Input File program is written and compiled, you are ready to proceed with running the Time Investment conversion job stream (shown in the following steps).

Step 2

Establish API Files (VSAM environment only)

Run TIVSMDEF to define and initialize the Time Investment VSAM API files or run TIVSMLD to define and initialize the Time Investment VSAM API files to allow for load processing. If this JCL is used to define the Time Investment files, you must specify VSAM access method (value 'V') on the control card for programs TIC100, TIC110, and TIC140.

Step 3

Run TIC020 (Institution Control File Conversion).

The card input required is described in the Programs section of this chapter. TIC020 should be run with the current processing date being the day before the conversion.

Step 4

Run TID020 (Institution Control File Update).

The current date after running this program must be the accrue-thru date for the interest accrual. The capture format code equals '0' (delete and define the TICAPT File).

Step 5

Run the program containing the Card Image Conversion Input File created in Step 1.

This program should contain all information extracted from the old system.

Step 6 **Run TIC040 (Transaction Conversion Edit and Sort).**
This program sorts and edits the converted transaction history. (See Form 20, Cards 75, 76, and 77 in the Forms section of this chapter.)

Step 7 **Run TIC060 (Conversion Sort).**
This program sorts the converted non-monetary input (all other forms).

Step 8 **Run TIC080 (Customer Conversion Input Edit).**
This program edits the customer control and the customer payout history (Forms 15 and 16).

Step 9 **Run TIC100 (Customer Conversion).**
This program creates the Customer Records (CST), the Payout History Records (PAY), and the IRA/Keogh Records (IRA).

Step 10 **Run TIC105 (Employer Conversion Input Edit).**
This program edits the employer input. (See Form 17 in the Application Forms chapter of *Procedures Guide 1*.)

Step 11 **Run TIC110 (Employer Records (EMP)).**
This program creates the Employer Conversion File.

Step 12 **Run TIC120 (Master Conversion Input Edit).**
This program edits all forms that were input, except Forms 15 and 16, which were edited in TIC080).

Step 13 **Run TIC140 (Master Conversion).**
This program creates the Master Records (MST), the Transaction Records (TRN, TRD), and the Availability Records (AVL).

Step 14 **Run TIC160 (Miscellaneous Conversion).**
This program creates the Statement Copies Records (XRL), the Interest Payment History Records (INT), and the Rate Change History Records (RAT).

Step 15 **Run TIC170 (Rate Aggregates).**
This program calculates rate aggregate fields on the Account Masters.

Step 16 **Run TIC190 (TDOA Deposit Verification).**
This program verifies balances on Time Deposit Open Accounts.

Step 17 **Run TIC200 (Total File Conversion).**
This program reads and sorts the Account Masters to create the Total Activity records (TA1 and TA2).

Step 18

If you are merging a new institution with existing institutions, use the JCL (TIC220L) provided.

This JCL is required to execute program BIS867B (Infopoint Runtime Merge Utility). BIS867B reloads a backup of the existing Time Investment records and a backup of the newly converted Time Investment records. This process creates the merged tables.

Note: In order to properly execute BIS867B, the files *must* be previously backed up with BIS860B.

Forms

See the Application Forms chapter of *Procedures Guide 1* for forms used in the daily processing of Time Investment. Use the following forms for *conversion processing only*.

Form 15 – Customer Control Conversion

Purpose This form, in conjunction with cards 00 – 04 on Form 15 (Customer Control Input), is used for conversion of the customer control information. This includes the customer control number, contribution and distribution information, payout and service charge dates, and date of death information.

You can enter a maximum of four cards each for cards 10, 11, 12, and 13, depending on the number of years you are converting.

Note: The documentation for references to Card 09 can be found in the Application Forms chapter of *Procedures Guide 1*.

Cards 10, 11, and 12 are for IRAs only.

Cards Required None

Header Portion of Each Card

1 – 2	System Number. Valid entry is 08 . <i>Numeric, 2 positions, required.</i>
3 – 5	Institution Number. Valid entries are 001 – 999 . <i>Numeric, 3 positions, required.</i>
6 – 15	Control Number. Used for IRA or Keogh customers being converted to the system. Leading blanks are permitted. <i>Numeric, 10 positions, required.</i>
16 – 21	Not used.
22 – 23	Form Number. Valid entry is 15 . <i>Numeric, 2 positions, required.</i>
24 – 25	Card Number. Valid entries are 10 – 14 . <i>Numeric, 2 positions, required.</i>

Card 10

26	Year Contribution. Year for this information. Valid entries are: <ul style="list-style-type: none">1 Current year.2 Previous year 1.3 Previous year 2.4 Previous year 3 or total of all years prior to year 2. <i>Numeric, 1 position, optional.</i> Reference: Card 09, field 030, 031, 032, and 033.
27 - 35	Maximum Contribution Amount. <i>Numeric, 9 positions, optional.</i> Default: \$2000.00 Reference: Card 09, field 030.
36 - 44	Rollover Amount. Total rollover contribution amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 031.
45 - 50	Rollover Date. Date of last rollover contribution. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 031.
51 - 59	Regular Amount. Total regular contribution amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 032.
60 - 65	Regular Date. Date of last regular contribution. Format is MMDDYY. If this date is not available, the conversion date may be used. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 032.
66 - 74	Employer Amount. Total employer contribution amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 033.
75 - 80	Employer Date. Date of last employer contribution. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 033.

Card 11

26	Year Contribution. Year for this information. Valid entries are: <ul style="list-style-type: none">1 Current year.2 Previous year 1.3 Previous year 2.4 Previous year 3 or total of all years prior to year 2. <i>Numeric, 1 position, optional.</i> Reference: Card 09, fields 034, 035, 046, 055, and 063.
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27 - 35	Insurance Amount. Total insurance contribution amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 034.
36 - 41	Insurance Date. Date of last insurance contribution. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 034.
42	Over Contribution Flag. Valid entries are: b Not over contributed. X Over contributed. <i>Alphanumeric, 1 position, optional.</i> Reference: Card 09, field 035.
43 - 49	Contributions After Year End. Total contributions made after year end. <i>Numeric, 7 positions, optional.</i> Reference: Card 09, field 046.
50 - 58	Transfer Amount. Total contributions transferred in from another financial institution. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 055.
59 - 64	Transfer Date. Date of the last transfer of funds from another financial institution. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 055.
65 - 75	Beginning Balance January 1. Total IRA balance for this customer as of January 1 of the current year. <i>Numeric, 11 positions, optional.</i> Reference: Card 09, field 063.
76 - 80	Not used.

Card 12

26	Year Contribution. Year for this information. Valid entries are: 1 Current year. 2 Previous year 1. 3 Previous year 2. 4 Previous year 3 or total of all years prior to year 2. <i>Numeric, 1 position, optional.</i> Reference: Card 09, fields 039, 056, 057, and 058.
27 - 35	Non-deductible Amount. Total non-deductible contribution amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 056.

36 - 41	Non-deductible Date. Date of the last non-deductible contribution. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 056.
42 - 50	Capital Gain Amount. Total capital gain amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 057.
51 - 56	Capital Gain Date. Date of the last capital gain entry. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 057.
57 - 65	Capital Loss Amount. Total capital loss amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 058.
66 - 71	Capital Loss Date. Date of the last capital loss entry. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 058.
72 - 77	Date of Last Withdrawal. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 039.
78 - 80	Not used.

Card 13

26	Year Withdrawals. Year for this information. Valid entries are: <ul style="list-style-type: none">1 Current year.2 Previous year 1.3 Previous year 2.4 Previous year 3 or total of all years prior to year 2. <i>Numeric, 1 position, optional.</i> Reference: Card 09, field 036.
27 - 35	Distributions Amount. Total regular distribution amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 036.
36 - 44	Rollover Amount. Total rollover distribution amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 037.
45 - 53	Non-deductible Amount. Total non-deductible withdrawal amount. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 060.

54 – 62	Excess Withdrawals Amount. Total amount of excess withdrawals made after year end. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 038.
63 – 71	Disbursement Withholding Amount. Total disbursement tax withheld. <i>Numeric, 9 positions, optional.</i>
72 – 80	Transfer Amount. Total amount of funds transferred to another financial institution. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 059.

Card 14

26 – 31	Last Service Charge Date. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 050.
32 – 37	Last Payment Date. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 025.
38 – 43	Last Maintenance Date. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 028.
44 – 49	Last Activity Date. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 027.
50 – 57	Date of Death. Format is MMDDYYYY. <i>Numeric, 8 positions, optional.</i> Reference: Card 09, field 026.
58	Date of Death Flag. Valid entries are: b Not deceased. X Deceased. <i>Alphanumeric, 1 position, optional.</i> Reference: Card 09, field 026.
59 – 67	Minimum Payout Last Year. Minimum distribution amount for last year. Valid entries are 0000000.00 – 9999999.99 . <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 065.

68 – 76	Minimum Payout This Year. Minimum distribution amount for this year. Based on Update Payout Amount, this amount is used to determine a new Payout Amount based on the Payout Frequency/Term. Valid entries are 0000000.00 – 9999999.99 . <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 066.
77 – 80	Not used.

Form 20 – Master Conversion Input

Purpose	This form, in conjunction with Cards 00 – 07 on Form 20 (Master Record New or Maintenance), is used for converting accounts from an old system to the Time Investment system. Specifically, monetary balances, processing information, and up to nine days of bank and customer float for each account are entered on this input form. Some fields are required. If information is not available for a particular field and the field is required, enter zeros for numeric and spaces for alphanumeric fields.
Cards Required	None

Header Portion of Each Card

1 – 2	System Number. Valid entry is 08 . <i>Numeric, 2 positions, required.</i>
3 – 5	Institution Number. Valid entries are 001 – 999 . <i>Numeric, 3 positions, required.</i>
6 – 15	Master account number of the account being converted to the system. Leading blanks are permitted. <i>Numeric, 10 positions, required.</i>
16 – 21	Not used.
22 – 23	Form Number. Valid entry is 20 . <i>Numeric, 2 positions, required.</i>
24 – 25	Card Number. Valid entries are 10 – 29 . <i>Numeric, 2 positions, required.</i>

Card 10

26 – 40	Aggregate Balance. Balance for the current month. Two decimal places are assumed. Leading blanks are permitted. <i>Numeric, 15 positions, required.</i> Reference: Card 09, field 069.
41 – 49	Average Balance 01. Average balance for the previous January, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.

50 - 58	Average Balance 02. Average balance for the previous February, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
59 - 67	Average Balance 03. Average balance for the previous March, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
68 - 76	Average Balance 04. Average balance for the previous April, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
77 - 80	Not used.

Card 11

26 - 34	Average Balance 05. Average balance for the previous May, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
35 - 43	Average Balance 06. Average balance for the previous June, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
44 - 52	Average Balance 07. Average balance for the previous July, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
53 - 61	Average Balance 08. Average balance for the previous August, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
62 - 70	Average Balance 09. Average balance for the previous September, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.
71 - 79	Average Balance 10. Average balance for the previous October, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 071.

80 Not used.

Card 12

26 - 34 Average Balance 11. Average balance for the previous November, in dollars only. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 071.

35 - 43 Average Balance 12. Average balance for the previous December, in dollars only. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 071.

44 - 56 Current Balance. Two decimal places are assumed. Leading blanks are permitted.
Numeric, 13 positions, required.

57 - 71 Aggregate Collected Balance. Aggregate collected balance for the current month. Two decimal places are assumed. Leading blanks are permitted.
Numeric, 15 positions, optional.
Reference: Card 09, field 070.

72 - 80 Average Collected 01. Average collected balance for the previous January, in dollars only. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 072.

Card 13

26 - 34 Average Collected 02. Average collected balance for the previous February, in dollars only. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 072.

35 - 43 Average Collected 03. Average collected balance for the previous March, in dollars only. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 072.

44 - 52 Average Collected 04. Average collected balance for the previous April, in dollars only. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 072.

53 - 61	Average Collected 05. Average collected balance for the previous May, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
62 - 70	Average Collected 06. Average collected balance for the previous June, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
71 - 79	Average Collected 07. Average collected balance for the previous July, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
80	Not used.

Card 14

26 - 34	Average Collected 08. Average collected balance for the previous August, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
35 - 43	Average Collected 09. Average collected balance for the previous September, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
44 - 52	Average Collected 10. Average collected balance for the previous October, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
53 - 61	Average Collected 11. Average collected balance for the previous November, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
62 - 70	Average Collected 12. Average collected balance for the previous December, in dollars only. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 072.
71 - 79	Original Interest Rate. Original interest rate at issue or last renewal date. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 101.

80 Not used.

Card 15

26 – 31 Date Overdrawn. Date this account became overdrawn. Format is MMDDYY.
Numeric, 6 positions, optional.
Reference: Card 09, field 073.

32 – 33 Times Overdrawn this Month. Number of times the account became overdrawn during the current month.
Numeric, 2 positions, optional.
Reference: Card 09, field 074.

34 – 57 Time Overdrawn by Month. Number of times the account became overdrawn during each month. The numbers above the field (01 – 12) on the form master corresponds with the months January through December.
Numeric, 2 positions (12 times), optional.
Reference: Card 09, field 076.

58 – 70 Statement ENP. Statement period interest earned. Amount of interest accrued for the current statement period.
Numeric, 13 positions, optional.

71 – 80 Not used.

Card 16

26 – 27 Days Overdrawn this Month. Number of days the account became overdrawn during the current month.
Numeric, 2 positions, optional.
Reference: Card 09, field 075.

28 – 51 Days Overdrawn by Month. Number of days the account became overdrawn during each month. The number above the field, (01 – 12) corresponds with the months January through December.
Numeric, 2 positions (12 times), optional.
Reference: Card 09, field 077.

52 – 57 Date Last Statement. Date the last statement was printed. Format is MMDDYY.
Numeric, 6 positions, required.
Reference: Card 09, field 078.

58 – 70 Statement Beginning Balance. Current balance as of the last cutoff statement in dollars and cents. If a passbook account, this represents the passbook balance. Leading blanks are permitted. Valid entry is zeros.
Numeric, 13 positions, required.

71 - 79	Service Charge Items. Number of items deposited to this account since the last service charge. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 120.
80	Not used.

Card 17

26 - 31	Date Last Service Charge. Date the last service charge was assessed. Format is MMDDYY. <i>Numeric, 6 positions, required.</i> Reference: Card 09, field 079.
32 - 38	Number of Service Charge Debits. Number of service chargeable debits processed since the last service charge date. <i>Numeric, 7 positions, optional.</i> Reference: Card 09, field 081.
39 - 42	Number of Service Charge Credits. Number of service chargeable credits processed since the last service charge date. <i>Numeric, 4 positions, optional.</i> Reference: Card 09, field 082.
43 - 51	Service Charge Low Balance. Low balance for the account during the current service charge period in whole dollars. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 083.
52 - 60	Service Charge Previous Low Balance. Low balance for the account during the previous service charge period in whole dollars. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 084.
61 - 73	Service Charge Aggregate Balance. Aggregate balance for the current service charge period. Two decimal places are assumed. Leading blanks are permitted. <i>Numeric, 13 positions, optional.</i> Reference: Card 09, field 085.
74 - 77	Service Charge Checks. Number of checks produced for this account since the last service charge. <i>Numeric, 4 positions, optional.</i> Reference: Card 09, field 119.
78 - 80	Not used.

Card 18

26 – 38 Service Charge Aggregate Collected Balance. Aggregate collected balance for the current service charge period. Two decimal places are assumed. Leading blanks are permitted.
Numeric, 13 positions, optional.
Reference: Card 09, field 086.

39 January Service Charge Code. Service charge disposition code for the month.
Valid entries are:
 A Charge.
 B Bill.
 C Charge another account.
 R Review.
 W Waive.
Alphanumeric, 1 position, optional.
Reference: Card 09, field 080.

40 – 46 January Service Charge Amount. Amount for the month.
Numeric, 7 positions optional.
Reference: Card 09, field 080.

47 February Service Charge Code. Service charge disposition code for the month.
Valid entries are:
 A Charge.
 B Bill.
 C Charge another account.
 R Review.
 W Waive.
Alphanumeric, 1 position, optional.
Reference: Card 09, field 080.

48 – 54 February Service Charge Amount. Service charge amount for the month.
Numeric, 7 positions optional.
Reference: Card 09, field 080.

55 March Service Charge Code. Service charge disposition code for the month.
Valid entries are:
 A Charge.
 B Bill.
 C Charge another account.
 R Review.
 W Waive.
Alphanumeric, 1 position, optional.
Reference: Card 09, field 080.

56 – 62 March Service Charge Amount. Service charge amount for the month.
Numeric, 7 positions optional.
Reference: Card 09, field 080.

63	April Service Charge Code. Service charge disposition code for the month. Valid entries are: A Charge. B Bill. C Charge another account. R Review. W Waive. <i>Alphanumeric, 1 position, optional.</i> Reference: Card 09, field 080.
64 - 70	April Service Charge Amount. Service charge amount for the month. <i>Numeric, 7 positions optional.</i> Reference: Card 09, field 080.
71	May Service Charge Code. Service charge disposition code for the month. Valid entries are: A Charge. B Bill. C Charge another account. R Review. W Waive. <i>Alphanumeric, 1 position, optional.</i> Reference: Card 09, field 080.
72 - 78	May Service Charge Amount. Service charge amount for the month. <i>Numeric, 7 positions optional.</i> Reference: Card 09, field 080.
79 - 80	Not used.

Card 19

26	June Service Charge Code. Service charge disposition code for the month. Valid entries are: A Charge. B Bill. C Charge another account. R Review. W Waive. <i>Alphanumeric, 1 position, optional.</i> Reference: Card 09, field 080.
27 - 33	June Service Charge Amount. Service charge amount for the month. <i>Numeric, 7 positions optional.</i> Reference: Card 09, field 080.

34 July Service Charge Code. Service charge disposition code for the month. Valid entries are:

- A** Charge.
- B** Bill.
- C** Charge another account.
- R** Review.
- W** Waive.

Alphanumeric, 1 position, optional.

Reference: Card 09, field 080.

35 - 41 July Service Charge Amount. Service charge amount for the month.

Numeric, 7 positions optional.

Reference: Card 09, field 080.

42 August Service Charge Code. Service charge disposition code for the month.

Valid entries are:

- A** Charge.
- B** Bill.
- C** Charge another account.
- R** Review.
- W** Waive.

Alphanumeric, 1 position, optional.

Reference: Card 09, field 080.

43 - 49 August Service Charge Amount. Service charge amount for the month.

Numeric, 7 positions optional.

Reference: Card 09, field 080.

50 September Service Charge Code. Service charge disposition code for the month.

Valid entries are:

- A** Charge.
- B** Bill.
- C** Charge another account.
- R** Review.
- W** Waive.

Alphanumeric, 1 position, optional.

Reference: Card 09, field 080.

51 - 57 September Service Charge Code. Service charge amount for the month.

Numeric, 7 positions optional.

Reference: Card 09, field 080.

58 October Service Charge Code. Service charge disposition code for the month.
Valid entries are:

- A** Charge.
- B** Bill.
- C** Charge another account.
- R** Review.
- W** Waive.

Alphanumeric, 1 position, optional.

Reference: Card 09, field 080.

59 – 65 October Service Charge Amount. Service charge amount for the month.
Numeric, 7 positions optional.
Reference: Card 09, field 080.

66 November Service Charge Code. Service charge disposition code for the month.
Valid entries are:

- A** Charge.
- B** Bill.
- C** Charge another account.
- R** Review.
- W** Waive.

Alphanumeric, 1 position, optional.

Reference: Card 09, field 080.

67 – 73 November Service Charge Amount. Service charge amount for the month.
Numeric, 7 positions optional.
Reference: Card 09, field 080.

74 – 80 Not used.

Card 20

26 December Service Charge Code. Service charge disposition code for the month.
Valid entries are:

- A** Charge.
- B** Bill.
- C** Charge another account.
- R** Review.
- W** Waive.

Alphanumeric, 1 position, optional.

Reference: Card 09, field 080.

27 – 33 December Service Charge Amount. Service charge amount for the month.
Numeric, 7 positions optional.
Reference: Card 09, field 080.

34 – 39	Last Renewal Date. Date the account was last renewed. Format is MMDDYY. If the account has not renewed, enter zeros. <i>Numeric, 6 positions, required.</i> Reference: Card 09, field 087.
40 – 45	First Renewal Date. Date the account was first renewed. Zeros may be valid for this field. Format is MMDDYY. <i>Numeric, 6 positions, required.</i> Reference: Card 09, field 088.
46 – 52	Available Interest. Amount of interest paid and capitalized on this account that has not been withdrawn. <i>Numeric, 7 positions, optional.</i>
53 – 63	Last Renewal Balance. The balance in the account as of the last renewal date. <i>Numeric, 11 positions, optional.</i>
64 – 69	Federal Tax B-Notice Date. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 141.
70 – 75	Federal Tax Expiration Date. Expiration date for a B-Notice received, awaiting TIN certification or non-resident alien exemption period. <i>Numeric, 6 positions, optional.</i>
76 – 80	Not used.

