



Time Investment 8.3.5

Reference Guide 1

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Contents

Chapter 1: Introduction

Organization of This Guide	1-1
How to Use This Guide	1-2
Conventions Used in This Guide	1-2
Product Publications	1-3
Related Publications	1-3

Chapter 2: Online Programs

Online Program Flowchart and Description	2-2
Key Parameter Table	2-4
Primary Panel ID Table	2-5
Panel Programs	2-7
TIL151 – Customer New/Maintenance 1	2-8
TIL152 – Customer New/Maintenance 2	2-10
TIL153 – IRA Maintenance	2-12
TIL154 – Customer Purge	2-13
TIL160 – Customer Payout History	2-14
TIL170 – Employer New/Maintenance	2-15
TIL173 – Employer Purge	2-16
TIL201 – Account New/Maintenance 1	2-17
TIL202 – Account New/Maintenance 2	2-18
TIL203 – Account New/Maintenance 3	2-19
TIL204 – Account New/Maintenance 4	2-20
TIL205 – Account New/Maintenance 5	2-21
TIL210 – Account Purge	2-22
TIL211 – Float	2-23
TIL212 – Service Charge History	2-24
TIL213 – Overdraft History	2-25
TIL214 – Balance History	2-26
TIL250 – Assignments	2-27

TIL260 – Reissue CD	2-28
TIL265 – Certificate Renewal	2-29
TIL270 – Required Minimum Distribution	2-30
TIL275 – Forecast Interest/APY	2-31
TIL300 – Statement Copies	2-32
TIL301 – MICM Interface	2-33
TIL310 – Interest Payment History	2-34
TIL320 – Rate Change History	2-35
TIL350 – TDOA Availability	2-36
TIL900 – Customer Profile	2-37
TIL901 – Account Inquiry 1	2-38
TIL902 – Account Inquiry 2	2-39
TIL904 – Closing Value	2-40
TIL905 – Penalty Calculation	2-41
TIL906 – Employer Profile	2-42
TIL907 – Passbook Conversion	2-43
TIL908 – Transaction History Detail (pop-up window)	2-44
TIL909 – Transaction History (one detail line)	2-45
TIL910 – Transaction History (two detail lines)	2-46
TIL911 – Maintenance History	2-47
Function Modules	2-48
Message Area Layouts	2-49
Controls Portion	2-49
Record Portion	2-51
Data Change Portion	2-51
Miscellaneous Data Portion	2-51
TILASG00 – Assignments	2-52
TILAVL00 – Availability	2-55
TILCST00 – Customer Master	2-58
TILCST01 – Customer Profile	2-61
TILCST02 – Customer Purge	2-63
TILEMP00 – Employer Master	2-65
TILEMP01 – Employer Profile	2-67
TILEMP02 – Employer Purge	2-69
TILHST00 – Maintenance History	2-71
TILINT00 – Interest History	2-73
TILIRA00 – IRA Maintenance	2-76
TILMST00 – Account Master	2-78
TILMST01 – Account Purge	2-84
TILMST02 – Reissue Certificate	2-86
TILMST03 – Renewal	2-89
TILMST04 – Interface	2-91

TILPAY00 – Payout History	2-95
TILRAT00 – Rate Change History	2-98
TILTRN00 – Transaction History	2-101
TILXRL00 – Statement Copies	2-104
TILXXX01 – Closing Value	2-107
TILXXX02 – Penalty Calculation	2-111
TILXXX03 – Required Minimum Distribution	2-113
TILXXX04 – Passbook Conversion	2-117
TILXXX05 – Forecast Interest/APY	2-119

Chapter 3: Batch Programs

File Handling	3-2
API VSAM File Structures Table	3-4
Form Specifications	3-5
Form Specifications/Report Cross-reference Table	3-6
Daily Programs	3-8
TID015 – Checkpoint File Initialization	3-8
TID020 – Institution Control File Update	3-9
TID030 – Institution Selector – Selective Processing	3-11
TID035 – Online Maintenance Extract	3-13
TID036 – Online Maintenance Journal	3-16
TID037 – Passbook Transaction Purge	3-18
TID040 – Maintenance Input Sort	3-20
TID060 – New and Maintenance Input Edit	3-22
TID080 – Batch File Maintenance	3-27
TID100 – Capture Listing	3-34
TID110 – Item Deletion	3-38
TID113 – PODX File Reformatter	3-39
TID120 – Transaction Sort	3-40
TID200 – Posting	3-42
TID200 Processing Sections	3-44
TID220 – Activity Posting	3-86
TID240 – Stand-alone Trial	3-88
TID250 – Variable Rate TDOA Trial	3-91
TID260 – Stand-alone Short Trial	3-93
TID300 – Reports Sort	3-96
TID320 – Reports Print	3-99
TID330 – Check Print	3-104
TID340 – Check Journal Reconciliation	3-106
TID350 – Payments Due Register	3-109
TID360 – Report Recap	3-111

TID370 – W-4P Notice of Withholding	3-113
TID380 – ACH Interface	3-115
TID400 – Account Statement	3-117
TID410 – TDOA Statement	3-120
TID440 – Business Statement	3-123
TID800 – Work File Backup	3-125
TID820 – Work File Reload	3-127
TID900 – General Ledger Interface	3-130
Monthly Programs	3-133
TIM200 – Create Monthly Reports File	3-133
TIM300 – Monthly Reports Sort	3-135
TIM320 – Monthly Reports Print	3-137
Request Programs	3-140
TIR020 – Record Reorganization	3-140
TIR030 – Account Purge	3-143
TIR040 – Report Resort Cards Edit	3-146
TIR060 – Report Resort	3-148
TIR080 – Customer Deletion	3-150
TIR100 – Master Mass Maintenance	3-152
TIR120 – Customer Mass Maintenance	3-155
TIR140 – Employer Profile	3-157
TIR160 – Record Dump	3-159
TIR180 – Employer Purge	3-162
TIR190 – Branch/Cost Center Migration	3-164
TIR240 – Audit Confirmations	3-166
TIR260 – Stand-alone Customer Profile	3-169
TIR300 – Social Security Exceptions	3-171
TIR320 – Total Record Maintenance	3-173
TIR340 – Schedule E Report	3-175
TIR360 – Pointer/Account Numbers Record Verification	3-177
TIR380 – Rebuild Account Numbers Record	3-179
TIR540 – International Accounts Report	3-181
TIR820 – Online File Recovery	3-184
TIR830 – Checkpoint/Restart Recovery	3-188
Annual Programs	3-191
TIY020 – 1099 Interest	3-191
TIY030 – 1042S Foreign Person’s U.S. Source Income Subject to Withholding	3-195
TIY040 – 1099 OID Interest	3-198
TIY050 – Create Year-end Work File	3-202
TIY060 – 1099 R	3-205
TIY070 – W-4P Notice of Withholding	3-209
TIY080 – Missing Date of Birth	3-212

TIY090 – 1099 Q	3-214
TIY100 – IRA Disbursement Notices	3-218
TIY110 – IRA Follow-up Disbursement Notices	3-224
TIY120 – IRA Statement of Account/5498 Notices	3-228
TIY130 – ESA Statement of Account/5498 ESA	3-234
TIY140 – Tax ID Number Certification Request	3-240

Index

Introduction

This *Reference Guide* contains the following:

- Online and batch programs
- Files and records used and maintained by Time Investment
- MICM and API Records used by Time Investment

Organization of This Guide

This Reference documentation is divided into 2 guides and consists of 6 chapters. Each guide has a separate index. The table below briefly describes each chapter.

Guide 1

Chapter	Title	Description
1	Introduction	Describes the guide.
2	Online Programs	Describes the online programs specific to Time Investment.
3	Batch Programs	Describes the daily, monthly, and request programs along with descriptions of subroutines and technical procedures.
	Index	Provides a quick reference for locating information.

Guide 2

Chapter	Title	Description
4	Application Files	Provides layouts for Time Investment files and their records.
5	API Records	Provides layouts for records accessed through the Application Program Interface.
6	MICM Records	Provides layouts for MICM files and their records used by Time Investment.

Chapter	Title	Description
	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 a term or concept. Highlights field requirements.
<i>Bold Italics</i>	Used when referring to an Infopoint publication.
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 panels (with samples), batch forms (with masters) and reports (with samples). Also, this guide describes the MICM panels, batch forms, and records specific to Time Investment.

Infopoint Time Investment *Reference Guide*

Contains technical information about online and batch programs and layouts for files and records used by Time Investment. In addition, this guide provides the application-specific MICM record layouts.

Infopoint Time Investment *Operations Guide*

Contains technical information about batch operations (jobs). In addition, this guide details procedures for conversion and any miscellaneous processing procedures.

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 and batch forms used to maintain MICM. Procedures and reports produced by MICM are also included. A set of form masters are 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.

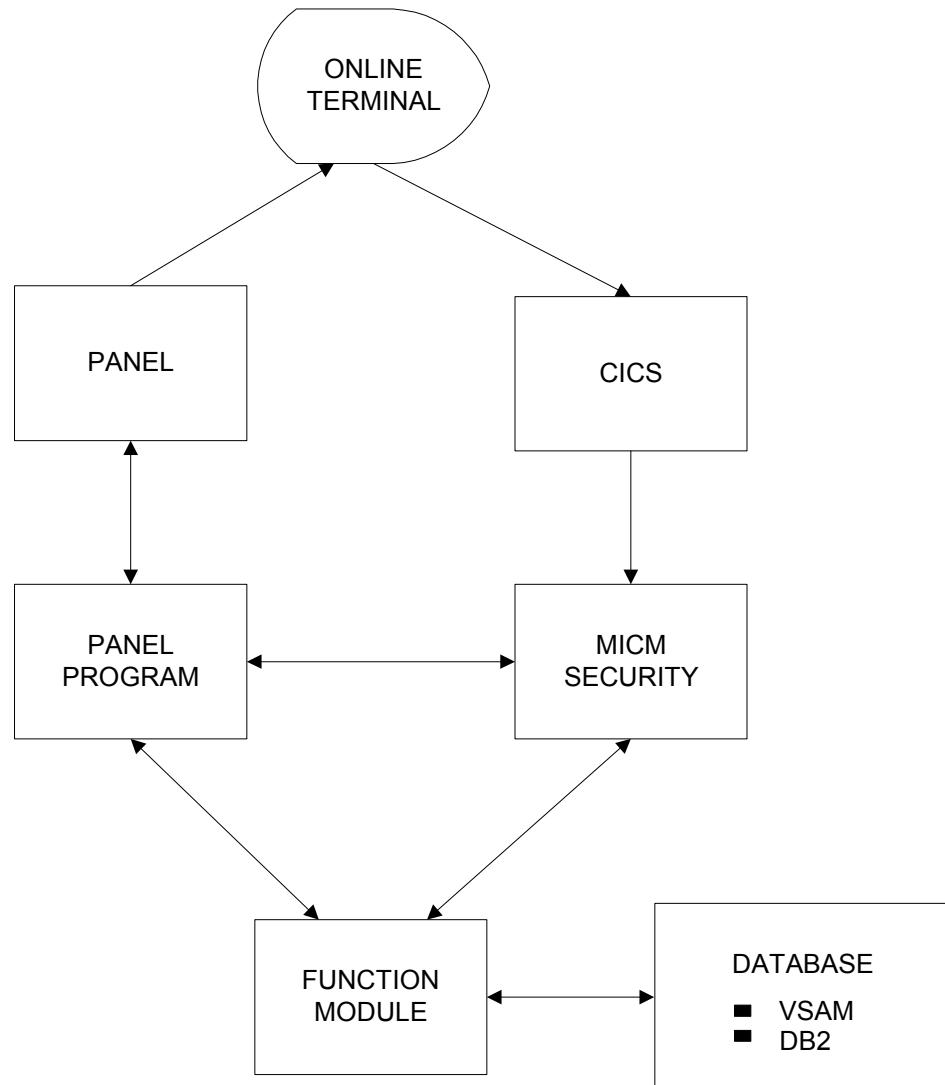
Infopoint Runtime Components ***Installation Guide***

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

This chapter contains the programs, function modules, and tables associated with the online portion of Time Investment. The sections in this chapter consist of:

Panel Programs	Programs that present and receive data from an input device (terminal). Each contains 2 types of panels (key and primary) and one or more function module calls.
Function Modules	Modules that perform a unique set of instructions. You input data in the message area, and receive information through return and abort codes. The message area has control parameters. Function modules access API and MICM Records.
Key Parameters	A table that lists the preset values for the key parameters.
Cross-references	A table that provides a cross-reference to help you associate the primary panel ID and its description with the panel program, and function module. A column is provided for you to enter a user-defined key parameter value, if desired.

Online Program Flowchart and Description



Online Terminal	The 3270 device used for accessing CICS.
CICS	This interactive system receives data from and sends data to the control program and panel programs. Files are accessed through CICS and can be read or written. Data is sent or received in a mapped or unmapped format through a terminal.
MICM Security	MICM verifies the operator security level and access capabilities, determines the key requirements for the external transaction entered through the terminal, and edits this key. It releases control to the panel program that processes the transaction.
Function Module	<p>One function module is written for each record. Additional modules for calculating fields or performing a specific function could be required for the application. A function module must be designed to permit data retrieval, updating, creation, and deletion to occur without dependency on any 3270 device. Function modules, which can be invoked from any application, perform the following tasks:</p> <ul style="list-style-type: none">■ Security checking (dormancy, employee, user routines)■ MICM defaults for new accounts■ Data verification (excluding numeric checks)■ All database API access■ Logging■ Formatting/Updating a preset linking message <p>A function module can update multiple records belonging to an application. Records from another application must be updated and retrieved using function modules specific to that application.</p>
Database API	The application programming interface allows access from a VSAM or DB2 environment, based on database control table requirements.
Panel Program	The panel program communicates with the panel API and links to function modules with a preset message format. Panel programs perform the following tasks: <ul style="list-style-type: none">■ Verify the presence of key information required to format a message■ Edit fields for commas and periods■ Format messages for linking to function modules■ Communicate with the panel API■ Perform field/record level security■ Validate numbers and dates■ Provide help and break-away maintenance■ Process work units
Panel API	The application programming interface formats and interprets 3270 CICS-formatted messages.

Key Parameter Table

The following key parameters access MICM Record 2012 (Online Key Structures). The following values come preset with MICM; however, you can define them to suit your institution's needs on MICM Record 2012.

The values are set in the key parameter fields of the Transaction Description Record for each transaction ID. MICM Record 2012 is used to pass key information from one transaction to the next within a work unit. Code 999, listed in the Key Parameters column, forces a key parameter to be entered at all times.

Number	Key Parameters
000	Panel ID, does not require MICM Record 2012
001	Panel ID, 999
002	Panel ID, Account Number, Application Code, 999
003	Panel ID, Function Code, Account Number, 999
004	Panel ID, Function Code, Account Number, Application Code, 999
005	Panel ID, Function Code, Account Number, Branch Number, Account Type, 999

Primary Panel ID Table

The table below lists the panel IDs and their descriptions, internal transaction codes, panel program and function modules they access, and a space for you to write your institution's (user-defined) key parameter number, based on values in MICM Record 2012 (Online Key Structures). These items are listed alphabetically by the panel ID.

Panel ID	Description	Internal Tran Code	Panel Program	Function Module	User-defined
TIACT1	Account New/Maintenance 1	I201	TIL201	TILMST00	
TIACT2	Account New/Maintenance 2	I202	TIL202	TILMST00	
TIACT3	Account New/Maintenance 3	I203	TIL203	TILMST00	
TIACT4	Account New/Maintenance 4	I204	TIL204	TILMST00	
TIACT5	Account New/Maintenance 5	I205	TIL205	TILMST00	
TIAPY	Forecast Interest/APY	I275	TIL275	TILXXX05	
TIASG	Assignments	I250	TIL250	TILASG00	
TIBAL	Balance History	I214	TIL214	TILMST00	
TICLOSE	Closing Value	I904	TIL904	TILXXX01	
TICPAY	Customer Payout History	I160	TIL160	TILPAY00	
TICPRG	Customer Purge	I154	TIL154	TILCST02	
TICPRO	Customer Profile	I900	TIL900	TILCST01	
TICUST1	Customer New/Maintenance 1	I151	TIL151	TILCST00	
TICUST2	Customer New/Maintenance 2	I152	TIL152	TILCST00	
TIEMPL	Employer New/Maintenance	I170	TIL170	TILEMP00	
TIEPRG	Employer Purge	I173	TIL173	TILEMP02	
TIEPRO	Employer Profile	I906	TIL906	TILEMP01	

Panel ID	Description	Internal Tran Code	Panel Program	Function Module	User-defined
TIFLOAT	Float	I211	TIL211	TILMST00	
TIINQ1	Account Inquiry 1	I901	TIL901	TILMST00	
TIINQ2	Account Inquiry 2	I902	TIL902	TILMST00	
TIINT	Interest Payment History	I310	TIL310	TILINT00	
TIIRA	IRA Maintenance	I153	TIL153	TILIRA00	
TIMAINT	Maintenance History	I911	TIL911	TILHST00	
TIMIF	MICM Interface	I301	TIL301	TILCST00 TILMST00 TILEMP00	
TIMPRG	Account Purge	I210	TIL210	TILMST01	
TIOD	Overdraft History	I213	TIL213	TILMST00	
TIPBCONV	Passbook Conversion	I907	TIL907	TILXXX04	
TIPEN	Penalty Calculation	I905	TIL905	TILXXX02	
TIRATE	Rate Change History	I320	TIL320	TILRAT00	
TIREISS	Reissue CD	I260	TIL260	TILMST02	
TIRENEW	Certificate Renewal	I265	TIL265	TILMST03	
TIRMD	Required Minimum Distribution	I270	TIL270	TILXXX03	
TISTCPY	Statement Copies	I300	TIL300	TILXRL00	
TISVC	Service Charge History	I212	TIL212	TILMST00	
TITDOA	TDOA Availability	I350	TIL350	TILAVL00	
TITRAN	Transaction History	I909	TIL909	TILTRN00	
TITRAN1	Transaction History – 1	I910	TIL910	TILTRN00	

Panel Programs

The following information is given for each panel program:

Purpose	Describes the purpose of the panel program.
Online Information	Lists some of the same information found on the Panel ID Table as well as SS file information.
Function Modules	Lists those modules accessed by the panel program.
API MICM Records	Shows any MICM Records accessed by the panel program.
API Application Records	List the API records accessed by the panel program.
Abort Information	Lists the trace codes and abort codes and a description of the problem encountered.

TIL151 – Customer New/Maintenance 1

Purpose This program displays one of the panels used to create or change Customer Records.

Note: Customer Records control the processing of Time Investment instruments and are required by the system for each customer.

Online Information

Panel ID:	TICUST1
Internal Transaction Code:	I151
Key Panel SS File:	TIV151K
Primary Panel SS File:	TIV151
Help Panel SS File:	TIV151H
Key Parameter Number:	005

Function Modules TILCST00 – Customer Master

API MICM Records

Record Code	Ext Record	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	0106	READ failed on CICS temporary storage.
0003	3051	READ failed on MICM Record 2010.
0004	0106	READ failed on CICS temporary storage.
0005	0106	WRITE/REWRITE failed on CICS temporary storage.

Trace Code	Abort Code	Description
0006	0106	REWRITE failed on CICS temporary storage.

TIL152 – Customer New/Maintenance 2

Purpose This program displays one of the panels used to create or change Customer Records.

Note: Customer Records control the processing of Time Investment instruments and are required by the system for each customer.

Online Information

Panel ID:	TICUST2
Internal Transaction Code:	I152
Key Panel SS File:	TIV152K
Primary Panel SS File:	TIV152
Help Panel SS File:	TIV152H
Key Parameter Number:	005

Function Modules TILCST00 – Customer Master

API MICM Records

Record Code	Ext Record	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	0106	READ failed on CICS temporary storage.
0003	3051	READ failed on MICM Record 2010.
0004	0106	READ failed on CICS temporary storage.
0005	0106	WRITE/REWRITE failed on CICS temporary storage.

Trace Code	Abort Code	Description
0006	0106	REWRITE failed on CICS temporary storage.

TIL153 – IRA Maintenance

Purpose This program displays the panel used to update the IRA/Keogh Record.

Online Information

Panel ID:	TIIRA
Internal Transaction Code:	I153
Key Panel SS File:	TIV153K
Primary Panel SS File:	TIV153
Help Panel SS File:	TIV153H
Key Parameter Number:	001

Function Modules TILIRA00 – IRA Maintenance

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL154 – Customer Purge

Purpose	This program displays the panel used to purge a Customer Record.	
Online Information		
Panel ID:	TICPRG	
Internal Transaction Code:	I154	
Key Panel SS File:	TIV154K	
Primary Panel SS File:	TIV154	
Help Panel SS File:	TIV154H	
Key Parameter Number:	001	
Function Modules	TILCST02 – Customer Purge	
API MICM Records	None	
API Application Records	None	
Files	None	
Abort Information	If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.	

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.

TIL160 – Customer Payout History

Purpose This program displays the panel used to input deletions and additions to the payout history concerning IRA/Keoghs that are in payout or distribution status. The panel is also used to input conversion information by using the addition format.

Online Information

Panel ID:	TICPAY
Internal Transaction Code:	I160
Key Panel SS File:	TIV160K
Primary Panel SS File:	TIV160
Help Panel SS File:	TIV160H
Key Parameter Number:	001

Function Modules TILPAY00 – Payout History

API MICM Records

Record Code	Ext Record	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL170 – Employer New/Maintenance

Purpose This program displays the panel used to create or change Employer Records.

Note: Employer Records can be used to tie several accounts that belong to the same Keogh or SEP plan.

Online Information

Panel ID:	TIEMPL
Internal Transaction Code:	I170
Key Panel SS File:	TIV170K
Primary Panel SS File:	TIV170
Help Panel SS File:	TIV170H
Key Parameter Number:	005

Function Modules TILEMP00 – Employer Master

API MICM Records

Record	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL173 – Employer Purge

Purpose This program displays the panel used to purge an Employer Record.

Online Information

Panel ID:	TIEPRG
Internal Transaction Code:	I173
Key Panel SS File:	TIV173K
Primary Panel SS File:	TIV173
Help Panel SS File:	TIV173H
Key Parameter Number:	001

Function Modules TILEMP02 – Employer Purge

API MICM Records None

API Application Records None

Files None

Abort Information If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.

TIL201 – Account New/Maintenance 1

Purpose This program displays one of the panels used to enter information that controls the processing of Certificates of Deposit, TDOAs, and Savings accounts.

Online Information

Panel ID:	TIACT1
Internal Transaction Code:	I201
Key Panel SS File:	TIV201K
Primary Panel SS File:	TIV201
Help Panel SS File:	TIV201H
Key Parameter Number:	005

Function Modules TILMST00 – Account Master

API MICM Records

Record Code	Ext Record Code	Name	Description
2005	M05	MI2005-RECORD	Cycles Information Record
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	0106	CICS temporary storage READ error.
0003	3051	READ failed on MICM Record 2010.
0004	0106	CICS temporary storage READ error.
0005	0106	CICS temporary storage WRITE/REWRITE error.
0006	0106	CICS temporary storage REWRITE error.

TIL202 – Account New/Maintenance 2

Purpose This program displays one of the panels used to enter information that controls the processing of Certificates of Deposit, TDOAs, and Savings accounts.

Online Information

Panel ID:	TIACT2
Internal Transaction Code:	I202
Key Panel SS File:	TIV202K
Primary Panel SS File:	TIV202
Help Panel SS File:	TIV202H
Key Parameter Number:	005

Function Modules TILMST00 – Account Master

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	0106	CICS temporary storage READ error.
0003	3051	READ failed on MICM Record 2010.
0004	0106	CICS temporary storage READ error.
0005	0106	CICS temporary storage WRITE/REWRITE error.
0006	0106	CICS temporary storage REWRITE error.

TIL203 – Account New/Maintenance 3

Purpose This program displays one of the panels used to enter information that controls the processing of Certificates of Deposit, TDOAs, and Savings accounts.

Online Information

Panel ID:	TIACT3
Internal Transaction Code:	I203
Key Panel SS File:	TIV203K
Primary Panel SS File:	TIV203
Help Panel SS File:	TIV203H
Key Parameter Number:	005

Function Modules TILMST00 – Account Master

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	0106	CICS temporary storage READ error.
0003	3051	READ failed on MICM Record 2010.
0004	0106	CICS temporary storage READ error.
0005	0106	CICS temporary storage WRITE/REWRITE error.
0006	0106	CICS temporary storage REWRITE error.

TIL204 – Account New/Maintenance 4

Purpose This program displays one of the panels used to enter information that controls the processing of Certificates of Deposit, TDOAs, and Savings accounts.

Online Information

Panel ID:	TIACT4
Internal Transaction Code:	I204
Key Panel SS File:	TIV204K
Primary Panel SS File:	TIV204
Help Panel SS File:	TIV204H
Key Parameter Number:	005

Function Modules TILMST00 – Account Master

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	0106	CICS temporary storage READ error.
0003	3051	READ failed on MICM Record 2010.
0004	0106	CICS temporary storage READ error.
0005	0106	CICS temporary storage WRITE/REWRITE error.
0006	0106	CICS temporary storage REWRITE error.

TIL205 – Account New/Maintenance 5

Purpose This program displays one of the panels used to enter information that controls the processing of Certificates of Deposit, TDOAs, and Savings accounts.

Online Information

Panel ID:	TIACT5
Internal Transaction Code:	I205
Key Panel SS File:	TIV205K
Primary Panel SS File:	TIV205
Help Panel SS File:	TIV205H
Key Parameter Number:	005

Function Modules TILMST00 – Account Master

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	0106	CICS temporary storage READ error.
0003	3051	READ failed on MICM Record 2010.
0004	0106	CICS temporary storage READ error.
0005	0106	CICS temporary storage WRITE/REWRITE error.
0006	0106	CICS temporary storage REWRITE error.