Card 21

26 – 34	Current OID Period Interest Paid. Amount of interest paid during the current renewal period or current maturity term for an OID Certificate of Deposit. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 089.
35 – 43	Current OID Period Interest Reported. Amount of interest reported for tax purposes during the current renewal period or current maturity term for an OID Certificate of Deposit. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 090.
44 – 50	Current OID Period Monthly Ratable Portion. Amount of interest to be reported for each month of the year for tax purposes for an OID Certificate of Deposit. <i>Numeric, 7 positions, optional.</i> Reference: Card 09, field 091.
51 – 59	Interest Paid to Date. Total amount of interest paid life to date on this account. <i>Numeric, 9 positions, optional.</i>

60 - 68	Interest Penalty Reduction. Interest penalty reduction amount for this account. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 145.
69 - 77	Interest 1099 Penalty. Amount of interest penalty accessed last year. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 100.
78 - 80	Not used.

Card 22

26 - 34	Previous OID Period Interest Paid. Amount of interest paid during the previous renewal period/term for an OID Certificate of Deposit. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 092.
35 - 43	Previous OID Period Interest Reported. Amount of interest reported for tax purposes during the previous renewal period/term for an OID Certificate of Deposit. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 093.
44 - 50	Previous OID Period Monthly Ratable Portion. Amount of interest to be reported for each month of the year for tax purposes for an OID Certificate of Deposit (previous renewal period). <i>Numeric, 7 positions, optional.</i> Reference: Card 09, field 094.
51 - 56	Previous OID Period Beginning Date. Beginning date for the previous renewal period. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 095.
57 - 62	Previous OID Period Ending Date. Ending date for the previous renewal period. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 096.
63 - 71	Federal Tax Withheld Year-to-date. For retirement accounts, amount of disbursement tax withheld year-to-date (Tran Code 925). For non-retirement accounts, amount of federal tax withheld year- to-date (Tran Code 920). <i>Numeric, 9 positions, optional.</i>
72 - 80	Federal Tax Withheld 1099. Amount of federal tax withheld and reported on the 1099 form. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 133.

Card 23

26 - 36 Interest Paid Year-to-date. Amount of interest paid year to date for the current year.
Numeric, 11 positions, required.

37 - 45 Interest Penalty Year-to-date. Amount of interest penalty assessed during the current year.
Numeric, 9 positions, optional.

46 - 58 Interest Earned not Paid. Amount of interest earned since the last interest payment date.
Numeric, 13 positions, required.

59 - 75 Aggregate Rate. Aggregate rate of interest for the current renewal period.
Numeric, 12 positions, optional.
Reference: Card 09, field 102.

76 - 80 Not used.

Card 24

26 - 36 Interest 1099. Amount of interest paid last year.
Numeric, 11 positions, optional.
Reference: Card 09, field 098.

37 - 45 Interest Paid. Amount of interest paid on the last interest payment date.
Numeric, 9 positions, optional.
Reference: Card 09, field 121.

46 - 58 Interest Compounding Amount. Amount of interest to be compounded on the next compounding date. Must be zeros if Compounding Frequency is 'N'.
Numeric, 13 positions, optional.
Reference: Card 09, field 103.

59 - 64 Last Rate Change Date. Format is MMDDYY.
Numeric, 6 positions, optional.

65 - 79 Interest Aggregate. Aggregate balance for the current interest period, used to calculate an average balance.
Numeric, 15 positions, required.

80 Not used.

Card 25

26 – 34 Customer Float Amount 1 Day. Amount total for 1-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 116.

35 – 41 Customer Float Amount 2 Day. Amount totals for 2 day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 7 positions, optional.
Reference: Card 09, field 116.

42 – 48 Customer Float Amount 3 Day. Amount totals for 3 day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 7 positions, optional.
Reference: Card 09, field 116.

49 – 55 Customer Float Amount 4 Day. Amount totals for 4 day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 7 positions, optional.
Reference: Card 09, field 116.

56 – 60 Customer Float Amount 5 Day. Amount totals for 5-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 116.

61 – 65 Customer Float Amount 6 Day. Amount totals for 6-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 116.

66 – 70 Customer Float Amount 7 day. Amount totals for 7-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 116.

71 – 75 Customer Float Amount 8 Day. Amount totals for 8-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 116.

76 – 80 Customer Float Amount 9 Day. Amount totals for 9-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 116.

Card 26

26 – 34 Bank Float Amount 1 Day. Amount total for 1-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 9 positions, optional.
Reference: Card 09, field 115.

35 – 41 Bank Float Amount 2 Day. Amount totals for 2-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 7 positions, optional.
Reference: Card 09, field 115.

42 – 48 Bank Float Amount 3 Day. Amount totals for 3-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 7 positions, optional.
Reference: Card 09, field 115.

49 – 55 Bank Float Amount 4 Day. Amount totals for 4-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 7 positions, optional.
Reference: Card 09, field 115.

56 – 60 Bank Float Amount 5 Day. Amount totals for 5-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 115.

61 – 65 Bank Float Amount 6 Day. Amount totals for 6-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 115.

66 – 70 Bank Float Amount 7 Day. Amount totals for 7-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 115.

71 – 75 Bank Float Amount 8 Day. Amount totals for 8-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 115.

76 – 80 Bank Float Amount 9 Day. Amount totals for 9-day float items as of the conversion date, in whole dollars. Leading blanks are permitted.
Numeric, 5 positions, optional.
Reference: Card 09, field 115.

Card 27

26 - 31	Dormant Date. Date this account became inactive or dormant. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 105.
32 - 37	Activity Date. Date of the last monetary transaction activity for this account. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 112.
38 - 43	Maintenance Date. Date of last maintenance to this account. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i>
44 - 49	Contact Date. Date of last customer contact for this account. This date is used for inactive or dormant processing. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 114.
50 - 55	Last Interest Date. Date of the last interest payment for this account. Format is MMDDYY. <i>Numeric, 6 positions, required.</i> Reference: Card 09, field 122.
56 - 68	Interest Cutoff Balance. The balance in the account as of the last interest payment. <i>Numeric, 13 positions, required.</i>
69	Account Status. Valid entries are: b Open and processing. C Closed. M Matured. P Purged. <i>Alphanumeric, 1 position, optional.</i>
	Note: Although M is valid, it is moved to the TIMST-MATURED field instead of the TIMST-MSTATUS field.
70 - 72	Accrued Days. Number of extra days the system must accrue in the first processing run after conversion to bring the account current. If converting from a 'Last Day' accrual system, type 001 . This makes the Accrue Through date one day less than the conversion date, causing the system to accrue one extra day in the first posting run after conversion. <i>Numeric, 3 positions, optional.</i>

73 - 79	Last Federal Tax Amount. Amount of federal tax withheld from the last interest payment. <i>Numeric, 7 positions, optional.</i> Reference: Card 09, field 134.
80	Not used.

Card 28

26 - 31	Social Security Frequency 1 Date. Date of the first request for a valid Tax ID number. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 147.
32 - 37	Social Security Frequency 2 Date. Date of the second request for a valid Tax ID number. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i> Reference: Card 09, field 148.
38 - 46	Mandatory Federal Tax Amount. Amount of federal tax that is withheld if an IRS withdrawal is made prior to the Federal Tax Expiration Date. Leading blanks are permitted. <i>Numeric, 9 positions, optional.</i> Reference: Card 09, field 149.
47 - 52	Federal Tax Status Change Date. Date the Federal Tax Exemption code was changed. Format is MMDDYY. <i>Numeric, 6 positions, required.</i> Reference: Card 09, field 150.
53 - 62	Previous Account Number. Account number of the account closed as part of the re-issue process. <i>Numeric, 10 positions, optional.</i>
63 - 72	New Account Number. Account number of the account closed as part of the re-issue process. Valid only for accounts re-issued using IREI. <i>Numeric, 10 positions, optional.</i> Reference: Card 09, field 126.
73 - 80	Not used.

Card 29

26 - 34	Renewal Rate. Rate used once an account's grace period expires. Valid entries are 000000000 - 999999999. <i>Numeric, 9 positions, optional.</i>
---------	--

35 Renewal Use Code. Indicates if this account is to renew into a new account type, and how the Renewal Effective Date, Renewal Type, and Renewal Interest Frequency/Term/Day/Disposition fields are to be used. Valid entries are:

- B** Use MICM Record 3501 defaults as they are at the time the TIRENEW takes affect for the interest and renewal fields. For the remaining fields, use the values entered in the New Term column.
- I** Use MICM Record 3501 defaults as they are at the time the TIRENEW takes affect for the interest frequency, term, day, and disposition. For the remaining fields, use the values entered in the New Term column.
- N** Do not initiate the renewal based on the information on TIRENEW.
- R** Use MICM Record 3501 defaults as they are at the time the TIRENEW takes affect for the renewal frequency, term, and day. For the remaining fields, use the values entered in the New Term column.
- X** Initiate the renewal based on the information on TIRENEW.

Alphanumeric, 1 position, optional.

36 - 41 Renewal Effective Date. Date to renew the account. Must be zeros if the Renewal Use Code is 'N'.

Numeric, 6 positions, optional.

42 - 44 Renewal New Type. New type assigned to the account. When the account renews, it picks up the new defaults, based on the Renewal Use Code. Valid entries are **000 - 999**.

Numeric, 3 positions, optional.

45 Renewal Interest Frequency. The Renewal Interest Frequency is moved to the Interest Frequency when the account renews and the Renewal Use Code is 'E'. Valid entries are:

- D** Days.
- M** Months.
- N** None.

Alphanumeric, 1 position, optional.

46 - 48 Renewal Interest Term. The Renewal Interest Term is moved to the Interest Term when the Renewal Use Code is 'E'. Valid entries are **001 - 999**.

Numeric, 3 positions, optional.

49 - 50 Renewal Interest Day. The Renewal Interest Day is moved to the Interest Day when the Renewal Use Code is 'E'. Valid entries are **00 - 31**.

Numeric, 2 positions, optional.

51 Renewal Interest Disposition. The Renewal Interest Disposition is moved to the Interest Disposition when the account renews and the Renewal Use Code is 'E'. Valid entries are:

- C** Capitalize the interest.
- P** Pay by check.
- T** Transfer to another account.

Alphanumeric, 1 position, optional.

52	Grace Flag. Indicates if an account is in its grace period. On the renewal date, the flag is set to Y, and remains at that setting until the end of the grace period, at which time it is set to N. A deposit or withdrawal forces the end of the grace period. Valid entries are: N Account is not in the grace period. Y Account is in the grace period. <i>Alphanumeric, 1 position, optional.</i>
53 – 65	Grace Interest Earned Not Paid. Amount of accrued interest at the beginning of the grace period. Valid entries are 00000000.00000 – 99999999.99999 . <i>Numeric, 13 positions, optional.</i> Required at conversion if account is in grace period.
66 – 78	Post-grace Compounding Amount. For simple interest accounts, accruals are done on the current balance plus the compounding amount. On the compounding date, the grace interest earned not paid is moved to this field. This allows the account to accrue at the 'post-grace' rate on the 'post-grace' interest the account has already accrued, but not yet paid. When interest is paid, this amount is reduced by the paid amount. <i>Numeric, 13 positions, optional.</i>
79 – 80	Not used.

Form 20 – Transaction Conversion

Purpose	This form is used for converting transaction history to Time Investment. Description fields are provided for transactions requiring additional information other than what was provided on MICM Record 2013 (Transaction Code Parameters).
Cards Required	75 and 76

Header Portion of Each Card

1 – 2	System Number. Valid entry is 08 . <i>Numeric, 2 positions, required.</i>
3 – 5	Institution Number. Valid entries are 001 – 999 . <i>Numeric, 3 positions, required.</i>
6 – 15	Account Number. Account for the transaction being converted. Leading blanks are permitted. <i>Numeric, 10 positions, required.</i>
16 – 21	Processing Date. Original date on which the transaction was processed. Format is MMDDYY. <i>Numeric, 6 positions, required.</i>
22 – 23	Form Number. Valid entry is 20 . <i>Numeric, 2 positions, required.</i>

Card 75

26 – 35	Serial Number or Rate. Serial number of the transaction being converted. Leading blanks are permitted. <i>Numeric, 10 positions, optional.</i>
36 – 39	External Transaction Code. Valid entries are 0001 – 9999 or 0000 for internally generated transactions <i>Numeric, 4 positions, required.</i>
40 – 50	Transaction Amount. Two decimal places are assumed. Leading blanks are permitted. <i>Numeric, 11 positions, required.</i>
51 – 56	Effective Date. Format is MMDDYY. <i>Numeric, 6 positions, required.</i>

57 - 60	Internal Transaction Code. Valid entries are 0001 – 9999 . Internal transaction codes are defined in MICM Record 0326. <i>Numeric, 4 positions, required.</i>
61	Debit/Credit Code. Valid entries are: <ul style="list-style-type: none">0 Credit.1 Service chargeable credit.2 Debit reversal.3 Credit, for which float items are generated.4 Service chargeable credit, for which float items are generated.5 Debit reversal, for which float items are generated.6 Debit.7 Service chargeable debit.8 Credit reversal. <i>Numeric, 1 position, required.</i>
62 - 71	Sequence Number. Sequence assigned to the transaction. <i>Numeric, 10 positions, optional.</i>
72 - 80	Not used.

Card 76

26	Passbook Flag. For Passbook accounts only. Indicates whether this transaction has been booked or not. Valid entries are: <ul style="list-style-type: none">b Not booked.B Booked transaction. <i>Alphanumeric, 1 position, optional.</i>
27 - 31	Transaction Code Sequence Number. For TDOA only. The sequence number of the deposit against which the transaction was posted. <i>Numeric, 5 positions, optional.</i>
32 - 35	Source of Input. Transaction source of input. <i>Numeric, 4 positions, optional.</i>
36 - 39	Initiation Time. Time the transaction was initiated. Format is HHMM. <i>Numeric, 4 positions, optional.</i>
40 - 45	Initiation Date. Date the transaction was initiated. Format is MMDDYY. <i>Numeric, 6 positions, optional.</i>
46 - 80	Not used.

Card 77

26 - 55 Transaction Description 1. This is used for further description of a transaction, if needed.
Alphanumeric, 30 positions, optional.

56 - 80 Transaction Description 2. This is used for further description of a transaction, if needed.
Alphanumeric, 25 positions, optional.

Form Masters

This section provides a master set of the conversion batch forms used by Time Investment 8.3. The forms are:

- Form 15 – Customer Control Conversion
- Form 20 – Master Conversion Input
- Form 20 – Transaction Conversion

Time Investment Customer Control Conversion

Form 15
Page 1 of 1

SYSTEM
0 8
1 2

INSTITUTION
3 5

CONTROL NUMBER
6 15

FORM
1 5
22 23

YEAR CONTRIBUTIONS

YEAR	MAXIMUM	ROLLOVER	ROLLOVER DATE
26	27 35	36 44	45 50
REGULAR	REGULAR DATE	EMPLOYER	
51	59 65	66	74
EMPLOYER DATE			
75	80		

CARD
1 0
24 25

YEAR CONTRIBUTIONS

YEAR	INSURANCE	INSURANCE DATE	OVER CONT FLAG	CONTRIBUTIONS AFTER YEAR END
26	27 35	36 41	42	43 49
TRANSFER	TRANSFER DATE	BEGINNING BALANCE - JANUARY 1		
50	58 64	65		75

CARD
1 1
24 25

YEAR CONTRIBUTIONS

YEAR	NON-DEDUCTIBLE	NON-DEDUCTIBLE DATE	CAPITAL GAIN
26	27 35	36 41	42 50
GAIN DATE	CAPITAL LOSS	LOSS DATE	
51	56 65	66	71

DATE LAST WITHDRAWAL
72 77

CARD
1 2
24 25

YEAR WITHDRAWALS

YEAR	DISTRIBUTIONS	ROLLOVER	NON-DEDUCTIBLE
26	27 35	36 44	45 53
EXCESS WITHDRAWALS	DISBURSEMENT WITHHOLDING	TRANSFER	
54	62 63 71	72	80

CARD
1 3
24 25

LAST SERVICE CHARGE DATE 26 31	LAST PAYMENT DATE 32 37	LAST MAINTENANCE DATE 38 43	LAST ACTIVITY DATE 44 49
DATE OF DEATH 50 57	DOD 58	MINIMUM PAYOUT LAST YEAR 59 67	MINIMUM PAYOUT THIS YEAR 68 76

Time Investment Master Conversion Input

Form 20
Page 1 of 5

SYSTEM
0 8
1 2

INSTITUTION

3		5

ACCOUNT NUMBER

6														15

FORM
2 0
22 23

CARD
1 0
24 25

AGGREGATE BALANCE

															1			
26															40			

AVERAGE BALANCE 01

																		49
41																		49

AVERAGE BALANCE 02

																		58
50																		58

AVERAGE BALANCE 03

																		67
59																		67

AVERAGE BALANCE 04

																		76
68																		76

CARD
1 1
24 25

AVERAGE BALANCE 05

																		34
26																		34

AVERAGE BALANCE 06

																		43
35																		43

AVERAGE BALANCE 07

																		52
44																		52

AVERAGE BALANCE 08

																		61
53																		61

AVERAGE BALANCE 09

																		70
62																		70

AVERAGE BALANCE 10

																		79
71																		79

CARD
1 2
24 25

AVERAGE BALANCE 11

																		34
26																		34

AVERAGE BALANCE 12

																		43
35																		43

CURRENT BALANCE

																		56
44																		56

AGGREGATE COLLECTED BALANCE

																		71
57																		71

AVERAGE COLLECTED 01

																		80
72																		80

CARD
1 3
24 25

AVERAGE COLLECTED 02

																		34
26																		34

AVERAGE COLLECTED 03

																		43
35																		43

AVERAGE COLLECTED 04

																		52
44																		52

AVERAGE COLLECTED 05

																		61
53																		61

AVERAGE COLLECTED 06

																		70
62																		70

AVERAGE COLLECTED 07

																		79
71																		79

CARD
1 4
24 25

AVERAGE COLLECTED 08

																		34
26																		34

AVERAGE COLLECTED 09

																		43
35																		43

AVERAGE COLLECTED 10

																		52
44																		52

AVERAGE COLLECTED 11

																		61
53																		61

AVERAGE COLLECTED 12

																		70
62																		70

ORIGINAL RATE

																		79
71																		79

Time Investment Master Conversion Input

Form 20
Page 2 of 5

SYSTEM
0 8
1 2

INSTITUTION
3 5
6

ACCOUNT NUMBER
15

FORM
2 0
22 23

CARD
1 5
24 25

OVERDRAFT DATE
26 31

TIMES OVERDRAFT
THIS MONTH
32 33

TIMES OVERDRAFT BY MONTH
01 02 03 04 05 06 07 08 09 10 11 12
34 57

STATEMENT ENP
58 70

CARD
1 6
24 25

DAYS OVERDRAFT
THIS MONTH
26 27

DAYS OVERDRAFT BY MONTH
01 02 03 04 05 06 07 08 09 10 11 12
28 51

DATE LAST STATEMENT
52 57

STATEMENT BEGINNING BALANCE
58 70

SERVICE CHARGE ITEMS
71 79

CARD
1 7
24 25

DATE LAST SERVICE CHARGE
26 31

NUMBER OF
SERVICE CHARGE DEBITS
32 38

NUMBER OF
SERVICE CHARGE CREDITS
39 42

SERVICE CHARGE LOW BALANCE
43 51

SERVICE CHARGE PREVIOUS LOW BALANCE
52 60

SERVICE CHARGE AGGREGATE BALANCE
61 73

SERVICE CHARGE CHECKS
74 77

CARD
1 8
24 25

SERVICE CHARGE AGGREGATE COLLECTED
26 38

SERVICE CHARGE CODE AND AMOUNT BY MONTH

JANUARY		FEBRUARY		MARCH	
CODE	AMOUNT	CODE	AMOUNT	CODE	AMOUNT
39	40 46	47	48 54	55	56 62
APRIL		MAY			
63	64 70	71	72 78		

Time Investment Master Conversion Input

Form 20
Page 3 of 5

SYSTEM
0 8

INSTITUTION			ACCOUNT NUMBER							
3	5	6								15

FORM
2 **0**
22 23

22 23

CARD

1	9
---	---

24 25

SERVICE CHARGE CODE AND AMOUNT BY MONTH					
JUNE			JULY		
CODE	AMOUNT		CODE	AMOUNT	
26	27	33	34	35	41
42	43	49			
SEPTEMBER			OCTOBER		
CODE	AMOUNT		CODE	AMOUNT	
50	51	57	58	59	65
66	67	73			

CARD

2	0
---	---

24 25

SERVICE CHARGE CODE AND AMOUNT BY MONTH									
DECEMBER									
CODE	AMOUNT								
26	27	28	29	30	31	32	33	34	35
LAST RENEWAL DATE									
34	35	36	37	38	39	40	41	42	43
FIRST RENEWAL DATE									
40	41	42	43	44	45	46	47	48	49
AVAILABLE INTEREST									
46	47	48	49	50	51	52	53	54	55
LAST RENEWAL BALANCE									
56	57	58	59	60	61	62	63	64	65
FEDERAL TAX									
B-NOTICE DATE									
66	67	68	69	70	71	72	73	74	75
EXPIRATION DATE									
76	77	78	79	80	81	82	83	84	85

CARD
2 1

CURRENT OID PERIOD											
INTEREST PAID				INTEREST REPORTED				MONTHLY RATABLE PORTION			
26			34			35			43		
INTEREST PAID TO DATE				INTEREST PENALTY REDUCTION				INTEREST 1099 PENALTY			
51			59			60			68		
7						7					

CARD

2	2
---	---

24 25

The diagram illustrates the structure of a previous OID period, divided into four main sections:

- INTEREST PAID:** A sequence of 10 boxes, with the 11th box being a vertical bar. It spans from offset 26 to 34.
- INTEREST REPORTED:** A sequence of 10 boxes, with the 11th box being a vertical bar. It spans from offset 35 to 43.
- MONTHLY RATEABLE PORTION:** A sequence of 10 boxes, with the 11th box being a vertical bar. It spans from offset 44 to 50.
- BEGINNING DATE:** A sequence of 6 boxes, with the 7th box being a vertical bar. It spans from offset 51 to 56.
- ENDING DATE:** A sequence of 6 boxes, with the 7th box being a vertical bar. It spans from offset 57 to 62.

A horizontal line labeled "PREVIOUS OID PERIOD" connects the beginning of the INTEREST PAID section to the beginning of the ENDING DATE section.

CARD
2 **3**
24 25

INTEREST PAID YEAR-TO-DATE	36	INTEREST PENALTY YEAR-TO-DATE	45
26		37	45
INTEREST EARNED NOT PAID	58	AGGREGATE RATE	75
46		59	75

Time Investment Master Conversion Input

Form 20
Page 4 of 5

SYSTEM		INSTITUTION			ACCOUNT NUMBER							
0	8											
1	2	3	5	6	15							

FORM

2	0
---	---

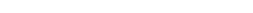
22 23

CARD	INTEREST 1099										INTEREST PAID												
2	4																						
24	25																						
26											36												
INTEREST COMPOUNDING AMOUNT										LATE RATE CHANGE DATE													
46											58											64	
INTEREST AGGREGATE																							
65											79												

CUSTOMER FLOAT AMOUNT

1 DAY	2 DAY	3 DAY	4 DAY	
26	35	42	49	
34	41	48	55	
5 DAY	6 DAY	7 DAY	8 DAY	9 DAY
56	61	66	71	76
60	65	70	75	80

BANK FLOAT AMOUNT

1 DAY	2 DAY	3 DAY	4 DAY	
				
26	34	41	48	
			55	
5 DAY	6 DAY	7 DAY	8 DAY	9 DAY
				
56	60	65	70	75
	61	66	71	76
				80

CARD	DORMANT DATE	ACTIVITY DATE	MAINTENANCE DATE	CONTACT DATE
27	26  27	32  33	38  39	44  45
24 25	26  27	32  33	38  39	44  45

LAST FEDERAL TAX AMOUNT

FEDERAL TAX
STATUS CHANGE DATE

Time Investment Master Conversion Input

Form 20
Page 5 of 5

SYSTEM
0 8
1 2

INSTITUTION

--	--	--

 3 5

FORM
2 0
22 23

CARD

2	9
---	---

24 25

RENEWAL

RATE

USE CODE

EFFECTIVE DATE

NEW TYPE

INTEREST DEFUALTS

FREQ

TERM

DAY

DISP

GRACE FLAG

GRACE INTEREST EARNED NOT PAID

GRACE COMPOUNDING AMOUNT

66 67 68 69 70 71 72 73 74 75 76 77 78

26 27 28 29 30 31 32 33 34

35

36 37 38 39 40 41

42 43 44

45 46 47 48

49 50

51

52

53 54 55 56 57 58 59 60 61 62 63 64 65

CARD

3	0
---	---

24 25

RENEWAL																	
FREQ	TERM			DAY		INTEREST APPL		INTEREST ACCOUNT									
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43

Programs

These programs establish processing parameters when converting to the Time Investment 8.3 application. They are run only during the conversion process.

TIC020 – Institution Control File Conversion

Purpose	This program edits the Institution Control Card Image, which is used to create the Institution Control File. After running TIC020, you should back up the newly created Institution Control File.		
	<p>Note: If you need to rerun this job, you may first need to delete records. Check the output (report 08-901) for card acceptance and date verification.</p>		

API MICM Records

Record	Ext Record	Name	Description
Code			
1001	M74	MI1001-RECORD	Institution Information Record
1300	M79	MI1300-RECORD	Error Message Information Record

API Application Records

Ext Record	Name	Description
Code		
BNK	TIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDB	Institution Control Card Image File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-901 – Institution Control File Conversion

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08.

Columns	Size	Description
03 – 05	3	Institution number.
06 – 21	16	Not used.
22 – 23	2	Form number. Valid entries are 00 – 04 .
24 – 25	2	Card number. Valid entry is 00 .
26 – 31	6	Current date.
32 – 37	6	Last process date.
38 – 43	6	Next scheduled processing date.
44 – 49	6	Next actual processing date.
50 – 56	7	Process week 1 – 7. Valid entries are: b Open and processing. C Closed, no processing.
57 – 57	1	Process option code. Valid entry is B .
58 – 58	1	Line per inch. Valid entries are: 6 Six lines per inch. 8 Eight lines per inch.
59 – 59	1	Selective processing. Valid entries are: b Process all institutions. Y Process selectively.
60 – 60	1	Print/Fiche code. Valid entries are: 1 Print only. 2 Print and fiche. 3 Fiche only.
61 – 80	20	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	ADD failed on BNK.
0002	CLOSE failed on BNK.
0003	CLOSE failed on MIMAST.

TIC040 – Transaction Conversion Edit and Sort

Purpose	<p>This program reads and sorts the Conversion Transaction File and edits each transaction to ensure that all fields contain valid data. The input to TIC040 contains only conversion transactions. The Conversion Transaction Input File can be from card, tape, or disk. The edited transactions are written to the Edited Conversion File. This output can be tape or disk.</p> <p>A control card is necessary to indicate which media should be used for input and output.</p>																																														
API MICM Records	<table border="1"> <thead> <tr> <th>Record</th><th>Ext Record Code</th><th>Name</th><th>Description</th></tr> </thead> <tbody> <tr> <td>1001</td><td>M74</td><td>MI1001-RECORD</td><td>Institution Information Record</td></tr> <tr> <td>1300</td><td>M79</td><td>MI1300-RECORD</td><td>Error Message Information Record</td></tr> <tr> <td>2013</td><td>M13</td><td>MI2013-RECORD</td><td>Transaction Code Parameters Record</td></tr> </tbody> </table>					Record	Ext Record Code	Name	Description	1001	M74	MI1001-RECORD	Institution Information Record	1300	M79	MI1300-RECORD	Error Message Information Record	2013	M13	MI2013-RECORD	Transaction Code Parameters Record																										
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Files	<table border="1"> <thead> <tr> <th>Name</th><th>Description</th><th>Opened</th><th>Media</th><th>Access Mode</th><th>Record Length</th></tr> </thead> <tbody> <tr> <td>TICRDI</td><td>Card File</td><td>Input</td><td>Card</td><td>Sequential</td><td>80</td></tr> <tr> <td>TITAPC</td><td>Conversion Transaction (opt.)</td><td>Input</td><td>Tape</td><td>Sequential</td><td>80</td></tr> <tr> <td>MIMAST</td><td>MICM Master File</td><td>Input</td><td>Disk</td><td>Random</td><td>Variable</td></tr> <tr> <td>TIDSKC</td><td>Conversion Transaction File (opt.)</td><td>Input</td><td>Disk</td><td>Sequential</td><td>80</td></tr> <tr> <td>SORTWK1</td><td>Sort Work File</td><td>O/I</td><td>Disk</td><td>Sequential</td><td>96</td></tr> <tr> <td>TITRNT</td><td>Edited Conversion Transaction File (opt.)</td><td>Output</td><td>Tape</td><td>Sequential</td><td>80</td></tr> </tbody> </table>					Name	Description	Opened	Media	Access Mode	Record Length	TICRDI	Card File	Input	Card	Sequential	80	TITAPC	Conversion Transaction (opt.)	Input	Tape	Sequential	80	MIMAST	MICM Master File	Input	Disk	Random	Variable	TIDSKC	Conversion Transaction File (opt.)	Input	Disk	Sequential	80	SORTWK1	Sort Work File	O/I	Disk	Sequential	96	TITRNT	Edited Conversion Transaction File (opt.)	Output	Tape	Sequential	80
Name	Description	Opened	Media	Access Mode	Record Length																																										
TICRDI	Card File	Input	Card	Sequential	80																																										
TITAPC	Conversion Transaction (opt.)	Input	Tape	Sequential	80																																										
MIMAST	MICM Master File	Input	Disk	Random	Variable																																										
TIDSKC	Conversion Transaction File (opt.)	Input	Disk	Sequential	80																																										
SORTWK1	Sort Work File	O/I	Disk	Sequential	96																																										
TITRNT	Edited Conversion Transaction File (opt.)	Output	Tape	Sequential	80																																										

Name	Description	Opened	Media	Access Mode	Record Length
TITRND	Edited Conversion Transaction File (opt.)	Output	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-902 – Transaction Conversion Sort and Edit

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC040 .
09 – 09	1	Disk input. Valid entries are: b No disk input. X Disk input.
10 – 10	1	Tape input. Number of tapes to be used as input. Valid entries are 0 – 9 .
11 – 11	1	Output medium. Valid entries are: D Disk. T Tape.
12 – 12	1	Print option. Valid entries are: b Default to MICM parameters. A Print all information. E Print errors only.
13 – 80	68	Not used.

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK.
0002	Control card is missing.
0003	Program identification number on the control card is invalid.
0004	System number on the control card is invalid.
0005	Disk input on the control card is invalid.

Code	Description
0006	Tape input on the control card is invalid.
0007	Output medium on the control card is invalid.
0008	File space exceeded on TITRND.
0009	File space exceeded on TITRNT.
0010-0011	File space exceeded on TITRND.
0012	START failed on MICM Record 2013, application 08.
0013	READ NEXT failed on MICM Record 2013, application 08.
0014	START failed on MICM Record 2013, application 08.
0015	READ NEXT failed on MICM Record 2013, application 08.
0016	READ NEXT failed on MICM Record 1300.
0017	CLOSE failed on MIMAST.
0018	CLOSE failed on BNK.

TIC060 – Conversion Sort

Purpose This program reads the card image conversion input from card, disk, or tape. The input is sorted, and a Sorted Card Image Conversion Output File is created. The input to TIC060 consists of all forms used for conversion purposes. This does not include transactions. The output file can be on tape or disk.

API MICM Records None

API Application Records None

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDI	Card File	Input	Card	Sequential	80
TITAPI	Conversion Input File (opt.)	Input	Tape	Sequential	80
TIDSKI	Conversion Input File	Input	Disk	Sequential	80
SORTWK1	Sort Work File Output File (opt.)	O/I	Disk	Sequential	112
TITAPO	Conversion Output File (opt.)	Output	Tape	Sequential	80
TIDSKO	Conversion Input File	Output	Disk	Sequential	80

Reports None

Control Card The control card is required to indicate which media should be used for input and output.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC060 .
09 – 09	1	Disk input. Valid entries are: b No Disk input. X Disk input.
10 – 10	1	Tape input. Number of tapes to be used as input. Valid entries are 0 – 9 .

Columns	Size	Description
11 - 11	1	Output medium. Valid entries are: D Disk. T Tape.
12 - 80	69	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	Control card is missing.
0002	Program identification number on the control card is invalid.
0003	System number on the control card is invalid.
0004	Disk input on the control card is invalid.
0005	Tape input on the control card is invalid.
0006	Output medium on the control card is invalid.
0007	File space exceeded on TIDSKO.

TIC080 – Customer Conversion Input Edit

Purpose This program reads the sorted Card Image Conversion File and edits the customer input to ensure that all fields contain valid data. The payout history is also edited at this time. The Conversion File can be tape or disk. The edited customer input and the edited payout history are written to the Edited Customer Conversion File. This output file can be tape or disk. This program produces report 08-903 (Customer Conversion Input Edit), which is controlled by MICM Record 0307, option flag 3.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0231	M83	MI0231-RECORD	Application Edit Table Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
1300	M79	MI1300-RECORD	Error Message Information Record
2001	M01	MI2001-RECORD	Branch Information Record
2021	M21	MI2021-RECORD	Institution Holidays Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3506	M06	MI3506-RECORD	Time Investment Title Record

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDI	Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable

Name	Description	Opened	Media	Access Mode	Record Length
TITAPO	Customer Conversion Output File (opt.)	Input	Tape	Sequential	80
TIDSKO	Customer Conversion Input File (opt.)	Input	Disk	Sequential	80
TIEDCT	Edited Customer Conversion File (opt.)	Output	Tape	Sequential	80
TIEDCD	Edited Customer Conversion File (opt.)	Output	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-903 – Customer Conversion Input Edit

Control Card

The control card is required to indicate which media should be used for input and output.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC080 .
09 – 09	1	Input medium. Valid entries are: D Disk. T Tape.
10 – 10	1	Output medium. Valid entries are: D Disk. T Tape.
11 – 11	1	Print option. Valid entries are: b Default to MICM parameters. A Print all information. E Print errors only.
12 – 80	69	Not used.

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK, Institution 000.
0002	Control card is missing.
0003	System number on the control card is invalid.
0004	Program identification number on the control card is invalid.
0005	Input medium on the control card is invalid.
0006	Output medium on the control card is invalid.
0007	CLOSE failed on BNK.
0008	CLOSE failed on MIMAST.
0009	File space exceeded on TIDSKO.
0010	READ failed on MICM Record 1001.
0011	READ failed on MICM Record 2021.
0012	READ failed on MICM Record 3500.
0013	START failed on MICM Record 2001.
0014	READ NEXT failed on MICM Record 2001.
0015	START failed on MICM Record 0231.
0016	MICM Record 0231 Table File exceeded – officer.

TIC100 – Customer Conversion

Purpose This program reads the Card Image Edited Customer and creates the Conversion Customer Record, Payout History Records, and IRA 'K' Records. This includes the BNK, CST, and MST Records. The Edited Conversion Input File can be tape or disk.

API MICM Records

Record	Ext Record Code	Name	Description
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
PAY	TIPAY-RECORD	Customer Payout History Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDC	Conversion Control Card File	Input	Card	Sequential	80
TIEDCT	Customer Conversion Input (opt.)	Input	Tape	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIECD	Edited Customer Conversion Disk File (opt.)	Input	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-904 – Customer Conversion

Control Card 1

The control card is required to indicate on which medium the input resides. A card is required for each institution being converted. When converting more than one institution, the control cards must be in ascending order by institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC100 .
09 – 09	1	Input medium. Valid entries are: D Disk. T Tape.
10 – 10	1	Access method. Valid entries are: D Database. V VSAM – load processing.
11 – 80	70	Not used.

Control Card 2

The control card is required for the suspense customer.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 10	5	Branch number.
11 – 80	70	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK, Institution 000.
0002	System number on the control card is invalid.
0003	Program identification on the control card is invalid.
0004	Input medium on the control card is invalid.
0005-0007	Institution number on control card is invalid.
0008	READ failed on MICM Record 1001.
0009	READ failed on MICM Record 3500.
0010	READ failed on BNK, invalid institution number on input.
0011	Form number is not '15' or '16'.

Code	Description
0012	ADD failed on CST.
0013	Missing Form 15, Card 00.
0014	Last card set on Edit File incomplete.
0015	Missing Form 15, Card 01.
0016	Last card set on Edit File incomplete.
0017	Missing Form 15, Card 02.
0018	Last card set on Edit File incomplete.
0019	Missing Form 15, Card 03.
0020	Last card set on Edit File incomplete.
0021	Missing Form 15, Card 04.
0022	Last card set on Edit File incomplete.
0023	Missing Form 15, Card 10.
0024	Missing Form 15, Card 11.
0025	Missing Form 15, Card 12.
0026	Missing Form 15, Card 13, Year 1.
0027	ADD failed on IRA.
0028	Last card set on Edit File incomplete.
0029	Missing Form 15, Card 14.
0030	Missing Form 16, Card 01.
0031	ADD failed on PAY.
0032	READ failed on MICM Record 0001.
0033	READ failed on BNK.
0034	CLOSE failed on MIMAST.
0035	CLOSE failed on BNK.
0036	Access method in column 10 of the control card is invalid.
0037	CLOSE failed on CST.
0038	CLOSE failed on IRA.
0039	CLOSE failed on PAY.

TIC105 – Employer Conversion Input Edit

Purpose This program reads the card image Conversion File and edits the employer information input to ensure that all fields contain valid data. The Conversion File can be card, tape or disk. The edited employer information input is written to tape or disk. Report 08-911 (Employer Conversion Input Edit) is produced by this program. It shows all employers processed and notes detected errors.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0231	M83	MI0231-RECORD	Application Edit Table Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
1300	M79	MI1300-RECORD	Error Message Information Record
2001	M01	MI2001-RECORD	Branch Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3506	M06	MI3506-RECORD	Time Investment Title Records Record

API Application Records

Ext Record Code	Name	Description
BNK	ANBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDI	Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIEDET	Edited Employer Conversion File (opt.)	Output	Tape	Sequential	80

Name	Description	Opened	Media	Access Mode	Record Length
TITAPO	Conversion Output File (opt.)	Input	Tape	Sequential	80
TIDSKO	Conversion Input File (opt.)	Input	Disk	Sequential	80
TIEDED	Edited Employer Conversion File (opt.)	Output	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-911 – Employer Conversion Input Edit

Control Card

The control card is required to indicate which medium the input resides on and which medium the output is to be written on.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC105 .
09 – 09	1	Input medium. Valid entries are: D Disk. T Tape.
10 – 10	1	Output medium. Valid entries are: D Disk. T Tape.
11 – 11	1	Print option. Valid entries are: b Default to MICM parameters. A Print all information. E Print errors only.
12 – 80	69	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK, Institution 000.
0002	Control card is missing.
0003	System number on the control card is invalid.

Code	Description
0004	Program identification number on the control card is invalid.
0005	Input medium on the control card is invalid.
0006	Output medium on the control card is invalid.
0007	CLOSE failed on BNK.
0008	CLOSE failed on MIMAST.
0009	File space exceeded on Edited Employer Conversion File.
0010	READ failed on MICM Record 1001.
0011	READ failed on MICM Record 0211.
0012	READ failed on MICM Record 3500.
0013	START failed on MICM Record 0231.
0014	MICM Record 0231, Table File exceeded (officer).

TIC110 – Employer Conversion

Purpose	<p>This program reads the card image Edited Employer Conversion File output from TIC105 and creates the Employer Records (EMP). The Edited Employer File can be on tape or disk. The Employer Records created in this program are used in future programs as input/output. Report 08-912 (Employer Conversion) is produced by this program. It shows the total number of Employer Records created.</p>																																								
API MICM Records	<table border="1"> <thead> <tr> <th>Record Code</th><th>Ext Record Code</th><th>Name</th><th colspan="3">Description</th></tr> </thead> <tbody> <tr> <td>1001</td><td>M74</td><td>MI1001-RECORD</td><td colspan="3">Institution Information Record</td></tr> <tr> <td>3500</td><td>M00</td><td>MI3500-RECORD</td><td colspan="3" rowspan="2">Time Investment Institution Parameters Record</td></tr> </tbody> </table>					Record Code	Ext Record Code	Name	Description			1001	M74	MI1001-RECORD	Institution Information Record			3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record																				
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EMP	TIEMP-RECORD	Employer Record																																							
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TICRDC	Card File	Input	Card	Sequential	80																																				
TIEDET	Edited Employer Conversion File (opt.)	Input	Tape	Sequential	80																																				
MIMAST	MICM Master File	Input	Disk	Random	Variable																																				
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PRINTR	Print File	Output	Printer	Sequential	133																																				
Reports	08-912 – Employer Conversion																																								

Control Card 1

The control card is required to indicate on which medium the input resides. A card is required for each institution being converted. When converting more than one institution, the control cards must be in ascending order by institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC110 .
09 – 09	1	Input medium. Valid entries are: D Disk. T Tape.
10 – 10	1	Access method. Valid entries are: D Database. V VSAM – load processing.
11 – 80	70	Not used.