TIL210 – Account Purge

Purpose This program displays the panel used to purge an account from the system.

Online Information

Panel ID:	TIMPRG
Internal Transaction Code:	I210
Key Panel SS File:	TIV210K
Primary Panel SS File:	TIV210
Help Panel SS File:	TIV210H
Key Parameter Number:	001

Function Modules TILMST01 – Account Purge

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL211 - Float

Purpose This program displays the panel used to update the float fields on the Account Master Records.

Online Information

Panel ID:	TIFLOAT
Internal Transaction Code:	I211
Key Panel SS File:	TIV211K
Primary Panel SS File:	TIV211
Help Panel SS File:	TIV211H
Key Parameter Number:	001

Function Modules TILMST00 – Account Master

API MICM Records

Record	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL212 – Service Charge History

Purpose This program displays the panel used to maintain service charge history information.

Online Information

Panel ID:	TISVC
Internal Transaction Code:	I212
Key Panel SS File:	TIV212K
Primary Panel SS File:	TIV212
Help Panel SS File:	TIV212H
Key Parameter Number:	001

Function Modules TILMST00 – Account Master

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL213 – Overdraft History

Purpose This program displays the panel used to maintain overdraft history information.

Online Information

Panel ID:	TIOD
Internal Transaction Code:	I213
Key Panel SS File:	TIV213K
Primary Panel SS File:	TIV213
Help Panel SS File:	TIV213H
Key Parameter Number:	001

Function Modules TILMST00 – Account Master

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL214 – Balance History

Purpose This program displays the panel used to maintain master account balances.

Online Information

Panel ID:	TIBAL
Internal Transaction Code:	I214
Key Panel SS File:	TIV214K
Primary Panel SS File:	TIV214
Help Panel SS File:	TIV214H
Key Parameter Number:	001

Function Modules TILMST00 – Account Master

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL250 – Assignments

Purpose This program displays the panel used to enter new or maintain existing assignment/caution information.

Online Information

Panel ID:	TIASG
Internal Transaction Code:	I250
Key Panel SS File:	TIV250K
Primary Panel SS File:	TIV250
Help Panel SS File:	TIV250H
Key Parameter Number:	003

Function Modules TILASG00 – Assignments

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL260 – Reissue CD

Purpose This program displays the panel used to reissue an existing Certificate of Deposit and retain all of the original account information.

Online Information

Panel ID: TIREISS
 Internal Transaction Code: I260
 Key Panel SS File: TIV260K
 Primary Panel SS File: TIV260
 Help Panel SS File: TIV260H
 Key Parameter Number: 001

Function Modules TILMST02 – Reissue Certificate

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL265 – Certificate Renewal

Purpose This program displays the panel used to renew an individual Certificate of Deposit into the same type or a new type, while retaining the defaults set up on MICM Record 3501.

Online Information

Panel ID:	TIRENEW
Internal Transaction Code:	I265
Key Panel SS File:	TIV265K
Primary Panel SS File:	TIV265
Help Panel SS File:	TIV265H
Key Parameter Number:	001

Function Modules TILMST03 – Renewal

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL270 – Required Minimum Distribution

Purpose This program displays the panel used to calculate the required minimum distribution amount for a customer for this year and next year.

Online Information

Panel ID:	TIRMD
Internal Transaction Code:	I270
Key Panel SS File:	TIV270K
Primary Panel SS File:	TIV270
Help Panel SS File:	TIV270H
Key Parameter Number:	001

Function Modules TILXXX03 – Required Minimum Distribution

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL275 – Forecast Interest/APY

Purpose	This program displays the panel used to calculate the projected interest and/or annual percentage yield on an account.	
Online Information	<p>Panel ID: TIAPY</p> <p>Internal Transaction Code: I275</p> <p>Key Panel SS File: TIV275K</p> <p>Primary Panel SS File: TIV275</p> <p>Help Panel SS File: TIV275H</p> <p>Key Parameter Number: 000</p>	
Function Modules	TILXXX05 – Forecast Interest/APY	
API MICM Records	None	
API Application Records	None	
Files	None	
Abort Information	If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.	

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.

TIL300 – Statement Copies

Purpose This program displays the panel used to enter, change, or delete customer relational records on the Statement Copies Record.

Online Information

Panel ID:	TISTCPY
Internal Transaction Code:	I300
Key Panel SS File:	TIV300K
Primary Panel SS File:	TIV300
Help Panel SS File:	TIV300H
Key Parameter Number:	001

Function Modules TILXRL00 – Statement Copies

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL301 – MICM Interface

Purpose This program displays the panel used to update the MICM interface fields on the Account Master, Customer, and Employer Records.

Online Information

Panel ID:	TIMIF
Internal Transaction Code:	I301
Key Panel SS File:	TIV301K
Primary Panel SS File:	TIV301
Help Panel SS File:	TIV301H
Key Parameter Number:	000

Function Modules

- TILCST00 – Customer Master
- TILMST00 – Account Master
- TILEMP00 – Employer Master

API MICM Records

Record	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010 for MST.
0003	3051	READ failed on MICM Record 2010 for CST.
0004	3051	READ failed on MICM Record 2010 for EMP.

TIL310 – Interest Payment History

Purpose This program displays the panel used to add or delete information from the Interest Payment History Record.

Online Information

Panel ID:	TIINT
Internal Transaction Code:	I310
Key Panel SS File:	TIV310K
Primary Panel SS File:	TIV310
Help Panel SS File:	TIV310H
Key Parameter Number:	001

Function Modules TILINT00 – Interest History

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL320 – Rate Change History

Purpose This program displays the panel used to maintain the Rate Change Record.

Online Information

Panel ID:	TIRATE
Internal Transaction Code:	I320
Key Panel SS File:	TIV320K
Primary Panel SS File:	TIV320
Help Panel SS File:	TIV320H
Key Parameter Number:	003

Function Modules TILRAT00 – Rate Change History

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL350 – TDOA Availability

Purpose This program displays the panel used to view TDOA Availability Records for inquiry purposes or to delete zero amount records.

Online Information

Panel ID:	TITDOA
Internal Transaction Code:	I350
Key Panel SS File:	TIV350K
Primary Panel SS File:	TIV350
Help Panel SS File:	TIV350H
Key Parameter Number:	001

Function Modules TILAVL00 – Availability

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL900 – Customer Profile

Purpose This program displays the panel used to inquire on a customer and the master accounts that are associated with that customer number.

Online Information

Panel ID:	TICPRO
Internal Transaction Code:	I900
Key Panel SS File:	TIV900K
Primary Panel SS File:	TIV900
Help Panel SS File:	TIV900H
Key Parameter Number:	001

Function Modules TILCST01 – Customer Profile

API MICM Records

Record Code	Ext Record	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL901 – Account Inquiry 1

Purpose This program displays one of the panels used to inquire on Time Investment master accounts.

Online Information

Panel ID:	TIINQ1
Internal Transaction Code:	I901
Key Panel SS File:	TIV901K
Primary Panel SS File:	TIV901
Help Panel SS File:	TIV901H
Key Parameter Number:	001

Function Modules TILMST00 – Account Master

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL902 – Account Inquiry 2

Purpose This program displays one of the panels used to inquire on Time Investment master accounts.

Online Information

Panel ID:	TIINQ2
Internal Transaction Code:	I902
Key Panel SS File:	TIV902K
Primary Panel SS File:	TIV902
Help Panel SS File:	TIV902H
Key Parameter Number:	001

Function Modules TILMST00 – Account Master

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL904 – Closing Value

Purpose This program displays the panel used to inquire on the closing value of an account as of the current date or the effective date entered at the top of the panel.

Online Information

Panel ID:	TICLOSE
Internal Transaction Code:	I904
Key Panel SS File:	TIV904K
Primary Panel SS File:	TIV904
Help Panel SS File:	TIV904H
Key Parameter Number:	001

Function Modules TILXXX01 – Closing Values

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL905 – Penalty Calculation

Purpose This program displays the panel used to calculate the amount of penalty interest assessed when a partial withdrawal is made.

Online Information

Panel ID:	TIPEN
Internal Transaction Code:	I905
Key Panel SS File:	TIV905K
Primary Panel SS File:	TIV905
Help Panel SS File:	TIV905H
Key Parameter Number:	001

Function Modules TILXXX02 – Penalty Calculation

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL906 – Employer Profile

Purpose This program displays the panel used to inquire on an employer and the accounts associated with the employer number.

Online Information

Panel ID:	TIEPRO
Internal Transaction Code:	I906
Key Panel SS File:	TIV906K
Primary Panel SS File:	TIV906
Help Panel SS File:	TIV906H
Key Parameter Number:	001

Function Modules TILEMP01 – Employer Profile

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002	3051	READ failed on MICM Record 2010.

TIL907 – Passbook Conversion

Purpose This program displays the panel used to convert a Passbook account to a statement Savings account.

Online Information

Panel ID:	TIPBCONV
Internal Transaction Code:	I907
Key Panel SS File:	TIV907K
Primary Panel SS File:	TIV907
Help Panel SS File:	TIV907H
Key Parameter Number:	001

Function Modules TILXXX04 – Passbook Conversion

API MICM Records

Record Code	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error
0003	3051	READ failed on MICM Record 2010.

TIL908 – Transaction History Detail (pop-up window)

Purpose This program displays the pop-up window used to inquire on individual transactions for Passbook and non-Passbook accounts.

Online Information

Panel ID:	F10 from the TITRAN or TITRAN1 panel
Internal Transaction Code:	I908
Key Panel SS File:	TIV908K
Primary Panel SS File:	TIV908
Help Panel SS File:	TIV908H
Key Parameter Number:	000

Function Modules TILTRN00 – Transaction File Inquiry

API MICM Records

Record	Ext Record	Name	Description
Code			
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002-0004	3051	READ failed on MICM Record 2010.

TIL909 – Transaction History (one detail line)

Purpose This program displays the panel used to inquire on accumulated transactions for Passbook and non-Passbook accounts.

Online Information

Panel ID:	TITRAN
Internal Transaction Code:	I909
Key Panel SS File:	TIV909K
Primary Panel SS File:	TIV909
Help Panel SS File:	TIV909H
Key Parameter Number:	001

Function Modules TILTRN00 – Transaction File Inquiry

API MICM Records

Record	Ext Record Code	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002-0007	3051	READ failed on MICM Record 2010.

TIL910 – Transaction History (two detail lines)

Purpose This program displays the panel used to inquire on accumulated transactions for Passbook and non-Passbook accounts.

Note: The panel provides information similar to the panel displayed by TIL909 but with more detail.

Online Information

Panel ID:	TITRAN
Internal Transaction Code:	I910
Key Panel SS File:	TIV910K
Primary Panel SS File:	TIV910
Help Panel SS File:	TIV910H
Key Parameter Number:	001

Function Modules TILTRN00 – Transaction File Inquiry

API MICM Records

Record Code	Ext Record	Name	Description
2010	M10	MI2010-RECORD	Record Security Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.
0002-0007	3051	READ failed on MICM Record 2010.

TIL911 – Maintenance History

Purpose This program displays the panel used to review online and batch maintenance for a selected account.

Online Information

Panel ID:	TIMAIN
Internal Transaction Code:	I911
Key Panel SS File:	TIV911K
Primary Panel SS File:	TIV911
Help Panel SS File:	TIV911H
Key Parameter Number:	000

Function Modules TILHST00 – Maintenance History

API MICM Records

Record	Ext Record Code	Name	Description
2011	M11	MI2011-RECORD	Online Messages Record

API Application Records

None

Files

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

Abort Information

If the panel program detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2033	CICS handle return error.

Function Modules

The following information is given for each function module:

Purpose	Purpose of the function module.
Panel Programs	Lists the associated panel program(s).
API MICM Records	Shows any MICM Records accessed by the function module.
API Application Records	Lists the API records accessed by the function module.
Message Area Layouts	Describes the message area passed between the function module and the panel program. See below for more details.
Abort Information	Lists the trace codes and abort codes and provides a description of the problem encountered.

Message Area Layouts

Message areas consist of five parts:

- Controls Portion
- Record Portion
- Data Change Portion
- Miscellaneous Data Portion

The prefix for each field is the function module name without the 'L'. For example, the prefix for each field for function module TILASG00 would be TIASG00. A description of each portion follows.

Controls Portion

The controls portion fields are identical across all Infopoint applications, as follows.

Field	Description
APIFUNC	Function Control Field. Tells the function module which operation to perform. Valid entries are: <ul style="list-style-type: none"> EDT Verify key data and edit field data. UPD Verify key data, edit field data, and update when all data is valid. VKD Verify key data. VKL Verify key data and load or initialize data.
DATE	Current Date. Format is MMDDYYYY.
FUNC	Function to Perform. Valid entries are: <ul style="list-style-type: none"> I Inquire on a record. M Maintain an existing record. N Create a new record.
FUNCTION	Operation Return Function. Valid entries are: <ul style="list-style-type: none"> b Operation complete. = Duplicate data. E End of data. N Record not found. O Operations error. X Unknown error.
RETURN	Return Code. Correlates to the COM-RETURN in the panel program. Valid entries are: <ul style="list-style-type: none"> E Key validation error. S Selection validation error.
APPL	Numeric Application Code.
CIFAC	Alphabetic Application Code.

Field	Description
UPDATE	Update Code. Correlates to the COM-UPDATE code. Valid entries are: N Update not allowed. Y Update allowed.
FILEOPTS	File Set Option. Correlate to COM-FILEOPTS.
OPERID	Operator ID. Passed to the module from the panel program COM-AREA.
MODELID	Model Operator ID. This is passed to the module from the panel program COM-AREA.
EXTERNALID	Panel ID. Passed to the module from the panel program COM-AREA.
TERMINID	Terminal Identification. Passed to the module from the panel program COM-AREA (COM-EIBTRMID).
WORKID	Work Unit Identification. Passed to the module from the panel program COM-AREA (COM-WKUNAME).
TRANSTART	Transaction Start Time. Passed to the module from the panel program COM-AREA (COM-TRANSTART).
APPLSEQ	Application Sequence Number. Passed to the module from the panel program COM-AREA (COM-APPLSEQ).
SECALT	Alternate Security Code. Passed to the module from the panel program COM-AREA.
MSGNBR	Message Number. Used for extracting message data from MICM to display with other panel data from the panel program.
ERRCNT	Error Count. Count of errors determined by the function module.
FILES-OPEN	Files Open Flag. Indicates to the function module if the files have already been opened. Valid entries are: N Files are not open. Y Files are open.
ABORT	Abort Code. Four-digit code that correlates to the COM-ABORT.
ABTYPE	Abort Type Code. Correlates to the COM-ABTYPE. Valid entry is Y, indicating a global abort.
ABTRACE	Abort Trace Code. Four-digit code that correlates to the COM-ABTRACE.

Field	Description
ABEIBFN	Last CICS Command Code. Identifies the last CICS command issued by the task (updated when the requested function is complete).
ABEIBRCODE	CICS Response Code. Returns after completing the last CICS command issued by the task.
ABPROGID	Abort Program ID. Identification of a program where an abort occurred. It correlates to the COM-ABPROGID.
SRBMDB	API Server Request Block.
USERCNTRLS	Panel Program User Controls.

Record Portion

This area contains the API record(s) the function module uses. Some function modules use the entire record(s), while others use only portions of the record(s). For detailed descriptions of the records, refer to the API Records chapter of *Reference Guide 2*.

Data Change Portion

For every field in the record portion, there is a data change flag that indicates if a field has changed. These fields have a suffix of -DCHG. For example, for the TIASG00 module, there is a TIASG-DATE-DCHG data change flag to indicate changes made to the TIASG00-DATE field.

Miscellaneous Data Portion

This area contains fields specific to this module. Some fields might not be from API records.

TILASG00 – Assignments

Purpose This module adds or deletes Assignment/Caution Records.

Panel Programs TIL250 – Assignments

API MICM Records None

API Application Records

Ext Record Code	Name	Description
ASG	TIASG-RECORD	Assignments Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files None

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
ASG	TIASG-RECORD	Assignment/Caution Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILASG00 function module:

Field	Description
SELECT KEY	Record selection start key.

Field	Description
SINST	Selected institution. <i>Input required.</i>
SACCOUNT	Selected account. <i>Input required.</i>
BRANCH	Account branch. <i>Output.</i>
MTYPE	Account type. <i>Output.</i>
IFSHORT	Account short name. <i>Output.</i>
EMPCD	Account employer code. <i>Output.</i>
DORM	Account dormant code. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4107	OPEN failed on ASG.
0004	2033	CICS handle return error.
0005	4102	READ failed on MST.
0006	4107	READ failed on ASG.
0007	4107	READ NEXT failed on ASG.
0008	4107	READ failed on ASG.
0009	4107	READ NEXT failed on ASG.
0010	4107	READ failed on ASG.
0011	4107	WRITE failed on ASG.
0012	4107	READ/UPDATE failed on ASG.

Trace Code	Abort Code	Description
0013	4107	REWRITE failed on ASG.
0014	4102	READ/UPDATE failed on MST.
0015	4102	REWRITE failed on MST.
0016	4107	START/READ failed on ASG.
0017	4107	READ NEXT failed on ASG.

TILAVL00 – Availability

Purpose	This module displays TDOA Availability Records for inquiry or to delete Zero Amount Records.
Panel Programs	TIL350 – TDOA Availability
API MICM Records	None
API Application Records	

Ext Record Code	Name	Description
AVL	TIAVL-RECORD	TDOA Availability Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files	None
-------	------

Message Area Layout

Controls Portion	These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.
Record Portion	The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of <i>Reference Guide 2</i> .

Ext Record Code	Name	Description
AVL	TIAVL-RECORD	TDOA Availability Record

Data Change Portion	For each field accessed in the record portion of this message area, there is a data change field (-DCHG).
Miscellaneous Data Portion	The following fields are used by the TILAVL00 function module:

Field	Description
FIRST KEY	Key for first available record for an account. <i>Output.</i>

Field	Description
SELECT KEY	Record selection start key. <i>Input required.</i>
SINST	Selected institution. <i>Input required.</i>
SACCOUNT	Selected account. <i>Input required.</i>
BRANCH	Account branch. <i>Output.</i>
MTYPE	Account type. <i>Output.</i>
IFSHORT	Account short name. <i>Output.</i>
EMPCD	Account employee code. <i>Output.</i>
DORM	Account dormant code. <i>Output.</i>
ITRANDT	Interest date changed. <i>Output.</i>
IDTCHG	Interest transaction date. <i>Output.</i>
DELETE	Delete code. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4108	OPEN failed on AVL.

Trace Code	Abort Code	Description
0004	2033	CICS handle return error.
0005	4102	READ failed on MST.
0006	4108	READ failed on AVL.
0007	4108	READ NEXT failed on AVL.
0008	4108	READ failed on AVL.
0009	4108	READ NEXT failed on AVL.
0010	4108	READ/UPDATE failed on AVL.
0011	4108	DELETE failed on AVL.
0012	4102	READ/UPDATE failed on MST.
0013	4108	READ failed on AVL.
0014	4102	REWRITE failed on MST.

TILCST00 – Customer Master

Purpose This module creates, maintains, or inquires on a Customer Record (CST), which contains the distribution and service charge schedules.

Note: Multiple accounts can be tied to a Customer Record.

Panel Programs TIL151 – Customer New/Maintenance 1
TIL152 – Customer New/Maintenance 2

API MICM Records

Record Code	Ext Record	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0231	M83	MI0231-RECORD	Application Edit Table Record
2001	M01	MI2001-RECORD	Branch Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Processing Parameters Record

API Application Records

Ext Record Code	Name	Description
CST	TICST-RECORD	Customer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion

The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
CST	TICST-RECORD	Customer Record

Data Change Portion

For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion

The following fields are used by the TILCST00 function module:

Field	Description
MAXOVER	Maximum contribution override. Used to override the 2000.00 default for IRAs. <i>Input, optional for new, not used for maintenance.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4103	OPEN failed on CST.
0004	2033	CICS handle return error.
0005	4103	READ failed on CST.
0006	3051	READ failed on MICM Record 2001.
0007	3051	READ failed on MICM Record 3500.
0008-0010	4102	READ failed on MST.
0011	3051	READ failed on MICM Record 2001.
0012	3051	MICM Record 0231, Officer Table verify error.
0013	4103	READ/UPDATE failed on CST.

Trace Code	Abort Code	Description
0014	4103	WRITE/REWRITE failed on CST.
0015	4111	OPEN failed on IRA.
0016	4111	WRITE failed on IRA – Sequence 1.
0017	4111	WRITE failed on IRA – Sequence 2.
0018	4111	WRITE failed on IRA – Sequence 3.
0019	4111	WRITE failed on IRA – Sequence 4.
0020	3051	MICM Record 0231, Officer Table verify error.

TILCST01 – Customer Profile

Purpose	This module extracts accounts on files related to a customer passing a minimum amount of information for each account and totals for all accounts.
Panel Programs	TIL900 – Customer Profile
API MICM Records	None
API Application Records	

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
CST	TICST-RECORD	Customer Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files	None
-------	------

Message Area Layout

Controls Portion	These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.
Record Portion	The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of <i>Reference Guide 2</i> .

Ext Record Code	Name	Description
CST	TICST-RECORD	Customer Record
MST	TIMST-RECORD	Account Master Record

Data Change Portion	None
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Miscellaneous Data
Portion

The following fields are used by the TILCST01 function module:

Field	Description
SELECT KEY	Record selection start key. <i>Input required.</i>
TOTACCT	Total accounts. <i>Output.</i>
TOTAMT	Total amount of all accounts. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4103	OPEN failed on CST
0004	4106	OPEN failed on ACN.
0005	2033	CICS handle return error.
0006	4103	READ failed on CST.
0007	4106	READ failed on ACN.
0008	4106	READ NEXT failed on ACN.
0009	4102	READ failed on MST.

TILCST02 – Customer Purge

Purpose This module flags the Customer Record for TID200 to delete all related records and changes the status in the Customer Record to 'P', indicating purged.

Note: The information displayed on the panel is accessed from the Customer Record and Account Numbers Record.

Panel Programs TIL154 – Customer Purge

API MICM Records

Record Code	Ext Record Name	Description	
0211	M56	MI0211-RECORD	Application Information Record

API Application Records

Ext Record Code	Name	Description	
ACN	TIACN-RECORD	Account Numbers Record	
CST	TICST-RECORD	Customer Record	
OPD	MIOPD-RECORD	Operator Dialogue Record	

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description	
CST	TICST-RECORD	Customer Record	

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILCST02 function module:

Field	Description
NBRACCTS	Number of related accounts. <i>Output.</i>
REPLY	User request to purge or not to purge. <i>Input required.</i>
ACCOUNTS	Up to ten accounts related to this customer. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4103	OPEN failed on CST.
0003	4106	OPEN failed on ACN.
0004	2033	CICS handle return error.
0005	4103	READ failed on CST.
0006	4106	READ failed on ACN.
0007	4106	READ NEXT failed on ACN.
0008	4103	READ LOCK failed on CST.
0009	4103	REWRITE failed on CST.

TILEMPO0 – Employer Master

Purpose

This module creates, maintains, or inquires on Employer Records.

Note: The Employer Record can be used to tie several accounts together that belong to the same Keogh or SEP plan.

Panel Programs

TIL170 – Employer New/Maintenance

API MICM Records

Record	Ext Record Code	Name	Description
0231	M83	MI0231-RECORD	Application Edit Table Record
2001	M01	MI2001-RECORD	Branch Information Record

API Application Records

Ext Record Code	Name	Description
EMP	TIEMP-RECORD	Employer Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files

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

Message Area Layout

Controls Portion

These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion

The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
EMP	TIEMP-RECORD	Employer Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion None

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4105	OPEN failed on EMP.
0003	2033	CICS handle return error.
0004	4105	READ failed on EMP.
0005-0006	3051	READ failed on MICM Record 2001.
0007	3051	MICM Record 0231, Officer Table verify error.
0008	4105	READ/UPDATE failed on EMP.
0009	4105	WRITE/REWRITE failed on EMP.
0010	3051	MICM Record 0231, Officer Table verify error.

TILEMP01 – Employer Profile

Purpose	This module passes Employer Account Profile information to be displayed for inquiry purposes.
Panel Programs	TIL906 – Employer Profile
API MICM Records	None
API Application Records	

Ext Record Code	Name	Description
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files	None
-------	------

Message Area Layout

Controls Portion	These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.
Record Portion	The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of <i>Reference Guide 2</i> .

Ext Record Code	Name	Description
EMP	TIEMP-RECORD	Employer Record
MST	TIMST-RECORD	Account Master Record

Data Change Portion	None
---------------------	------

Miscellaneous Data
Portion

The following fields are used by the TILEMP01 function module:

Field	Description
SELECT KEY	Record selection start key. <i>Input required.</i>
TOTACCT	Total account. <i>Output.</i>
TOTAMT	Total amount of all accounts. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4105	OPEN failed on EMP.
0004	4105	OPEN failed on EMN.
0005	2033	CICS handle return error.
0006	4105	READ failed on EMP.
0007	4109	READ failed on EMN.
0008	4109	READ NEXT failed on EMN.
0009	4102	READ failed on MST.

TILEMP02 – Employer Purge

Purpose This module flags Employer Records to be purged.

Panel Programs TIL173 – Employer Purge

API MICM Records

Record Code	Ext Record Name	Description	
0211	M56	MI0211-RECORD	Application Information Record

API Application Records

Ext Record Code	Name	Description	
EMP	TIEMP-RECORD	Employer Record	
EMN	TIEMN-RECORD	Employer Account Numbers Record	
OPD	MIOPD-RECORD	Operator Dialogue Record	

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description	
EMP	TIEMP-RECORD	Employer Record	

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data
Portion

The following fields are used by the TILEMP02 function module:

Field	Description
NBRACCTS	Number of related accounts. <i>Output.</i>
REPLY	Request to purge or not to purge. <i>Input required.</i>
ACCOUNTS	Up to 10 accounts related to this employer. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4105	OPEN failed on EMP.
0003	4109	OPEN failed on EMN.
0004	2033	CICS handle return error.
0005	4105	READ failed on EMP.
0006	4109	READ failed on EMN.
0007	4109	READ NEXT failed on EMN.
0008	4105	READ/UPDATE failed on EMP.
0009	4105	REWRITE failed on EMP.