Control Card 2

The control card is required for the suspense customer..

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 10	5	Branch number.
11 – 80	70	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK, Institution 000.
0002	System number on the control card is invalid.
0003	Program identification number on the control card is invalid.
0004	Input medium on the control card is invalid.
0005-0007	Institution number on the control card is invalid.
0008	READ failed on MICM Record 1001.
0009	READ failed on MICM Record 3500.
0010	READ failed on BNK.

Code	Description
0011	Form number is not '17'.
0012	Missing Form 17, Card 00.
0013	Last card set on Edit File incomplete.
0014	Missing Form 17, Card 01.
0015	READ failed on MICM Record 1001.
0016	READ failed on BNK.
0017	CLOSE failed on MIMAST.
0018	CLOSE failed on BNK.
0019	ADD failed on EMP.

TIC120 – Master Conversion Input Edit

Purpose This program reads the Sorted Card Image Conversion File input and edits each entry to ensure that all fields contain valid data. TIC120 edits all form input except customer and payout history (which is done in TIC080). The conversion file can be tape or disk. The output is written to the Edited Conversion File. This output file can be tape or disk. This program produces report 08-905 (Master Conversion Input Edit) which shows all information processed and notes any errors detected. This report is controlled by MICM Record 0307, option flag 3.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0231	M83	MI0231-RECORD	Application Edit Table Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
1300	M79	MI1300-RECORD	Error Message Information Record
2001	M01 (MI)	MI2001-RECORD	Branch Information Record
2005	M05	MI2005-RECORD	Cycles Information Record
2021	M21	MI2021-RECORD	Institution Holidays Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3501	M01 (TI)	MI3501-RECORD	Time Investment Type Defaults Record
3502	MI02	MI3502-RECORD	Time Investment Time Investment Type Processing Parameters Record
3503	M03	MI3503-RECORD	Time Investment Penalty Routines Record
3504	M04	MI3504-RECORD	Time Investment Interest Rate Tables Record
3507	M07	MI3507-RECORD	Time Investment Service Charge Parameters Record

API Application
Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDI	Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TITAPO	Conversion Output File (opt.)	Input	Tape	Sequential	80
TIDSKO	Conversion Input File	Input	Disk	Sequential	80
TIEDMT	Edited Conversion Master File (opt.)	Output	Tape	Sequential	80
TIEDMD	Edited Conversion Master File (opt.)	Output	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-905 – Master Conversion Input Edit

Control Card

The control card is required to indicate which media should be used for input and output.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC120 .
09 – 09	1	Input medium. Valid entries are: D Disk. T Tape.
10 – 10	1	Output medium. Valid entries are: D Disk. T Tape.

Columns	Size	Description
11 – 11	1	Print option. Valid entries are: b Default to MICM parameters. A Print all information. E Print errors only.
12 – 80	69	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK, Institution 000.
0002	Control card is missing.
0003	System number on the control card is invalid.
0004	Program identification number on the control card is invalid.
0005	Input medium on the control card is invalid.
0006	Output medium on the control card is invalid.
0007	CLOSE failed on MIMAST.
0008	CLOSE failed on BNK.
0009	CLOSE failed on TICST.
0010	READ failed on CST.
0011	READ failed on CST.
0012	File space exceeded on TIEDMD.
0013	READ failed on MICM Record 1001.
0014	READ failed on MICM Record 0211.
0015	READ failed on MICM Record 3500.
0016	START failed on MICM Record 0231.
0017	MICM Record 0231, Table File exceeded – officer.
0018	START failed on MICM Record 0231, Table 07.
0019	READ NEXT failed on MICM Record 0231, Class.
0020	START failed on MICM Record 0231, Table 07.
0021	READ NEXT failed on MICM Record 0231.
0022	START failed on MICM Record 0231.
0023	READ NEXT failed on MICM Record 0231.

Code	Description
0024	READ NEXT failed on MICM Record 0231.
0025	Invalid class entered, MICM Record 0231.
0026	MICM Record 0231, Table File exceeded – class.
0027	START failed on MICM Record 2001.
0028	READ NEXT failed on MICM Record 2001.
0029-0030	LOAD failed on Regional Pricing Records.
0031	START failed on MICM Record 0231.
0032	MICM Record 0231, Table File exceeded – officer 2.
0033	START failed on MICM Record 0231.
0034	MICM Record 0231, Table File exceeded – cost center.
0035	START failed on MICM Record 0231.
0036	MICM Record 0231, Table File exceeded – source of funds.
0037	START failed on MICM Record 0231.
0038	MICM Record 0231, Table File exceeded – alert code 1.
0039	START failed on MICM Record 0231.
0040	MICM Record 0231, Table File exceeded – alert code 2.
0041	START failed on MICM Record 0231.
0042	MICM Record 0231, Table File exceeded – alert code 3.
0043	START failed on MICM Record 0231.
0044	MICM Record 0231, Table File exceeded – alert code 4.
0045	START failed on MICM Record 0231.
0046	MICM Record 0231, Table File exceeded – alert code 5.
0047	START failed on MICM Record 0231.
0048	MICM Record 0231, Table File exceeded – alert code 6.
0049	START failed on MICM Record 0231.
0050	MICM Record 0231, Table File exceeded – map code.

TIC140 – Master Conversion

Purpose This program reads the Edited Conversion Master File from TIC120 and builds the Account Master Records. In addition, this program reads the edited card image transactions from TIC040 and builds the Transaction Description Records as well as the Transaction History Records. The input card image Conversion Master File and card image Transaction File can be on tape or disk. Additional records are created such as the TDOA Availability Records, the Account Numbers Records, and the Employer Account Numbers Records.

API MICM Records

Record Code	Ext Record	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
2013	M13	MI2013-RECORD	Transaction Code Parameters Record
3500	M35	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
AVL	TI AVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
MST	TIMST-RECORD	Account Master Record
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDC	Card File	Input	Card	Sequential	80

Name	Description	Opened	Media	Access Mode	Record Length
TIEDMT	Edited Conversion Master File (opt.)	Input	Tape	Sequential	80
TITRNT	Edited Conversion Transaction File (opt.)	Input	Tape	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIEDMD	Edited Conversion Master File (opt.)	Input	Disk	Sequential	80
TITRND	Edited Conversion Transaction Disk File (opt.)	Input	Disk	Sequential	80
TISORT	Sort File	O/I	Disk	Sequential	67
TITRDC	Conversion Transaction Description File	Output	Disk	Sequential	Variable
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-906 – Master File Conversion

Control Card 1

The control card is required to indicate on which medium the input resides. A card is required for each institution being converted. When converting more than one institution, the control cards must be in ascending order by institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC140 .
09 – 09	1	Edited Master File conversion input. Valid entries are: D Disk. T Tape.
10 – 10	1	Transaction File conversion input. Valid entries are: D Disk. T Tape.
11 – 11	1	Access method. Valid entries are: D Database. V VSAM – load processing.
12 – 80	69	Not used.

Control Card 2

The control card is required to assign a branch and type number to the suspense account.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 10	5	Branch number.
11 – 13	3	Type number.
14 – 14	1	Print all indicator. An entry of X indicates all accounts are printed.
15 – 80	66	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	OPEN failed on CST.
0002	OPEN failed on EMP.
0003	READ failed on BNK.
0004	Control card is missing.
0005	System number on the control card is invalid.
0006	Program identification number on the control card is invalid.
0007	Edited Master File conversion input on the control card is invalid.
0008	Transaction File conversion input on the control card is invalid.
0009	Institution number, branch number, and/or type number for the suspense account on the control card is invalid.
0010	READ failed on MICM Record 1001.
0011	READ failed on MICM Record 0211.
0012	READ failed on MICM Record 3500.
0013	START failed on MICM Record 2013.
0014	READ NEXT failed on MICM Record 2013.
0015	START failed on MICM Record 2013, Application 08.
0016	READ NEXT failed on MICM Record 2013, Application 08.
0017	READ failed on BNK.
0018	Set on Edit File incomplete.

Code	Description
0019	Missing Form 20, Card 01.
0020	Last card set on Edit File incomplete.
0021	Missing Form 20, Card 02.
0022	Last card set on Edit File incomplete.
0023	Missing Form 20, Card 03.
0024	Last card set on Edit File incomplete.
0025	Missing Form 20, Card 04.
0026	Last card set on Edit File incomplete.
0027	Missing Form 20, Card 05.
0028	Last card set on Edit File incomplete.
0029	Missing Form 20, Card 06.
0030	Last card set on Edit File incomplete.
0031	Missing Form 20, Card 07.
0032	Last card set on Edit File incomplete.
0033	Missing Form 20, Card 10.
0034	Last card set on Edit File incomplete.
0035	Missing Form 20, Card 11.
0036	Last card set on Edit File incomplete.
0037	Missing Form 20, Card 12.
0038	Last card set on Edit File incomplete.
0039	Missing Form 20, Card 13.
0040	Last card set on Edit File incomplete.
0041	Missing Form 20, Card 14.
0042	Last card set on Edit File incomplete.
0043	Missing Form 20, Card 15.
0044	Last card set on Edit File incomplete.
0045	Missing Form 20, Card 16.
0046	Last card set on Edit File incomplete.
0047	Missing Form 20, Card 17.
0048	Last card set on Edit File incomplete.
0049	Missing Form 20, Card 18.
0050	Last card set on Edit File incomplete.

Code	Description
0051	Missing Form 20, Card 19.
0052	Last card set on Edit File incomplete.
0053	Missing Form 20, Card 20.
0054	Last card set on Edit File incomplete.
0055	Missing Form 20, Card 21.
0056	Last card set on Edit File incomplete.
0057	Missing Form 20, Card 22.
0058	Last card set on Edit File incomplete.
0059	Missing Form 20, Card 23.
0060	Last card set on Edit File incomplete.
0061	Missing Form 20, Card 24.
0062	Last card set on Edit File incomplete.
0063	Missing Form 20, Card 25.
0064	Last card set on Edit File incomplete.
0065	Missing Form 20, Card 26.
0066	Last card set on Edit File incomplete.
0067	Missing Form 20, Card 27.
0068	Last card set on Edit File incomplete.
0069	Missing Form 20, Card 28.
0070	Last card set on Edit File incomplete.
0071	Missing Form 20, Card 29.
0072	ADD failed on TRN.
0073	ADD failed on TITRDC.
0074	ADD failed on AVL.
0075	READ failed on CST.
0076	ADD failed on ACN.
0077	REWRITE failed on CST.
0078	READ failed on EMP.
0079	ADD failed on EMN.
0080	REWRITE failed on EMP.
0081	Invalid input on TITRND.
0082	READ failed on MICM Record 1001.

Code	Description
0083	READ failed on BNK creating the suspense account.
0084	ADD failed on MST creating the suspense account.
0085	CLOSE failed on MIMAST.
0086	CLOSE failed on BNK.
0087	CLOSE failed on CST.
0088	CLOSE failed on EMP.
0089	Access method on control card is invalid.
0090	ADD failed on TRD.
0091	CLOSE failed on ACN.
0092	CLOSE failed on AVL.
0093	CLOSE failed on EMN.
0094	CLOSE failed on MST.
0095	CLOSE failed on TRN.
0096	CLOSE failed on TRD.
0097	Last card set on Edit File incomplete.
0098	Missing Form 20, Card 08.

TIC160 – Miscellaneous Conversion

Purpose This program reads the edited card image conversion Master File output from TIC120 and creates the Assignment Record, Statement Copies Record, Interest History Record, and Rate Change History Record. The edited card image conversion Master File input can be on tape or disk.

API MICM Records

Record Code	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record

API Application Records

Ext Record Code	Name	Description
ASG	TIASG-RECORD	Assignment/Caution Record
BNK	TIBNK-RECORD	Institution Control Record
INT	TIINT-RECORD	Interest Payment History Record
MST	TIMST-RECORD	Account Master Record
RAT	TIRAT-RECORD	Rate Change History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICRDC	Card File	Input	Card	Sequential	80
TIEDMT	Edited Conversion Master File (opt.)	Input	Tape	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIEDMD	Edited Conversion Master File (opt.)	Input	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-907 – Miscellaneous Conversion

Control Card

The control card is required to indicate the input medium..

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC160 .
09 – 09	1	Edited Master File conversion input. Valid entries are: D Disk. T Tape.
10 – 80	71	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	OPEN failed on MST.
0002	READ failed on BNK.
0003	Control card is missing.
0004	System number on the control card is invalid.
0005	Program identification number on the control card is invalid.
0006	Edited Master File conversion input on the control card is invalid.
0007	READ failed on MICM Record 1001.
0008	READ failed on MICM Record 0211.
0009	READ failed on BNK.
0010	ADD failed on ASG.
0011	REWRITE failed on MST.
0012	READ failed on XRL.
0013	REWRITE failed on MST.
0014	ADD failed on INT.
0015	REWRITE failed on MST.
0016	ADD failed on RAT.
0017	REWRITE failed on MST.
0018	CLOSE failed on MIMAST.
0019	CLOSE failed on BNK.
0020	CLOSE failed on MST.

Code	Description
0021	CLOSE failed on ASG.
0022	CLOSE failed on XRL.
0023	CLOSE failed on RAT.
0024	CLOSE failed on INT.

TIC170 – Rate Aggregates

Purpose This program updates the rate aggregates in the Account Master Records. Rate Change Records are read as input and are used to calculate interest rate aggregates, renewal rate aggregates, and statement rate aggregates. You must run this program if calculations require average rates. Rate aggregates are used to compute average rates for specific time periods.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
RAT	TIRAT-RECORD	Rate Change History Record

Files None

Reports None

Control Card None

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	OPEN failed on MST.
0002	READ NEXT failed on MST.
0003	REWRITE failed on MST.
0004	CLOSE failed on MST.
0005	OPEN failed on RAT.
0006	READ NEXT failed on RAT.
0007	CLOSE failed on RAT.

TIC190 – TDOA Deposit Verification

Purpose This program reports the differences between the Account Master Record and the TDOA Availability Record for current balance, interest earned not paid, and interest available. Account Master Records with a fixed rate designation are verified against all deposit records for a match on the interest rate.

Note: TIC190 must be run when converting TDOA account references, since TDOA Availability Records cannot be added after conversion.

API MICM Records

Record	Ext Record	Name	Description
Code			
1001	M74	MI1001-RECORD	Institution Information Record

API Application Records

Ext Record	Name	Description
Code		
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-910 – TDOA Deposit Verification

Control Card None

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	OPEN failed on MST.
0002	READ failed on BNK.
0003	READ NEXT failed on MST.

Code	Description
0004	READ failed on MICM Record 1001.
0005	READ failed on AVL.
0006	CLOSE failed on BNK.
0007	CLOSE failed on MIMAST.
0008	CLOSE failed on MST.
0009	CLOSE failed on AVL.

TIC200 – Total File Conversion

Purpose This program reads and sorts the Account Master Records (MST) (created in TIC140) and creates the Total Record – Amount (TA1) and Total Record – Number (TA2) records.

API MICM Records

Record	Ext Record	Name	Description
Code			
1001	M74	MI1001-RECORD	Institution Information Record

API Application Records

Ext Record	Name	Description
Code		
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record
TA1	TITA1-RECORD	Total Record – Amount
TA2	TITA2-RECORD	Total Record – Number

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	O/I	Disk	Sequential	274
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-909 – Total File Conversion

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIC200 .

Columns	Size	Description
09 – 11	3	File option. Valid entries are: b Converts all master records with prior day activity. ALL Converts all master records.
12 – 80	69	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK.
0002	OPEN failed on MST.
0003	READ NEXT failed on MST.
0004	READ failed on BNK.
0005	REWRITE failed on MST.
0006	READ failed on MICM Record 1001.
0007	READ failed on BNK.
0008	READ failed on MICM Record 1001.
0009	READ failed on BNK.
0010	CLOSE failed on MIMAST.
0011	CLOSE failed on BNK.
0012	CLOSE failed on MST.
0013	ADD failed on TA1.
0014	ADD failed on TA2.
0015	OPEN failed on TA1.
0016	OPEN failed on TA2.
0017	CLOSE failed on TA1.
0018	CLOSE failed on TA2.

Reports

The following reports are run during conversion processing.

08-901 – Institution Control File Conversion

Purpose	This report is printed when the Institution Control File is converted. The images of the cards entered are shown. The cards are edited for valid data to insure that field entry requirements are correct. For rejected cards, the names of the fields in error are displayed, along with error codes and messages explaining the reject reasons.
Program	TIC020 – Institution Control File Conversion

INSTITUTION CONTROL FILE CONVERSION								PAGE	1		
TIME INVESTMENT SYSTEM								08-901			
SYS BANK FORM/ 6789012345678901234567890123456789012345678901234567890											
NBR NBR *---KEY DATA---* CARD *-----CARD DATA-----* *---FIELD NAME---* *---ERROR MESSAGE---ERR											
08 000	0000	012789012689012889012889C	CB6	1	** CARD ACCEPTED **						
08 001	0000	012789012689012889012889C	CB6	1	** CARD ACCEPTED **						
08 002	0000	012789012689012889012889C	CB6	1	** CARD ACCEPTED **						

Institution Control File Conversion

Heading Descriptions

Sys Nbr	System Number. Valid entry is 08 .
Institution Nbr	Institution Number.
Form/Card	Form/Card Number. Numbers are used for input.
Card Data	Card Positions 26 through 80. These 55 positions contain the remaining fields on the input form. Refer to the input form descriptions for explanations of these fields.
Field-name	Field Name. Name of the field or group of fields in error.
Error-message	Error Message. Reject reason for an invalid field entry.
Err	Error Message Code.

08-902 - Transaction Conversion Sort and Edit

Purpose This report is a listing of transaction history input. The card images of the transactions entered are in the report. The cards are edited for valid data to insure that field entry requirements are met. For rejected cards, the names of the fields in error are displayed, along with error codes and messages explaining the reject reasons.

Program TIC040 – Transaction Conversion Edit and Sort

01-28-1989								001 FIRST NATIONAL BANK OF AMERICA		PAGE	1
TIME INVESTMENT SYSTEM				TRANSACTION CONVERSION SORT AND EDIT				08-902			
ACCOUNT-NUMBER	DATE	TRAN CARD	2 3	4	5	6	7	8	FIELD-NAME	ERROR-MESSAGE	ERR
000-000-041-1	011088	20 76	00000000								
	011088	20 75	0000000000044100000100000110880240000000000000000000000000000000								
	011088	20 76	00000000								
	011088	20 75	0000000000044100000100000110880240000000000000000000000000000000								
	011088	20 76	00000000								
	011088	20 75	0000000000024000000100000110880240000000000000000000000000000000								
	011088	20 76	00000000								
	011088	20 75	0000000000002400000020001011088024000000000000000000000000000000								
	011088	20 76	00000000								
	011088	20 75	0000000000044100000100000210880240000000000000000000000000000000								
	010489	20 76	00000000								
	010489	20 75	0000000000049000000100000104890490000000000000000000000000000000								
000-000-041-4	122887	20 76	00000000								
	122887	20 75	0000000000050000000002001228870500000000000000000000000000000000								
	011088	20 76	00000000								
	011088	20 75	0000000000044100190000000110880441000000000000000000000000000000								
	022888	20 76	00000000								
	022888	20 75	0000000000050000000002000228880500000000000000000000000000000000								
	032888	20 76	00000000								
	032888	20 75	0000000000050000000002000328880500000000000000000000000000000000								
	042888	20 76	00000000								
	042888	20 75	0000000000050000000002000428880500000000000000000000000000000000								
	052888	20 76	00000000								
	052888	20 75	0000000000050000000002000528880500000000000000000000000000000000								
	062888	20 76	00000000								
	062888	20 75	0000000000050000000002000628880500000000000000000000000000000000								
	072888	20 76	00000000								
	072888	20 75	0000000000050000000002000728880500000000000000000000000000000000								
	082888	20 76	00000000								
	082888	20 75	0000000000050000000002000828880500000000000000000000000000000000								
	092888	20 76	00000000								
	092888	20 75	0000000000050000000002000928880500000000000000000000000000000000								
	102888	20 76	00000000								
	102888	20 75	0000000000050000000002001028880500000000000000000000000000000000								
	112888	20 76	00000000								
	112888	20 75	0000000000050000000002001128880500000000000000000000000000000000								
	010489	20 76	00000000								
	010489	20 75	0000000000093000000020010489093000000000000000000000000000000000								
000-000-041-5	032888	20 76	00000000								
	032888	20 75	0000000000024001212002000328880240000000000000000000000000000000								
	042888	20 76	00000000								
	042888	20 75	0000000000090001212002000428880900000000000000000000000000000000								
000-000-041-1	011088	20 76	00000000								
	011088	20 75	0000000000044100000100000110880240000000000000000000000000000000								
									SYSTEM NUMBER	INVALID	*001

08-902 - Transaction Conversion Sort and Edit (Details Page)

Heading Descriptions

Account-number	Account Number.
Tran Date	Transaction Date. Date of the transaction.
Form Card	Form/Card Number. Numbers used for input.
(Card Data)	Card Positions 26 through 80. These 55 positions contain the remaining fields of the transaction record.
Field-name	Field Name. Name of the field, or group of fields in error.
Error-message	Error Message. Reject reason for an invalid field entry.
Err	Error Message Code/Error Number. An asterisk printed next to this error number indicates an unacceptable error.

```
** TOTALS **
*-----TOTAL-----*
ENTERED          42
REJECTED          1
ACCEPTED         40
BYPASSED          1
GENERATED          3
    AMOUNT      5,040,932.02
DROPPED            1
```

08-902 – Transaction Conversion Sort and Edit (Totals Page)

Heading Descriptions

Totals	Totals. Total number of cards entered, rejected, generated or accepted, the dollar amount and the total number of dropped records.
--------	--

08-903 – Customer Conversion Input Edit

Purpose	This report lists Time Investment customer records and the payout history being converted. The card image of the input is shown on the report. The option to print all output or the rejected cards only is given in the control card for TIC080 (Customer Conversion Input Edit). The cards are edited for valid data to ensure that field entry requirements for that particular input form are met. For rejected cards, the names of the fields in error are displayed, along with the error codes and messages explaining the reject reasons. The error code explanations are listed at the beginning of the edit report by form number. The card totals for the different types of conversion input are printed at the end of the report.
Program	TIC080 – Customer Conversion Input Edit (controlled by MICM Record 0307 – option flag 3.)

Program TIC080 – Customer Conversion Input Edit (controlled by MICM Record 0307 – option flag 3.)

08-903 – Customer Conversion Input Edit (Details Page)

Heading Descriptions

Customer-number Customer Number. Number assigned to each customer.

Card Nbr	Card Number. Number on the form used for input.
(Card Data)	Card Positions 26 through 80. These 55 positions contain the remaining fields of the customer accounts and the payout history information.
Field-name	Field Name. Form and card in error.
Error-message	Error Message/Form number. An asterisk (*) before the error code indicates a problem and must be corrected. If no asterisk is present, there is a minor error and no correction is necessary. Only the records without an asterisk are accepted by the system to be processed further.
Err	Error Code Number. Use this code along with the form number under the error-message heading and refer to the error message list at the beginning of the report.

01-28-1989	001 FIRST NATIONAL BANK OF AMERICA	PAGE 6
TIME INVESTMENT SYSTEM	CUSTOMER CONVERSION INPUT EDIT	08-903
** TOTALS **		
-----CUSTOMER-INPUT----- *-----PAYOUT-HIST-INPUT----*		
TOTAL-CARDS NEW-CUSTOMERS ADDITIONS		
GENERATED	12	
ENTERED	13	4
DUPLICATE	0	
REJECTED	0	0
ACCEPTED	25	4

08-903 – Customer Conversion Input Edit (Totals Page)

Heading Descriptions

Total-cards	Totals are given by file input. Totals that are shown by file are generated, entered, duplicate, rejected and accepted.
-------------	---

08-904 - Customer Conversion

Purpose This report shows the customer conversion total information for Time Investment. Totals reflect the total amount of customer records, the total amount of customer total records, and the total amount of payout history records.

Program TIC100 – Customer File Conversion

001 FIRST NATIONAL BANK OF AMERICA						PAGE	1	
TIME INVESTMENT SYSTEM						CUSTOMER CONVERSION		08-904
CUST-NBR	CUSTOMER-PAYMENT	AMOUNT	DISP	PAY-DATE	SERIAL-NBR	APPL	TAX-AMT	CK
511	CUSTOMER-PAYMENT	1,000.00	P	10-31-88	342	00	.00	P
	CUSTOMER-PAYMENT	1,000.00	P	11-30-88	343	00	.00	P
	CUSTOMER-PAYMENT	1,000.00	P	12-31-88	344	00	.00	P
	CUSTOMER-PAYMENT	1,000.00	P	1-31-89	345	00	.00	O
615	CUSTOMER-PAYMENT	256.00	P	7-15-88	122321	08	.00	P
	CUSTOMER-PAYMENT	258.00	P	8-15-88	122321	08	.00	P
	CUSTOMER-PAYMENT	261.00	P	9-15-88	122321	08	.00	P
	CUSTOMER-PAYMENT	265.00	P	10-15-88	122321	08	.00	p
	CUSTOMER-PAYMENT	271.00	P	11-15-88	122321	08	.00	p
	CUSTOMER-PAYMENT	276.00	P	12-15-88	122321	08	.00	p
	CUSTOMER-PAYMENT	277.00	P	1-15-89	122321	08	.00	p
712	CUSTOMER-PAYMENT	1,023.31	P	6-30-88	342	00	.00	P
	CUSTOMER-PAYMENT	1,023.31	P	9-30-88	343	00	.00	P
	CUSTOMER-PAYMENT	1,023.21	P	12-31-88	344	00	.00	P
TOTAL CUSTOMER RECORDS		3						
TOTAL CUSTOMER TOTAL RECORDS		3						
TOTAL PAYOUT HISTORY RECORDS		14						

08-904 – Customer Conversion

Heading Descriptions

Cust-nbr	Customer Number. Number assigned to each customer.
Customer-payment	Customer Payment. Description of the customer payment.
Amount	Amount. Amount of the customer payment.
Disp	Payment Disposition Code. Valid entries are: P Pay by check. T Transfer to another account.
Pay-date	Payment Date.
Serial-nbr	Serial Number. Check number if paid by check or the account number if transferred.
Appl	Application Code. Code of the account if the payment was transferred to another account.

Tax-amt	Tax Amount. Amount of tax withheld on the payment.
Ck	Check Disposition Code. Valid entries are: b Payment not paid by check. O Check outstanding. P Check paid.
Totals	Totals. Total number of customer records, total number of customer total records, and total number of payout history records.

08-905 – Master Conversion Input Edit

Purpose	This report shows the card images of all master conversion input entered to Time Investment on the report date. All cards entered are shown, or rejected cards only, depending on the option selected by the institution. The cards are edited for valid data to ensure that field entry requirements for the particular input forms are met. For rejected cards, the names of the fields in error are displayed, along with error codes and messages explaining the reject reasons. Error code explanations are listed at the beginning of the edit by form number. Card totals for the different types of conversion input are printed at the end of the report.
Program	TIC120 – Master Conversion Input Edit (controlled by MICM Record 0307 – option flag 3.)

08-905 – Master Conversion Input Edit (Details Page)

Heading Descriptions

Account-number	Account Number.
Form Nbr	Form Number. An asterisk (*) indicates that a field on that form/card has defaulted to a MICM value.
Card Nbr	Card Number.
(Card Data)	Card Positions 26 through 80. These 55 positions contain the remaining fields of the master conversion input.
Field-name	Field Name. Form and card in error.
Error-message	Error Message/Form Number. An asterisk (*) before the error code indicates a problem and must be corrected. If no asterisk is present, there is a minor error and no correction is necessary. Only the records without an asterisk are accepted by the system to be processed further.
Err	Error Code Number. Use this code and the form number under the error-message heading and refer to the error listing at the beginning of the report.

01-28-1989	001 FIRST NATIONAL BANK OF AMERICA	PAGE	13
TIME INVESTMENT SYSTEM	MASTER CONVERSION INPUT EDIT		08-905
** TOTALS **			
	TOTAL-CARDS	*-----MASTER-INPUT-----*	*-----ASSIGNMENT-INPUT-----*
GENERATED	12	NEW-ACCOUNTS	ADDITIONS
ENTERED	242	9	1
REJECTED	0	0	0
ACCEPTED	254	9	1
		---AVAILABILITY-INPUT---	*---RELATIONAL-INPUT-----*
		ADDITIONS	ADDITIONS
ENTERED	2	1	3
REJECTED	0	0	0
ACCEPTED	2	1	3

08-905 - Master Conversion Input Edit (Totals Page)

Heading Descriptions

Totals	Totals by Institution. Various files are shown for conversion input. These include master input, assignment input, rate change history input, availability input, relational input, and interest pay history input. Under each heading is a total for new accounts, changes, additions and deletions.
Total-cards	Total Cards. Number of cards generated, entered, rejected, or accepted. These total card figures are shown on each type of file conversion input.

08-906 – Master File Conversion

Purpose This report lists all of the accounts that are out of balance at the time of conversion. The report shows static account information, Master File balance information, and transaction information.

Program TIC140 – Master File Conversion

01-28-1989 001 FIRST NATIONAL BANK OF AMERICA										PAGE	1
TIME INVESTMENT SYSTEM			MASTER FILE CONVERSION							08-906	
ACCOUNT-NUMBER	SHORT-NAME	BRANCH	PRIM-CUST-KEY	DATE-OPN	CURRENT-BALANCE	CALC-CUR-BALANCE	BEGIN-BALANCE	INT-PAID-YTD	TOTAL-DEBITS	TOTAL-DB-BALANCE	TOTAL-CR-BALANCE
LST-STM											
0000000411	HNSONDA	00001		-0000 1-10-88 1-09-88	600.01 6	700.01 700.01	.00 0	325.00 **** .00 ****			
0000000412	JOHNSONDA	00001	JOHNSODA-0000	1-10-88 1-09-88	200.01 1	200.01 200.01	.00 0	325.00 .00			
0000000413	JOHNSONDA	00001	JOHNSODA-0000	1-10-88 1-09-88	2,000.00 0	.00 .00	.00 0	325.00 **** .00 ****			
0000000414	HNSONDA	00001		-0000 1-10-88 1-09-88	600.01 12	190,020.00 190,022.00	.00 1	325.00 **** 2.00 ****			
0000000415	HNSONDA	00001		-0000 1-10-88 1-09-88	600.01 1	1,212,002.00	.00 1	325.00 **** 1,212,002.00 ****			
0000000416	HNSONDA	00001		-0000 12-31-88 12-30-88	600.01 1	1,212,002.00 1,212,002.00	.00 0	325.00 **** .00 ****			
0000000417	HNSONDA	00001		-0000 3-28-88 3-27-88	600.01 2	1,214,002.00 1,214,002.00	.00 0	325.00 **** .00 ****			
0000000418	HNSONDA	00001		-0000 3-28-88 3-27-88	300,000,000.00 0	.00 .00	.00 0	325.00 **** .00 ****			
0000000419	HNSONDA	00001		-0000 3-28-88 3-27-88	12,340,000.00 0	.00 .00	.00 0	325.00 **** .00 ****			

08-906 – Master File Conversion (Details Page)

Heading Descriptions

Account-number	Account Number.
Short-name	Customer's Short Name.
Branch	Branch Number.
Prim-cust-key	Primary Customer Key.
Date-opn	Date Open. Date the account opened.
Current-balance	Current Balance. Balance of the account as input to conversion.

Calc-cur-balance	Calculated Current Balance. The system takes the statement beginning balance, accumulates all debits and credits posted since the last statement date and calculates what the balance should be based on the items input. If the calculated balance does not match the current balance, 4 asterisks (****) appear to the right of the line.
Begin-balance	Beginning Balance. This is the balance of the account as of the last statement date.
Int-paid-YTD	Interest Paid Year-to-date.
Lst-stmt	Last Statement. Date of the last statement.
Total-credits	Total Credits. Total number of credits since the last statement date.
Total-cr-balance	Total Credit Balance. Total amount of credits since the last statement date.
Total-debits	Total Debits. Total number of debits since the last statement date.
Total-db-balance	Total Debit Balance. Total amount of debits since the last statement date.

01-28-1989 001 FIRST NATIONAL BANK OF AMERICA							PAGE	2
TIME INVESTMENT SYSTEM		MASTER FILE CONVERSION TOTALS				08-906		
		CALCULATED	INTEREST	TOTAL	TOTAL			
BRANCH	CURRENT-BALANCE	CURRENT-BALANCE	BEGINNING-BALANCE	PAID-YTD	CREDITS	CREDIT-BALANCE	DEBITS	DEBIT-BALANCE
	312,345,200.06	2,616,924.02	.00	2,925.00	23	3,828,928.02	2	1,212,004.00
	TOTAL ACCOUNTS	9	TOTAL ACCOUNTS OUT OF BALANCE		8			

08-906 – Master File Conversion (Totals Page)

Heading Descriptions

Totals	Totals. Totals are shown for each institution, and each branch within the institution. Totals also include total accounts and total accounts out of balance.
--------	--

08-907 – Miscellaneous Conversion

Purpose This report lists all of the miscellaneous conversion information. This includes the Assignment Records, the Statement Copies Records, the Interest Payment History Records, and the Rate Change History Records. Totals in this report reflect how many of these records are being converted.

Program TIC160 – Miscellaneous Conversion

01-28-1989 001 FIRST NATIONAL BANK OF AMERICA							PAGE	1			
TIME INVESTMENT SYSTEM MISCELLANEOUS CONVERSION							08-907				
ACCOUNT-NBR	ASSIGNMENT	AMOUNT	TY	SEQ	EXP-DATE	DESCRIPTION-1	DESCRIPTION-2	APPL	TAX-AMT	CK	TYPE
	INTEREST-PAYMENT	AMOUNT	DISP	PAY-DATE	SERIAL-NBR		NEW-RATE	INTEREST-ENP			FLAG
	RATE-CHANGE	CHG-DATE	SEQ	EFF-DATE	OLD-RATE						
	STMT COPY	CUSTOMER-KEY									
0000000411	ASSIGNMENT	10.00	A	1	12-31-99	UNSIGNED CHECK	HNSON			HNSON	
	STMT COPY	JOHNSO/A/R/0001									
	INTEREST-PAYMENT	50.00	P	10-31-88	333		00	.00	P	I	
	INTEREST-PAYMENT	50.00	P	11-30-88	333		00	.00	P	I	
	INTEREST-PAYMENT	50.00	P	12-31-88	333		00	.00	P	I	
	RATE-CHANGE	12-31-87	1	12-31-87	9.000		10.000				
0000000412	RATE-CHANGE	1-15-88		1	1-01-88	7.250		6.750			
0000000413	RATE-CHANGE	2-09-88		1	2-09-88	12.000		11.500			
0000000414	RATE-CHANGE	12-31-87		1	12-31-87	6.975		7.500			
0000000415	RATE-CHANGE	12-31-88		1	12-31-88	8.000		8.250			
0000000621	ASSIGNMENT	500.00	C	1	12-31-99	RETURNED CHECK	HNSON			HNSON	
	INTEREST-PAYMENT	23.00	P	9-15-88	333		00	.00	P	I	
	INTEREST-PAYMENT	23.00	P	10-15-88	333		00	.00	P	I	
	INTEREST-PAYMENT	23.00	P	11-15-88	333		00	.00	P	I	
	RATE-CHANGE	12-31-87	1	12-31-87	9.000		10.000				
0000000415	ASSIGNMENT	73.00	A	1	12-31-99	UNSIGNED CHECK	HNSON			HNSON	
	STMT COPY	JOHNSO/A/R/0001									
	INTEREST-PAYMENT	50.00	P	10-31-88	333		00	.00	P	I	
	INTEREST-PAYMENT	50.00	P	11-30-88	333		00	.00	P	I	
	INTEREST-PAYMENT	50.00	P	12-31-88	333		00	.00	P	I	
	RATE-CHANGE	12-31-87	1	12-31-87	9.000		10.000				
	3 ASSIGNMENT RECORDS										
	9 INTEREST PAYMENT HISTORY RECORDS										
	8 RATE CHANGE HISTORY RECORDS										
	3 STATEMENT COPIES RECORDS										

08-907 – Miscellaneous Conversion

Heading Descriptions

Account-nbr Account Number.

Assignment Assignment Record.

Amount Assignment Amount.

Ty	Record Type. Valid entries are: A Assignment Record. C Caution record.
Seq	Sequence Number.
Exp-date	Expiration Date. Date the assignment or caution expires.
Description-1	Description One Field.
Description-2	Description Two Field.
Interest-payment	Interest Payment Record.
Amount	Interest Payment Amount.
Disp	Interest Payment Disposition. Valid entries are: C Capitalize interest. P Pay interest by check. T Transfer to another account.
Pay-date	Next Payment Date.
Serial-nbr	Serial Number. May be zeros, a check number if the Interest Disposition is 'P' for pay by check, or an account number if the interest disposition is 'T' for transfer.
Appl	Application Code. Code for the account if the interest was transferred to another account.
Tax-amt	Tax Amount. Amount of tax withheld from the interest payment.
Ck	Check Disposition Code. Valid entries are: b Interest not paid by check. O Check outstanding. P Check paid.
Type	Check Type. Valid entries are: I Interest check. P Principal check.
Rate-change	Rate Change History Record.
Chg-date	Rate Change Date.
Seq	Sequence Number.
Eff-date	Effective Date. Rate change effective date.

Old-rate	Old Interest Rate.
New-rate	New Interest Rate.
Interest-enp	Not used.
Flag	Not used.
Stmt Copy	Statement Copies Record. Used to send copies of a statement to a maximum of 16 different addresses.
Customer-key	Customer Key.
Totals	Totals by Institution. Also included are the total amounts of the converted records, which include the assignment records, the interest payment history records, the rate change history records, and the statement copies records.

08-909 – Total File Conversion

Purpose This report shows the total file conversion information. Totals are shown by type, within branch, within institution.

Program TIC200 – Total File Conversion

01-28-1989		001 FIRST NATIONAL BANK OF AMERICA	PAGE	1	
TIME INVESTMENT SYSTEM - CD		TOTAL FILE CONVERSION	08-909		
BNK	BRNCH	TYP	FIELD NAME	AMOUNT	COUNT
001	00001	006	CURRENT BALANCE	312,344,600.05	8
			DORMANT ACCOUNT BALANCE	.00	0
			EMPLOYEE ACCOUNT TOTAL	312,342,400.04	6
			CORRESPONDENT BANK TOTAL	312,342,400.04	6
			PUBLIC FUNDS TOTAL	312,342,400.04	6
			TRUST DEPOSIT TOTAL	312,342,400.04	6
			SECURED DEPOSIT TOTAL	312,342,400.04	6
			COLLATERAL TOTAL	312,342,400.04	6
			MATURED CERTIFICATE TOTAL	1,200.02	2
			CHECKS OUTSTANDING TOTAL	.00	0
			BALANCES OVER 100,000.00	312,340,000.00	2
			TAX EXEMPT TOTAL	.00	0
			TRANSFERABLE CERTIFICATE TOTAL	.00	0
			INTEREST EARNED NOT PAID	8.00	
			INTEREST PAID MONTH TO DATE	.00	
			INTEREST PAID YEAR TO DATE	2,600.00	
			SERVICE CHARGES PAID MONTH TO DATE	.00	
			SERVICE CHARGES PAID YEAR TO DATE	.00	
			INTEREST EARNED MONTH TO DATE	.00	
			INTEREST EARNED YEAR TO DATE	2,608.00	
			INTEREST PENALTY MONTH TO DATE	.00	
			INTEREST PENALTY YEAR TO DATE	2,600.00	
			FEDERAL WITHHOLDING YEAR TO DATE	141,050.20	
			DISBURSEMENT TAX WITHHOLDING YEAR TO DATE	5,000.00	

08-909 – Total File Conversion

Heading Descriptions

Bnk Institution Number.

Brnch Branch Number.

Typ Account Type.

Field Name Field Name. Descriptions of the fields that were converted. The following are included:

Current balance
Dormant account balance
Employee account total
Correspondent institution total
Public funds total
Trust deposit total
Secured deposit total

Collateral total
Matured certificate total
Checks outstanding total
Balances over 100,000.00
Tax-exempt total
Transferable certificate total
Interest earned not paid
Interest paid month-to-date
Interest paid year-to-date
Service charges paid month-to-date
Service charges paid year-to-date
Interest earned month-to-date
Interest earned year-to-date
Interest penalty month-to-date
Interest penalty year-to-date
Federal withholding year-to-date
Disbursement tax withholding year-to-date

Count Count. Total number of accounts in each field.