TILHST00 – Maintenance History

Purpose	This module displays online and batch maintenance in reverse date, record, and time order.
Panel Programs	TIL911 – Maintenance History
API MICM Records	None
API Application Records	

Ext Record Code	Name	Description
HST	MIHST-RECORD	MICM Maintenance History Record

Files	None
-------	------

Message Area Layout

Controls Portion	These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.
Record Portion	The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of <i>Reference Guide 2</i> .

Ext Record Code	Name	Description
HST	MIHST-RECORD	MICM Maintenance History Record

Data Change Portion	For each field accessed in the record portion of this message area, there is a data change field (-DCHG).
Miscellaneous Data Portion	The following fields are used by the TILHST00 function module:

Field	Description
SELECTKEY	Next key to be selected. <i>Input.</i>
SINST	Selected institution. <i>Input.</i>

Field	Description
SPRIREC	Selected primary record. <i>Input.</i>
SACCOUNT	Selected account. <i>Input.</i>
SEXTREC	Selected external record. <i>Input.</i>
STYPMNT	Selected maintenance type. <i>Input.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	3703	OPEN failed on HST.
0003	2033	CICS handle return error.
0004	3073	READ failed on HST.
0005	3073	READ NEXT failed on HST.

TILINT00 – Interest History

Purpose	This module adds new payment history records and deletes existing payment history records from the INT Record.
Panel Programs	TIL310 – Interest Payment History
API MICM Records	None
API Application Records	

Ext Record Code	Name	Description
INT	TIINT-RECORD	Interest Payment History Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files	None
-------	------

Message Area Layout

Controls Portion	These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.
Record Portion	The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of <i>Reference Guide 2</i> .

Ext Record Code	Name	Description
INT	TIINT-RECORD	Interest Payment History Record

Data Change Portion	For each field accessed in the record portion of this message area, there is a data change field (-DCHG).
Miscellaneous Data Portion	The following fields are used by the TILINT00 function module:

Field	Description
SELECT KEY	Record selection start key. <i>Input required.</i>

Field	Description
FIRST KEY	Key of first interest record for account. <i>Input required.</i>
SINST	Selected institution. <i>Input required.</i>
SACCOUNT	Selected account. <i>Input required.</i>
BRANCH	Account branch number. <i>Output.</i>
MTYPE	Account type number. <i>Output.</i>
EMPCD	Account employee code. <i>Output.</i>
DORM	Account dormant code. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4110	OPEN failed on INT.
0004	2033	CICS handle return error.
0005	4102	READ failed on MST.
0006	4110	READ failed on INT.
0007	4110	READ NEXT failed on INT.
0008	4110	READ failed on INT.
0009	4110	READ NEXT failed on INT.
0010	4110	WRITE failed on INT.
0011	4110	READ/UPDATE failed on INT.

Trace Code	Abort Code	Description
0012	4110	REWRITE/DELETE failed on INT.
0013	4102	READ/UPDATE failed on MST.
0014	4110	READ failed on INT.
0015	4102	REWRITE failed on MST.

TILIRA00 – IRA Maintenance

Purpose This module maintains IRA information for all IRA Records.

Panel Programs TIL153 – IRA Maintenance

API MICM Records

Record Code	Ext Record Name	Description	
0211	M56	MI0211-RECORD	Application Information Record

API Application Records

Ext Record Code	Name	Description	
CST	TICST-RECORD	Customer Record	
IRA	TIIRA-RECORD	IRA/Keogh Record	
OPD	MIOPD-RECORD	Operator Dialogue Record	

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description	
IRA	TIIRA-RECORD	IRA/Keogh Record	

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data
Portion

The following fields are used by the TILIRA00 function module:

Field	Description
MBRANCH	Customer branch number. <i>Output.</i>
KSEQUENCE	Key sequence. Used to read appropriate IRA/Keogh Record. <i>Input required.</i>
IFSHORT	Customer short name. <i>Output.</i>
MEMPCD	Customer employee code. <i>Output.</i>
INFOYEAR	Information year. Year to which the data belongs. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4103	OPEN failed on CST.
0003	4111	OPEN failed on IRA.
0004	2033	CICS handle return error.
0005	4103	READ failed on CST.
0006	4111	READ failed on IRA.
0007	4111	READ/UPDATE failed on IRA.
0008	4111	REWRITE failed on IRA.

TILMSTOO – Account Master

Purpose	This module creates, maintains, or inquires on Account Master Records.
	Note: When a new record is created, many of the field values default from MICM. Date fields that require calculation are computed on the first pass rather than at initialization.
Panel Programs	TIL201 – Account New/Maintenance 1 TIL202 – Account New/Maintenance 2 TIL203 – Account New/Maintenance 3 TIL204 – Account New/Maintenance 4 TIL205 – Account New/Maintenance 5
API MICM Records	

Record Code	Ext Record	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0231	M83	MI0231-RECORD	Application Edit Table Record
0980	M98	MI0980-RECORD	Customer Name and Address Information Record
2001	M01 (MI)	MI2001-RECORD	Branch Information Record
2002	M02 (MI)	MI2002-RECORD	Index Rate Record
2005	M05	MI2005-RECORD	Cycle Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Processing Parameters Record
3501	M01 (TI)	MI3501-RECORD	Time Investment Type Defaults Record
3502	M02 (TI)	MI3502-RECORD	Time Investment Type Processing Parameters Record
3503	M03	MI3503-RECORD	Time Investment Penalty Routines Records
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
ACN	TIACN-RECORD	Account Numbers Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files

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

Message Area Layout

Controls Portion

These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion

The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion

For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data
Portion

The following fields are used by the TILMST00 function module:

Field	Description
READSW	Read MICM Records switch. Valid entries are: N Do not read MICM Records. Y Read MICM Records. <i>Output.</i>
DATESW	Not used.
BIRTHDT	Customer birth date. <i>Input optional; required when a new IRA customer record is created.</i>
MSSTMREQ	Snapshot statement request. <i>Input optional.</i>
MCSTMREQ	Cutoff statement request. <i>Input optional.</i>
AVAILBAL	Calculated available balance. <i>Output.</i>
STATUS	Status literal for display purposes. <i>Output.</i>
MFADJC	Customer float adjustment amounts. <i>Input optional, 9 times.</i>
MFADJB	Bank float adjustment amounts. <i>Input optional, 9 times.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4101	OPEN failed on BNK.
0003	4102	OPEN failed on MST.
0004	4105	OPEN failed on EMP.

Trace Code	Abort Code	Description
0005	4103	OPEN failed on CST.
0006	2033	CICS handle return error.
0007	4102	READ failed on MST.
0008	3051	READ failed on MICM Record 2001.
0009	3051	READ failed on MICM Record 3500.
0010	3051	START BROWSE failed on MICM Record 3501.
0011	3051	READ NEXT failed on MICM Record 3501.
0012	3051	START BROWSE failed on MICM Record 3502.
0013	3051	READ NEXT failed on MICM Record 3502.
0014	3051	START BROWSE failed on MICM Record 3504.
0015	3051	READ NEXT failed on MICM Record 3504.
0016-0017	3051	READ failed on MICM Record 0211.
0018	3051	MICM Record 0231, Officer Table verify error.
0019	4103	READ failed on CST.
0020-0021	4102	LOCATE failed on MST.
0022	3051	START BROWSE failed on MICM Record 3503.
0023	3051	READ NEXT failed on MICM Record 3503.
0024	3051	START BROWSE failed on MICM Record 2002.
0025	3051	READ NEXT failed on MICM Record 2002.
0026	3051	START BROWSE failed on MICM Record 3507.
0027	3051	READ NEXT failed on MICM Record 3507.
0028	4102	LOCATE failed on MST.
0029	3051	MICM Record 0231, Class Table verify error.
0030	4106	OPEN failed on ACN.
0031	4111	OPEN failed on IRA.
0032	4109	OPEN failed on EMN.
0033	4102	READ/UPDATE failed on MST.
0034	4102	REWRITE failed on MST.
0035	4102	WRITE failed on MST.
0036	4103	WRITE failed on CST.
0037	4106	WRITE failed on ACN.

Trace Code	Abort Code	Description
0038	4111	WRITE failed on IRA – Sequence 1.
0039	4111	WRITE failed on IRA – Sequence 2.
0040	4111	WRITE failed on IRA – Sequence 3.
0041	4111	WRITE failed on IRA – Sequence 4.
0042	4106	READ/UPDATE failed on ACN.
0043	4106	DELETE failed on ACN.
0044	4106	READ failed on ACN.
0045	4103	READ/UPDATE failed on CST.
0046	4103	REWRITE failed on CST.
0047	4103	READ/UPDATE failed on CST.
0048	4106	WRITE failed on ACN.
0049	4103	REWRITE failed on CST.
0050	4106	READ/UPDATE failed on ACN.
0051	4106	DELETE failed on ACN.
0052	4106	READ failed on ACN.
0053	4103	READ/UPDATE failed on CST.
0054	4103	REWRITE failed on CST.
0055	4103	READ/UPDATE failed on CST.
0056	4106	WRITE failed on ACN.
0057	4103	REWRITE failed on CST.
0058	4109	READ/UPDATE failed on EMN.
0059	4109	DELETE failed on EMN.
0060	4109	READ failed on EMN.
0061	4105	READ/UPDATE failed on EMP.
0062	4105	REWRITE failed on EMP.
0063	4105	READ/UPDATE failed on EMP.
0064	4109	WRITE failed on EMN.
0065	4105	REWRITE failed on EMP.
0066	3051	START BROWSE failed on MICM Record 2002.
0067	3051	READ NEXT failed on MICM Record 2002.
0068-0069	3051	READ failed on MICM Record 2005.

Trace Code	Abort Code	Description
0070	4101	READ failed on BNK.
0071	3051	MICM Record 0231, Map Table verify error.
0072	3051	Cost Center Table verify error.
0073	3051	Secondary Officer Table verify error.
0074	3051	Source of Funds Table verify error.
0075	3051	Alert 1 Table verify error.
0076	3051	Alert 2 Table verify error.
0077	3051	Alert 3 Table verify error.
0078	3051	Alert 4 Table verify error.
0079	3051	Alert 5 Table verify error.
0080	3051	Alert 6 Table verify error.

TILMST01 – Account Purge

Purpose This module flags the account for TID200 (Posting) to create the transactions required to bring balance fields to zero.

Panel Programs TIL210 – Account Purge

API MICM Records

Record Code	Ext Record	Name	Description
0211	M56	MI0211-RECORD	Application Information Record

API Application Records

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data
Portion

The following fields are used by the TILMST01 function module:

Field	Description
ANSWER	<p>Request whether to purge. Valid entries are:</p> <p>NO Do not purge. Y1 Purge, but allow transactions. Y2 Purge, but do not allow transactions.</p> <p><i>Input required.</i></p>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	2033	CICS handle return error.
0004	4102	READ failed on MST.
0005	4102	READ/UPDATE failed on MST.
0006	4102	REWRITE failed on MST.

TILMST02 – Reissue Certificate

Purpose This module reissues an existing Certificate of Deposit and assigns it a new account number, customer number, short name, and social security number.

Panel Programs TIL260 – Reissue CD

API MICM Records

Record Code	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
2001	M01	MI2001-RECORD	Branch Information Record

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
CST	TICST-RECORD	Customer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data
Portion None

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	2033	CICS handle return error.
0004	4102	READ failed on MST.
0005	2033	READ failed on MICM Record 2001.
0006	4102	READ failed on MST.
0007	3051	START failed on MICM Record 2001.
0008	3051	READ NEXT failed on MICM Record 2001.
0009	3051	END BROWSE failed on MICM Record 2001.
0010	4102	READ/UPDATE failed on MST.
0011	4102	REWRITE failed on MST.
0012	4102	WRITE failed on MST.
0013	4103	OPEN failed on CST.
0014	4103	READ failed on CST.
0015	4103	READ/UPDATE failed on CST.
0016	4103	REWRITE failed on CST.
0017	4103	WRITE failed on CST.
0018	4111	OPEN failed on IRA.

Trace Code	Abort Code	Description
0019-0022	4111	WRITE failed on IRA.
0023	4106	OPEN failed on ACN.
0024	4106	WRITE failed on ACN.
0025-0026	3105	RANDOM READ failed on MICM Record 0211.

TILMST03 – Renewal

Purpose This module renews an account into a new type, and specifies certain options for the renewal.

Panel Programs TIL265 – Certificate Renewal

API MICM Records

Record Code	Ext Record	Name	Description
2001	M01 (MI)	MI2001-RECORD	Branch Information Record
3501	M01 (TI)	MI3501-RECORD	Time Investment Type Defaults Record
3505	M05	MI3505-RECORD	Time Investment Renewal Defaults Record

API Application Records

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD RECORD	Operator Dialogue Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion None

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	2033	CICS handle return error.
0004	4102	READ failed on MST.
0005	3051	READ failed on MICM Record 2001.
0006	3051	START BROWSE failed on MICM Record 3501.
0007	3051	READ NEXT failed on MICM Record 3501.
0008	3051	START BROWSE failed on MICM Record 3505.
0009	3051	READ NEXT failed on MICM Record 3505.
0010	4102	READ/UPDATE failed on MST.
0011	4102	REWRITE failed on MST.

TILMST04 – Interface

Purpose This module returns the entire Account Master Record primarily for inquiry purposes and allows other Infopoint systems to maintain the available balance, memo balance, and the hold amount fields.

Panel Programs None

API MICM Records

Record	Ext Record Code	Name	Description
0234	M58	MI0234-RECORD	Federal Withholding Information Record
2001	M01	MI2001-RECORD	Branch Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Processing Parameters Record
3502	M02	MI3502-RECORD	Time Investment Type Processing Parameters Record
3503	M03	MI3503-RECORD	Time Investment Penalty Routine Record

API Application Records

Ext Record Code	Name	Description
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
INT	TIINT-RECORD	Interest Payment History Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record
RAT	TIRAT-RECORD	Rate History Record
TRN	TITRN-RECORD	Transaction History Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILXXX04 function module:

Field	Description
MKUPAMT	Amount to adjust available. <i>Input optional.</i>
MEMOADV	Amount to adjust memo. <i>Input optional.</i>
RHOLDADV	Amount to adjust hold. <i>Input optional.</i>
CURMKUP	Current markup amount. <i>Output.</i>
AVAILABLE	Available balance. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	2033	CICS handle return error.
0003	4102	OPEN failed on MST.
0004	4102	READ failed on MST.
0005	4102	READ/UPDATE failed on MST.
0006	4102	REWRITE failed on MST.
0007	4110	OPEN failed on INT.
0008	4113	OPEN failed on RAT.
0009	4116	OPEN failed on TRN.
0010	4116	GET EQUAL failed on TRN.
0011	4116	GET NEXT failed on TRN.
0012	4113	GET EQUAL failed on RAT.
0013	4113	GET NEXT failed on RAT.
0014	4113	GET EQUAL failed on RAT.
0015	4113	GET NEXT failed on RAT.
0016	4108	GET EQUAL failed on AVL.
0017	4108	GET NEXT failed on AVL.
0018	4108	GET EQUAL failed on AVL.
0019	4108	GET NEXT failed on AVL.
0020	4110	GET EQUAL failed on INT.
0021	4110	GET NEXT failed on INT.
0022	3051	GET failed on BNK.
0023	3051	READ failed on MICM Record 2001.
0024	3051	START failed on MICM Record 3502.
0025	3051	READ NEXT failed on MICM Record 3502.
0026	3051	READ failed on MICM Record 2001.

Trace Code	Abort Code	Description
0027	3051	READ failed on MICM Record 2001.
0028	3051	START failed on MICM Record 3503.
0029	3051	READ NEXT failed on MICM Record 3503.
0030	3051	MICM Record 3503 not found for penalty routine.
0031	3051	READ failed on MICM Record 0234.
0032	4101	OPEN failed on BNK.

TILPAY00 – Payout History

Purpose	This module adds new Payout History Records and deletes or inquiries on existing Payout History Records.
Panel Programs	TIL160 – Customer Payout History
API MICM Records	None
API Application Records	

Ext Record Code	Name	Description
CST	TICST-RECORD	Customer Record
PAY	TIPAY-RECORD	Customer Payout History Record

Files	None
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Message Area Layout

Controls Portion	These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.
Record Portion	The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of <i>Reference Guide 2</i> .

Ext Record Code	Name	Description
PAY	TIPAY-RECORD	Customer Payout History Record

Data Change Portion	For each field accessed in the record portion of this message area, there is a data change field (-DCHG).
Miscellaneous Data Portion	The following fields are used by the TILPAY00 function module:

Field	Description
SELECT KEY	Record selection start key. <i>Input required.</i>

Field	Description
FIRST KEY	Key of first Payout Record for customer. <i>Input required.</i>
SINST	Selected institution. <i>Input required.</i>
SCUSTOMER	Selected customer. <i>Input required.</i>
BRANCH	Customer branch number. <i>Output.</i>
IFSHORT	Customer short name. <i>Output.</i>
EMPCD	Customer employee code. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4103	OPEN failed on CST.
0003	4112	OPEN failed on PAY.
0004	2033	CICS handle return error.
0005	4103	READ failed on CST.
0006	4112	READ failed on PAY.
0007	4112	READ NEXT failed on PAY.
0008	4112	READ failed on PAY.
0009	4112	READ NEXT failed on PAY.
0010	4112	WRITE failed on PAY.
0011	4112	READ/UPDATE failed on PAY.
0012	4112	REWRITE failed on PAY.
0013	4103	READ/UPDATE failed on CST.

Trace Code	Abort Code	Description
0014	4112	READ failed on PAY.
0015	4103	REWRITE failed on CST.

TILRAT00 – Rate Change History

Purpose This module maintains the Rate Change Record.

Panel Programs TIL320 – Rate Change History

API MICM Records None

API Application Records

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record
RAT	TIRAT-RECORD	Rate Change Record

Files None

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
RAT	TIRAT-RECORD	Rate Change Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILRAT00 function module:

Field	Description
FIRST KEY	Key of first Rate Record for account. <i>Input required.</i>

Field	Description
SELECT KEY	Record selection start key. <i>Input required.</i>
SINST	Selected institution. <i>Input required.</i>
SACCOUNT	Selected account. <i>Input required.</i>
BRANCH	Account branch number. <i>Output.</i>
MTYPE	Account type number. <i>Output.</i>
EMPCD	Account employee code. <i>Output.</i>
DORM	Account dormant code. <i>Output.</i>
TDOARATECD	Account TDOA rate code. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4113	OPEN failed on RAT.
0004	2033	CICS handle return error.
0005	4102	READ failed on MST.
0006	4113	READ failed on RAT.
0007	4113	READ NEXT failed on RAT.
0008	4113	READ failed on RAT.
0009	4113	READ NEXT failed on RAT.

Trace Code	Abort Code	Description
0010	4113	READ/UPDATE failed on RAT.
0011	4113	WRITE failed on RAT.
0012	4113	REWRITE failed on RAT.
0013	4113	READ/UPDATE failed on RAT.
0014	4113	DELETE failed on RAT.
0015	4102	READ/UPDATE failed on MST.
0016	4113	READ failed on RAT.
0017	4102	REWRITE failed on MST.

TILTRN00 – Transaction History

Purpose This module passes the Transaction History Record for all accounts (inquiry only).

Panel Programs
TIL909 – Transaction History (one detail line)
TIL910 – Transaction History (two detail lines)

API MICM Records

Record	Ext Record Code	Name	Description
2013	M13	MI2013-RECORD	Transaction Code Parameters Record

API Application Records

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
TRD	TITRD-RECORD	Transaction Description Record

Ext Record Code	Name	Description
TRN	TITRN-RECORD	Transaction History Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILTRN00 function module:

Field	Description
SELECT KEY	Record selection start key. <i>Input required.</i>
SINST	Selected institution. <i>Input required.</i>
SACCOUNT	Selected account. <i>Input required.</i>
SEFFDT	Selected start effective date. <i>Input required.</i>
BRANCH	Account branch number. <i>Output.</i>
MTYPE	Account type number. <i>Output.</i>
IFSHORT	Account short name. <i>Output.</i>
EMPCD	Account employee code. <i>Output.</i>
DORM	Account dormant code. <i>Output.</i>
PASSBOOK	Passbook indicator. <i>Output.</i>
BALCUR	Current account balance. <i>Output.</i>
DEBITS	Number of debits. <i>Output.</i>
CREDITS	Number of credits. <i>Output.</i>

Field	Description
BKDATE	Booked date (Passbook). <i>Output.</i>
BKBAL	Booked balance (Passbook). <i>Output.</i>
UNBKINT	Unbooked interest (Passbook). <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4116	OPEN failed on TRN.
0004	4118	OPEN failed on TRD.
0005	2033	CICS handle return error.
0006	4102	READ failed on MST.
0007	4116	READ failed on TRN.
0008	4118	READ failed on TRD.
0009	4116	READ NEXT failed on TRN.
0010	4118	READ failed on TRD.
0011-0012	3051	READ failed on MICM Record 2013.

TILXRL00 – Statement Copies

Purpose This module adds, changes, and deletes customer relational key records on the Statement Copies Record.

Panel Programs TIL300 – Statement Copies

API MICM Records

Record Code	Ext Record Code	Name	Description
0980	M98	MI0980-RECORD	Customer Name and Address Information Record

API Application Records

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

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

Message Area Layout

Controls Portion

These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion

The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
OPD	MIOPD-RECORD	Operator Dialogue Record
XRL	TIXRL-RECORD	Statement Copies Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILXRL00 function module:

Field	Description
TBLCOUNT	Counter for number of XRL Records. <i>Output.</i>
MDORM	Account dormant code. <i>Output.</i>
MEMPCD	Account employee code. <i>Output.</i>
IFSHORT	Account short name. <i>Output.</i>
MBRANCH	Account branch. <i>Output.</i>
MTYPE	Account type. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	4117	OPEN failed on XRL.
0004	2033	CICS handle return error.
0005	4102	READ failed on MST.
0006	3051	READ failed on MICM Record 0980.
0007	4117	WRITE failed on XRL.
0008	4117	READ/UPDATE failed on XRL.
0009	4117	DELETE failed on XRL.

Trace Code	Abort Code	Description
0010	4117	WRITE failed on XRL.
0011	4117	READ/UPDATE failed on XRL.
0012	4117	DELETE failed on XRL.
0013	4102	READ/UPDATE failed on MST.
0014	4102	REWRITE failed on MST.
0015	4117	READ failed on XRL.
0016	4117	READ NEXT failed on XRL.

TILXXX01 – Closing Value

Purpose This module returns closing value information for an account. The information is based on the current date or on an entered date.

Panel Programs TIL904 – Closing Value

API MICM Records

Record Code	Ext Record	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0234	M58	MI0234-RECORD	Federal Withholding Information Record
2001	M01	MI2001-RECORD	Branch Information Record
2021	M21	MI2021-RECORD	Institution Holidays Record
3502	M02	MI3502-RECORD	Time Investment Type Processing Parameters Record
3503	M03	MI3503-RECORD	Time Investment Penalty Routines Record

API Application Records

Ext Record Code	Name	Description
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
INT	TIINT-RECORD	Interest Payment History Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record
RAT	TIRAT-RECORD	Rate History Record
TRN	TITRN-RECORD	Transaction History Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILXXX01 function module:

Field	Description
CLSEFFDT	Effective date. <i>Input.</i>
FEDHOLD1	TIN certification withholding. <i>Output.</i>
FEDHOLD2	TIN certification withholding. <i>Output.</i>
CLSNOPEN	Closing value excluding penalty. <i>Output.</i>
RENNXT	Renewal maturity date. <i>Output.</i>
FLOAT	Total customer float amount. <i>Output.</i>
AVAILBAL	Calculated available balance. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4102	OPEN failed on MST.
0003	2033	CICS handle return error.
0004	4102	READ failed on MST.
0005	3051	READ failed on MICM Record 2001.
0006	3051	START BROWSE failed on MICM Record 3502.
0007	3051	READ NEXT failed on MICM Record 3502.
0008	4101	OPEN failed on BNK.
0009	4108	OPEN failed on AVL.
0010	4110	OPEN failed on INT.
0011	4113	OPEN failed on RAT.
0012	4116	OPEN failed on TRN.
0013	4116	READ failed on TRN.
0014	4116	READ NEXT failed on TRN.
0015	4113	READ failed on RAT.
0016	4113	READ NEXT failed on RAT.
0017	4113	READ failed on RAT.
0018	4113	READ NEXT failed on RAT.
0019	4108	READ failed on AVL.
0020	4108	READ NEXT failed on AVL.
0021	4108	READ failed on AVL.
0022	4108	READ NEXT failed on AVL.
0023	4110	READ failed on INT.
0024	4110	READ NEXT failed on INT.
0025	4101	READ failed on BNK.
0026-0027	3051	READ failed on MICM Record 2021.

Trace Code	Abort Code	Description
0028	3051	START BROWSE failed on MICM Record 3503.
0029	3051	READ NEXT failed on MICM Record 3503.
0030	3051	END BROWSE failed on MICM Record 3503.
0031	3051	READ failed on MICM Record 0234.

TILXXX02 – Penalty Calculation

Purpose This module calculates penalties on amounts withdrawn.

Panel Programs TIL905 – Penalty Calculation

API MICM Records

Record Code	Ext Record	Name	Description
2001	M01	MI2001-RECORD	Branch Information Record
3503	M03	MI3503-RECORD	Time Investment Penalty Routines Record

API Application Records

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

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion None

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4101	OPEN failed on BNK.
0003	4102	OPEN failed on MST.
0004	4108	OPEN failed on AVL.
0005	2033	CICS handle return error.
0006	4102	READ failed on MST.
0007	4101	READ failed on BNK.
0008	3051	READ failed on MICM Record 2001.
0009	3051	START BROWSE failed on MICM Record 3503.
0010	3051	READ NEXT failed on MICM Record 3503.
0011	3051	READ failed on MICM Record 3503.
0012	4108	READ failed on AVL.
0013	4108	READ NEXT failed on AVL.