08-910 – TDOA Deposit Verification

Purpose	This report shows all Availability Records associated with a Time Deposit Open Account if the sum of those records does not balance to the account's current balance, interest ENP, or interest available.										
Program	TIC190 – TDOA Deposit Verification										

02-27-1986				001 FIRST NATIONAL BANK OF AMERICA								PAGE	2						
TIME INVESTMENT SYSTEM				TDOA DEPOSIT VERIFICATION								08-910							
BANK	BRANCH	TYPE	ACCOUNT	DEP	BALANCE	ACCT	BALANCE	DEP	INT	ENP	ACCT	INT	ENP	DEP	INT	AVAIL	ACCT	INT	AVAIL
001	00001	794	0001406745		1447.21		1487.21			.78			.78			.19		1.19	
001	00099	791	0009700218		10513.15		10598.17		130.26		130.26		130.26		531.87		531.87		
001	00099	791	0009700226		4690.43		4753.73		58.12		58.12		58.12		217.80		217.80		
001	00099	791	0009700234		4690.43		4753.73		58.12		58.12		58.12		217.80		217.80		
001	00099	791	0009700242		3053.36		3106.34		37.83		37.83		37.83		130.70		130.70		
001	00099	791	0009700250		9322.80		9486.82		115.51		115.51		115.51		346.43		346.43		
001	00099	791	0009700269		6932.95		7083.63		85.90		85.90		85.90		261.19		261.19		
001	00099	791	0009700382		3402.52		3542.54		42.16		42.16		42.16		72.29		72.29		
001	00099	791	0009700392		4087.65		4244.20		50.65		50.65		50.65		94.38		94.38		
001	00099	791	0009700404		1870.01		1943.31		23.16		23.16		23.16		41.60		41.60		
001	00099	791	0009700412		5593.67		5831.27		69.31		69.31		69.31		122.03		122.03		
001	00099	791	0009700420		3604.88		3743.35		44.66		44.66		44.66		79.36		79.36		
001	00099	791	0009700439		2268.65		2365.72		28.11		28.11		28.11		48.08		48.08		
001	00099	791	0009700447		3846.69		4005.25		47.66		47.66		47.66		78.24		78.24		
001	00099	791	0009700455		2390.66		2487.73		29.62		29.62		29.62		48.60		48.60		
001	00099	791	0009700463		1398.45		1456.09		17.32		17.32		17.32		28.45		28.45		
001	00099	791	0009700501		6783.46		7070.74		84.05		84.05		84.05		130.76		130.76		
001	00099	791	0009700528		5724.11		5966.53		70.92		70.92		70.92		110.34		110.34		
001	00099	791	0009700536		4801.23		5005.65		59.48		59.48		59.48		91.53		91.53		
002	00099	791	0009700544		6735.54		7022.67		83.45		83.45		83.45		121.08		121.08		
002	00099	791	0009700552		6735.54		7022.67		83.45		83.45		83.45		121.08		121.08		
002	00099	791	0009700595		11067.78		11536.88		137.12		137.12		137.12		198.92		198.92		
002	00099	791	0009700609		828.55		863.27		10.26		10.26		10.26		14.89		14.89		
002	00099	791	0009700676		1583.06		1649.47		19.62		19.62		19.62		26.03		26.03		
002	00099	791	0009700684		3780.90		3948.97		46.85		46.85		46.85		62.31		62.31		
002	00099	791	0009700692		1887.96		1960.23		23.39		23.39		23.39		30.93		30.93		
002	00099	791	0009700706		3780.90		3948.97		46.85		46.85		46.85		62.31		62.31		
002	00099	791	0009700722		2367.76		2433.91		29.34		29.34		29.34		77.76		77.76		
002	00099	791	0009700730		2367.76		2433.91		29.34		29.34		29.34		77.76		77.76		
002	00099	791	0009700749		4540.96		4670.78		56.26		56.26		56.26		146.35		146.35		
002	00099	791	0009700773		6583.65		6781.92		81.57		81.57		81.57		195.74		195.74		
002	00099	791	0009701060		57.74		.00		.01-		.01-		.01-		57.74		57.74		

08-910 – TDOA Deposit Verification

Heading Descriptions

Institution	Institution Number.
Branch	Branch Number.
Type	Account Type.
Account	Account Number.
Dep Balance	Deposit Balance. Total amount in all availability records.

Acc Balance	Account Balance.
Dep Intenp	Interest Earned Not Paid. Total amount of interest earned not paid in all availability records.
Acc Intenp	Account Interest Earned Not Paid. Amount of interest earned not paid in the account.
Dep Intavail	Interest Available. Total amount of capitalized interest available in all availability records.
Acc Intavail	Account Interest Available. Amount of capitalized interest available in the account.

08-911 – Employer Conversion Input Edit

Purpose This report lists Time Investment Employer Records being converted. The card image of the input is shown on the report. The option to print all output or rejected cards only is available on the control card for TIC105 (Employer Conversion Input Edit). The cards are edited for valid dates to ensure that field entry requirements for that particular input form are met. For rejected cards, the field number in error is displayed, along with an error code. Error code and field number explanations are listed at the beginning of the report by form number. Card totals for the input are printed at the end of the report.

Program TIC105 – Employer Conversion Input Edit

001 FIRST NATIONAL BANK OF AMERICA										PAGE	2	
TIME INVESTMENT SYSTEM EMPLOYER CONVERSION INPUT EDIT										08-911		
EMPLOYER-NUMBER	FORM	CARD	2	3	4	5	6	7	8	FIELD-NAME	ERROR-MESSAGE	ERR
0000006771	17	00		0000	0000			EMPL	SHORT NAME	1700	017	001
										1700	017	004
	17	01	000010OFFICER011020880000				987654321					
0000006772	17	00		0000	0000			ADMIN	ANTHONY	1700	017	001
										1700	017	004
	17	01	000010OFFICER011020880000			123456789						
0000006773	17	00		0000	0000			FIRST	STATE BK	1700	017	001
1700			017		004							
	17	01	000010OFFICER011020880000			983723000						
0000006774	17	00		0000	0000			THIRD	NATIONAL	1700	017	001
										1700	017	004
	17	01	000010OFFICER011020880000			974100001						
0000123471	17	00		0000	0000			EMPL	SHORT NAME	1700	017	001
										1700	017	004
	17	01	000010OFFICER011020880000			888432121						
0000134541	17	00		0000	0000			EMPL	SHORT NAME	1700	017	001
										1700	017	004
	17	01	000010OFFICER011020880000			432454321						
0000134771	17	00		0000	0000			EMPL	SHORT NAME	1700	017	001
										1700	017	004
	17	01	000010OFFICER011020880000			543333321						

08-911 – Employer Conversion Input Edit (Details Page)

Heading Descriptions

Employer-number Employer Number. Employer's assigned identification number.

Form Nbr Form Number.

Card Nbr Card Number.

(Card Data)	Card Positions 26 through 80. These 55 positions contain the remaining fields of the master conversion input.
Field-name	Field Name. Form and card in error.
Error-message	Form Number. An asterisk (*) before the error code indicates a problem that must be corrected. If no asterisk is present, there is a minor error and no correction is necessary. Only the records without an asterisk are accepted by the system to be processed further.
Err	Error Code Number. Use this code with the field and form numbers, and refer to the error message list at the beginning of the report to determine the error.

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TIME INVESTMENT SYSTEM	EMPLOYER CONVERSION INPUT EDIT	08-911	
		3	
		1	
** TOTALS **			
	-----EMPLOYER-INPUT-----		
	TOTAL-CARDS	NEW-EMPLOYERS	
GENERATED	0		
ENTERED	14	7	0
DUPLICATE	0		
REJECTED	0	0	0
ACCEPTED	14	7	0

08-911 - Employer Conversion Input Edit (Totals Page)

Heading Descriptions

Total Cards	Total Cards. Number of cards input, generated, rejected, accepted, number of duplicate cards.
New-employers	Total New Employers' Records.

08-912 – Employer Conversion

Purpose This report lists the total number of employer records that were added to the Employer File.

Program TIC110 – Employer File Conversion

01-28-1989	001 FIRST NATIONAL BANK OF AMERICA	PAGE	1
TIME INVESTMENT	EMPLOYER CONVERSION		08-912
TOTAL EMPLOYER RECORDS	1		

08-912 – Employer Conversion

Heading Descriptions

Total Employer Records Total Employer Records.

Files

See the Application Files chapter of *Reference Guide 2* for additional files used in the conversion (and daily processing) of Time Investment. Use the following files for *conversion processing only*.

TI-CRDCFIL – Conversion Control Card File

The Conversion Control Card File contains the control cards that are used in programs TIC100 (Customer File Conversion), TIC140 (Master File Conversion), and TIC160 (Miscellaneous Conversion).

File Statistics

File Type	Card	
Access Method	Sequential	
External Name	TICRDC	
Record Name	Library Name	Record Length
TICRDC-RECORD	None	0080 Bytes

TICRDC-RECORD – Conversion Control Card Record

The Card Record is used by various programs as a method of indicating input and output formats. Format of TICRDC-RECORD varies depending on the program being run.

TI-CRDIFIL – Conversion Input Card File

The Conversion Input Card File can be on cards, disk, or tape. This file contains user-generated input and is used by programs TIC040 (Transaction Conversion Edit and Sort), TIC060 (Conversion Sort), TIC080 (Customer Conversion Input Edit), and TIC120 (Master Conversion Input Edit). The card file also contains the control card necessary in each of these programs.

File Statistics

File Type	Card	
Access Method	Sequential	
External Name	TICRDI	
Record Name	Library Name	Record Length
TICRDI-RECORD	None	0080 Bytes

TICRDI-RECORD – Conversion Input Card Record

The Card Record is used by various programs as a method of indicating input and output formats. Format of TICRDI-RECORD varies depending on the program being run.

TI-DSKCFIL – Conversion Transaction Disk File

The Conversion Transaction Disk File can be on cards, disk, or tape. This file contains user-generated input. Information for this file is entered through the conversion transaction input only. The Conversion Transaction File is used by program TIC040 (Transaction Conversion Edit and Sort) for the Transaction File conversion.

File Statistics

File Type	Disk	
Access Method	Sequential	
External Name	TIDSKC	
Record Name	Library Name	Record Length
TIDSKC-RECORD	TISFM20	0080 Bytes

TIDSKC-RECORD – Conversion Transaction Disk Record

This record is identical to TIFM20-RECORD. Refer to the description of TI-CRDOFIL in the Application Files chapter of *Reference Guide 2* for a description of this record.

TI-DSKIFIL – Conversion Input Disk File

The Conversion Input Disk File can be on cards, disk, or tape. This file is input and sorted by TIC060 (Conversion Sort), from which the Sorted Conversion Output File is created.

File Statistics

File Type	Disk	
Access Method	Sequential	
External Name	TIDSKI	
Record Name	Library Name	Record Length
TIDSKI-RECORD	TISFM20	0080 Bytes

TIDSKI-RECORD – Conversion Input Disk Record

This record is identical to TIFM20-RECORD. Refer to the description of TI-CRDOFIL in the Application Files chapter of *Reference Guide 2* for a description of this record.

TI-DSKOFIL – Customer Conversion Input Disk File

The Customer Conversion Input Disk File can be on disk or tape. This file is created in TIC060 (Conversion Sort) and edited by TIC080 (Customer Conversion Input Edit) and TIC120 (Master Conversion Input Edit).

File Statistics

File Type	Disk	
Access Method	Sequential	
External Name	TIDSKO	
Record Name	Library Name	Record Length
TIDSKO-RECORD	TISFM20	0080 Bytes

TIDSKO-RECORD – Customer Conversion Input Disk Record

This record is identical to TIFM20-RECORD. Refer to the description of TI-CRDOFIL in the Application Files chapter of *Reference Guide 2* for a description of this record.

TI-EDCDFIL – Edited Customer Conversion Disk File

The Edited Customer Conversion Disk File can be disk or tape. This file is created in TIC080 (Customer Conversion Input Edit) and is used as input in TIC100 (Customer File Conversion) to create the Customer File.

File Statistics

File Type	Disk	
Access Method	Sequential	
External Name	TIEDCD	
Record Name	Library Name	Record Length
TIEDCD-RECORD	TISFM20	0080 Bytes

TIEDCD-RECORD – Edited Customer Conversion Disk Record

This record is identical to TIFM20-RECORD. Refer to the description of TI-CRDOFIL in the Application Files chapter of *Reference Guide 2* for a description of this record.

TI-EDCTFIL – Edited Customer Conversion Tape File

The Edited Customer Conversion Tape File can be on disk or tape. This file is created in TIC080 (Customer Conversion Input Edit) and is used as input in TIC100 (Customer File Conversion) to create the Customer File.

File Statistics

File Type	Tape	
Access Method	Sequential	
External Name	TIEDCT	
Record Name	Library Name	Record Length
TIEDCT-RECORD	TISFM20	0080 Bytes

TIEDCT-RECORD – Edited Customer Conversion Tape Record

This record is identical to TIFM20-RECORD. Refer to the description of TI-CRDOFIL in the Application Files chapter of *Reference Guide 2* for a description of this record.

TI-EDMDFIL – Edited Conversion Master Disk File

The Edited Conversion Master Disk File can be on disk or tape. This file is created by TIC120 (Master Conversion Input Edit). The Edited Conversion Master Disk File, along with the Edited Transaction File created in TIC040 (Transaction Conversion Edit and Sort), is used as input to TIC140 (Master File Conversion), for the Master File Conversion. It is also used as input to TIC160 (Miscellaneous Conversion).

File Statistics

File Type	Disk	
Access Method	Sequential	
External Name	TIEDMD	
Record Name	Library Name	Record Length
TIEDMD-RECORD	TISFM20	0080 Bytes

TIEDMD-RECORD – Edited Conversion Master Disk Record

This record is identical to TIFM20-RECORD. Refer to the description of TI-CRDOFIL in the Application Files chapter of *Reference Guide 2* for a description of this record.

TI-EDMTFIL – Edited Conversion Master Tape File

The Edited Conversion Master Tape File can be on disk or tape. This file is created by TIC120 (Master Conversion Input Edit). The edited Master Conversion File, along with the Edited Transaction File created in TIC040 (Transaction Conversion Edit and Sort), is used as input to TIC140 (Miscellaneous Conversion), for the Master File Conversion. It is also used as input to TIC160 (Miscellaneous Conversion).

File Statistics

File Type	Tape	
Access Method	Sequential	
External Name	TIEDMT	
Record Name	Library Name	Record Length
TIEDMT-RECORD	TISFM20	0080 Bytes

TIEDMT-RECORD – Edited Conversion Master Tape Record

This record is identical to TIFM20-RECORD. Refer to the description of TI-CRDOFIL in the Application Files chapter of *Reference Guide 2* for a description of this record.

TI-TAPCFIL – Conversion Transaction Tape File

The Conversion Transaction Tape File can be on cards, disk, or tape. This file contains user-generated input. Information for this file is entered through conversion transaction input only. The conversion transaction file is used by TIC040 (Transaction Conversion Edit and Sort) for the Transaction File conversion.

File Statistics

File Type	Tape	
Access Method	Sequential	
External Name	TITAPC	
Record Name	Library Name	Record Length
TITAPC-RECORD	TISFM20	0080 Bytes

TITAPC-RECORD – Conversion Transaction Tape Record

This record is identical to TIFM20-RECORD. Refer to the description of that record for additional information.

TI-TAPIFIL – Conversion Input Tape File

The Conversion Input Tape File can be on cards, disk, or tape. This file is sorted by TIC060 (Conversion Sort) from which the sorted Conversion Output File is created.

File Statistics

File Type	Tape	
Access Method	Sequential	
External Name	TITAPI	
Record Name	Library Name	Record Length
TITAPI-RECORD	TISFM20	0080 Bytes

TITAPI-RECORD – Conversion Input Tape Record

This record is identical to TIFM20-RECORD. Refer to the description of that record for additional information.

TI-TAPOFIL – Customer Conversion Output Tape File

The Customer Conversion Output Tape File can be on disk or tape. This file is created in TIC060 (Conversion Sort) and edited by TIC080 (Customer Conversion Input Edit) and TIC120 (Master Conversion Input Edit).

File Statistics

File Type	Tape	
Access Method	Sequential	
External Name	TITAPO	
Record Name	Library Name	Record Length
TITAPO-RECORD	TISFM20	0080 Bytes

TITAPO-RECORD – Customer Conversion Output Tape Record

This record is identical to TIFM20-RECORD. Refer to the description of that record for additional information.

TI-TRNDFIL – Edited Conversion Transaction Disk File

The Edited Conversion Transaction Disk File is created by TIC040 (Transaction Conversion Edit and Sort), using the conversion Transaction File. The edited conversion transaction file is used by TIC140 (Master File Conversion) to convert the Time Investment Master File and Transaction History.

File Statistics

File Type	Disk	
Access Method	Sequential	
External Name	TITRND	
Record Name	Library Name	Record Length
TITRND-RECORD	TISFM20	0080 Bytes

TITRND-RECORD – Edited Conversion Transaction Disk Record

This record is identical to TIFM20-RECORD. Refer to the description of that record for additional information.

TI-TRDCFIL – Conversion Transaction Description File

The Conversion Transaction Description File is created by one of the following programs, depending on the Time Investment release at your site or if your institution is converting from an existing application.

- TIC140 – Master File Conversion
- TIX820 – Time Investment 8.1 to 8.2 Conversion
- TIX821 – Time Investment 8.0 to 8.2 Conversion

File Statistics

File Type	Disk	
Access Method	Sequential	
External Name	TITRDC	
Record Name	Library Name	Record Length
TITRDC-RECORD	TISTRDC	Variable

TITRDC-RECORD – Conversion Transaction Description Record

The following record description shows the format for the Conversion Transaction Description Record.

Field Name	Level	Mode	Picture	Displacement	
TITRDC-RECORD	01	R		1	V
Conversion Transaction Description Record.					
TITRDC-ORGX	03	C	X(06)	1	6
Organization ID.					
TITRDC-REC-CODE	03	C	X(03)	7	9
Record Code. First three characters of the record ID.					
TITRDC-BIN-ID	03	N	S9(04)	10	11
Binary ID. Not used for load format.					
TITRDC-PHY-KEY-LEN	03	N	S9(04)	12	13
Key Length. Length of the primary record key.					
TITRDC-PHY-REC-LEN	03	N	S9(04)	14	15
Record Length. Record length (including key).					
TITRDC-REC-AREA	03	G		16	V
Record Area. Record image area.					

Field Name	Level	Mode	Picture	Displacement
TITRDC-REC-AREA-R	05	C	X(01)	16 V

OCCURS 1 TO 2000 TIMES DEPENDING ON TITRNC-PHY-REC-LEN. The actual record. Copybook TTITRN is used to format this image area. The length of the record depends on TITRNC-PHY-REC-LEN. Refer to *Reference Guide 2* for a detailed description of the API TRN Record.

TI-TRNTFIL – Edited Conversion Transaction Tape File

The Edited Conversion Transaction Tape File is created by TIC040 (Transaction Conversion Edit and Sort) using the conversion Transaction File. The edited conversion Transaction File is used by TIC140 (Master File Conversion) to convert the Time Investment Master File and transaction history.

File Statistics

File Type	Tape	
Access Method	Sequential	
External Name	TITRNT	
Record Name	Library Name	Record Length
TITRNT-RECORD	TISTRNT	0080 Bytes

TITRNT-RECORD – Edited Conversion Transaction Tape Record

This record is identical to TIFM20-RECORD. Refer to the description of that record for additional information.

This chapter lists the processing steps for migrating from your current release of Infopoint Time Investment to Time Investment 8.3. In addition, this chapter contains the documentation for programs and reports associated with migration.

Note: Before beginning the migration process, you must complete all of the steps in the Installation Processing chapter of this guide.

Migration Processing

This section lists the processing steps for migrating to more current release of Infopoint Time Investment. Steps are provided to assist you in migrating from:

- Time Investment 8.1 to Time Investment 8.3
- Time Investment 8.2 to Time Investment 8.3
- Time Investment 8.3.1 to Time Investment 8.3.2
- Time Investment 8.3.4 to Time Investment 8.3.5

Migrating from 8.1 to 8.3

This section lists the steps involved in preparing for migration from Time Investment 8.1 to Time Investment 8.3.

Step 1

Run MID800 to back up your existing MICM files.

Step 2

Run TIX500 (MICM 8.2 Conversion).

Note: This step is required only if you are running MICM 5.0.

This program converts necessary MICM parameters to the new MICM 5.0 record. The converted record is MICM Record 2013 (Transaction Code Parameters) converted from MICM Record 0326.

TIX500 reads MIMAST and converts Record 0326 to Record 2013 for application 08 and 98. A control card allows you to create Record 2013 without deleting Record 0326. It is recommended that you create Record 2013 first and then delete Record 0326 in a separate run *after* you have determined that your migration is successful and you no longer need those records. One control card per institution is needed.

Step 3

Run TIX510 (MICM 8.3 Conversion).

This program migrates the necessary MICM parameters to the new format used by Time Investment 8.3. Affected records are:

- 3500 – Time Investment Institution Parameters Record
- 3501 – Time Investment Type Defaults Record
- 3502 – Time Investment Type Processing Parameters Record
- 3503 – Time Investment Penalty Routines Record
- 3504 – Time Investment Interest Rate Tables Record
- 3507 – Time Investment Service Charge Parameters Record

Step 4

Establish API Files (VSAM environment only).

Run TIVSMDEF to define and initialize the Time Investment VSAM API files or run TIVSMLD to define and initialize the Time Investment VSAM API files to allow for load processing.

Step 5 **Run TIX820 (File Conversion).**
This program migrates the Time Investment 8.1 files into their revised 8.3 format.

Step 6a **Run TIR360 (Pointer/Account Numbers Record Verification).**
This program produces a list of discrepancies between the customer pointers and the Total Record – Number.

Step 6b **Run TIR380 (Rebuild Account Number Record).**
This program rebuilds the Account Number Records.

Step 7 **Run TIX020 (Reorg Balance Migration).**
This program initializes the new Reorg Balance field for records on the Master File.

Step 8 **Run TIVSMBKP (File Backup).**
This JCL executes a Runtime Components utility program that backs up the Time Investment 8.3 records. Other utility programs may be used instead of this one.

Migrating from 8.2 to 8.3

Process the following programs and information in the order listed.

Step 1 **Run MID800 to back up your existing MICM files.**

Step 2 **Run TIX510 (MICM 8.3 Conversion).**
This program migrates the necessary MICM parameters to the new format used by Time Investment 8.3. Affected records are:

- 3500 – Time Investment Institution Parameters Record
- 3501 – Time Investment Type Defaults Record
- 3502 – Time Investment Type Processing Parameters Record
- 3503 – Time Investment Penalty Routines Record
- 3504 – Time Investment Interest Rate Tables Record
- 3507 – Time Investment Service Charge Parameters Record

Step 3 **Run TIX520 (MICM 8.3.1 Conversion).**
This program initializes the new amount code to a space on MICM Record 3504 (Time Investment Interest Rate Tables).

Step 4 **Establish API Files (VSAM environment only).**
Run TIVSMDEF to define and initialize the Time Investment VSAM API files or run TIVSMLD to define and initialize the Time Investment VSAM API files to allow for load processing.

Step 5 **Run TIX010 (File Conversion).**
This program migrates the Time Investment 8.2 files into their revised 8.3 format.

Step 6 **Run TIX020 (Reorg Balance Migration).**
This program initializes the new Reorg Balance field for the records on the Master File.

Step 7 **Run TIVSMBKP (File Backup).**
This JCL executes a Runtime Components utility program that backs up the Time Investment 8.3 records. Other utility backups may be used instead of this one.

Migrating from 8.3.1 to 8.3.2

Process the following programs and information in the order listed.

Step 1 **Run TIX030 (Time Investment 8.3.1 to 8.3.2 Migration).**
This program initializes the API records in the 8.3.2 format.

Step 2 **Run TIVSMBKUP (File Backup).**
This JCL executes a Runtime Components utility program that backs up the Time Investment 8.3 records. Other utility backups may be used instead of this one.

Step 3 **Run MID800 to backup your existing MICM files.**

Step 4 **Run TIX520 (MICM 8.3.1 Conversion).**
This program initializes the new amount code to a space on MICM Record 3504 (Time Investment Interest Rate Tables).

Migrating from 8.3.4 to 8.3.5

Process the following programs and information in the order listed.

Step 1 **Run TIX040 (Time Investment 8.3.4 to 8.3.5 Migration).**
This program initializes the API records in the 8.3.5 format.

Step 2 **Run TIVSMBKUP (File Backup).**
This JCL executes a Runtime Components utility program that backs up the Time Investment 8.3 records. Other utility backups may be used instead of this one.

Programs

TIX010 – Time Investment 8.2 to 8.3.2 Migration

This program is used to convert the Time Investment 8.2 API records to the 8.3.2 version.

Note: Be sure to back up the 8.2 API records using program BIS861B from Runtime Components. In addition, reassemble the API control tables using the Time Investment 8.3 definitions before executing this program.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
ASG	TIASG-RECORD	Assignment/Caution Record
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
INT	TIINT-RECORD	Interest Payment History Record
IRA	TIIRA-RECORD	IRA/Keogh Record
LOG	TILOG-RECORD	Log Record
MST	TIMST-RECORD	Account Master Record
PAY	TIPAY-RECORD	Customer Payout History Record
RAT	TIRAT-RECORD	Rate Change History Record
TA1	TITA1-RECORD	Total Record – Amount
TA2	TITA2-RECORD	Total Record – Number
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
BIPUTIL	Backup Utility	Input	Tape	Sequential	Variable
PRNTER	Print File	Output	Printer	Sequential	133

Reports

Loaded Records by Record Type (from Runtime Components)

Control Card

The control card is required.

Columns	Size	Description
01 – 04	4	Application ID. Valid entry is IPTI .
05 – 05	1	Blank.
06 – 08	3	API external record code. Valid entry is BNK .
09 – 09	1	Blank.
10 – 17	8	User ID. Valid entry is INFOPNT .
18 – 18	1	Blank.
19 – 20	2	Language Code. Valid entry is EN .
21 – 30	10	Blank.
31 – 31	1	Trace switch. Valid entries are: 0 No trace. 1 Trace.
32 – 34	3	Blank.
35 – 35	1	Media switch. Valid entries are: 0 Disk. 1 Tape (VSE only).
Note: BITAPE label is required.		
36 – 80	45	Not used. Must be blanks.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	No control card was loaded.
0002	Application ID on the control card is invalid.
0003	API external record code on the control card is invalid.
0004	User ID on the control card is invalid.

Code	Description
0005	Trace switch on the control card is invalid.
0006	Media switch on the control card is invalid.
0007	OPEN failed on BIPRPT.
0008	OPEN failed on TP4.
0009	CLOSE failed on TP4.
0010	CLOSE failed on BIPRPT.
0011	READ failed on TP4.
0012	CALL failed on BISDBS.
0017	LOCK failed on BISDBS.
0018	WRITE failed on TP4.
0019	Invalid return code for BICRINFO.
0020	Record not available.
0021	Record is not defined as VSAM.
0022	BIPMSG-STAT is not equal to '00'.
0023	BIPDAT-STAT is not equal to '00'.
0024	GLOBAL CLOSE failed on BISDBS.
0025	GLOBAL COMMIT failed on BISDBS.

TIX020 – Time Investment 8.3 Re-organization Balance Migration

This program is used to re-organize balance file migration for the 8.3 version of Time Investment.

Note: Be sure to back up the 8.3 Account Master Record using program BIS861B from Runtime Components.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
AVL	TIAVL-RECORD	TDOA Availability Record
MST	TIMST-RECORD	Account Master Record
TRN	TITRN-RECORD	Transaction History Record

Files None

Reports Loaded Records by Record Type (from Runtime Components)

Control Card None

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	OPEN failed on MST.
0002	No MST input found.
0003	READ failed on TRN.
0004	READ failed on AVL
0005	WRITE failed on MST.

TIX030 – Time Investment 8.3.1 to 8.3.2 Migration

This program is used to migrate from Time Investment version 8.3.1 to the 8.3.2 version.

Note: Be sure to back up the 8.3.1 API records using program BIS861B from Runtime Components.

The record sizes have not changed; however, a reserved field was reformatted to add additional fields for the TIRENEW transaction.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
ASG	TIASG-RECORD	Assignment/Caution Record
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
INT	TIINT-RECORD	Interest Payment History Record
IRA	TIIRA-RECORD	IRA/Keogh Record
LOG	TILOG-RECORD	Log Record
MST	TIMST-RECORD	Account Master Record
PAY	TIPAY-RECORD	Customer Payout History Record
RAT	TIRAT-RECORD	Rate Change History Record
TA1	TITA1-RECORD	Total Record – Amount
TA2	TITA2-RECORD	Total Record – Number
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
BIPUTIL	Backup Utility	Input	Tape	Sequential	Variable
PRNTER	Print File	Output	Printer	Sequential	133

Reports

Loaded Records by Record Type (from Runtime Components)

Control Card

The control card is required.

Columns	Size	Description
01 – 04	4	Application ID. Valid entry is IPTI .
05 – 05	1	Blank.
06 – 08	3	API external record code. Valid entry is BNK .
09 – 09	1	Blank.
10 – 17	8	User ID. Valid entry is INFOPNT .
18 – 18	1	Blank.
19 – 20	2	Language code. Valid entry is EN .
21 – 30	10	Blank.
31 – 31	1	Trace switch. Valid entries are: 0 No trace. 1 Trace.
32 – 32	1	Blank.
33 – 33	1	Media switch. Valid entries are: 0 Disk. 1 Tape (VSE only).
Note: BITAPE label is required.		
32 – 80	47	Not used. Must be blanks.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	No control card was loaded.
0002	Application ID on the control card is invalid.
0003	API external record code on the control card is invalid.
0004	User ID on the control card is invalid.

Code	Description
0005	Trace switch on the control card is invalid.
0006	Media switch on the control card is invalid.
0007	OPEN failed on BIPRPT.
0008	OPEN failed on TP4.
0009	CLOSE failed on TP4.
0010	CLOSE failed on BIPRPT.
0011	GLOBAL COMMIT failed BISDBS.
0012	GLOBAL CLOSE failed BISDBS.
0013	READ failed on TP4.
0014	CALL failed on BISDBS.
0015	LOCK failed on BISDBS.
0016	WRITE failed on TP4.
0017	Invalid return code for BIPINFO.
0018	Record not available.
0019	Record is not defined as VSAM.
0020	BIPMSG-STAT is not equal to '00'.
0021	BIPDAT-STAT is not equal to '00'.
0022	Invalid BIPMSG status.

TIX040 – Time Investment 8.3.4 to 8.3.5 Migration

This program is used to migrate from Time Investment 8.3.4 to 8.3.5.

Note: Be sure to back up the 8.3.4 API records using program BIS861B from Runtime Components.

The record sizes have not changed; however, reserved fields were renamed and used for year-end reporting.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
ASG	TIASG-RECORD	Assignment/Caution Record
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
INT	TIINT-RECORD	Interest Payment History Record
IRA	TIIRA-RECORD	IRA/Keogh Record
LOG	TILOG-RECORD	Log Record
MST	TIMST-RECORD	Account Master Record
PAY	TIPAY-RECORD	Customer Payout History Record
RAT	TIRAT-RECORD	Rate Change History Record
TA1	TITA1-RECORD	Total Record – Amount
TA2	TITA2-RECORD	Total Record – Number
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
BIPUTIL	Backup Utility	Input	Tape	Sequential	Variable
PRNTER	Print File	Output	Printer	Sequential	133

Reports

Loaded Records by Record Type (from Runtime Components)

Control Card

The control card is required.

Columns	Size	Description
01 – 04	4	Application ID. Valid entry is IPTI .
05 – 05	1	Blank.
06 – 08	3	API external record code. Valid entry is BNK .
09 – 09	1	Blank.
10 – 17	8	User ID. Valid entry is INFOPNT .
18 – 18	1	Blank.
19 – 20	2	Language code. Valid entry is EN .
21 – 30	10	Blank.
31 – 31	1	Trace switch. Valid entries are: 0 No trace. 1 Trace.
32 – 32	1	Blank.
33 – 33	1	Media switch. Valid entries are: 0 Disk. 1 Tape (VSE only).
Note: BITAPE label is required.		
32 – 80	47	Not used. Must be blanks.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	No control card was loaded.
0002	Application ID on the control card is invalid.
0003	API external record code on the control card is invalid.
0004	User ID on the control card is invalid.

Code	Description
0005	Trace switch on the control card is invalid.
0006	Media switch on the control card is invalid.
0007	OPEN failed on BIPRPT.
0008	OPEN failed on TP4.
0009	CLOSE failed on TP4.
0010	CLOSE failed on BIPRPT.
0011	GLOBAL COMMIT failed BISDBS.
0012	GLOBAL CLOSE failed BISDBS.
0013	READ failed on TP4.
0014	CALL failed on BISDBS.
0015	LOCK failed on BISDBS.
0016	WRITE failed on TP4.
0017	Invalid return code for BIPINFO.
0018	Record not available.
0019	Record is not defined as VSAM.
0020	BIPMSG-STAT is not equal to '00'.
0021	BIPDAT-STAT is not equal to '00'.
0022	Invalid BIPMSG status.

TIX500 – MICM Conversion

Purpose

This program creates a new MICM Record 2013 (Transaction Code Parameters) from MICM Record 0326 for applications '08' (external transactions) and '98' (internal transactions).

A control card indicates if records are being added or deleted. Complete one control card for each institution processed. Multiple control cards are allowed.

Delete the old records in a separate run *after* you have determined that the new records are converted and the old records are no longer needed.

A report prints with one page for each institution processed. Each control card is listed with messages for each error detected or processing option selected (if the control card is error free).

API MICM Records

Record Code	Ext Record Code	Name	Description
0326	M72	MI0326-RECORD	Transaction Code Parameters Record
1001	M74	MI1001-RECORD	Institution Information Record
2013	M13	MI2013-RECORD	Transaction Code Parameters Record

API Application Records

None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD	Control Card Input File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
PRINTER	Printer File	Output	Printer	Sequential	133

Reports

08-500 – TI 8.3 Conversion Report

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 05	3	Institution number.

Columns	Size	Description
06 – 13	8	Form numbers to delete or add. Valid entries are 2013 (to add) or 0326 (to delete) for each institution. Only two forms per card are allowed. However, processing stops at either a blank form or at the second (or last) occurrence in a card. No processing code is required, since the function allowed for each form is unique. (For example, enter 2013 to create MICM Record 2013; enter 0326 to delete MICM Record 0326 for applications '08' and '98').
22 – 80	67	Not used. Must be blanks.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	OPEN failed on MIMAST.
0002	START failed on MICM Record 0326.
0003	READ NEXT failed on MICM Record 0326.
0004	ADD failed on MICM Record 2013.
0005	START failed on MICM Record 0326.
0006	READ NEXT failed on MICM Record 0326.
0007	WRITE failed on MICM Record 0326.
0008	CLOSE failed on MIMAST.

TIX510 – MICM 8.3 Conversion

Purpose	This program creates new MICM master file records in the format needed for the 8.3 release of Time Investment. A control card indicates which form numbers are to be created.																																																										
API MICM Records	<table border="1"> <thead> <tr> <th>Record Code</th><th>Ext Record</th><th>Name</th><th colspan="3">Description</th></tr> </thead> <tbody> <tr> <td>1001</td><td>M74</td><td>MI1001-RECORD</td><td colspan="3">Institution Information Record</td></tr> <tr> <td>3500</td><td>M00</td><td>MI3500-RECORD</td><td colspan="3">Time Investment Institution Parameters Record</td></tr> <tr> <td>3501</td><td>M01</td><td>MI3501-RECORD</td><td colspan="3">Time Investment Type Defaults Record</td></tr> <tr> <td>3502</td><td>M02</td><td>MI3502-RECORD</td><td colspan="3">Time Investment Type Processing Parameters Record</td></tr> <tr> <td>3503</td><td>M03</td><td>MI3503-RECORD</td><td colspan="3">Time Investment Penalty Routines Record</td></tr> <tr> <td>3504</td><td>M04</td><td>MI3504-RECORD</td><td colspan="3">Time Investment Interest Rate Tables Record</td></tr> <tr> <td>3506</td><td>M06</td><td>MI3506-RECORD</td><td colspan="3">Time Investment Title Record</td></tr> <tr> <td>3507</td><td>M07</td><td>MI3507-RECORD</td><td colspan="3" rowspan="3">Time Investment Service Charge Parameters Record</td></tr> </tbody> </table>					Record Code	Ext Record	Name	Description			1001	M74	MI1001-RECORD	Institution Information Record			3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record			3501	M01	MI3501-RECORD	Time Investment Type Defaults Record			3502	M02	MI3502-RECORD	Time Investment Type Processing Parameters Record			3503	M03	MI3503-RECORD	Time Investment Penalty Routines Record			3504	M04	MI3504-RECORD	Time Investment Interest Rate Tables Record			3506	M06	MI3506-RECORD	Time Investment Title Record			3507	M07	MI3507-RECORD	Time Investment Service Charge Parameters Record		
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Reports	08-510 – TI 8.3 MICM Conversion Report																																																										

Control Card The control card is required. Complete one control card for each institution processed.

Columns	Size	Description
01 – 02	2	Manager number. Valid entry is 00 .
03 – 05	8	Institution number.
06 – 29	24	Form number. Four-digit form number to be added, converted, or deleted for each institution. Up to 6 forms are allowed on the card; however, processing stops at a blank card.
30 – 80	51	Not used.

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	OPEN failed on MIMAST.
0002	START BROWSE failed on MICM Record 3500.
0003	READ NEXT failed on MICM Record 3500.
0004	WRITE failed on MICM Record 3500.
0005	START BROWSE failed on MICM Record 3501.
0006	READ NEXT failed on MICM Record 3501.
0007	WRITE failed on MICM Record 3501.
0008	START BROWSE failed on MICM Record 3502.
0009	READ NEXT failed on MICM Record 3502.
0010	WRITE failed on MICM Record 3502.
0011	START BROWSE failed on MICM Record 3503.
0012	READ NEXT failed on MICM Record 3503.
0013	WRITE failed on MICM Record 3503.
0014	START BROWSE failed on MICM Record 3504.
0015	READ NEXT failed on MICM Record 3504.
0016	WRITE failed on MICM Record 3504.
0017	START BROWSE failed on MICM Record 3507.
0018	READ NEXT failed on MICM Record 3507.
0019	WRITE failed on MICM Record 3507.
0020	CLOSE failed on MIMAST.

TIX520 – MICM 8.3.1 Conversion

Purpose	This program reads MICM Record 3504 (Time Investment Interest Rate Table) and adds a new Amount Code field to the record. The control card indicates the institutions and MICM record, which is always '3504'.																																		
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Reports	08-520 – Time Investment 8.3.1 MICM Conversion Report																																		
Control Card	The control card is required.																																		
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Code	Description
0003	READ NEXT failed on MICM Record 3504.
0004	WRITE failed on MICM Record 3504.
0005	CLOSE failed on MIMAST.

TIX820 – Time Investment 8.1 to 8.3 Conversion

Purpose This program is used to convert the Time Investment 8.1 permanent files into the Time Investment 8.3 API environment.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
ASG	TIASG-RECORD	Assignment/Caution Record
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
INT	TIINT-RECORD	Interest Payment History Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record
PAY	TIPAY-RECORD	Customer Payout History Record
RAT	TIRAT-RECORD	Rate Change History Record
TA1	TITA1-RECORD	Total Record – Amount
TA2	TITA2-RECORD	Total Record – Number
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
TIBKUP	TI 8.1 Backup File	Input	Tape	Sequential	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable

Name	Description	Opened	Media	Access Mode	Record Length
PRNTER	Printer File	Output	Printer	Sequential	133

Reports 08-920 – TI 8.1 to 8.3 Conversion

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 10	8	Program ID. Valid entry is TIX820 .
11 – 11	1	Access method. Valid entries are: D Database. V VSAM.
12 – 80	69	Not used.

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	Invalid Overflow Record Code on TIBKUP.
0002	System number on control card is invalid.
0003	Program name on control card is invalid.
0004	Access method on control card is invalid.
0005	ADD failed on BNK.
0006	ADD failed on MST.
0007	ADD failed on CST.
0008	ADD failed on ACN.
0009	ADD failed on ASG.
0010	ADD failed on AVL.
0011	ADD failed on EMN.
0012	ADD failed on INT.
0013	ADD failed on IRA.
0014	ADD failed on PAY.
0015	ADD failed on RAT.

Code	Description
0016	ADD failed on TRN.
0017	ADD failed on XRL.
0018	ADD failed on TA1.
0019	ADD failed on TA2.
0020	ADD failed on EMP.
0021	ADD failed on TRD.
0022	Invalid return from SORT.
0023	ADD failed on MST.
0024	READ failed on MST.

TIX822 – Time Investment 8.3 Reg DD Variable Rate TDOA Conversion

Purpose This program is used to calculate the ENP for the current statement period for variable rate TDOA's based on the Availability Records. Once the amount is determined, the Account Master Record is updated.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
AVL	TIAVL-RECORD	Availability Record
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Master Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
PRNTER	Printer File	Output	Printer	Sequential	133

Reports 08-922 – Variable Rate TDOA Reg DD Conversion

Control Card None

Abort Information If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer.

Code	Description
0001	READ failed on BNK.
0002	OPEN failed on MST.
0003	OPEN failed on AVL.
0004	READ NEXT failed on AVL.
0005	REWRITE failed on MST.
0006	READ failed on MST.
0007	CLOSE failed on BNK.
0008	CLOSE failed on MST.
0009	CLOSE failed on AVL.

Reports

The following reports are run during migration processing of Time Investment.

08-920 - TI 8.1 to 8.3 Conversion

Purpose This report lists the number of records converted to the Time Investment 8.3 API environment. The time of day the report is run prints in the report heading. Converted information prints for each institution in Time Investment.