TILXXX03 – Required Minimum Distribution

Purpose This module calculates the required minimum distribution for customers with retirement accounts.

Note: The required minimum distribution calculation is based on the fair market value of the retirement accounts and the customer's life expectancy.

Panel Programs TIL270 – Required Minimum Distribution

API MICM Records

Record Code	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
CST	TICST-RECORD	Customer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record
OPD	MIOPD-RECORD	Operator Dialogue Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
CST	TICST-RECORD	Customer Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion The following fields are used by the TILXXX03 function module:

Field	Description
CURRMD	Current minimum distribution. <i>Output.</i>
RCCURYY	Current year recalculation method. <i>Output.</i>
RCNXTYY	Next year recalculation method. <i>Output.</i>
RDCURYY	Current year reduction method. <i>Output.</i>
RDNXTYY	Next year reduction method. <i>Output.</i>
RCCURMON	Current year's monthly distribution recalculation method. <i>Output.</i>
RCNXTMON	Next year's monthly distribution recalculation method. <i>Output.</i>
RDCURMON	Current year's monthly distribution reduction method. <i>Output.</i>
RDNXTMON	Next year's monthly distribution reduction method. <i>Output.</i>
RCCURQTR	Current year's quarterly distribution recalculation method. <i>Output.</i>
RCNXTQTR	Next year's quarterly distribution recalculation method. <i>Output.</i>
RDCURQTR	Current year's quarterly distribution reduction method. <i>Output.</i>
RDNXTQTR	Next year's quarterly distribution reduction method. <i>Output.</i>

Field	Description
RCCURSEM	Current year's semi-annual distribution recalculation method. <i>Output.</i>
RDCURQTR	Next year's semi-annual distribution recalculation method. <i>Output.</i>
RDCURSEM	Current year's semi-annual distribution reduction method. <i>Output.</i>
RDNXTSEM	Next year's semi-annual distribution reduction method. <i>Output.</i>
RCCURANL	Current year's annual distribution recalculation method. <i>Output.</i>
RCNXTANL	Next year's annual distribution recalculation method. <i>Output.</i>
RDCURANL	Current year's annual distribution reduction method. <i>Output.</i>
RDNXTANL	Next year's annual distribution reduction method. <i>Output.</i>
CURFAIR	Current year's fair market value. <i>Input optional.</i>
NXTFAIR	Next year's fair market value. <i>Input optional.</i>
RCCURLIF	Current year's life expectancy recalculation method. <i>Output.</i>
RCNXTLIF	Next year's life expectancy recalculation method. <i>Output.</i>
RDCURLIF	Current year's life expectancy reduction method. <i>Output.</i>
RDNXTLIF	Next year's life expectancy reduction method. <i>Output.</i>

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0002	4103	OPEN failed on CST.
0003	4106	OPEN failed on ACN.
0004	4111	OPEN failed on IRA.
0005	4102	OPEN failed on MST.
0006	2033	CICS handle return error.
0007	4103	READ failed on CST.
0008	4111	READ failed on IRA.
0009	4106	READ failed on ACN.
0010	4106	READ NEXT failed on ACN.
0011	4102	READ failed on MST.

TILXXX04 – Passbook Conversion

Purpose This module converts a Passbook account to a statement Savings account.
Important! All transactions must be booked in order for this module to convert the account. If unbooked transactions exist, the request is denied.

Panel Programs TIL907 – Passbook Conversion

API MICM Records

Record	Ext Record Code	Name	Description
2001	M01	MI2001-RECORD	Branch Information Record
2005	M05	MI2005-RECORD	Cycles Information Record
3501	M01	MI3501-RECORD	Time Investment Type Defaults Record

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

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

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.

Record Portion The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion None

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	No common area received.
0004	2033	CICS handle return error.
0005	4102	READ failed on MST.
0006	3051	READ failed on MICM Record 2001.
0007	3051	START BROWSE failed on MICM Record 3501.
0008	3051	READ NEXT failed on MICM Record 3501.
0009	3051	MICM Record 3501 not found.
0011	4102	READ/UPDATE failed on MST.
0012	4102	REWRITE failed on MST.
0020-0021	3051	RANDOM READ failed on MICM Record 2005.

TILXXX05 – Forecast Interest/APY

Purpose	This module calculates a forecasted interest rate or annual percentage yield based on information passed to the module.				
	Note: The calculation can project the APY or interest rate or both on an existing account or for a hypothetical account.				
Panel Programs	TIL275 – Forecast Interest/APY				
API MICM Records					
Record Code	Ext Record	Name	Description		
2001	M01 (MI)	MI2001-RECORD	Branch Information Record		
2002	M02	MI2002-RECORD	Index Rate Record		
2005	M05	MI2005-RECORD	Cycle Information Record		
3500	M00	MI3500-RECORD	Time Investment Institution Processing Parameters Record		
3501	M01 (TI)	MI3501-RECORD	Time Investment Type Defaults Record		
3504	M04	MI3504-RECORD	Time Investment Interest Rate Tables Record		
API Application Records					
Ext Record Code	Name	Description			
BNK	TIBNK-RECORD	Institution Control Record			
MST	TIMST-RECORD	Account Master Record			
Files					
File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Sequential	Variable

Message Area Layout

Controls Portion	These fields are detailed at the beginning of this Function Module section. Controls portion fields are identical across all Infopoint applications.
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Record Portion

The following API records are used in the Record Portion of this function module. While the entire record is usually used, there are some cases where only a portion of the record is used. For detailed information on each record, refer to the API Records chapter of *Reference Guide 2*.

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record

Data Change Portion

For each field accessed in the record portion of this message area, there is a data change field (-DCHG).

Miscellaneous Data Portion

None

Abort Information

If the function module detects processing irregularities, it displays a panel that includes codes and information from the issuing program, key information from the command line, message lines from MICM Record 0404 (Online Abort Messages), and debug information from the server.

Trace Code	Abort Code	Description
0001	2000	CICS handle return error.
0003	4101	READ failed on BNK.
0005	2033	CICS handle return error.
0006	3051	RANDOM READ failed on MICM Record 3500.
0007	3051	START BROWSE failed on MICM Record 3501.
0008	3051	READ NEXT failed on MICM Record 3501.
0009	3051	START BROWSE failed on MICM Record 3504.
0010	3051	READ NEXT failed on MICM Record 3504.
0011-0012	3051	RANDOM READ failed on MICM Record 2005.
0013	3051	START BROWSE failed on MICM Record 2002.
0014	3051	READ NEXT failed on MICM Record 2002.
0015-0016	3051	RANDOM READ failed on MICM Record 2005.

This chapter provides you with the details of each batch program used in Time Investment. Each batch program description contains:

Purpose	Provides a description of the program.
API MICM Records	Lists, in numeric order, the MICM records accessed by the program.
API Application Records	Describes, in alphanumeric order, each API record used in the program.
Files	Describes the general attributes of each VSAM file accessed by the program. These are listed within the logical order of input, input/output, output/input, and output.
Reports	Lists any reports printed by the program or any reports whose records are generated by the program. If the program generates the report records, the name of the program that prints the report is also provided.
Control Card	Provides a detailed description of the control card format and options.
Abort Information	Lists the abort codes and a description of the problem encountered.

File Handling

File handling is done by using called I/O routines. All of the I/O routines are written in COBOL. They are written to process keyed or relative record files. The routines supplied with the system are written for VSAM; however, they can be replaced with routines written for other access methods. In this way, the access method can be changed without affecting the logic of the program that calls the file handling routine.

File handling routines control the opening, closing, and accessing of the files. They function as a link between the program and the file. This interactive communication is done through the use of function codes and return codes.

Rather than having separate modules for dynamic and sequential access to our VSAM files, each file now has one module that performs both the load and I/O functions.

Using this method requires the expansion of the function field. There are 3 function fields passed to the I/O modules. Additionally, there is a 50-byte message area used to return any error messages to the calling program. These four fields are contained in a group level called WS-IOFUNCTION that is passed in the linkage section in front of the record itself.

The first function field contains the type of file I/O:

- A** Add a record.
- B** Start a browse (and read the next record).
- C** Close the file.
- D** Delete a record.
- N** Read the next record.
- O** Open the file.
- R** Read a record.
- S** Start a browse.
- W** Write a record.

The second function field contains the file access method:

- D** Dynamic.
- S** Sequential.

The third function field is the type of OPEN to be performed (used if this is the first call to a closed file):

- E** Load extend (open extend).
- L** Load (open output).
- R** Read only (open input).
- U** Update (open I/O).

The next 50 positions are for any messages to be returned to the calling program when an error condition occurs. This may be formatted to show the key for the requested record.

Upon return, the first function field contains one of the following return codes if an error has been encountered:

- =** Duplicate found when attempting add.
- E** End of file (applies to sequential read).
- F** File is full; ADD not made.
- I** Invalid start.
- N** No record found (applies to random read).
- O** I/O error.
- X** Invalid function code.

If the call was completed correctly, the first function field is equal to blanks. The other two function fields always equal blanks upon completion of the call.

The following I/O routines are called in Time Investment:

- TIICPI** Capture File I/O.
- TIICPL** Capture File Load.
- TIITEMP** Temporary Work File Access.

API VSAM File Structures Table

This table contains the record definitions of the Time Investment VSAM Control Table entries, as provided by Infopoint. This information is used to control the physical requirements for the API records used by Time Investment. The logical file names are listed with the API Record IDs they contain. The logical file name can be equated to the DD or DLBL name in the job control language.

Logical File Name	API Record ID
TIFL01	ASG, BNK, XRL
TIFL02	CST
TIFL03	MST
TIFL04	TRN, TRD
TIFL05	IRA
TIFL06	EMP, INT
TIFL07	PAY
TIFL08	ACN, EMN, RAT
TIFL09	AVL
TIFL10	TA1
TIFL11	LOG
TIFL12	TA2

Form Specifications

Standard Time Investment reports print on 8 1/2" x 13 5/8" paper. You set whether the printer prints six or eight lines per inch on the Institution Control Record.

However, certain Time Investment statements and notices are designed to print on special forms. In planning for Time Investment processing, you will need these forms (specifications are listed in the following table). Forms must conform to these measurements, or printing could be incorrect.

Type of Form	Form Specifications
1098 and 1099 Notices	Standard IRS forms
Cards	3" x 5" file cards, 2-up
Checks	12 7/8" x 3 1/2" (check and stub)
Labels	7 lines, 6 lines per inch, three-up on standard name and address labels
Notices	Blank, 1-up, 8 3/8" x 3 1/2"
Notices	8" x 3 5/8"
Notices	8 1/2" x 3 1/2"
Notices	2-up, preprinted, 6 1/4" x 3 1/2"
Year-end Notice	1-up, 6 5/8" x 3 1/2"
NSF Preprinted Notice	1-up, with stub (balance information) 13 7/8" x 3 5/8"
Statements	8 lines/inch, 1- or 2-up on 8 1/2" x 13 5/8"

Form Specifications/Report Cross-reference Table

The following table identifies items that require special forms. (Reports not listed here print on 8 ½" x 13 5/8" paper.)

Number	Title	Specifications
08-016	Overdrawn Account Notice	Blank, 1-up, 8 3/8" x 3 ½"
08-026	Customer Information Sheet	8 lines/inch, 2-up on 8 ½" x 13 5/8"
08-027	Account Information Sheet	8 lines/inch, 2-up on 8 ½" x 13 5/8"
08-028	Checks	12 7/8" x 3 ½" (check and stub)
08-034	New Account 3 x 5 Card	3" x 5" file cards, 2-up
08-035	Requested 3 x 5 Card	3" x 5" file cards, 2-up
08-038	Book Entry CD Receipt (new account)	Blank, 1-up, 8 3/8" x 3 ½"
08-039	Book Entry CD Receipt (requested)	Blank, 1-up, 8 3/8" x 3 ½"
08-044	TDOA Statement	8 lines/inch, 2-up on 8 ½" x 13 5/8"
08-046	Account Statement	8 lines/inch, 2-up on 8 ½" x 13 5/8"
08-047	Customer Statement	8 lines/inch, 2-up on 8 ½" x 13 5/8"
08-048	Business Statement	8 lines/inch, 1-up on 8 ½" x 13 5/8"
08-049	Renewal Notice	1-up, 8 ½" x 11"
08-050	Pre-renewal Notice	1-up, 8 ½" x 11"
08-051	Debit or Credit Memo	Blank, 1-up, 8 3/8" x 3 ½"
08-052	Interest Payment Notice	Blank, 1-up, 8 3/8" x 3 ½"
08-053	Final Maturity Notice	Blank, 1-up, 8 3/8" x 3 ½"
08-059	New Account Label	10 lines/inch, 3-up on standard name and address labels
08-060	Request Label	10 lines/inch, 3-up on standard name and address labels

Number	Title	Specifications
08-071	IRA/Keogh Over Contribution Notice	Blank, 1-up, 8 3/8" x 3 1/2"
08-078	W-8 Notice	Blank, 1-up, 8 3/8" x 3 1/2"
08-079	W-9 Notice	Blank, 1-up, 8 3/8" x 3 1/2"
08-081	Second B-Notice	Blank, 1-up, 8 3/8" x 3 1/2"
08-601	Interest Paid Form – 1099-INT	Standard IRS forms
08-603	Interest Paid Form – 1099-OID	Standard IRS forms
08-605	Distributions Paid Form – 1099-R	Standard IRS forms
08-608	Voluntary Disbursement Notice	1-up, 6 5/8" x 3 1/2"
08-610	20nn IRA Statement of Account	8 lines/inch, 1-up on 8 1/2" x 13 5/8"
08-612	Withholding Notice	1-up, 6 5/8" x 3 1/2"
08-614	W-4P Withholding Notices	1-up, 6 5/8" x 3 1/2"
08-616	Contributions Made Notice – 5498	Standard IRS forms
08-620	Mandatory Disbursement Notice	1-up, 6 5/8" x 3 1/2"
08-621	Change of Minimum Distribution Notice	1-up, 6 5/8" x 3 1/2"
08-622	Mandatory Disbursement Notice – Follow-up 1	1-up, 6 5/8" x 3 1/2"
08-623	Mandatory Disbursement Notice – Follow-up 2	1-up, 6 5/8" x 3 1/2"
08-624	Mandatory Disbursement Notice – Follow-up 3	1-up, 6 5/8" x 3 1/2"
08-705	Audit Confirmation	Blank, 1-up, 8 3/8" x 3 1/2"

Daily Programs

This section describes the daily programs for Time Investment.

TID015 – Checkpoint File Initialization

Purpose This program is used to initialize the Checkpoint File, which maintains the restart status.

API MICM Records None

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICKPT	Checkpoint File	Output	Disk	Sequential	119

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 TICKPT.
0002	ADD failed on TICKPT.
0003	CLOSE failed on TICKPT.

TID020 – Institution Control File Update

Purpose This program maintains and updates the Institution Control Record. This includes existing institutions, as well as the addition of any new institutions.

Changes to existing institutions are processed first. After maintenance is done, new institutions are inserted into the file. The Capture File is formatted each time this program is run.

API MICM Records

Record	Ext Record	Name	Description
Code			
1001	M74	MI1001-RECORD	Institution Information Record
1006	M79	MI1006-RECORD	Error Message Information Record
2021	M21	MI2021-RECORD	Institution Holidays Record

API Application Records

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

Files

File 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
TICAPT	Capture File	Output	Disk	Sequential	234
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-001 – Institution Control File Maintenance
08-002 – Institution Control File Update

Control Card

The control card is optional. Use it for overriding the system date check and when you are processing after midnight.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 21	16	Not used.
22 – 23	2	Form number. Valid entry is 04 .
24 – 25	2	Card number. Valid entry is 00 .
26 – 31	6	Current date. Must be equal to the current date on the Institution Control Record after the dates have been updated for the current processing day. Format is MMDDYY.
32 – 80	49	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 BNK.
0002	READ failed on BNK, Institution 000.
0003	Maintenance entered with errors. Dates will not be rolled.
0004	START failed on BNK, Institution 000.
0005	READ NEXT failed on BNK.
0006	Current date on Institution Control Record does not equal the systems date.
0007	ADD failed on BNK.
0008	REWRITE failed on BNK.
0009	OPEN failed on TICAPT.
0010	CLOSE failed on TICAPT.
0011	CLOSE failed on MIMAST.
0012	CLOSE failed on BNK.

TID030 – Institution Selector – Selective Processing

Purpose This program sequentially reads the Institution records, searching for institutions to be processed during the current run of Time Investment. Institutions are selected by a control card and institution selector cards. If the Institution Control Record is not set for selective processing, this program cannot be run.

Once this program has been run and the institutions have been selected for processing, it cannot be run to select other institutions for processing until the institutions first selected have been processed, or this program is rerun with the 'RESET' option in the control card.

API MICM Records

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

API Application Records

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

Files

File 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 08-913 – Institution Selection Report

Control Card 1 This control card is required.

Columns	Size	Description
01 – 06	6	Valid entries are SELECT or RESET .
07 – 80	74	Not used.

Control Card 2

This control card is optional unless the first control card option is 'SELECT'.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number for the institution being selected or reset.
06 – 80	75	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 BNK.
0002	READ failed on BNK, Institution 000.
0003	Control card is missing.
0004	Control card contains invalid data.
0005	START failed on BNK, Institution 000.
0006	READ NEXT failed on BNK.
0007	READ failed on MICM Record 1001.
0008	No matching institution found for the institution selected.
0009	No matching institution found for the institution being reset.
0010	REWRITE failed on BNK.
0011	READ failed on MICM Record 1001.
0012	CLOSE failed on MIMAST.
0013	CLOSE failed on BNK.

TID035 – Online Maintenance Extract

Purpose This program sequentially reads the Log Record and updates the Report, Activity, and Checkpoint Files. In addition, this program creates the:

- report records processed by TID036 (Online Maintenance Journal)
- optional output file MIHDTs used to pass maintenance history records to MICM
- history records accessed by the TIMAINT (Maintenance History) panel

API MICM Records None

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
EMP	TIEMP-RECORD	Employer Record
LOG	TILOG-RECORD	Log Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MICARD	Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
MIAMTT	Application Management Table File	Input	Disk	Sequential	4038
MILOGS	Work File	I/O	Disk	Sequential	4282
SORTWK1	Sort Work File	I/O	Disk	Sequential	n/a
MIHDTs	MICM Maintenance History Daily Transaction File (opt.)	Output	Disk	Sequential	246
TIRPTO	Online Report File	Output	Disk	Sequential	498
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-043 – Online Control Card Entry

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Not used.
04 – 11	8	Start date.
12 – 12	1	Not used.
13 – 18	6	Start time.
19 – 19	1	Not used.
20 – 27	8	End date.
28 – 28	1	Not used.
29 – 34	6	End time.
35 – 35	1	Not used.
36 – 36	1	Print/Fiche code. Valid entries are 1 – 3 .
37 – 38	2	Form code.
39 – 39	1	Not used.
40 – 40	1	Lines per inch. Valid entries are 6 or 8 .
41 – 41	1	Not used.
42 – 42	1	Update MIHDTs. Valid entries are: b Do not write maintenance history to MIHDTs. X Write maintenance history to MIHDTs.
43 – 80	38	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	System number on the control card is invalid.
0003	Start date on the control card is invalid.
0004	End date on the control card is invalid.
0005-0006	Start time on the control card is invalid.
0007-0008	End time on the control card is invalid.

Code	Description
0009	Print/Fiche code on the control card is invalid.
0010	Lines per inch on the control card is invalid.
0011	MIB700 aborted.
0012	READ failed on BNK.
0013	WRITE failed on TIRPTO.
0014	CLOSE failed on TIRPTO.
0015	OPEN failed on TIRPTO.
0016	WRITE failed on MIHDT.
0017	CLOSE failed on MIHDT.

TID036 – Online Maintenance Journal

Purpose This program prints the Online Maintenance Journal from the Online Report File generated by TID035.

API MICM Records

Record Code	Ext Record	Name	Description
0020	M50	MI0020-RECORD	Holding Company Information Record
0021	M51	MI0021-RECORD	Region Information Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch Information Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIRPTO	Online Report File	Input	Disk	Sequential	480
SORTWK1	Sort File	I/O	Disk	Sequential	n/a
PRINTR	Print File	Output	Printer	Sequential	133

Reports

- 08-040 – Online Maintenance Journal (for all accounts or non-dormant accounts)
- 08-041 – Online Maintenance Journal (for dormant accounts)
- 08-043 – Online Control Card Entry

Note: Refer to the Maintenance Journals section of the Application Processing chapter in *Procedures Guide 1* for details pertaining to producing 08-040 and 08-041.

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	SORT return is invalid.
0002	READ NEXT failed on TIRPTO.
0003	READ failed on BNK.
0004	READ failed on MICM Record 0307, Record 02.
0005	READ failed on MICM Record 0307, Record 03.
0006	START failed on MICM Record 2001.
0007	READ NEXT failed on MICM Record 2001.
0008	Region Number Table exceeded.
0009	Not found on Region Table.
0010	READ failed on MICM Record 1001.
0011	CLOSE failed on MIMAST.
0012	CLOSE failed on TIRPTO.
0013	CLOSE failed on BNK.
0014	Records Table exceeded.
0015	READ failed on BNK.
0016	READ failed on MICM Record 0020, Institution 000.
0017	START failed on MICM Record 2001.
0018	READ NEXT failed on MICM Record 2001.
0019	Region Number Table exceeded.
0020	Not found on Region Table.
0021	READ failed on MICM Record 0021.

TID037 – Passbook Transaction Purge

Purpose This program purges transactions of Passbook accounts that have been converted to statement Savings accounts. A control card is required to process one or all institutions. The Passbook Conversion Transaction (TIPBCONV) sets TIMST-MFLAG4 to 'P', indicating all booked transactions are to be purged. If this program is not run, the Posting program (TID200) purges the transactions.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
MST	TIMST-RECORD	Account Master Record
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record

Files

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

Reports None

Control Card All control cards are inserted in the job stream after the execute card and before the end-of-data card. The format of the control card is as follows:

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TID037 .
09 – 11	3	Institution number. Valid entries are: ALL Process all institutions. 001 – 999 Process one institution.
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	OPEN failed on MST.
0002	OPEN failed on TRN.
0003	OPEN failed on TRD.
0004	System number on the control card is invalid.
0005	Program number on the control card is invalid.
0006	Institution number on the control card is invalid.
0007	READ NEXT failed on MST.
0008	REWRITE failed on TRN.
0009	READ NEXT failed on TRN.
0010	DELETE failed on TRN.
0011	READ NEXT failed on TRD.
0012	DELETE failed on TRD.
0013	CLOSE failed on MST.
0014	CLOSE failed on TRN.
0015	CLOSE failed on TRD.

TID040 – Maintenance Input Sort

Purpose This program is used for all non-monetary maintenance performed on records. It reads and sorts the Maintenance Input File. The maintenance input can be cards, tape, and/or disk, depending on the option selected on the control card. If the control card is not present, the input is assumed to be on cards.

API MICM Records None

API Application Records

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

Files

File 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	O/I	Disk	Sequential	112
TICRDO	Maintenance Card File	Output	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-202 – Load Input to Disk

Control Card The control card is optional.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TID040 .
09 – 09	1	Disk input. Valid entries are: b No disk input. X Disk input.

Columns	Size	Description
10 – 10	1	Tape input. Number of tapes to be used as input. Valid entries are 0 – 9.
11 – 11	1	Print option. Valid entries are: b Print report. Other Suppression of printout.
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	Disk input on the control card is invalid.
0005	Tape input on the control card is invalid.
0006	CLOSE failed on BNK.

TID060 – New and Maintenance Input Edit

Purpose This program edits new accounts, maintenance, and other non-monetary transactions against the Account Master Record, Customer Record, and other pertinent records.

Cards from individual input forms are edited as a set. Errors cause a card or card set to be rejected. All fields in a card set are edited even if an error is found in a field.

This program produces report 08-003 (New and Maintenance Input Edit), which might list all input, or only the rejected items with all errors found depending on the option selected. Cards or card sets successfully edited are written to the Edited Maintenance File.

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
1006	M79	MI1006-RECORD	Error Message Information Record
2001	M01 (MI)	MI2001-RECORD	Branch Information Record
2002	M02 (MI)	MI2002-RECORD	Index Rate Record
2005	M05	MI2005-RECORD	Cycles Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3501	M01 (TI)	MI3501-RECORD	Time Investment Type Defaults Record
3502	M02 (TI)	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 Records

Record Code	Ext Record Code	Name	Description
3507	M07	MI3507-RECORD	Time Investment Service Charge Parameters Record

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
CST	TICST-RECORD	Customer Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
INT	TIINT-RECORD	Interest Payment History Record
MST	TIMST-RECORD	Account Master Record
PAY	TIPAY-RECORD	Customer Payout History Record
RAT	TIRAT-RECORD	Rate Change History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TICRDO	Maintenance Card File	Input	Disk	Sequential	80
TITEMP	Temporary File	O/I	Disk	Sequential	27
TIEDIT	Edited Card File	Output	Disk	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-003 – New and Maintenance Input Edit

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, Institution 000.
0002	OPEN failed on TITEMP.
0003	CLOSE failed on BNK.
0004	CLOSE failed on MST.
0005	CLOSE failed on CST.
0007	CLOSE failed on MIMAST.
0008	CLOSE failed on EMP.
0009	CLOSE failed on TITEMP.
0010	Error occurred loading Regional Pricing Records.
0011	ADD failed on TITEMP editing a new customer.
0012	Error occurred loading Regional Pricing Record.
0013	READ NEXT failed on ACN trying to delete a customer, using Form 15, Card 09, field 029.
0014	READ NEXT failed on PAY trying to delete a Customer Payout History Record, using Form 16, Card 00.
0016	Error occurred loading Regional Pricing Records.
0017	ADD failed on TITEMP adding a new Employer.
0018	Error occurred loading Regional Pricing Records.
0019	READ NEXT failed on EMN trying to delete an Employer, using Form 17, Card 09, field 22.
0020	CLOSE failed on TITEMP preparing to process new accounts.
0021	OPEN failed on TITEMP preparing to process new accounts.
0022	Error occurred loading Regional Pricing Records.
0023	READ failed on CST verifying Customer Number on a new account.
0024	READ failed on TITEMP verifying Customer Number on a new account.
0025	READ failed on CST verifying Spousal Number on a new account.
0026	READ failed on TITEMP verifying Spousal Number on a new account.
0027	READ failed on EMP verifying Employer Number on a new account.
0028	READ failed on TITEMP verifying Employer Number on a new account.

Code	Description
0029	ADD failed on TITEMP creating Form 15 For A New Account.
0030	CLOSE failed on TITEMP preparing to process Master maintenance.
0031	OPEN failed on TITEMP preparing to process Master maintenance.
0032-0033	Error occurred loading Regional Pricing Records.
0034	READ failed on INT.
0036	READ NEXT failed on ASG trying to delete an Assignment, using Form 25, Card 00.
0039	READ NEXT failed on ASG trying to add an Assignment, using Form 25, Card 01.
0040	READ failed on XRL trying to delete a Statement Copy, using Form 30, Card 00.
0041	READ NEXT failed on XRL trying to add a Statement Copy, using Form 30, Card 01.
0042	READ NEXT failed on INT trying to delete an Interest History Record, using Form 31, Card 00.
0044	Error occurred loading Regional Pricing Records.
0045	MICM Record 3504 not found.
0046	READ NEXT failed on RAT trying to delete a Rate Change History Record, using Form 32, Card 00.
0048	READ NEXT failed on AVL trying to delete a TDOA Availability Record, using Form 35, Card 00.
0050	WRITE failed. File space exceeded on the Edited Card File.
0051	READ failed on BNK.
0052	READ failed on MICM Record 3500.
0053	READ failed on MICM Record 1001.
0054	READ failed on MICM Record 0211.
0055	START failed on MICM Record 2002.
0056	READ NEXT failed on MICM Record 2002.
0057	START failed on MICM Record 0231.
0058	Table File exceeded, MICM Record 0231, Officer.
0059	START failed on MICM Record 0231, Table 07.
0060	MICM Record 0231, Class not found.
0061	START failed on MICM Record 0231, Table 07.
0062	Table File exceeded, MICM Record 0231, Class.

Code	Description
0063	START failed on MICM Record 0231.
0064	READ NEXT failed on MICM Record 0231.
0067	MICM Record 0231, Class entry spaces.
0068	START failed on MICM Record 2001.
0069	READ NEXT failed on MICM Record 2001.
0070	Error occurred loading Regional Pricing Records.
0071	READ failed on MST verifying Account Number.
0072	READ failed on CST verifying Customer Number.
0073	READ failed on EMP verifying Employer Number.
0074	START failed on MICM Record 0231.
0075	Table file exceeded, MICM Record 0231, Officer 2.
0076	START failed on MICM Record 0231.
0077	Table File exceeded, MICM Record 0231, Cost Center.
0078	START failed on MICM Record 0231.
0079	Table File exceeded, MICM Record 0231, Source of Funds.
0080	START failed on MICM Record 0231.
0081	Table File exceeded, MICM Record 0231, Alert Code 1.
0082	START failed on MICM Record 0231.
0083	Table File exceeded, MICM Record 0231, Alert Code 2.
0085	Table File exceeded, MICM Record 0231, Alert Code 3.
0086	START failed on MICM Record 0231.
0087	Table File exceeded, MICM Record 0231, Alert Code 4.
0088	START failed on MICM Record 0231.
0089	Table File exceeded, MICM Record 0231, Alert Code 5.
0090	START failed on MICM Record 0231.
0091	Table File exceeded, MICM Record 0231, Alert Code 6.
0092	START failed on MICM Record 0231.
0093	Table File exceeded, MICM Record 0231, Map Code.
0094	CLOSE failed on TITEMP.
0095	OPEN failed on TITEMP.

TID080 – Batch File Maintenance

Purpose This program adds new accounts, customers, and pertinent records, and maintains the fields for those records. It creates a Reports File (of the batch input) and an Activity File. The Activity File is input to TID220 and the Reports File is input to TID300.

API MICM Records

Record Code	Ext Record	Name	Description
0234	M58	MI0234-RECORD	Federal Withholding Information Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
2021	M21	MI2021-RECORD	Institution Holidays Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

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
XRL	TIXRL-RECORD	Statement Copies Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIEDIT	Edited Card File	Input	Disk	Sequential	80
TIACT3	Batch Maintenance Activity File	Output	Disk	Sequential	23
TIRPTD	Batch Maintenance Reports File	Output	Disk	Sequential	393

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 CST.
0002	OPEN failed on MST.
0003	OPEN failed on ACN.
0004	OPEN failed on AVL.
0005	OPEN failed on ASG.
0006	OPEN failed on EMN.
0007	OPEN failed on INT.
0008	OPEN failed on IRA.
0009	OPEN failed on PAY.
0010	OPEN failed on RAT.
0011	OPEN failed on XRL.
0012	OPEN failed on EMP.
0013	READ failed on MICM Record 2021.
0014	READ failed on BNK.
0015	READ failed on MICM Record 2021.
0016	READ failed on MICM Record 3500.
0017	READ failed on MICM Record 0234.
0018	READ failed on MICM Record 0307.

Code	Description
0019-0021	WRITE failed. File space exceeded on TIRPTD.
0022	ADD or REWRITE failed on CST.
0023	REWRITE failed on IRA.
0024	REWRITE failed on CST.
0025	READ NEXT failed on PAY when deleting a customer, using Form 15, Card 09, field 029.
0026	DELETE failed on PAY when deleting a customer, using Form 15, Card 09, field 029.
0027	READ NEXT failed on ACN when deleting a customer, using Form 15, Card 09, field 029.
0028	DELETE failed on ACN when deleting a customer, using Form 15, Card 09, field 029.
0029	READ NEXT failed on IRA when deleting a customer, using Form 15, Card 09, field 029.
0030	DELETE failed on IRA when deleting a customer, using Form 15, Card 09, field 029.
0031	DELETE failed on CST when deleting a customer, using Form 15, Card 09, field 029.
0032	ADD failed on IRA.
0033	READ failed on IRA.
0034	READ failed on CST for Form 16.
0035	READ failed on PAY for an ADD, using Form 16, Card 01.
0036	ADD failed on PAY for Form 16, Card 01.
0037	REWRITE failed on CST.
0038	READ failed on PAY for a DELETE, using Form 16, Card 00.
0039	REWRITE failed on PAY for a DELETE, using Form 16, Card 00.
0040	REWRITE failed on CST.
0041	ADD failed on EMP.
0042	REWRITE failed on EMP.
0043	READ NEXT failed on EMN when deleting an employer, using Form 17, Card 09, field 022.
0044-0045	DELETE failed on EMN when deleting an employer, using Form 17, Card 09, field 022.
0046	ADD or REWRITE failed on MST.

Code	Description
0047	READ failed on CST when adding a new account to the Customer Record.
0048	ADD failed on ACN when adding a new account to a customer.
0049	REWRITE failed on CST.
0050	READ failed on CST.
0051	ADD failed on ACN.
0052	REWRITE failed on CST after updating the Account Numbers pointer.
0053	READ failed on EMP.
0054	ADD failed on EMN.
0055	REWRITE failed on EMP.
0056	REWRITE failed on MST.
0057	READ failed on CST for the old Customer Number when changing the Customer Number, using Form 20, Card 09, field 045.
0058	Account Number pointer for old Customer Number is not 'X' when changing the Customer Number, using Form 20, Card 09, field 045.
0059	READ NEXT failed on ACN for the old Customer Number when changing the Customer Number, using Form 20, Card 09, field 045.
0060	No ACN record exists for the old Customer Number when changing the Customer Number, using Form 20, Card 09, field 045.
0061	DELETE failed on ACN for the old Customer Number when changing the Customer Number, using Form 20, Card 09, field 045.
0062	READ NEXT failed on ACN for the old customer when verifying the Account Number pointer.
0063	REWRITE failed on CST when clearing the Account Number pointer.
0064	READ failed on CST for the new Customer Number when changing the Customer Number, using Form 20, Card 09, field 045.
0065	ADD failed on ACN for the new Customer Number when changing the Customer Number, using Form 20, Card 09, field 045.
0066	REWRITE failed on CST while updating the Account Numbers pointer on the new customer when changing the Customer Number, using Form 20, Card 09, field 045.
0067	READ failed on CST for the old Spousal Number when changing the Spousal Number, using Form 20, Card 09, field 066.
0068	Account Number pointer for the old Spousal Number is not 'X' when changing the Spousal Number, using Form 20, Card 09, field 066.

Code	Description
0069	READ NEXT failed on ACN for the old Spousal Number when changing the Spousal Number, using Form 20, Card 09, field 066.
0070	No ACN record exists for the old Spousal Number when changing the Spousal Number, using Form 20, Card 09, field 066.
0071	DELETE failed on ACN for the old Spousal Number when changing the Spousal Number, using Form 20, Card 09, field 066.
0072	READ NEXT failed on ACN for the old Spousal Number when verifying the Account Number pointer.
0073	REWRITE failed on CST when clearing the Account Number pointer.
0074	READ failed on CST for the new Spousal Number when changing the Spousal Number, using Form 20, Card 09, field 066.
0075	ADD failed on ACN for the new Spousal Number when changing the Spousal Number, using Form 20, Card 09, field 066.
0076	REWRITE failed CST while updating the Account Numbers pointer on the new Spousal when changing the Spousal Number, using Form 20, Card 09, field 066.
0077	READ failed on EMP for the old Employer Number when changing the Employer Number, using Form 20, Card 09, field 097.
0078	READ failed on EMN for the old Employer Number when changing the Employer Number, using Form 20, Card 09, field 097.
0079	DELETE failed on EMN for the old Employer Number when changing the Employer Number, using Form 20, Card 09, field 097.
0080	READ NEXT failed on EMN for the old Employer Number when verifying the Account Number pointer.
0081	REWRITE failed on EMP when clearing the Account Number pointer.
0082	READ failed on EMP for the new Employer Number when changing the Employer Number, using Form 20, Card 09, field 097.
0083	ADD failed on EMN for the new Employer Number when changing the Employer Number, using Form 20, Card 09, field 097.
0084	REWRITE failed on EMP while updating the Account Number pointer on the new employer when changing the Employer Number, using Form 20, Card 09, field 097.
0085	READ failed on MST, Form 25.
0086	READ failed on ASG while trying to add an assignment, using Form 25, Card 01.
0087	ADD failed on ASG.
0088	REWRITE failed on MST when updating the Assignment pointer.

Code	Description
0089	READ failed on ASG for DELETE, using Form 25, Card 00.
0090	REWRITE failed on ASG.
0091	READ failed on MST, Form 30.
0092	ADD failed on XRL, Form 30.
0093	REWRITE failed on MST when setting the Statement pointer.
0094	READ failed on XRL when deleting a Statement Copy Record, Form 30.
0095	DELETE failed on XRL when deleting a Statement Copy Record, Form 30.
0096	REWRITE failed on MST when clearing the Statement Copy pointer.
0097	READ failed on MST, Form 31.
0098	READ NEXT failed on INT when adding an Interest Payment Record.
0099	ADD failed on INT.
0100	REWRITE failed on MST when updating the Interest Payment pointer.
0101	READ NEXT failed on INT for a DELETE, Form 31, Card 00.
0102	DELETE failed on INT for a DELETE, Form 31, Card 00.
0103	REWRITE failed on MST when clearing the Interest Payment pointer.
0104	READ failed on MST, Form 32.
0105	READ failed on RAT for an ADD, Form 32, Card 00.
0106	ADD/REWRITE failed on RAT, Form 32, Card 00.
0107	REWRITE failed on MST when updating the Rate Change History pointer.
0108	READ failed on RAT for a DELETE, Form 32, Card 00.
0109	DELETE failed on RAT for a DELETE, Form 32, Card 00.
0110	REWRITE failed on MST when setting the Rate Change pointer.
0111	READ failed on MST, account not found for Form 35.
0112	READ failed on AVL for a DELETE, Form 35, Card 00.
0113	DELETE failed on AVL for a DELETE, Form 35, Card 00.
0114	REWRITE failed on MST when clearing the Rate Change pointer.
0115	WRITE failed. File space exceeded on TIACT3.
0116	CLOSE failed on BNK.
0117	CLOSE failed on CST.
0118	CLOSE failed on MST.

Code	Description
0119	CLOSE failed on EMP.
0120	CLOSE failed on MIMAST.
0121	READ NEXT failed on CST.
0122	READ NEXT failed on MST.
0123	READ failed on ASG when deleting a closed to posting order.

TID100 – Capture Listing

Purpose This program captures monetary transactions and adds them to the Capture File. (The Capture File is originally formatted by TID020.) The program is run as many times as necessary in order to accumulate the monetary transactions during the day. If desired, all institutions can be processed at one time.

The Transaction Input File can be on cards, tape, or disk depending on the option selected on the control card.

Note: Since pointers on the Capture File are updated only upon successful completion of the job, corrections must be made if the program aborts. Then, all transactions must be input and the job rerun with the appropriate return code in the control card. Otherwise, enter only the corrected transactions and run TID100 again.

API MICM Records

Record	Ext Record Code	Name	Description
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01 (MI)	MI2001-RECORD	Branch Information Record
2013	M13	MI2013-RECORD	Transaction Code Parameters Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3501	M01 (TI)	MI3501-RECORD	Time Investment Type Defaults Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TIFM10	Transaction Card File (opt.)	Input	Card	Sequential	80
TITAPE	Tape File (opt.)	Input	Tape	Sequential	80

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIDISK	Disk File (opt.)	Input	Disk	Sequential	80
TICAPT	Capture File	I/O	Disk	Sequential	234
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-203 – Capture Listing – Application 08

Control Card 1 The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 21	16	Not used.
22 – 25	4	Form/Card. Valid entry is 0300 .
26 – 26	1	Run code. Valid entries are: b Normal run. R Rerun.
27 – 27	1	Card input code. Card input is always assumed.
28 – 28	1	Disk input code. Valid entries are: b No disk input. X Disk input.
29 – 29	1	Tape input code. Valid entries are: b No tape input. 1 – 9 Number of input tapes.
30 – 30	1	Pass code. Valid entry is b , indicating primary pass.
31 – 31	1	Sort pattern. Valid entry is b , indicating normal sort pattern.
32 – 32	1	Restart code. Valid entry is b , indicating normal run.
33 – 36	4	Source code.
37 – 40	4	Default transaction code. Valid entries are b or a valid transaction code.
41 – 46	6	Effective date. Format is MMDDYY.

Columns	Size	Description
47 – 47	1	Debit/Credit code. Valid entries are: B Both. C Credits. D Debits.
48 – 48	1	Force code. b or N Do not force all items to the default transaction code. Y Force all items to the default transaction code.
49 – 50	2	Application code. Valid entries are: b Application. PB Passbook.
51 – 55	5	Application abbreviation. User-defined.
56 – 80	25	Not used.

Note: If running multi-institution capture, only use one Form 0300 control card for one of the institution's being processed. The program automatically processes the other institutions included in that capture run.

Control Card 2

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 21	16	Not used.
22 – 23	2	Form number. Valid entry is 10 .
24 – 25	2	Card number. Valid entries are: 07 Batch total requested. 08 Block total requested.
26 – 32	7	Not used.
33 – 36	4	Source code.
37 – 40	4	Default transaction code. Valid entry is b or a valid transaction code.
41 – 46	6	Effective date. Format is MMDDYY.
47 – 47	1	Debit/Credit code. B Both. C Credits. D Debits.

Columns	Size	Description
48 – 80	33	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	System number on the control card is invalid.
0003	Institution number on the control card is invalid.
0004	Form number on the control card is invalid.
0005	READ failed on BNK.
0006	READ failed on MICM Record 1001.
0007	Cannot process with MICR transactions.
0008	Disk input on the control card is invalid.
0009	Tape input on the control card is invalid.
0010	READ failed on MICM Record 3500.
0011-0012	Effective date on the control card is invalid.
0013	READ failed on BNK, Institution 000.
0014	OPEN failed on TICAPT.
0015	REWRITE failed on TICAPT.
0016	START BROWSE failed on MICM Record 3501.
0017	MICM Record 2013 not found.
0018-0019	ADD failed on TICAPT.
0020	START failed on TICAPT.
0021	READ failed on MICM Record 1001.
0022	READ failed on MICM Record 3500.
0023	MICM Record 2013 exceeds table size of 1000.
0025	CLOSE failed on TICAPT.
0026	CLOSE failed on MIMAST.

TID110 – Item Deletion

Purpose This program reads and sorts the Item Deletion File, creating the Sorted Item Deletion File used to delete items from the Capture File.

API MICM Records

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

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TIFM13	Item Deletion File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TICAPT	Capture File	I/O	Disk	Sequential	234
TIDLTN	Sorted Item Deletion File	O/I	Disk	Sequential	128
SORTWK1	Sort Work File	O/I	Disk	Sequential	128
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-204 – Item Deletion Report

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, Institution 000.
0002	OPEN failed on TICAPT.
0003	READ NEXT failed on TICAPT.
0004	CLOSE failed on TICAPT.

TID113 – PODX File Reformatter

Purpose This program reads a POD Extract File that is in a format prior to Time Investment 8.3 and reformats it into Time Investment 8.3 format.

API MICM Records

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

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIPODI	PODX Extract File	Input	Disk	Sequential	84
TIPODX	POD Extract File	Output	Disk	Sequential	84
PRNTER	Printer File	Output	Printer	Sequential	133

Reports 08-083 – PODX File Reformatter

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, Institution 000.
0002	READ failed on MICM Record 1001, Institution 000.
0003	WRITE failed on TIPODX.
0004	CLOSE failed on BNK.
0005	CLOSE failed on MIMAST.

TID120 – Transaction Sort

Purpose This program sorts monetary transactions for posting, inserts list post headers with zero amounts, and creates pre-posting records and a net posting record for each account. A control card can be used to select either the Capture File or the POD Extract File or both to be used.

API MICM Records

Record Code	Ext Record Code	Name	Description
2013	M13	MI2013-RECORD	Transaction Code Parameters Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TIFM13	Item Deletion File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TICAPT	Capture File (opt.)	Input	Disk	Sequential	234
TIPODX	POD Extract File (opt.)	Input	Disk	Sequential	84
TIPOST	Posting Transaction File	I/O	Disk	Sequential	80
SORTWK1	Sort Work File	O/I	Disk	Sequential	128
TIWORK	Work File	O/I	Disk	Sequential	20

Reports

None

Control Card This card is optional. If not entered, the default is to process the Capture File only.

Columns	Size	Description
01 – 05	5	Not used.

Columns	Size	Description
06 – 21	16	File selection code. Left-justified. Valid entries are: BOTH Both files. CAPTURE Capture File. POD POD Extract File.
22 – 23	2	Form number. Valid entry is 03 .
24 – 80	57	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	Form number on the control card is invalid.
0003	More than one control card was entered.
0004	File selection code on the control card is invalid.
0005	Error occurred during sort.
0006	READ failed on BNK.
0007-0008	More than 1000 MICM Records 2013, with application '08'.
0009	START failed on TICAPT.
0010	READ NEXT failed on TICAPT.
0011	READ failed on BNK.
0012	CLOSE failed on TICAPT.
0013	CLOSE failed on BNK.
0014	CLOSE failed on MIMAST.
0015	WRITE failed. File space exceeded on TIPOST.
0016	READ failed on BNK.
0017	WRITE failed. File space exceeded on TIPOST.
0018	WRITE failed. File space exceeded on TIWORK.
0019	WRITE failed. File space exceeded on TIPOST.

TID200 – Posting

Purpose This program performs all daily, monthly, and annual updating for the Account Master File and Customer File records. All daily reports and statements are spooled.

API MICM Records

Record	Ext Record Code	Name	Description
0231	M83	MI0231-RECORD	Application Edit Table Record
0234	M58	MI0234-RECORD	Federal Withholding Information Record
0301	M63	MI0301-RECORD	Application System Option Flags Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01 (MI)	MI2001-RECORD	Branch Information Record
2002	M02 (MI)	MI2002-RECORD	Index Rate Record
2005	M05 (MI)	MI2005-RECORD	Cycles Information Record
2013	M13	MI2013-RECORD	Transaction Code Parameters 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	M02 (TI)	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
3505	M05 (TI)	MI3505-RECORD	Time Investment Renewal Defaults Record
3506	M06	MI3506-RECORD	Time Investment Title Records
3507	M07	MI3507-RECORD	Time Investment Service Charge Parameters Record

Record Code	Ext Record Code	Name	Description
3508	M08	MI3508-RECORD	Time Investment Monthly Report Record

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
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
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIPOST	Posting Transaction File	Input	Disk	Sequential	80
TICKPT	Checkpoint File	Input	Disk	Random	111
TIDISB	Disbursement File	O/I	Disk	Sequential	13
TIWORK	Work File	O/I	Disk	Sequential, Random	44

File Name	Description	Opened	Media	Access Mode	Record Length
TIACTY	Activity File	Output	Disk	Sequential	23
TIEXCP	Exception Interface File (opt.)	Output	Disk	Sequential	312
TIPROF	Profitability Interface File (opt.)	Output	Disk	Sequential	228
TIRPTB	B-90 Report File	Output	Disk	Sequential	48
TIRPTU	Unsorted Reports File	Output	Disk	Sequential	393
TISTMT	Statement File	Output	Disk	Sequential	87

Reports

None

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 09	7	Processing option. Valid entries are: NORMAL Indicates normal processing will occur. RESTART Indicates program has previously aborted and is restarting.
10 – 14	5	Checkpoint number before doing a checkpoint. Indicates how many accounts to process.
15 – 80	66	Not used.

TID200 Processing Sections

The following information describes each section in TID200. The purpose of each description is to explain the basic processing that occurs in a particular section.

ABORT-ROUTINE

Any aborts in the program are directed to this section. The abort code is displayed 40 times.

ACCESS- MIMRGNPRICING

This routine is performed only if the institution is using Regional Pricing indicated on MICM Record 3500 (Time Investment Institution Parameters). MIMAST records containing Region as part of the key are loaded into working storage. If you have more regions than can be stored, sub-routines are called to load the region records needed for the current account being processed.

CALENDAR-365	This is the standard routine used to convert a 365-day base Julian date to an 8-position date. Copybook SRP003 is used.
CALL-MIMAST	Call routine for MICM. Routine MIIMAST is called.
CALL-SUBR2001	This is an empty section and is not used at this time.
CALL-SUBR3501	Call routine for the Regional Pricing routines TIB910 and TIB911, which load MIMAST Record 3501 (Time Investment Type Defaults). The routines are called by SRA060.
CALL-SUBR3502	Call routine for the Regional Pricing routines TIB920 and TIB921, which load MIMAST Record 3502 (Time Investment Type Processing Parameters). The routines are called by SRA060.
CALL-SUBR3503	Call routine for the Regional Pricing routines TIB930 and TIB931, which load MIMAST Record 3503 (Time Investment Penalty Routines). The routines are called by SRA060.
CALL-SUBR3504	Call routine for the Regional Pricing routines TIB940 and TIB941, which load MIMAST Record 3504 (Time Investment Interest Rate Tables). The routines are called by SRA060.
CALL-SUBR3505	Call routine for the Regional Pricing routines TIB950 and TIB951, which load MIMAST Record 3505 (Time Investment Renewal Defaults). The routines are called by SRA060.
CALL-SUBR3507	Call routine for the Regional Pricing routines TIB970 and TIB971, which load MIMAST Record 3507 (Time Investment Service Charge Parameters). The routines are called by SRA060.
CALL-TIM-ACN	Access routine for the Account Numbers Record. Program TIBAPI is called.
CALL-TIM-ASG	Access routine for the Assignment/Caution Record. Program TIBAPI is called.
CALL-TIM-AVL	Access routine for the TDOA Availability Record. Program TIBAPI is called.
CALL-TIM-BNK	Access routine for the Institution Control Record. Program TIBAPI is called.
CALL-TIM-CST	Access routine for the Customer Record. Program TIBAPI is called.
CALL-TIM-INT	Access routine for the Interest Payment History Record. Program TIBAPI is called.
CALL-TIM-IRA	Access routine for the IRA/Keogh Record. Program TIBAPI is called.
CALL-TIM-MST	Access routine for the Account Master Record. Program TIBAPI is called.
CALL-TIM-PAY	Access routine for the Customer Payout History Record. Program TIBAPI is called.