Program TIX820 – Time Investment 8.1 to 8.3 Conversion

02-13-1994										PAGE	1
TIME INVESTMENT										08-920	
TIME 12.25.35											
** FILES RELOADED THIS RUN **											
ISBANK - BANK CONTROL FILE ISMAST - MASTER FILE ISCUST - CUSTOMER FILE ISOVFL - OVERFLOW FILE ISTOTL - TOTALS FILE ISEMPL - EMPLOYER FILE											
INST	CUR-DATE	*** ISBANK ***	*** ISMAST***	*** ISCUST ***	*** ISOVFL ***	*** ISTOTL ***	*** ISEMPL ***				
		*** ISCAPT ***	*** ISACTY ***	*** ISACT2 ***	*** ISACT3 ***	*** ISCRDO***	*** ISEXCP ***				
		*** ISPODX ***	*** ISPROF ***	*** ISRPTA ***	*** ISRPTB ***	*** ISRPTD ***	*** ISRPTJ ***				
		*** ISRPTU ***	*** ISSTMT ***	*** ISYEAR ***							
		LOADED	DROPPED	LOADED	DROPPED	LOADED	DROPPED	LOADED	DROPPED	LOADED	DROPPED
000	2-13-1994	1	0	0	0	0	1	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
001	2-13-1994	1	0	4264	0	1235	0	24557	0	24	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
002	2-13-1994	1	0	1532	0	692	0	16431	0	11	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
TOTAL COUNT		3	0	5796	0	1927	0	40988	0	35	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

08-920 - TI 8.1 to 8.3 Conversion

Heading Descriptions

Files Reloaded This Run Files Reloaded this Run. Files reloaded during this run.

Inst Institution Number.

Cur-date Current Processing Date.

ISBANK Institution Control File.

ISMAST Master File.

ISCUST Customer Control File.

ISOVFL Overflow File.

ISTOTL Total File.

ISEMPL Employer File.

ISCAPT Capture File.

ISACTY Activity File.

ISACT2 Activity 2 File.

ISACT3 Activity 3 File.

ISCRDO Maintenance Input File.

ISEXCP Exceptions File.

ISPODX POD Extract File.

ISPROF Profitability File.

ISRPTA Reports File (from ISD220).

ISRPTB Reports File (from ISD200).

ISRPTD Reports File.

ISRPTJ Reports File for online maintenance (from ISJ200).

ISRPTU Reports File (from ISJ200).

ISSTMT Statement File.

ISYEAR

Reports File for year-end reporting (from ISY050).

Total Count

Total Count. Total number of records dropped or loaded for each category listed above.

08-922 – Variable Rate TDOA Reg DD Conversion

Purpose This report shows the interest earned, but not paid (ENP) for the current statement period for variable rate TDOAs, based on the Availability Records.

Program TIX822 – Time Investment 8.3 Reg DD Variable Rate TDOA Conversion

04-08-1994	002 SECOND NATIONAL BANK OF AMERICA	PAGE	1
TIME INVESTMENT	VARIABLE RATE TDOA REG DD CONVERSION		08-922
ACCOUNT NUMBER	ACCRUALS FOR THIS STATEMENT PERIOD		
000000000009700005	6.80000		
000000000009700013	13.50000		
000000000009700021	60.90000		
000000000009700048	20.80000		
000000000009700056	14.20000		
000000000009700064	4.90000		
000000000009700072	14.00000		
000000000009700080	13.70000		
000000000009700099	7.30000		
000000000009700102	14.30000		
000000000009700110	4.90000		
000000000009700129	25.40000		
000000000009700145	26.80000		
000000000009700153	14.20000		
000000000009700161	13.50000		
000000000009700218	26.60000		
000000000009700226	11.90000		
000000000009700234	11.90000		
000000000009700242	7.70000		
000000000009700250	23.60000		
000000000009700269	17.50000		
000000000009700315	17.90000		
000000000009700331	18.00000		
000000000009700358	18.00000		
000000000009700366	0.40000		
000000000009700382	8.60000		
000000000009700392	10.30000		
000000000009700404	4.70000		
000000000009700412	14.10000		
000000000009700420	9.10000		
000000000009700439	5.70000		
000000000009700447	9.70000		
000000000009700455	6.00000		
000000000009700463	3.50000		
000000000009700501	17.10000		
000000000009700528	14.50000		
000000000009700536	12.10000		
000000000009700544	17.00000		
000000000009700552	17.00000		
000000000009700595	28.00000		
000000000009700609	2.10000		
000000000009700676	4.00000		
000000000009700684	9.60000		
000000000009700692	4.80000		
000000000009700706	9.60000		
000000000009700722	6.00000		
000000000009700730	6.00000		
000000000009700749	11.50000		
000000000009700773	16.60000		
*** VARIABLE RATE TDOAS PROCESSED FOR THIS BANK ***			79
*** TOTAL NUMBER OF VARIABLE RATE TDOAS PROCESSED ***			300

08-922 – Variable Rate TDOA Reg DD Conversion

Heading Descriptions

Account Number	Account Number. Time deposit open account (TDOA) numbers.
Accruals for this Statement Period	ENP calculated for the current statement period.
(Totals)	Totals. Totals are printed by institution, as well as an overall total.

08-930 – Time Investment 8.3.1 to 8.3.2 Migration

Purpose This report shows the API records that have been loaded for migration from Time Investment 8.3.1 to 8.3.2.

Program TIX030 – Time Investment 8.3.1 to 8.3.2 Migration

TIX030 -----LOADED RECORDS BY RECORD TYPE-----					
USER	DATE	TIME	COUNT	DUPS	
INFOPTN	05/02/96	12.23.09			
RECORD CODE	PHYSICAL ID	DBS ORG			
RAD	TIFL01	000000	3	0	
RAF	TIFL02	000000	3	0	
RAL	TIFL03	000000	39	0	
RBB	TIFL04	000000	1	0	
RAK	TIFL05	000000	4	0	
RAA	TIFL08	000000	39	0	
RAX	TIFL10	000000	4	0	
RAZ	TIFL12	000000	4	0	

08-930 – Time Investment 8.3.1 to 8.3.2 Migration

Heading Descriptions

Record Code	Record Code. Internal API record code of the record being loaded.
Physical ID	Physical ID. Physical file identification to which the API record has been loaded.
DBS Org	DBS Organization. Indicates the institution to which the API record belongs.
Count	Count. Number of records counted.
Dups	Duplicates. Number of duplicate records that exist.

08-940 – Time Investment 8.3.4 to 8.3.5 Migration

Purpose	This report shows the API records that have been loaded for migration from Time Investment 8.3.4 to 8.3.5.
Program	TIX040 – Time Investment 8.3.4 to 8.3.5 Migration

```

TIX040 -----LOADED RECORDS BY RECORD TYPE-----
USER      DATE      TIME
INFOPNT   01/03/05  10.45.10
RECORD CODE PHYSICAL ID  DBS ORG      COUNT      DUPS
RAC        TIFL01    000000      1          0
RAD        TIFL01    000000      3          0
RAF        TIFL02    000000      27         0
RAL        TIFL03    000000      37         0
RBB        TIFL04    000000      113        0
RAK        TIFL05    000000      100        0
RAI        TIFL06    000000      5          0
RAJ        TIFL06    000000      25         0

```

08-940 – Time Investment 8.3.4 to 8.3.5 Migration

Heading Descriptions

Record Code	Record Code. Internal API record code of the record being loaded.
Physical ID	Physical ID. Physical file identification to which the API record has been loaded.
DBS Org	DBS Organization. Indicates the institution to which the API record belongs.
Count	Count. Number of records counted.
Dups	Duplicates. Number of duplicate records that exist.

Glossary

abort

Premature termination of a procedure.

account analysis

Procedure in which a customer's accounts are linked together and analyzed for profitability or loss. The more institution services the customer utilizes, the more information that is fed into Profitability, the clearer the picture is for the institution about that customer.

account reconciliation

Process that accounts for the difference in two records by accounting for each item outstanding and bringing the two records into agreement.

accrual base

Option of either a 30-day or an actual-day month that the system uses for interest accrual calculation.

activity recap

Daily summary report of all institution activity.

activity statement

Statement sent to a customer showing the customer's daily, weekly, or monthly activity.

alphanumeric

Set of characters that contains letters, digits, and/or other characters.

ANSI

American National Standards Institute.

application

Time Investment.

assignment

Occurs when an account is used as collateral for a loan or other institution services. Placing an assignment on the account lets all institution personnel know that the accounts may not be paid out until the service is satisfied.

automatic renewal

Account is automatically re-invested for that customer, for the stipulated time period and interest rate.

available balance

Current balance of an account, less holds, less floats.

available funds

Funds available to the customer.

available interest

Interest that a customer has earned and is available for him to withdraw. This term correlates with interest earned not paid.

average collected balance

Collected balances for a given time period added, then, the number of days in the time period divided into the total amount of collected balances, thus giving the average collected balance for that time period.

bank float

Float time that it takes for an item deposited in one institution to be sent to the item's (on-us) institution to clear. The float time involved is from institution to institution clearance time.

batch system

System that does not operate in an online mode.

beneficiary

Recipient that would receive funds upon the death of the customer having the Time Investment account.

binary

Number system that uses '2' as a base and the digits '0' and '1' to define a characteristic, property, or condition.

block, batch, sequence number, sub-sequence number

Terms that coordinate with the 'capture items' part of a system. Items captured are assigned block, batch, sequence number, and sub-sequence numbers for research purposes - a block of work is a group of items, batches of work are subgroups within a block, sequence numbers are numbers assigned to each item in a batch, sub-sequence numbers are a sub-group in a sequence number.

bucket

Portion of computer storage reserved for accumulating data or totals.

capitalization

Occurs when the interest paid is added to the principal resulting in higher earnings. The interest is also added to available interest to be used as penalty free withdrawals.

Capture File

File that contains captured transactions (whether they be MICR-read or a file built into the capture file format) used as input for processing and posting to the system.

caution

Primarily used for watching an account and its activity. In instances of needing to be concerned with the flow of funds through an account (transactions) for institution purposes, the account has a caution placed upon it, segregating it by a code or flag on reports so it is easily recognizable to institution personnel.

class

Secondary method of categorizing accounts within types of accounts. This is a user-defined field.

closed to posting

Occurs when an account is coded to a non-acceptance status for all or certain transactions.

COBOL

Common Business Oriented Language. This is a specific computer language by which business data processing procedures may be precisely described in a standard form.

collateral

An instrument with a monetary value that can be held as security for a loan or other institution services. If the customer is unable to fulfill his financial responsibilities, the collateral may then be used to repay the debt owed to the institution.

collected balance

Current balance of an account, less float.

compounding

Interest earned is moved to a compounding amount field to be used along with the current balance for accruals in TID200.

contributions made after year-end

Contributions made after December 31. Contributions are allowed to the previous year IRA until April 15 of the current year.

correspondent institution

Institution with which your institution has a banking relationship. This relationship could include such services as loan participation, money supply, investment of institution funds, etc.

credit for which float items are generated

Credit that has debit items corresponding to it that are not immediate funds to the institution or customer thus needing float amount/time generated while collection of monies is in process.

current balance

Net results of all debits and credits posted against the account.

customer control number

Each customer is assigned a number that is exclusive to that customer. The customer control number is primarily used for IRA/Keogh processing.

customer float

Float time that is passed on to the customer while the institution is collecting funds deposited from the item's institution.

customer key

Group of characters that identifies a customer. The key consists of the first six positions of the customer's last name, first initial, and a four-position tie breaker.

cutoff statement

Account activity statement sent to a customer on recurring days or months, or periodically. These statements may be sent to the customer on a cycle schedule also. The statement shows all the transactions that affected the account for the statement time period involved.

debit reversal

Reversal of a debit transaction that was in error.

default value

Values that are automatically supplied and used by the system when the required information is not supplied.

disbursement

Amount paid out from an account for such reasons as interest payment, principal payment or an IRA payment.

disk storage

Storage on a rotating disk, which is a direct access device that records data magnetically.

distribution withdrawal

Amount paid out from an IRA/Keogh to the customer as a result of his investment return.

dormant account

Account with little or no activity for a period specified by the institution.

early redemption

Account is closed out before the account reaches maturity. The customer suffers a penalty for early withdrawal.

edit

Rearranging of data or information involving the deletion of unwanted data, the addition of data, or the testing of data.

employer contribution

Contribution made by an employer for an employee's account.

equal payments

Amounts owed to a customer may be paid to him in specified equal payments (same amount of payment each pay period).

external transaction code

Transaction code the system uses externally (printed, written, or encoded on document) to input transactions into the system. This code differentiates between types of transactions. The external transaction code is linked to the internal transaction code during the system processing for transaction posting.

effective date processing

Type of processing which automatically adjusts interest accruals in an account, from the effective date of the transaction.

float

Amount of funds in the process of collection, represented by local or foreign items deposited to one institution but drawn on other institutions.

field

In a record, a specified area used for a type of data, for example, a 6-position area to designate an effective date.

file maintenance

Processing of a permanent file designed to take care of the non-periodic changes within it.

final maturity date

Date on which the certificate matures and monies are due/available to the customer without penalty.

frequency

Specified time in which reports or statements are output by the system.

holding company

Company that is in ownership of institutions. The holding company has responsibility for all institutions owned by that company. Holding companies are normally found in states that do not allow branch banking, thus allowing the holding company to have control over its institutions as an institution would have control over its branches.

insurance contribution

Contribution made from an insurance annuity or an insurance investment that is deposited into an IRA account.

Institution Control Record

Record found in the system that contains the processing days of the institution.

interest

Amount of monies accrued and earned on an account for a period of time depending on the stipulations agreed upon.

interest 1099 form

Form that interest earned is reported to the internal revenue service each year.

interest earned not paid

Interest an account has earned/accrued but has not been paid out to the customer.

interest penalty

Occurs when a person wishes to withdraw an investment before its maturity date. The customer is penalized by law for early withdrawal of funds.

interest per diem

Daily interest amount an account earns or accrues.

interest rate

Annual rate of interest an account is paid or earns.

interface

Common boundary between automatic data processing systems or between parts of a single system.

internal transaction code

Transaction code the system uses internally to process a transaction.

I/O routines

Input-output routines.

IRA

Individual Retirement Account.

issue value

Value of the certificate at the opening of account.

item

Debit or credit instrument or document that represents or causes the movement of monetary values.

justified

Adjusting, arranging, or shifting of digits to the left or right of a field, to fit a prescribed pattern.

Keogh

Individual retirement account for self employed persons.

library

Collection of computer programs and routines available to a computer for the processing of data.

logo screen

Infopoint or the initials of the institution are displayed on the terminal once a transaction has been completed.

Master Information and Control Manager

All processing parameters, institution options, and customer information are stored and maintained in this system. With this system, a customer may have a single customer name and address record linked to an unlimited number of Time Investment accounts.

maintenance

Periodic changes or updates to a file to incorporate changes that have occurred.

mass maintenance

Maintenance to a field or fields applied to a whole group of accounts. Examples of mass maintenance groups are type, branch, institution, dormant, and employee code.

Master File

Collection of related records used in a computer system to store, process, or generate information.

maximum contribution

Maximum amount a person is allowed to contribute to an IRA/Keogh for a particular year.

maximum rate

Maximum interest rate allowed by law for a type of interest-earning account.

mnemonic code

Alphanumeric code which represents the function or purpose of an operation.

negotiable code

Instrument that may be traded, cashed in, or sold, subject to the terms of the contract on the instrument.

NSF

Non-sufficient Funds. When a depositor's balance is inadequate for the institution to pay a check drawn against the account's available balance.

non-deductible

Monies deposited to an IRA that may not be taken as an IRA deduction.

offline

System whose peripheral equipment and devices are not under the control of a central processing unit.

OID

Original Issue Discount certificate. The interest payment frequency is greater than one year. Special reporting is done for these accounts at year-end.

online

System whose peripheral equipment and devices are under the control of a central processing unit, and are integrated with the main flow of transaction processing.

operator ID

Identification of the operator entering data through the terminal. It is used by the system to validate the accessibility of the operator to the online system.

over contribution

Occurs when a customer makes a contribution to his IRA, thus increasing the balance above and beyond his legal limit. The customer is then notified to withdraw the excess amount.

overdraft

Occurs when a customer's account balance goes into a negative status.

partial key data

Information needed to add, inquire or update customer account information. Some of the characters are missing.

passbook instrument

The customer holds a passbook for entry of transactions. The system determines booked versus non-booked transactions. This type of instrument would be in lieu of a statement account.

password

Confidential identification name entered by the operator. This is used by the system to validate accessibility of the operator using online.

payout information

Information concerning funds being paid out to an individual. This includes payment frequency, next payment date, payment amount, and method of payout.

parameters

Constant values through which the user controls system processing.

partial redemption

Occurs when a portion of a certificate is redeemed. The redemption amount affects the current balance of the certificate.

peripheral equipment

Units that operate in conjunction with a computer, and yet are not part of it, such as printers, card readers, etc.

principal

Original dollar amount of an account that is the base for which interest is calculated.

protected

Refers to fields that cannot be altered by the operator.

public funds

Funds in which the depositor or investor is a public entity such as a city or county government account.

purged accounts

Accounts deleted from the file at a prescribed time after the account is closed.

random access

File is accessed through the use of a key. You go directly to the record you want without having to read all others before it. This function is not dependent on the last access of data.

rate change

Occurs when an interest rate changes on a current investment and the account's interest rate is changed to accrue interest at the proper rate.

record

Collection of related fields of data, which relates to one area in a data processing activity.

redemption

Occurs when the certificate has matured and the account is being closed by either reinvestment of funds or cashing the certificate in and receiving the monies from it.

regular contribution

Normal periodic contribution made to an IRA/Keogh, thus adding to the balance of the IRA. This is done by the customer.

reject

Transaction that is unacceptable for processing due to an error in the data submitted.

relational customer

Customer who is allowed to receive information (statements, etc.) about another customer's account.

responsibility accounting

Information gathered for the accounting department to determine cost centers in the institution to provide for accurate accounting costs for institution services and personnel.

reversal

This transaction is processed when a previous transaction needs to be reversed, such as an interest payment.

right justified

Adjusting, arranging, or shifting of digits to the right of a field to fit a prescribed pattern.

rollover contribution

Contribution made into an IRA from a rollover from another IRA. The amount is rolled over into the IRA.

routing-transit number

Number assigned by the Federal Reserve System for each individual institution entity for institution identification and item clearing purposes.

safekeeping

Occurs when the institution physically holds/stores personal belongings for a customer per their request.

Savings account

Interest-bearing account earning a certain percentage of interest allowable by law subject to service charges depending on guidelines set by the institution.

SEP

Simplified Employee Pension plan. This plan must be qualified by the government.

sequential

File accessed by reading one record at a time until you reach the record that you need. A sequential read only reads forward, it does not read backward.

serial number

Number encoded or printed on the check for check reconciliation purposes.

service charge

Fee that is assessed to an account for services rendered. The fee is calculated taking into consideration a dollar balance and account activity.

service charge calculation

Calculation whereby accounts are checked to see if they are the criteria for a service charge. The calculation includes such considerations as number of debits, number of credits, account balances, etc.

service chargeable credit

Credit that contains float and a count subject to service charges.

service fee

Flat fee that is assessed an account for services rendered, at a determined time.

signature card index number

Number assigned to an account making it possible through a signature card system to verify a customer's signature. The number gives the location of the account in the file.

simple daily interest calculation

Annual interest rate divided by the number of days in that year (year base), multiplied by the account amount gives the interest amount for one day.

single maturity Certificate of deposit that runs for the term stated on the issue date, and must be redeemed at that time.	unprotected Refers to fields that may be altered by the operator.
snapshot statement Account activity statement that may be requested at any time that includes all activity from the last statement date. The snapshot statement has no effect on the next statement date or the activity shown on that statement.	violation Act of trying to access records online without the appropriate authorization.
source of input Code used to show where the input was originated, thus providing an audit trail and a source of communication if needed.	working storage Chapter of the internal storage reserved for data on which operations are being performed.
statement cycle Stipulated time interval used to control statement printing.	year base Number of days in the year the system uses the interest accrual calculations. The institution has the option of selecting either a 360- or 365-day year.
subroutine Portion of a routine that causes a computer to carry out a well-defined mathematical or logical operation.	
system control record System control record is a record (Institution 000) used to control the system processing.	
tax exempt status Occurs when a customer is exempt from having federal income tax deducted by the institution.	
TDOA Time Deposit Open Account.	
transfer Moving of funds from one account to another.	
type Type differences are the primary method of categorizing accounts with equal parameters.	
type rate change Function whereby maintenance may be input into the system to change an interest rate in a certain type. Upon the effective date of this maintenance the account would begin earning interest at the new rate.	
unmatched reversal Reversal entry could not find a match with the coordinating transaction.	

year base

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