CALL-TIM-RAT	Access routine for the Rate Change History Record. Program TIBAPI is called.
CALL-TIM-TRD	Access routine for the Transaction Description Record. Program TIBAPI is called.
CALL-TIM-TRN	Access routine for the Transaction History Record. Program TIBAPI is called.
CALL-TIM-XRL	Access routine for the Statement Copies Record. Program TIBAPI is called.
CHECKPOINT-ACTIVITY	This section is performed from CHECKPOINT-SYNCPOINT to write the current Activity Record.
CHECKPOINT-RECOVERY	This section is performed when checkpoint restart has been selected. It positions all files and records to resume processing.
CHECKPOINT-SYNCPOINT	This section is performed every n th account based on MICM Record 0301,Flag 15 (Institution 000) and the control card. It performs a global commit so that all previous database updates are permanent. Current counts for non-API records are written to TICKPT along with the key of the last master record or customer processed.
CHECKPOINT-TICKPT	This is the file access section for TICKPT.
CLOSE-API-FILES	This section performs the close function for API files.
CLOSE-NONAPI-FILES	This section performs the close function for non-API files.
CONVERT-6-TO-8	This is the standard routine used to convert a six position calendar date to an eight position calendar date. Copybook SRP011 is used.
CONVERT-8-TO-6	This is the standard routine used to convert an eight position calendar date to a six position calendar date. Copybook SRP012 is used.
CUSTOMER-DISBURSE-BUILD	This section builds the key for the TI-DISBFIL for disbursement payments on IRA customers.
CUSTOMER-DISBURSE-WRITE	This section writes the TI-DISBFIL for disbursement payments on IRA customers.
CUSTOMER-END	This section denotes the end of customer processing.
CUSTOMER-INITIAL	This section initializes the records and work areas to be used for processing the customer information in TID200. This includes the MICM Institution Control Record, the Account Master Record, the Customer Record, Transaction History Record, the Assignment/Caution Record, the Rate Change History Record, the Interest Payment History Record, the IRA/Keogh Record, the Account Numbers Record, the IRA/Keogh Total Record, the Relationship Record, the Reports Record, the Activity Record, and the work areas involved.

CUSTOMER-POSTING	This section is the main logic routine for the customer portion of TID200. The Customer Record and Account Numbers Record are read. Included in this section are service charge handling, requests for control information sheets, and customer profile requests. Information for customers scheduled to receive IRA disbursements is written to the TI-DISBFIL to be processed in FINAL UPDATE.
CUSTOMER-PURGE	This section is performed when a customer record has been flagged to be purged. Pointers are cleared and the appropriate records are deleted.
CUSTOMER-UPDATE	This section is performed to process the customer posting. The IRA Disbursement File is opened.
CUSTOMER-WRITE-WORKFIL	This section is performed to write the work records for customer reporting.
DAY-OF-WEEK	This section is used in conjunction with the NEXT-DATE-BUSINESS routine to determine business days.
DELETE-ALT-TDOAAVAL	This section deletes a TDOA Availability Record when the rate in the key changes. It then adds a new record that reflects the new rate.
DELETE-DESCRIPTIONS	This section deletes all TRD's (Transaction Description Record) associated with an account if the account's MFLAG4 field is 'P'. (The MFLAG4 field is set to 'P' when the account is converted from a Passbook to Statement account using the TIPBCONV panel.)
DELETE-TRANSACTIONS	This section deletes all TRN's (Transaction History Record) associated with an account if the account's MFLAG4 field is 'P'. (The MFLAG4 field is set to 'P' when the account is converted from a Passbook to Statement account using the TIPBCONV panel.)
ELAPSED-DAYS-365	This is the standard routine used to find the number of days between two Julian dates. Copybook SRP005 is used.
FINAL-CUSTREPORT-CONSTANTS	This section is performed to extract information from the customer file that is commonly used in the Report Records.
FINAL-UPDATE-B90REPORT	This section is performed to extract information from the Master File to create report records for 08-013 (B-90 Report).
FINAL-UPDATE-CLOSEVAL	This section is performed when the closing value of an account must be recalculated because of a change in the current balance due to a transfer from another account.
FINAL-UPDATE-CUSTOMERS	This section re-reads the Institution Control File to obtain processing information for year-end processing.

FINAL-UPDATE-DISBURSEMENTS	This section is performed when a disbursement is to be transferred to another account within Time Investment. Transaction 320 is generated and posted to the receiving account. The closing value of the receiving account is recalculated at this time.
FINAL-UPDATE-END	This section is performed to close the files used during the FINAL-UPDATE processing. An invalid CLOSE on any of these files causes the program to abort.
FINAL-UPDATE-INITIAL	This section initializes the working-storage fields for all the files to be used in the FINAL-UPDATE processing.
FINAL-UPDATE-INTTRANSFERS	This section is performed when an interest payment is to be transferred to another account within Time Investment. Transaction 300 is generated and posted to the receiving account. The closing value of the receiving account is recalculated at this time.
FINAL-UPDATE-MATTRANSFERS	This section is performed when the principal of a matured account is to be transferred to another account within Time Investment Transaction 310 is generated and posted to the receiving account. The closing value of the receiving account is recalculated at this time.
FINAL-UPDATE-MEMOBALANCE	The memo balance field is updated for all full trial balances and short trial balances.
FINAL-UPDATE-OVERCONTRIB	This section is performed if a customer has over-contributed to his Individual Retirement Accounts. Report records are written for 08-070 (IRA/Keogh Over Contribution Report) and 08-071 (IRA/Keogh Over Contribution Notices).
FINAL-UPDATE-SERVICECHARGE	This section is performed when the service charge disposition on an account is to charge another account. Transaction 940 is generated and posted to the account to be charged. The closing value on the charged account is recalculated at this time.
FINAL-UPDATE-STATEMENTS	This section is performed when an account has a disbursement and a statement on a non-processing day. Since disbursements are generated the night before the Next Payout Date, the logic for disbursements occurs <i>after</i> the logic for statements; however, on a non-processing day, the statement is delayed until after the disbursement in order for the disbursement to appear on the statement. This is done by writing a record to TISTMW during INVESTMENT-UPDATE, then in FINAL-UPDATE, performing FINAL-UPDATE-STATEMENTS to generate the statements.
FINAL-UPDATE-SUSPENSE	This section is performed to update the balance on the suspense account after all activity in the FINAL-UPDATE processing has been performed.
FINAL-UPDATE-UPDATE	This section performs the retirement payouts. The Work File is read and transfers to accounts within Time Investment are done at this time.

FINAL-UPDATE-WRITE-REPORTS	This section writes the report records from FINAL-UPDATE to the Report File.
FINAL-UPDATE-YEARENDIRAK	This section is performed if processing the last day of the year, to shift information from the current year to previous and so on. The current year fields are cleared. In addition, the beginning balance for the year is calculated and written to the 'K' record. TIRA-CONBEG is updated with the sum of current balances on a customer's IRA accounts.
FIND-DISBURSEMENT-NO	This section is performed if there is no account number in the Payfrom field in the Customer Record, or the full disbursement amount cannot be made from one account.
FIND-HIGH-RATE-SEQUENCE	This section is performed if a disbursement schedule has been set up for a customer and the disbursements are to start from the account accruing at the highest interest rate.
FIND-LOW-RATE-SEQUENCE	This section is performed if a disbursement schedule has been set up for a customer and the disbursements are to start from the account accruing at the lowest interest rate.
FIND-NEWEST-ACCT-SEQUENCE	This section is performed if a disbursement schedule has been set up for a customer and the disbursements are to start from the customer's newest account.
FIND-OLDEST-ACCT-SEQUENCE	This section is performed if a disbursement schedule has been set up for a customer and the disbursements are to start from the customer's oldest account.
FIND-PENALTY-ROUTINE	This routine is performed from INVESTMENT-RENEWALS. It uses the account's new renewal information to determine a new penalty routine.
GET-LAST-NEW-RATE	This section is performed when recalculating accruals on an account that has had a backdated transaction. Rate change history is read to get the rate in effect as of the effective date of the transaction and accruals are calculated using that rate. Calculates how much interest to subtract from ENP based on the effective date of a transaction code 900 (Special Redemption) or 910 (Early Redemption).
GET-LAST-NEW-RATE-TDOA	This section is performed when recalculating the closing value on a TDOA account due to a backdated transaction. Rate change history is read to get the rate in effect as of the effective date of the transaction and accruals are calculated using that rate.
GET-NEXT-NEW-RATE	This section is used in conjunction with the Investment-Re-accrued-Code section to obtain each subsequent rate. The Rate Change History Record is read. The rate is checked to see that it is not greater than the maximum allowable and the effective date is checked to see that it is not in the future.

GET-SPOUSAL-CONTRIB	This section is performed for joint retirement accounts (TIMST-IRACODE ='J') when a contribution is made to determine if the deposit would put the plan into an 'Over Contributed' status. The IRA/Keogh Record for the spousal account is read in order to combine the contribution information for the joint accounts in order to determine the plan's status.
INVESTMENT-ACCUAL	This section is performed to accrue up to the next actual processing date on all accounts other than Time Deposit Open Accounts. The system also accrues for matured accounts set to accrue after maturity. The accrued interest field on the Master is updated.
INVESTMENT-ACCUAL-SETUP	This section is performed to initialize fields that are used in calculating accrued interest. The information is taken from the Master Record.
INVESTMENT-ACCURE-IT	The section performs the calculations to accrue for the number of days necessary to bring an account current. The calculations are based on the interest method, year base, month base and accruing balance on the account.
INVESTMENT-ACCURE-UP	This section is performed in conjunction with INVESTMENT-ACCUAL and INVESTMENT-ACCURE-IT to calculate the current day's accruals.
INVESTMENT-ACCUMPASTDAYS	This section is performed in conjunction with rate change processing to calculate accruals on an account from the effective date to the current date.
INVESTMENT-ACTIVITY	This section is performed along with INVESTMENT-ACTIVITY-TEST to process all Activity Records created by the system.
INVESTMENT-ACTIVITY-TEST	This section is performed to write the Activity Records to the Activity File, which is used to update the Total File in TID220.
INVESTMENT-ADD-INT-HIST	This section is performed to process Interest Payment History Records. When interest has been paid, an Interest Payment History Record is generated.
INVESTMENT-ADD-PAYOUT	This section is performed to add Customer Payout History Records. When a disbursement is made from a retirement account, a Customer Payout History Record is generated.
INVESTMENT-ADD-RTCHG	This section is performed to create Rate Change History Records for type rate changes and rate changes at renewal, maturity, and transaction code 210 (renewal) with a new rate.
INVESTMENT-ADJUST-BALANCES	This section is performed when the effective date of a transaction differs from the current date or the actual processing date. Adjustments are made to the Average Balance, Average Collected Balance, Aggregate Balance, Aggregate Collected Balance, Service Charge Aggregate Balance, and Service Charge Aggregate Collected Balance.

INVESTMENT-AGGREGATES	This section is performed to calculate aggregate collected balances that are used to calculate the average collected balance when needed. If the current processing date is the last day of the month, INVESTMENT-ENDOF-MONTH is performed.
INVESTMENT-ANALYSIS	This section is performed to produce TI-PROFFIL interfacing Analysis. It reports new accounts to analysis, posted transactions, changed records, current balance records, and accounts removed from analysis.
INVESTMENT-ASSIGNMENTS	This section is performed whenever an assignment is added to an account or deleted. Assignments are automatically deleted by the system on the expiration date. Report records for 08-012 (Assignment/Caution Journal) are written to show the activity.
INVESTMENT-AVAILABILITY	This section is performed on a Time Deposit Open Account to determine which funds are available or unavailable.
INVESTMENT-AVERAGES	This section is performed to calculate aggregate balances, which are used to calculate the average balance when needed. If the current processing date is the last day of the month, INVESTMENT-ENDOF-MONTH is performed.
INVESTMENT-BACKDATED-DAILY	This section is performed when it is necessary to recalculate accruals on an account using the daily compounding method of interest calculation.
INVESTMENT-BRINGACCRUEUP	This section is performed for dummy interest accrual projections for checks and notices created by the system. The projection of interest accrual is needed when creating checks and notices in advance.
INVESTMENT-BUILD-ACTYKEY	This section is performed to build the key for the Activity Records generated from the posting run.
INVESTMENT-BUILD-IRAK	This section is performed to build an IRA/Keogh Record for posting transactions to an Individual Retirement Account if there is no IRA/Keogh Record present.
INVESTMENT-BUILDAVL-DATE	This section reads TDOA Availability Records in date order and stores up to 500 records in a table that is used in INVESTMENT-WITHDRAWAL-SEQUENCE00.
INVESTMENT-BUILDAVL-RATE	This section reads TDOA Availability Records in rate (alternate key) order and stores up to 500 records in a table that is used in INVESTMENT-WITHDRAWAL-SEQUENCE00.
INVESTMENT-CALCULATE-INTBASE	This section determines the appropriate year base for an account for the purpose of accruals.
INVESTMENT-CERT-PENALTY	This section is performed when a transaction has been processed which has a penalty assessment. Transaction code 930 is generated and INVESTMENT-TRAN-POST is performed to process it.

INVESTMENT-CHECKS-TEST	This section is performed to verify that checks are to be printed for accounts that are due to mature, renew or pay interest within a specified number of lead days.
INVESTMENT-CLOSE-DECEASED	This section is performed whenever either a transaction code 738 or 760 is to be posted to an account. This section determines whether the transaction is being done to process a Death Distribution on a decedent's account. Refer to <i>Procedures Guide 1</i> for a detailed description of how the Death Distribution is processed. If it is, this section edits the input: <ol style="list-style-type: none">1. The amount of transaction code 760 or 738 must bring the current balance to zero.2. The non-monetary portion of the input (the customer number, the date of death, and the social security number) is edited. If either edit fails, the transaction is not posted to the account. If the input passes the edits, the following data is updated to the Master and Customer Records: <ol style="list-style-type: none">1. The amount of transaction code 760 or 738 is moved to TIMST-MWDAMT.2. The effective date of transaction code is moved to TIMST-MWDDT.3. The date of death is moved to TICST-MDEATH.4. TICST-MDODFL is changed to X.
INVESTMENT-CLOSEOUTEARLY	The section is performed when using a closing transaction. If the transaction is to assess a penalty, the system generates the penalty transaction. If there is any interest to be paid, the system generates the interest transaction.
INVESTMENT-CLSOUT-PENALTY	This section is performed whenever a penalty must be calculated on an account with a term greater than 31 days. The parameters set up in MICM Record 3503 are used in the penalty calculations. Copybook TIP041 is used.
INVESTMENT-CLSTDOA-PENALTY	This section is performed whenever a penalty must be calculated on a Time Deposit Open Account. All TDOA Availability Records are read to get the total amount to calculate the penalty on.
INVESTMENT-CLSVARTDOA-PENALTY	This section is performed on a variable rate Time Deposit Open Account to determine the unavailable portion of the balance to calculate penalty on.
INVESTMENT-CREATE-CHECKS	This section is performed to write the Report Records to print Principal Checks or Interest Checks or both. A check is not produced if the balance on the account is less than the minimum balance required. If the account is not tax exempt, INVESTMENT-FED-WITHHOLDING is performed. If the interest disposition is not to be paid by check, Report Records for interest notifications are written.
INVESTMENT-DAILY-INTEREST	This section calculates accruals for daily compounding accounts and is performed from INVESTMENT-ACCRUE-IT.

INVESTMENT-DEPOSIT-SEQUENCE00	This section is performed to process deposit transactions, without a sequence number, on Time Deposit Open Accounts. The deposit creates a new TDOA Availability Record.
INVESTMENT-DEPOSIT-SEQUENCE99	This section is performed to process deposit transactions, with a sequence number, on Time Deposit Open Accounts. The deposit is added to an existing TDOA Availability Record with the same sequence number as the transaction sequence number.
INVESTMENT-DISBJRNL-ACCT	This section, performed from INVESTMENT-RETIREMENT-PAYS, generates the Report Record for 08-069 (Disbursements Journal) based on information from the account from which the disbursement is being made.
INVESTMENT-DISBURS-FEDTAX	This section is performed to calculate the amount of disbursement withholding on IRA payouts.
INVESTMENT-DODFMV-STMTS	This section is performed in order to produce a statement showing the Fair Market Value of a decedent's account as of the date of death. It is triggered by a flag indicating the Death Distribution input has sufficiently passed the edits (refer to INVESTMENT-CLOSE-DECEASED in this section). The applicable statement data fields on the Master Record are moved to working storage. Default values are then moved into the statement fields on the Master record and INVESTMENT-STATEMENTS is performed. The original statement data fields are then moved from working storage back into the Master Record.
INVESTMENT-DORM-TEST	This section is performed to flag an account as inactive or dormant if there has been no customer contact within a specified period.
INVESTMENT-END	This section denotes the end of the investment processing. The Posting Transaction File, Statement File, and Work File are closed.
INVESTMENT-ENDOF-MONTH	This section is performed on the last day of each month and on the last day of the year. Each month, the Service Charge History field and Overdrawn History field for the next month are cleared. The average balance and average collected balance is calculated for the current month. If the current processing day is the last day of the year, Interest Year-to-date and Penalty Year-to-date are moved to the 1099 fields and Year-to-date fields are cleared. In addition, interest payments effective dated for the next year are backed out, and the 1099 reporting information is adjusted.
INVESTMENT-EXCESSIVE-ROLLOVERS	This section is performed whenever either a transaction code 800(Rollover) or 810 (Rollover with penalty) is to be posted to an account. The purpose of this section is to prohibit more than one rollover transaction in a 12-month period. The effective date of the last rollover transaction is used as the starting point. It is obtained from the IRA/Keogh Record. If this current rollover transaction is within 12 months of the last rollover transaction, the current rollover transaction is rejected.

INVESTMENT-FED-WITHHOLDING	This section is performed for accounts with a Federal Tax Exempt Code indicating that backup withholding is to be performed. The percentage of backup withholding is determined by the parameters set on MICM Record 0234 (Federal Withholding Information).
INVESTMENT-FED-GRACE	This section is performed to determine whether a withdrawal has occurred during either the TIN waiting period, or the B-Notice exemption period. The grace period is determined by projecting out the number of days since the Federal Tax Exempt Code was last changed (TIMST-FEDSTCHGDT) using the number of days indicated on MICM 0234 Record (Federal Withholding Information). If the effective date of the withdrawal is within that grace period, the federal withholding tax on interest payments since entering the grace period is not deducted from the account as a result of this withdrawal.
INVESTMENT-FIND-LASTTRANDT	This section is performed to get the last transaction date on the Transaction Records.
INVESTMENT-FIX-TDOA-AVAIL	This section is performed for fixed rate Time Deposit Open accounts. Each TDOA Availability Record is checked for availability dates. Funds are moved from the Unavailable fields to the Available fields if within the 10-day availability period.
INVESTMENT-FLAG-REVERSALS	This section is performed after re-accruals are calculated due to a backdated transaction or rate change. The transactions that are matching reversals have a value of 'D' so they do not appear on statements.
INVESTMENT-FLOAT	This section is performed to accumulate Institution Float and Customer Float transactions. Internal transaction codes less than 100 are for Institution Float and internal transaction codes 110 through 190 are for Customer Float. The float fields in the Account Master Record are updated.
INVESTMENT-FWT-PROCESSING	This section is performed on all accounts with a Tax Exempt code of '6', '7', '9', 'E', or 'F'. Expiration dates are calculated for accounts with zero expiration dates. W-8 notices are generated for non-resident aliens whose exemption period is about to expire. W-9 notices are generated on accounts for which the Institution has received a B-Notice. If the system changes the Tax Exempt code to withhold due to the expiration date having been reached, the change is noted on the Federal Withholding Journal.
INVESTMENT-FWTHLD-POST	This section is performed on all accounts with a Tax Exempt code of '6' or '9' to generate transaction code 992 to debit the account for Federal Tax held. This section is performed because there has been an IRS withdrawal.
INVESTMENT-GET-INT-HIST	This section is performed when interest payments are made, and when computing closing values. The Interest Payment History Records are checked to see if there is an outstanding check. At interest payment time, the check is no longer outstanding and the check code is updated. When computing closing values, the outstanding check amount is subtracted to avoid duplicate payments.

INVESTMENT-GET-RATE-HIST	This section is performed to read all Rate Change History Records on an account.
INVESTMENT-GRACEPERIODEND	This section is performed to bring an account out of its grace period. This occurs either because the account has reached the end of the grace period or an external monetary transaction has been posted. If the account reaches the normal end of grace, the interest rate is changed and the account is re-accrued from the renewal date. If the end of grace is due to a transaction, the rate is changed but the account is not re-accrued.
INVESTMENT-INITIAL	This section initializes the working storage areas used in the INVESTMENT portion of TID200. It also initializes the MIMAST, Institution Record, Master Record, Customer Record, Accumulated Transaction Record, Assignment/Caution Record, Rate Change History Record, Interest Payment History Record, IRA/Keogh Payout History Record, Relationship Record, Reports Record, Report B Record, Statement Record and Activity Record. The Posting Transaction File is opened as input and the Report B File and the Statement File are opened as output.
INVESTMENT-INITIAL-TRAN	This section initializes fields in TIPOST-RECORD for internally generated transactions.
INVESTMENT-INITRPT69	This section, performed from INVESTMENT-RETIREMENT-PAYS, initializes fields used to format the Report Record for 08-069 (Disbursements Journal).
INVESTMENT-INTPLANBAL	This section is performed when it is time to change the rate on an account and the code indicates to use the balance table in MICM Record 3504 (Time Investment Interest Rate Tables).
INVESTMENT-INTPLANTERM	This section is performed when it is time to change the rate on an account and the code indicates to use the term table in MICM Record 3504 (Time Investment Interest Rate Tables).
INVESTMENT-IRA-OVERCONTRIBNT	This section calculates the amount of interest earned on excess contributions made to an Individual Retirement Account. Transaction 721 (Excess Earnings) is generated to put the excess interest amount in a distribution field on the IRA/Keogh Record and reduce the balance on the account.
INVESTMENT-IRA-POSTED	This section is performed to check for over contributions on IRAs. If the contribution amount is greater than the Maximum Contribution Allowed, a record is written to the Work File for report 08-070 (IRA/Keogh Over Contribution).
INVESTMENT-IRA-POSTING	This section is performed to get the IRA/Keogh Record for posting transactions on Individual Retirement Accounts.
INVESTMENT-JOURNALS	This section is performed to write report records for the 08-009 (Transaction Journal), 08-023 (Dormant Activity Report), 08-025 (Selected Accounts), 08-037 (Auditors Report), and 08-061 (Payments Journal).

INVESTMENT-MAT- NOTICE	This section is performed to create the maturity notices for accounts that do not automatically renew. Information is extracted from the Master Record and moved into working storage for the Report Records. This section also performs the section to create the principal check.
INVESTMENT-MATURITIES	This section handles accounts that have reached the final maturity date. Interest is paid at this time and disbursed according to the Interest Disposition Code. If the principal is to be paid by check, the check is produced at this time. If it is to be transferred to another account, a debit/credit memo is created. If the principal is to remain in the account, the system can accrue after maturity if the flag in MICM Record 3502 (Time Investment Type Processing Parameters) indicates to do so.
INVESTMENT- MATURITY-CHECKS	This section is performed when the final maturity date for the account has been reached and the principal is to be paid by check.
INVESTMENT-MERGE	This section is performed to create Transaction History Records from the monetary transaction processed.
INVESTMENT- NOTOVERCONTRIB	This section is performed when an excess contribution withdrawal is input to a retirement account to determine if the customer is no longer over-contributed.
INVESTMENT-OID- INTEREST	This section is performed on the last processing day of the year. If an OID account was opened during the current year, the monthly ratable portion is multiplied by the number of months the account was active during the year. This figure is then moved to the 1099 field for tax reporting. If the account renewed during the current year, the amount of interest already reported is subtracted from the amount of interest actually paid and the difference is moved to the 1099 field. The monthly ratable portion for the renewal period is then multiplied by the number of months since renewal and that figure is added to the 1099 field.
INVESTMENT-OID- POSTJUL	This section is performed for OID accounts that were issued after July 2, 1982. The amount of interest to be reported on 1099-OID for these accounts is the actual accrual figure for the reporting year instead of the monthly ratable portion.
INVESTMENT-OTHER	This section is performed after the normal daily activity has been processed. The closing value is calculated. Report records are written for several reports. If an account is to be purged, all associated records are deleted. This section also sets an account up for analysis interfacing to Account Analysis.
INVESTMENT- PASSBOOK-BALANCE	This section is performed to handle Passbook processing. Any account under Time Investment may be a Passbook account and this section handles only those accounts. A determination is made as to whether there are unbooked or booked transactions or a discrepancy between the passbook balance and the current balance. Report records are generated for 08-075 (Passbook Balanced Transactions Report), 08-076 (Passbook Non-balanced Transactions Report), and 08-077 (Passbook Discrepancy Report).

INVESTMENT-PAST-RENEWAL	This section is performed whenever a transaction with an internal transaction code of 210 is entered with an effective date in the past. Adjustments to the accrued interest field are made.
INVESTMENT-PAY-INTEREST	This section is performed when processing the next interest date on an account. If there is to be federal tax withheld, transaction 920 is generated and transaction 490 is generated for the full amount. If the interest is to be transferred to another account, transaction 980 is generated. If interest is to be paid by check, transaction 980 is generated. An Interest Payment History Record is created. The next interest date is updated according to the interest payment term on the account.
INVESTMENT-PAYEOM	This section is performed on accounts with a 30-day month base that pay on the last day of the month. The section determines whether the year is a leap year and moves 29 to the last day of February. Otherwise, it uses 28 as the last day.
INVESTMENT-POSTED	This section is a common routine used for posted transactions. This section is performed from INVESTMENT-TRAN-POST. The Activity Record is built by performing INVESTMENT-ACTIVITY; balances are adjusted by performing INVESTMENT-ADJUST BALANCES; journals are created; and the merging of monetary transactions is done by performing INVESTMENT-MERGE. This section also checks the analysis flag on an account and sets the account up for analysis interfacing to Account Analysis.
INVESTMENT-POSTING	This section is performed to process the monetary transactions for an account. The Posting Transaction File is read. If the internal transaction code is less than 200, INVESTMENT-FLOAT is performed; otherwise, INVESTMENT-TRAN-POST is performed. Any transactions that could not be processed invoke INVESTMENT-UNPOSTED.
INVESTMENT-PREREN-NOTICES	This section is performed to create 08-050 (Pre-renewal Notices). The notices can be generated ahead of time by using the lead days' option for notices on MICM Record 3502. Information is extracted from the Master File and moved into working storage for the Report Records.
INVESTMENT-PROCESS-RATECHG	This section is performed when a rate change has occurred. The Rate Change History Record is read to locate the rate change for today, then moves the effective date of the rate change to WS-8RATEDATE to be used for re-accruals.
INVESTMENT-PROJECT-ACCUAL	When projecting accruals (checks, notices, etc.), this section handles projecting over a year-end. This is necessary for accounts with an Actual year base and the accrual projection includes days in both a leap year and non-leap year. The accruals are calculated through the end of the year, the year base is then recalculated, and the remaining accruals are calculated.

INVESTMENT-PROJECT-TDOAACCRL	For TDOAs, when projecting accruals (checks, notices, etc.), this section handles projecting over a year-end. This is necessary for accounts with an Actual year base and the accrual projection includes days in both a leap year and non-leap year. The accruals are calculated through the end of the year, the year base is then recalculated, and the remaining of the accruals are calculated.
INVESTMENT-PURGE	This section is performed for all accounts that are flagged to be purged through the online panel, TIMPRG. All necessary transactions are generated to bring balance and interest fields to zero.
INVESTMENT-RATE-CHANGES	This section is performed for accounts set up to have scheduled rate changes. A new interest rate is assigned based on the account's Interest Plan, creating a Rate Change History Record. A report record is generated for 08-057 (Rate Change Report). The Next Rate Change Date is updated according to the rate change information in the account.
INVESTMENT-RATECHG-REPORT	This section is performed whenever there is a rate change on an account whether it is due to a type rate change, a rate change input by the user, or a rate change created by the system at renewal or maturity. Report records for 08-057 (Rate Change Report) are written.
INVESTMENT-RATECHG-RESET	This section is performed when the flag on the Rate Change History Record is 'B', indicating complete rate change history is not available.
INVESTMENT-REACCRL-CODE	This section is performed whenever adjustments have to be made to an account for rate changes or backdated transactions. The accruals are calculated based on activity prior to the rate change or backdated transaction and then recalculated with the rate change or backdated transaction and the difference applied to interest earned not paid. Aggregate fields and aggregate rate fields are also updated.
INVESTMENT-READ-TDOA	This section is performed to read all TDOA Availability Records for an account.
INVESTMENT-READ-TRANSFILE	This section is performed to read the Posting Transaction File to process any transactions that were input for this account.
INVESTMENT-RECOMP-CLOSEOUT	The section is performed on closeout transactions. The closing value is recalculated using the effective date of the transaction. If the recalculated closing value is not within the variance of the transaction amount specified on MICM Record 3500 (Time Investment Institution Parameters), it is rejected and appears on 08-032 (Posting Reject Journal).
INVESTMENT-RECOMPUTE-DAILY	This section is performed when closing an account using the daily compounding method of interest calculation.
INVESTMENT-REGION-RECORD	This section clears record areas and working storage fields.

INVESTMENT-REJECTODTC	This section is performed when processing a debit transaction and the reject option on MICM Record 3500 (Time Investment Institution Parameters) indicates not to process a transaction if it overdraws the account. Assignments are considered to determine if enough funds are available for withdrawal.
INVESTMENT-REN-NOTICES	This section is performed when an account renews. A 08-049 (Automatic Renewal Notice) is produced and sent to the customer informing him/her of the activity and the options available.
INVESTMENT-REN-REPORT	This section is performed when accounts have renewed. Information from the Master File is extracted and report records written to the Reports File for 08-056 (Renewed Accounts Report).
INVESTMENT-RENEW-TIMETEST	This section is performed to determine if an account needs to renew in the current posting run. If the account is to renew, several switches are set based on certain options selected.
INVESTMENT-RENEWALS	This section is performed when an account has reached its next renewal date. If interest has not been paid yet, it is performed at this time. If the interest rate is to change, the sections are performed to change it. The next renewal date is updated according to the renewal term on the account.
INVESTMENT-RESET-AGGREGATES	This section sets the Master record aggregate fields to zero on a new, reopened or renewing account.
INVESTMENT-RESET-INTDATE	This section is performed to bring the Accrued Through Date on closed accounts current.
INVESTMENT-RESET-INTNXT	This section is performed to update the Next Interest Payment Date in order to avoid a date in the past.
INVESTMENT-RESET-RATENEXT	This section is performed to update Next Rate Date to avoid having a date in the past.
INVESTMENT-RETIREMENT-INTEREST	This section is performed from INVESTMENT-RETIREMENT-PAYS for Customers coded to disburse interest as well as principal (TICST-PAYSOURCE = 'I'). Transaction 490 is generated for the full amount of Interest Earned Not Paid causing the interest to be capitalized. The disbursement is then made from principal.
INVESTMENT-RETIREMENT-PAYS	This section is performed to process disbursements on IRA customers. TI-DISBFIL is read as input for the customers to receive disbursements. If the TICST-PAYFROM field on the customer has an account number, the disbursement is taken from that account. Otherwise, the TICST-PAYSEQ field is checked and other sections are performed. If the TIC-PAYDISP is to be paid by check, checks are created. If transferring to another account, debit/credit memos are produced.

INVESTMENT-REVERSALS	This section is performed when using a transaction that is to reverse a previously posted transaction. If a match cannot be found, the transaction appears on the 08-033 (Unmatched Reversals) report. If a match is found, matching transactions are flagged to be deleted. Transactions flagged to be deleted do not appear on statements.
INVESTMENT-REWRITE- AVL	This section updates the TDOA Availability Records that were changed in INVESTMENT-WITHDRWL-SEQUENCE00.
INVESTMENT- REWRITEMAST	This section is performed from INVESTMENT-RETIREMENT-PAYS, which processes scheduled customer distributions. If a customer has a distribution, a transaction debits the necessary account(s). This section rewrites the accounts to which the debit is posted.
INVESTMENT-SERVICE- CHARGE	This section is performed when processing for the next service charge date. The amount of the service charge is determined by the parameters set up on MICM Record 3507 (Time Investment Service Charge Parameters). If a user routine is to be used, module TIB201 is called. Transaction 940 is generated for the service charge amount. Records for 08-010 (Service Charge Journal) are written. The service charge can be billed or debit/credit memos produced. The Master Record is updated.
INVESTMENT-SETUP	This section is performed for each account to zero fields that are to be used during processing, and to store certain areas outside the Master Record for comparison, or in calculating differences for the current date processing. Float is accumulated for available balance processing. Due dates for accounts using cycles for service charges and statements are calculated. This section also checks the analysis flag on the account and sets the account up for analysis interfacing to Account Analysis.
INVESTMENT-SETUP-OID	This section is performed for new OID Certificate of Deposit accounts and also at renewal. When an OID account renews, the current OID information is moved to the previous OID fields and the current OID monthly ratable is calculated.
INVESTMENT-SPLIT-RATES	This section is performed if the Variable/Split Rate Flag on MICM Record3504 (Time Investment Interest Rate Tables) indicates to do so. If the flag indicates split rates, up to five different rates may be used to calculate interest. If the flag indicates variable rates, a single rate from the table is used based on the average balance on the account.
INVESTMENT- STATEMENTS	This section is performed when processing the next statement date. Information is extracted from the Master File and Transaction History Records. TI-STMTFIL is written.
INVESTMENT-SUSPENSE	This section is performed to process the Suspense account. Activity records for the current balance are spooled.

INVESTMENT-TDOA- ACCRUAL	This section is performed to accrue up to the next actual processing date on Time Deposit Open Accounts. The system also accrues for matured accounts set to accrue after maturity. The accrued interest field on each TDOA Availability Record is updated as well as the total accrued interest field on the Master Record.
INVESTMENT-TDOA- ACCRUE-UP	This section is performed in conjunction with INVESTMENT-TDOA-ACCRUAL and INVESTMENT-ACCRUE-IT to calculate today's accruals.
INVESTMENT-TDOA- EXCEPTIONS	This section is performed to write Report Records for 08-058 (Exceptions Report) to indicate which TDOA transactions could not be processed as requested and the reason why.
INVESTMENT-TDOA- INTEREST	This section is performed when paying interest on a Time Deposit Open Account. The Interest Earned Not Paid fields in each Availability Record are cleared as well as the Interest Earned Not Paid field in the Master Record.
INVESTMENT-TDOA- PENALTY	This section is performed to calculate the penalty amount to be assessed on Time Deposit Open Accounts, if the transaction code is a penalized transaction.
INVESTMENT-TDOA- SPOOL	This section is performed to generate Report Records for 08-074 (TDOA Activity). Information for this report is extracted from the TDOA Availability Records.
INVESTMENT-TEST-TENTH	This section is performed to accrue interest from the first day of the month, if the deposit was made by the tenth day of the month. The Tenth Code Option on the Master Record is checked.
INVESTMENT-THISYR- LASTYR	This section is performed to determine if a transaction has been backdated over a year-end. WS-YEAR is set according to the difference between the current date and the transaction's effective date. The values are 0 (posted this year effective next year, e.g., transaction codes 490 and 920), 1 (posted this year effective this year), 2 (posted this year effective last year), and 3 (backdated over 2 year-ends or more).
INVESTMENT-TRAN-POST	This section is performed for each transaction that is to be posted. Working-Storage fields are initialized with information from the transaction parameters on MICM Record 2013 (Transaction Code Parameters). Processing parameters are checked to ensure that a particular transaction may be posted to an account. Dates are updated on the Master Record and Report Records written based on the options in the transaction parameters. If the transaction can be posted, the appropriate section is performed. If the transaction cannot be posted, INVESTMENT-UNPOSTED is performed.
INVESTMENT- TRANCODE210	This section processes transaction code 210 to renew an account that is matured but unredeemed. The account is renewed for the amount in the current balance field. A new rate can be input, and the system re-accrues from the effective date.

INVESTMENT-TRANCODE220	This section processes transaction code 220 to reverse a redemption transaction. This transaction cannot be backdated; therefore, an accrual adjustment might be necessary.
INVESTMENT-TRANCODE230	This section processes transaction code 230 to reduce the current balance on an account. The system re-accrues from the effective date of the transaction.
INVESTMENT-TRANCODE240	This section processes transaction code 240 to open an account. This transaction can be generated by the system for Certificates of Deposit, for the issue value, if the generate deposit flag on MICM Record 3502 (Time Investment Type Processing Parameters) is set to 'Y'.
INVESTMENT-TRANCODE250	This section processes transaction code 250 to flag a debit transaction not to appear on a statement. The system re-accrues for this transaction. There must be a debit transaction with the same amount, effective date, and serial number or the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE260	This section processes transaction code 260 to increase the current balance on an account. The system re-accrues from the effective date of the transaction. This transaction may be generated by the system for purging an account with a negative balance.
INVESTMENT-TRANCODE270	This section processes transaction code 270 to increase the amount of interest available on an account.
INVESTMENT-TRANCODE280	This section processes transaction code 280 to increase the amount of Interest Earned Not Paid on an account. This transaction cannot be backdated.
INVESTMENT-TRANCODE290	This section processes transaction code 290 to increase the amount appearing in the Interest Paid Year-to-date field without affecting the current balance field. The system does not re-accrue for this transaction so there is no need to backdate.
INVESTMENT-TRANCODE300	This section processes transaction code 300 for transfer of interest from another account. The system re-accrues from the effective date of the transaction.
INVESTMENT-TRANCODE310	This section processes transaction code 310 for transfer of principal from another account. The system re-accrues from the effective date of the transaction.
INVESTMENT-TRANCODE320	This section processes transaction code 320 for transfer of a disbursement from an IRA. The system re-accrues from the effective date of the transaction.
INVESTMENT-TRANCODE321	This section processes transaction code 321 to reverse transaction 721(Excess Earnings Withdrawal) on Retirement accounts. If there is no transaction 721, the transaction is rejected and appears on 08-033 (Unmatched Reversals).

INVESTMENT-TRANCODE328	This section processes transaction code 328 to reverse transaction 728 (Transfer Withdrawal For Last Year) on Individual Retirement Accounts. If there is no transaction 728, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE329	This section processes transaction code 329 to reverse transaction 729 (Nondeductible Withdrawal For Last Year) on Individual Retirement Accounts. If there is no transaction 729, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE331	This section processes transaction code 331 to reverse transaction 731 (Transfer Withdrawal) on Individual Retirement Accounts. If there is no transaction 731, the transaction is rejected and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE332	This section processes transaction code 332 to reverse transaction 732 (Nondeductible Withdrawal) on Individual Retirement Accounts. If there is no transaction 732, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE333	This section processes transaction code 333 to reverse transaction 733 (Regular Contribution Withdrawal) on Individual Retirement Accounts. If there is no transaction 733, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE334	This section processes transaction code 334 to reverse transaction 734 (Employer Contribution Withdrawal) on Individual Retirement Accounts. If there is no transaction 734, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE336	This section processes transaction code 336 to reverse transaction 736 (Insurance Contribution Withdrawal) on Individual Retirement Accounts. If there is no transaction 736, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE337	This section processes transaction code 337 to reverse transaction 737 (Rollover Contribution Withdrawal) on Individual Retirement Accounts. If there is no transaction 737, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE338	This section processes transaction code 338 to reverse transaction 738 (Retirement Withdrawal) on Individual Retirement Accounts. If there is no transaction 738, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE339	This section processes transaction code 339 to reverse transaction 739 (Self-directed Retirement Transfer Out) on Individual Retirement Accounts. If there is no transaction 739, the transaction rejects and appears on 08-033 (Unmatched Reversals).

INVESTMENT-TRANCODE342	This section processes transaction code 342 to reverse transaction 742 (Trustee to Trustee Transfer) on Retirement accounts. If there is no transaction 0742, the transaction is rejected and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE345	This section processes transaction code 345 to reverse transaction 745 (Transfer Due to Divorce) on Retirement accounts. If there is no transaction 745, the transaction is rejected and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE351	This section processes transaction code 351 to reverse a transaction 751 (Divorce Withdrawal) on Individual Retirement Accounts. If there is no transaction 751, the transaction is rejected and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE355	This section processes transaction code 355 to reverse a Transaction 755 (Premature Distribution, Known Exception). If there is no Transaction 755, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE371	This section processes transaction code 371 to reverse a transaction 771 (Premature Distribution) on Individual Retirement Accounts. If there is no transaction 771, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE401	This section processes transaction code 401 (Rollover Contribution Current Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE402	This section processes transaction code 402 (Transfer Contribution Current Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE411	This section processes transaction code 411 (Rollover Contribution for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE412	This section processes transaction code 412 (Transfer Contribution for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE421	This section processes transaction code 421 (Employer Contribution Current Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE427	This section processes transaction code 427 to reverse a Transaction 820 (Employer Excess Contribution Withdrawal for this Year) on Individual Retirement Accounts. If there is no transaction 820, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE431	This section processes transaction code 431 (Employer Contribution for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE437	This section processes transaction code 437 to reverse a transaction 830 (Employer Excess Contribution Withdrawal for Last Year) on Individual Retirement Accounts. If there is no transaction 830, the transaction rejects and appears on 08-033 (Unmatched Reversals).

INVESTMENT-TRANCODE441	This section processes transaction code 441 (Regular Contribution Current Year) on any account type.
INVESTMENT-TRANCODE442	This section processes transaction code 442 (Nondeductible Contribution Current Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE443	This section processes transaction code 443 (Capital Gain for Self-directed Individual Retirement Accounts).
INVESTMENT-TRANCODE444	This section processes transaction code 444 (Self-directed Retirement Transfer In) on Individual Retirement Accounts.
INVESTMENT-TRANCODE446	This section processes transaction code 446 (Retirement Credit Transfer In) on Individual Retirement Accounts.
INVESTMENT-TRANCODE447	This section processes transaction code 447 to reverse a transaction 840 (Regular Excess Contribution Withdrawal for this Year) on Individual Retirement Accounts. If there is no transaction 840, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE448	This section processes transaction code 448 to reverse a transaction 848 (Nondeductible Excess Contribution Withdrawal Current Year) on Individual Retirement Accounts. If there is no transaction 848, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE449	This section processes transaction code 449 to reverse a transaction 0849 (Excess Contribution Withdrawal After Year-end) on Individual Retirement Accounts. If there is no transaction 0849, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE451	This section processes transaction code 451 (Regular Contribution for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE452	This section processes transaction code 452 (Nondeductible Contribution for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE453	This section processes transaction code 453 to reverse a transaction 853 (Nondeductible Excess Contribution Withdrawal for the Current Year) on Individual Retirement Accounts. If there is no transaction 0853, the transaction rejects and appears on the 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE457	This section processes transaction code 457 to reverse a transaction 850 (Regular Excess Contribution Withdrawal for Last Year) on Individual Retirement Accounts. If there is no transaction 0850, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE461	This section processes transaction code 461 (Insurance Contribution Current Year) on Individual Retirement Accounts.

INVESTMENT-TRANCODE467	This section processes transaction code 467 to reverse a transaction 860 (Insurance Excess Contribution Withdrawal for This Year) on Individual Retirement Accounts. If there is no transaction 860, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE471	This section processes transaction code 471 (Insurance Contribution for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE477	This section processes transaction code 477 to reverse a transaction 870 (Regular Excess Contribution Withdrawal for Last Year) on Individual Retirement Accounts. If there is no transaction 870, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE480	This section processes transaction code 480 to reverse a penalty assessed on an account.
INVESTMENT-TRANCODE481	This section processes transaction code 481 to reduce the amount of penalty assessed year-to-date on an account.
INVESTMENT-TRANCODE490	This section processes transaction code 490 to make an interest payment. This transaction is automatically generated by the system on the next interest date in the Master Record.
INVESTMENT-TRANCODE491	This section processes transaction code 491 to reverse a Normal Retirement Closeout on Individual Retirement Accounts.
INVESTMENT-TRANCODE500	This section processes transaction code 500 to decrease the amount in the current Service Charge History field on the Master Record of an account.
INVESTMENT-TRANCODE501	This section processes transaction code 501 to reverse a Special Retirement Closeout on Individual Retirement Accounts.
INVESTMENT-TRANCODE520	This section processes transaction code 520 to reverse a Normal Distribution Withdrawal on Individual Retirement Accounts.
INVESTMENT-TRANCODE530	This section processes transaction code 530 to reverse a withdrawal transaction on Individual Retirement Accounts.
INVESTMENT-TRANCODE531	This section processes transaction code 531 to reverse a transaction 931 (Capital Loss for Self-directed Individual Retirement Accounts). If there is no transaction 931, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE540	This section processes transaction code 540 to reverse a Closing Withdrawal transaction on Individual Retirement Accounts.
INVESTMENT-TRANCODE550	This section processes transaction code 550 to reverse a Disability Withdrawal Transaction on Individual Retirement Accounts.

INVESTMENT-TRANCODE560	This section processes transaction code 560 to reverse a Death Withdrawal transaction on Individual Retirement Accounts.
INVESTMENT-TRANCODE565	This section processes transaction code 565 to reverse a Prohibited Withdrawal transaction on retirement accounts.
INVESTMENT-TRANCODE570	This section processes transaction code 570 to reverse a Premature Distribution transaction on Individual Retirement accounts.
INVESTMENT-TRANCODE580	This section processes transaction code 580 to reverse a Withdrawal transaction on Individual Retirement Accounts.
INVESTMENT-TRANCODE590	This section processes transaction code 590 to store the passbook balance in the serial number field of the transaction. This transaction is used for Passbook accounts only.
INVESTMENT-TRANCODE591	This section processes transaction code 591 to reverse a transaction 991 (Capitalized Interest Payment) on an account. If there is no transaction 991, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE600	This section processes transaction code 600 to reverse a Rollover Withdrawal Without Penalty transaction on Individual Retirement Accounts.
INVESTMENT-TRANCODE610	This section processes transaction code 610 to reverse a Rollover Withdrawal With Penalty transaction on Individual Retirement Accounts.
INVESTMENT-TRANCODE620	This section processes transaction code 620 to decrease the amount in Federal Tax Withheld Year-to-date on an account.
INVESTMENT-TRANCODE621	This section processes transaction code 621 to reduce the amount of federal tax withheld year-to-date on an account.
INVESTMENT-TRANCODE622	This section processes transaction code 622 to reduce the amount in federal tax to be withheld on an account if there is an IRS withdrawal during the TIN Certification period.
INVESTMENT-TRANCODE625	This section processes transaction code 625 to decrease the amount in Disbursement Tax Withheld on the IRA/Keogh Record for a customer.
INVESTMENT-TRANCODE626	This section processes transaction code 626 to reduce the amount of disbursement tax withheld year-to-date for a retirement customer.
INVESTMENT-TRANCODE650	This section processes transaction code 650 to flag a Credit transaction not to appear on a statement. The system re-accrues for this transaction. There must be a credit transaction with the same amount, effective date, and serial number or the transaction rejects and appears on 08-033 (Unmatched Reversals).

INVESTMENT-TRANCODE660	This section processes transaction code 660 to decrease the amount in the Current Balance field on an account. The system re-accrues from the effective date of the transaction. This transaction can be automatically generated by the system when purging an account with a positive balance.
INVESTMENT-TRANCODE670	This section processes transaction code 670 to decrease the amount of Interest Available on an account.
INVESTMENT-TRANCODE680	This section processes transaction code 680 to decrease the amount of Interest Earned Not Paid In an account. This transaction cannot not be backdated.
INVESTMENT-TRANCODE690	This section processes transaction code 690 to decrease the amount appearing in the Interest Paid Year-to-date field without affecting the Current Balance field. The system does not re-accrue for this transaction so there is no need to backdate.
INVESTMENT-TRANCODE700	This section processes transaction code 700 (Partial Redemption or Withdrawal) on an account. The system calculates a penalty on the withdrawal amount and generates a transaction 930 for the penalty amount. Since this is not a closing transaction, interest is not automatically paid.
INVESTMENT-TRANCODE710	This section processes transaction code 710 (Penalty Free Withdrawal) on any account type.
INVESTMENT-TRANCODE720	This section processes transaction code 720 (Normal Distribution) on Individual Retirement Accounts. This transaction is automatically generated by the system on the payout date in the Customer Record, according to the options selected.
INVESTMENT-TRANCODE721	This section processes transaction code 721 (Excess Earnings Withdrawal) on Retirement accounts. This is generated whenever an Excess Contribution Withdrawal is posted and Flag 17 is 'Y' on MICM Record 0301 (Application System Options Flags).
INVESTMENT-TRANCODE728	This section processes transaction code 728 (Transfer Withdrawal for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE729	This section processes transaction code 729 (Nondeductible Withdrawal for Last Year) on Individual Retirement Accounts.
INVESTMENT-TRANCODE730	This section processes transaction code 730 (Withdrawal Without Penalty) on Individual Retirement Accounts.
INVESTMENT-TRANCODE731	This section processes transaction code 731 (Transfer Withdrawal) on Individual Retirement Accounts.
INVESTMENT-TRANCODE732	This section processes transaction code 732 (Nondeductible Withdrawal) on Individual Retirement Accounts.

INVESTMENT-TRANCODE733	This section processes transaction code 733 (Regular Contribution Withdrawal) on Individual Retirement Accounts.
INVESTMENT-TRANCODE734	This section processes transaction code 734 (Employer Contribution Withdrawal) on Individual Retirement Accounts.
INVESTMENT-TRANCODE736	This section processes transaction code 736 (Insurance Contribution Withdrawal) on Individual Retirement Accounts.
INVESTMENT-TRANCODE737	This section processes transaction code 737 (Rollover Contribution Withdrawal) on Individual Retirement Accounts.
INVESTMENT-TRANCODE738	This section processes transaction code 738 (Retirement Withdrawal) on Individual Retirement Accounts.
INVESTMENT-TRANCODE739	This section processes transaction code 739 (Self-directed Retirement Transfer Out) on Individual Retirement Accounts.
INVESTMENT-TRANCODE740	This section processes transaction code 740 (Withdrawal Without Penalty) on Individual Retirement Accounts.
INVESTMENT-TRANCODE742	This section processes transaction code 742 (Trustee to Trustee Transfer).
INVESTMENT-TRANCODE745	This section processes transaction code 745 (Transfer Due to Divorce).
INVESTMENT-TRANCODE750	This section processes transaction code 750 (Disability Withdrawal Without Penalty) on Individual Retirement Accounts.
INVESTMENT-TRANCODE751	This section processes transaction code 751 (Divorce Withdrawal) on Individual Retirement Accounts.
INVESTMENT-TRANCODE755	This section processes transaction code 755 (Premature Distribution Known Exception) on Individual Retirement Accounts. This transaction code was developed to provide the user with a transaction that would report as a Distribution Code Type 2, – Early (premature) distribution exception applies.
INVESTMENT-TRANCODE760	This section processes transaction code 760 (Death Withdrawal Without Penalty) on Individual Retirement Accounts.
INVESTMENT-TRANCODE765	This section processes transaction code 765 (Prohibited Transaction) on retirement accounts.
INVESTMENT-TRANCODE770	This section processes transaction code 770 (Premature Distribution) on Individual Retirement Accounts. The system calculates a penalty on the withdrawal amount and automatically generates a transaction 930 for the penalty amount.

INVESTMENT-TRANCODE771	This section processes transaction code 771 (Premature Distribution) on Individual Retirement Accounts. There is no penalty when using this transaction.
INVESTMENT-TRANCODE780	This section processes transaction code 780 (Withdrawal) on Individual Retirement Accounts. The system calculates a penalty on the withdrawal amount and automatically generates a transaction 930 for the penalty amount.
INVESTMENT-TRANCODE790	This section processes transaction code 790 (Passbook Withdrawal) on Passbook accounts.
INVESTMENT-TRANCODE800	This section processes transaction code 800 (Rollover Withdrawal Without Penalty) on Individual Retirement Accounts.
INVESTMENT-TRANCODE801	This section processes transaction code 801 to reverse a transaction 401 (Rollover Contribution Current Year) on Individual Retirement Accounts. If there is no transaction 401, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE802	This section processes transaction code 802 to reverse a transaction 402 (Transfer Contribution Current Year) on Individual Retirement Accounts. If there is no transaction 402, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE810	This section processes transaction code 810 (Rollover Contribution Withdrawal With Penalty) on Individual Retirement Accounts. The system automatically calculates a penalty on the withdrawal amount and generates a transaction 930, penalty.
INVESTMENT-TRANCODE811	This section processes transaction code 811 to reverse a transaction 411 (Rollover Contribution for Last Year) on Individual Retirement Accounts. If there is no transaction 411, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE812	This section processes transaction code 812 to reverse a transaction 412 (Transfer Contribution for Last Year) on Individual Retirement Accounts. If there is no transaction 412, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE820	This section processes transaction code 820 (Employer Excess Contribution Withdrawal Current Year) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags), is checked and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest earned.
INVESTMENT-TRANCODE821	This section processes transaction code 821 to reverse a transaction 421 (Employer Contribution Current Year) on Individual Retirement Accounts. If there is no transaction 421, the transaction rejects and appears on 08-033 (Unmatched Reversals).

INVESTMENT-TRANCODE830	This section processes transaction code 830 (Employer Excess Contribution Withdrawal for Last Year) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest earned.
INVESTMENT-TRANCODE831	This section processes transaction code 831 to reverse a transaction 431 (Employer Contribution for Last Year) on Individual Retirement Accounts. If there is no transaction 431, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE840	This section processes transaction code 840 (Regular Excess Contribution Withdrawal Current Year) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest earned.
INVESTMENT-TRANCODE841	This section processes transaction code 841 to reverse a transaction 441 (Regular Contribution Current Year) on Individual Retirement Accounts. If there is no transaction 441, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE842	This section processes transaction code 842 to reverse a transaction 442 (Nondeductible Contribution Current Year) of Individual Retirement Accounts. If there is no transaction 442, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE843	This section processes transaction code 843 to reverse a transaction 443 (Capital Gain for Self-directed Individual Retirement Accounts). If there is no transaction 443, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE844	This section processes transaction code 844 to reverse a transaction 444 (Self-directed Retirement Transfer In) on Individual Retirement Accounts. If there is no transaction 444, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE846	This section processes transaction code 846 to reverse a transaction 446 (Retirement Credit Transfer In) on Individual Retirement Accounts. If there is no transaction 446, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE848	This section processes transaction code 848 (Excess Nondeductible Contribution Withdrawal After Year End) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest.

INVESTMENT-TRANCODE849	This section processes transaction code 849 (Excess Nondeductible Contribution Withdrawal Current Year) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest.
INVESTMENT-TRANCODE850	This section processes transaction code 850 (Regular Excess Contribution Withdrawal for Last Year) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest earned.
INVESTMENT-TRANCODE851	This section processes transaction code 851 to reverse a transaction 451 (Regular Contribution for Last Year) on Individual Retirement Accounts. If there is no transaction 451, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE852	This section processes transaction code 852 to reverse a transaction 452 (Nondeductible Contribution for Last Year) on Individual Retirement Accounts. If there is no transaction 452, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE853	This section processes transaction code 853 (Excess Nondeductible Contribution Withdrawal Last Year) on IRA. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest.
INVESTMENT-TRANCODE860	This section processes transaction code 860 (Insurance Excess Contribution Withdrawal Current Year) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest earned.
INVESTMENT-TRANCODE861	This section processes transaction code 861 to reverse a transaction 461 (Insurance Contribution Current Year) on Individual Retirement Accounts. If there is no transaction 461, the transaction rejects and appears on 08-033 (Unmatched Reversals).
INVESTMENT-TRANCODE870	This section processes transaction code 870 (Insurance Excess Contribution Withdrawal for Last Year) on Individual Retirement Accounts. Flag 17 on MICM Record 0301 (Application System Option Flags) is checked, and if it is set, INVESTMENT-IRA-OVERCONTRIBUTION is performed to handle the excess interest earned.
INVESTMENT-TRANCODE871	This section processes transaction code 871 to reverse a transaction 471 (Insurance Contribution for Last Year) on Individual Retirement Accounts. If there is no transaction 471, the transaction rejects and appears on 08-033 (Unmatched Reversals).

INVESTMENT-TRANCODE880	This section processes transaction code 880 (Penalty) on Individual Retirement Accounts.
INVESTMENT-TRANCODE890	This section processes transaction codes 890 and 893 through 895 (Normal Redemption) on any matured account. If the account is an Individual Retirement Account, the amount is reflected in the Regular Distribution field on the IRA/Keogh Record.
INVESTMENT-TRANCODE891	This section processes transaction code 891 (Normal Retirement Closeout) on matured Individual Retirement Accounts. The amount of this transaction does not reflect in the Distribution field on the IRA/Keogh Record.
INVESTMENT-TRANCODE900	This section processes transaction codes 900 and 913 through 915 (Special Redemption) on any account type. If the account is an Individual Retirement Account, the amount is reflected in the Distribution field on the IRA/Keogh Record. There is no penalty with this transaction.
INVESTMENT-TRANCODE901	This section processes transaction code 901 (Special Retirement Closeout) on Individual Retirement Accounts. The amount of this transaction does not reflect in the Distribution field on the IRA/Keogh Record. There is no penalty with this transaction.
INVESTMENT-TRANCODE910	This section processes transaction codes 910 and 993 through 995 (Early Redemption) to close an active account. The system calculates the penalty on the withdrawal amount and automatically generates a transaction 930 for the penalty amount. The system also pays any Interest Earned Not Paid and generates a transaction 490 for the interest amount. If the account is an Individual Retirement Account, the closeout amount is reflected in the Distribution field on the IRA/Keogh Record.
INVESTMENT-TRANCODE920	This section processes transaction code 920 (Federal Tax Withheld) on any account type. The system automatically generates this transaction when paying interest on an account whose Federal Tax Exempt code indicates no tax ID number. The amount withheld is determined by the parameters set in MICM Record 0234 (Federal Withholding Information).
INVESTMENT-TRANCODE922	This section processes transaction code 922 to increase the amount of Federal Tax to be withheld if there is an IRS withdrawal during the exemption period.
INVESTMENT-TRANCODE925	This section processes transaction code 925 (Disbursement Tax Withheld) on Individual Retirement Accounts. The amount to be withheld is determined by the parameters set in the Payout fields on the Customer Record.
INVESTMENT-TRANCODE930	This section processes transaction code 930 (Penalty) on any account type. The system may automatically generate this transaction when using certain transaction codes.
INVESTMENT-TRANCODE931	This section processes transaction code 931 (Capital Loss) on Self-directed Individual Retirement Accounts.

INVESTMENT-TRANCODE940	This section processes transaction code 940 (Service Charge) on any account type. The system may automatically generate this transaction by using the service charge schedule on accounts and the service charge parameters on MICM Record 3507 (Time Investment Service Charge Parameters).
INVESTMENT-TRANCODE950	This section processes transaction code 950 (Service Charge Debit Adjustment) to increase the amount in the Service Charge History field on the Master Record.
INVESTMENT-TRANCODE960	This section processes transaction code 960 (Forced Debit) to allow a withdrawal on an account that is coded not to allow any debit transactions.
INVESTMENT-TRANCODE970	This section processes transaction code 970 (Passbook Bookable Items) on Passbook accounts. This transaction books all previously unbooked transactions.
INVESTMENT-TRANCODE980	This section processes transaction code 980 (Interest Transfer Out) on any account type. The system automatically generates this transaction when paying interest and the disposition indicates transfer of interest to another account.
INVESTMENT-TRANCODE990	This section processes transaction code 990 (Interest Check Written) on any account type. The system automatically generates this transaction when paying interest and the disposition indicates payment of interest by check.
INVESTMENT-TRANCODE991	This section processes transaction code 991 (Capitalized Interest Payment) on any account type. The interest payment is made from the available interest in the account instead of interest that is earned but not paid.
INVESTMENT-TRANSFER	This section is performed when the branch or type number is changed on a record during the current processing. Activity records are spooled to show the change from one type or branch to another on the activity recaps.
INVESTMENT-TYPE-RATECHANGE	This section first initializes the working storage areas for type rate changes. The Posting Transaction File is read for rate change transactions. If an error is detected, a report record is written for 08-058 (Exceptions Report).
INVESTMENT-TYPES	This section is performed to store the type processing parameters from MICM Record 3502 (Time Investment Type Processing Parameters) for the type of account being processed.
INVESTMENT-UNPOSTED	This section is performed to process each unposted item. The unposted items are accumulated to be posted to the suspense account. Posting Reject Journal Records or Dormant Activity Journal Records are spooled to the Report File. Activity Record 14 to record debits and Record 02 to record credits, are written.
INVESTMENT-UPDATE	This section updates investment information. The Institution Control File is read and dates are calculated for yesterday and tomorrow. Reading of the Master File is started. The processing is done by performing the appropriate routine. The Posting Transaction File is also opened. If the account is an IRA, the associated Customer Record is read.

INVESTMENT-USERPENALTY	This section is performed if the penalty parameter on the Master Record indicates not to use the routines on MICM Record 3503. Copybook TIP003 is used.
INVESTMENT-VAR-TDOA-AVAIL	This section is performed for variable rate Time Deposit Open Accounts. Each TDOA Availability Record is checked for availability dates. Funds are moved from the Unavailable fields to the Available fields if within the 10-day availability period. The interest rate for a deposit may be changed at this time depending on the Interest Rate Code in the Master Record.
INVESTMENT-WITHDRWL-SEQUENCE00	This section is performed to process withdrawal transactions, without a sequence number, on Time Deposit Open Accounts. The effective date of the transaction cannot be prior to the last transaction date or the last rate change date on the Master Record.
INVESTMENT-WITHDRWL-SEQUENCE99	This section is performed to process withdrawal transactions, with a sequence number, on Time Deposit Open Accounts. The withdrawal is processed against the TDOA Availability Record with the same sequence number. Transactions may be processed against the Available Interest, Interest Earned Not Paid, Available Amount, or Unavailable Amount.
INVESTMENT-WRITE-EXCPFIL	This section (performed from INVESTMENT-UNPOSTED) writes a record to TI-EXCPFIL for every monetary transaction that rejects. TI-EXCPFIL is then entered into Infopoint Exception Administrator.
INVESTMENT-W4P-NOTICE	This section is performed to determine if a W-4P needs to be generated due a scheduled disbursement less frequently than quarterly (e.g., semi-annually or annually). Notices for all other customers receiving disbursements will be produced annually in TIY070 (W-4P Notice of Withholding). If a disbursement schedule is established at the account level (interest by check or transfer) as well as the customer level, the customer-level schedule takes precedence to determine if the frequency is less than quarterly.
INVESTMENT-7TO31DAYPENALTY	This section is performed whenever a penalty must be calculated on an account with a term of less than 32 days. Copybook TIP041 is used.
JULIAN-365	This is the standard routine used to convert an eight-position date to a Julian date with a year base of 365. Copybook SRP001 is used.
LAST-DATE-365	This is the standard routine used to back up a date by a prescribed number of days or months. Copybook SRP019 is used.
LOAD-MIMREGION	This section searches tables containing MICM records used for Regional Pricing. If the records are not found for the appropriate region, ACCESS-MIMRGNPRICING is performed to retrieve the necessary MICM records for the region needed.

MAIN-BANK	<p>This section is performed whenever the institution number changes while processing the Time Investment files. This section reads and stores information from MICM Records 0301, 0307, 2013, 3500, 3501, 3502, 3503, 3504, 3505, 3507, and 3508 and the Institution Control Record. This is done by performing the call routine for the MICM File and the Institution Control File, selecting the record information requested, and moving the information to the working storage areas. The account analysis section is performed in the MAIN-BANK. In addition, in this section, several days and dates are checked, such as lead days, end-of-month date, first day of the month date, and the end-of-year date. Type rate changes are also performed from this section.</p> <p>Note: Time Investment is equipped to handle a maximum of 600 transaction codes per institution. These transaction codes are defined under MICM Record 2013 (Transaction Code Parameters). This 600 maximum count includes transaction codes for both internally and externally generated transactions.</p> <p>If this number is not sufficient to handle your institution's processing requirements, it can easily be increased to meet your needs by making the following programming changes to TID200.</p> <ul style="list-style-type: none">■ Change the OCCURS statement for field WS-MIMREC2013TABLE to match your requirements.■ Change the VALUE clause in field WS-MIM2013SIZE to match the OCCURS.
MAIN-CUST-REPORTKEY	This section is performed to write the Standard Report Record information from the Customer File. TIRPTU-RECORD is first cleared and the data is taken from the Customer Record and written to the TIRPTU-RECORD.
MAIN-LOGIC	This section opens the files and performs the other sections in the sequence necessary to process Time Investment.
MAIN-MAST-REPORTKEY	This section is performed to write the Standard Report Record information from the Master File. TIRPTU-RECORD is first cleared and the data is taken from the Master Record and written to the TIRPTU-RECORD.
NEXT-CYCLE-365	This is the standard routine used to advance a date to the next cycle as indicated in days, months, or periods. Copybook SRP022 is used.
NEXT-DATE-BUSINESS	This section is performed when calculating a date using business days only. Copybook SRP056 is used.
NEXT-DATE-365	This is the standard routine used to advance a date by a prescribed number of days or months. Copybook SRP009 is used.
OPEN-API-FILES	This section performs the open for all API records to be accessed.
OPEN-NONAPI-FILES	This section opens for output non-API files.
POSTING-INITIAL	This section clears record areas and working storage areas.

RECOVER-TIACTY	This section recovers TIACTY records from TIRCOV.
RECOVER-TIDISB	This section recovers TIDISB records from TIRCOV.
RECOVER-TIEXCP	This section recovers TIEXCP records from TIRCOV.
RECOVER-TIPROF	This section recovers TIPROF records from TIRCOV.
RECOVER-TIRPTB	This section recovers TIRPTB records from TIRCOV.
RECOVER-TIRPTU	This section recovers TIRPTU records from TIRCOV.
RECOVER-TISTMT	This section recovers TISTMT records from TIRCOV.
RECOVER-TIWORK	This section recovers TIWORK records from TIRCOV.
RETIREMENT-SAVE- RESTORE	This section is used in disbursement processing to rewrite a Master Record or to read the Master Record. It is used to reposition the Master Record for sequential processing done in posting.
SELECTIVE-PROCESSING	This section is performed to determine which institutions are being processed in the current run.
TEST-AVAIL-DATES	This section is performed when determining either the closing value or the withdrawal amount on a TDOA account when the effective date of the debit transaction is backdated. The purpose is to correctly calculate the amount of penalty to be assessed. The effective date of the withdrawal transaction determines how far back the availability dates are rolled in order to accurately assess penalty amount. For example, a TDOA with its funds currently in an unavailable status, might have had those funds available to the account holder at the time the debiting transaction is to be effective. In that situation, no penalty would be assessed against the withdrawal.
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 MST.
0003	OPEN failed on ACN.
0004	OPEN failed on AVL.
0005	OPEN failed on ASG.
0006	OPEN failed on INT.
0007	OPEN failed on IRA.
0008	OPEN failed on PAY.

Code	Description
0009	OPEN failed on RAT.
0010	OPEN failed on TRN.
0011	OPEN failed on TRD.
0012	OPEN failed on XRL.
0013	READ failed on MICM Record 1001, Institution 000.
0014	READ failed on BNK.
0015	READ NEXT failed on BNK.
0016	READ failed on MICM Record 1001.
0017	READ failed on MICM Record 3500.
0018	READ failed on MICM Record 0234.
0019	START failed on MICM Record 2002.
0020	READ NEXT failed on MICM Record 2002.
0021	READ failed on MICM Record 0301.
0022-0026	READ failed on MICM Record 0307, Records 1 – 5.
0027	READ failed on MICM Record 2013, Appl '08'.
0028	READ NEXT failed on MICM Record 2013, Appl '08'.
0029	START failed on MICM Record 2013, Appl '08'.
0030	READ NEXT failed on MICM Record 2013, Appl '08'.
0031	START failed on MICM Record 2001.
0032	READ NEXT failed on MICM Record 2001.
0033	Error occurred loading Regional Pricing Records.
0034	READ failed on MICM Record 2005.
0035-0036	WRITE failed. File space exceeded on TIRPTU.
0037	READ NEXT failed on CST.
0038	READ failed on MST processing customer level service charge.
0039	REWRITE failed on MST processing customer level service charge.
0040	REWRITE failed on CST at the end of customer posting.
0041	READ NEXT failed on PAY during customer purge.
0042	DELETE failed on PAY during customer purge.
0043	READ NEXT failed on ACN during customer purge.
0044	DELETE failed on ACN during customer purge.
0045	READ NEXT failed on IRA during customer purge.

Code	Description
0046	DELETE failed on IRA during customer purge.
0047	REWRITE failed on CST during customer purge.
0048	WRITE failed. File space exceeded on TIWORK.
0049	WRITE failed. File space exceeded on TIDISB.
0050	READ NEXT failed on MST.
0051	READ failed on CST.
0052	REWRITE failed on MST at the end of account posting.
0053	LOAD failed on Regional Pricing Records, Record 3501.
0054	LOAD failed on Regional Pricing Records, Record 3502.
0055	LOAD failed on Regional Pricing Records, Record 3503.
0056	LOAD failed on Regional Pricing Records, Record 3504.
0057	LOAD failed on Regional Pricing Records, Record 3507.
0058	DELETE failed on ASG.
0059	WRITE failed. File space exceeded on TIACTY.
0060	Number of Type Rate Changes is greater than 100 per institution.
0061	READ NEXT failed on RAT.
0062	REWRITE failed on RAT.
0063	REWRITE failed on MST when adding a rate change.
0064	ADD failed on RAT.
0065	READ NEXT failed on RAT.
0066-0068	READ NEXT failed on TRN during Re-accrual Rate Change.
0069	READ NEXT failed on TRN flagging reversals.
0070	REWRITE failed on TRN flagging reversals.
0071	READ NEXT failed on RAT.
0072	REWRITE failed on RAT.
0073-0074	READ NEXT failed on RAT, get last new rate.
0075	REWRITE failed on AVL.
0076	DELETE failed on AVL.
0077	ADD failed on AVL.
0078	READ failed on IRA for spousal account.
0079	READ NEXT failed on TRN trying to find a matching transaction for a reversal transaction.

Code	Description
0080	REWRITE failed on TRN posting a reversal transaction.
0081	READ failed on CST for a retirement account with activity.
0082	READ NEXT failed on IRA for a retirement account with activity.
0083	WRITE failed. File space exceeded on TIWORK.
0084	READ failed on MST. Suspense account missing.
0085	READ NEXT failed on MST after reading Service Charge Account.
0086	WRITE failed. File space exceeded on TIEXCP.
0087	READ failed on MST for Service Charge Account.
0088	WRITE failed. File space exceeded on TIWORK.
0089	READ NEXT failed on MST after reading Service Charge Account.
0090	WRITE failed. File space exceeded on TIPROF.
0091	REWRITE failed on MST for over-contributed retirement account.
0092	READ NEXT failed on ACN for over-contributed retirement account.
0093-0094	READ failed on MST.
0095	REWRITE failed on AVL.
0096	ADD failed on AVL.
0097	READ failed on AVL.
0098-0099	REWRITE failed on AVL.
0100	READ NEXT failed on AVL.
0101	CLOSE failed on AVL.
0102	OPEN failed on AVL, alternate key processing.
0103	READ NEXT failed on AVL, alternate key processing.
0104	CLOSE failed on AVL, alternate key processing.
0105	OPEN failed on AVL.
0106	READ failed on AVL.
0107-0108	REWRITE failed on AVL.
0109	READ failed on MST for Maturity Account.
0110	READ NEXT failed on MST after reading Maturity Account.
0111	WRITE failed. File space exceeded on TIWORK.
0112	READ NEXT failed on XRL.
0113	READ NEXT failed on RAT when generating statements.
0114	READ NEXT failed on TRN when generating statements.

Code	Description
0115	READ failed on TRD when generating statements.
0116	WRITE failed. File space exceeded on TISTMT.
0117	WRITE failed. File space exceeded on TIWORK.
0118	READ NEXT failed on AVL when paying interest.
0119	REWRITE failed on AVL when paying interest.
0120	READ NEXT failed on AVL when paying interest.
0121	REWRITE failed on AVL when paying interest.
0122	READ NEXT failed on INT.
0123	ADD failed on INT.
0124	REWRITE failed on INT.
0125	READ NEXT failed on INT.
0126	REWRITE failed on INT.
0127-0128	READ NEXT failed on AVL, calculating penalty.
0129	READ NEXT failed on TRN when deleting for a purged account.
0130	DELETE failed on TRN for a purged account.
0131	READ NEXT failed on TRD when deleting for a purged account.
0132	DELETE failed on TRD for a purged account.
0133	READ NEXT failed on INT when deleting for a purged account.
0134	DELETE failed on INT for a purged account.
0135	READ NEXT failed on RAT when deleting for a purged account.
0136	DELETE failed on RAT for a purged account.
0137	READ failed on AVL when deleting for a purged account.
0138	DELETE failed on AVL for a purged account.
0139	READ NEXT on XRL when deleting for a purged account.
0140	DELETE failed on XRL for a purged account.
0141	READ NEXT failed on ASG when deleting for a purged account.
0142	DELETE failed on ASG for a purged account.
0143	READ failed on CST for a purged account.
0144	READ failed on ACN for a purged account.
0145	DELETE failed on ACN for a purged account.
0146	READ failed on CST for purged spousal account.
0147	READ failed on ACN for a purged spousal account.

Code	Description
0148	DELETE failed on ACN for a purged spousal account.
0149	WRITE failed. File space exceeded on the B-90 Report File (TIRPTB).
0150	REWRITE failed on CST.
0151	READ failed on IRA.
0152	REWRITE failed on IRA.
0154	ADD failed on TRN.
0155	ADD failed on TRD.
0156	READ NEXT failed on TRN.
0157	READ NEXT failed on TRN for Passbook processing.
0158	READ failed on TRD for Passbook processing.
0159	REWRITE failed on TRN for Passbook processing.
0160	READ failed on CST from TIWORK.
0161	READ NEXT failed on ACN.
0162	READ failed on MST.
0163	READ failed on MST from TIWORK.
0164	READ failed on MST, Suspense account.
0165	REWRITE failed on MST, Suspense account.
0166	REWRITE failed on MST, Disbursement Transfer.
0167	REWRITE failed on MST, Interest Transfer.
0168	REWRITE failed on MST, Service Charge.
0169	REWRITE failed on MST, Principal Transfer.
0170	Missing IRA/Keogh Record trying to process over contribution from TIWORK.
0171	READ failed on IRA.
0172	Missing Account Numbers Record trying to process over contribution from TIWORK.
0173	READ NEXT failed on ACN trying to process over contribution from TIWORK.
0174	READ failed on MST trying to process over contribution from TIWORK.
0175	REWRITE failed on CST trying to process over contribution from TIWORK.
0176	WRITE failed. File space exceeded on TIRPTU.

Code	Description
0177	WRITE failed. File space exceeded on B-90 Report File (TIRPTB).
0178	READ NEXT failed on CST rolling K Record totals at year-end.
0179	READ NEXT failed on IRA rolling K Record totals at year-end.
0180	READ NEXT failed on ACN rolling K Record totals at year-end.
0181	READ failed on MST rolling K Record totals at year-end.
0182	READ failed on IRA rolling K Record totals at year-end.
0183	REWRITE failed on IRA rolling K Record totals at year-end.
0184	CLOSE failed on MST.
0185	CLOSE failed on BNK.
0186	CLOSE failed on MST.
0187	CLOSE failed on CST.
0188	CLOSE failed on ACN.
0189	CLOSE failed on AVL.
0190	CLOSE failed on ASG.
0191	CLOSE failed on INT.
0192	CLOSE failed on IRA.
0193	CLOSE failed on PAY.
0194	CLOSE failed on RAT.
0195	CLOSE failed on TRN.
0196	CLOSE failed on TRD.
0197	CLOSE failed on XRL.
0198	READ failed on CST processing disbursements.
0199	READ failed on MST processing disbursements.
0200	WRITE failed. File space exceeded on TIWORK.
0201	REWRITE failed on CST processing disbursements.
0202	READ failed on IRA processing disbursements.
0203	REWRITE failed on IRA processing disbursements.
0204	REWRITE failed on MST processing disbursements.
0205	WRITE failed. File space exceeded on TIRPTU.
0206	READ NEXT failed on PAY.
0207	ADD failed on PAY.
0208	READ NEXT failed on ACN updating Payfrom Account (newest).

Code	Description
0209-0210	READ failed on MST updating Payfrom Account (newest).
0211-0212	REWRITE failed on CST updating Payfrom Account (newest).
0213	READ NEXT failed on ACN updating Payfrom Account (oldest).
0214-0215	READ failed on MST updating Payfrom Account (oldest).
0216-0217	REWRITE failed on CST updating Payfrom Account (oldest).
0218	READ NEXT failed on ACN updating Payfrom Account (high rate).
0219-0220	READ failed on MST updating Payfrom Account (high rate).
0221-0222	REWRITE failed on CST updating Payfrom Account (high rate).
0223	READ NEXT failed on ACN updating Payfrom Account (low rate).
0224-0225	READ failed on MST updating Payfrom Account (low rate).
0226-0227	REWRITE failed on CST updating Payfrom Account (low rate).
0228	REWRITE failed on MST processing Disbursements.
0229	READ failed on MST processing disbursements.
0230	OPEN failed on BNK for selective processing.
0231	READ NEXT failed on BNK for selective processing.
0232	REWRITE failed on BNK for selective processing.
0233	CLOSE failed on BNK for selective processing.
0234	START failed on MICM Record 3505.
0235	READ NEXT failed on MICM Record 3505.
0236	START failed on MICM Record 3501.
0237	READ NEXT failed on MICM Record 3501.
0238	Number of records recovered does not match the counts on TICKPT.
0239	WRITE failed on TIRPTU during recovery.
0240	WRITE failed on TIEXCP during recovery.
0241	WRITE failed on TIRPTB during recovery.
0242	WRITE failed on TIDISB during recovery.
0243	WRITE failed on TIPROF during recovery.
0244	WRITE failed on TIWORK during recovery.
0245	WRITE failed on TISTMT during recovery.
0246	WRITE failed on TIACTY during recovery.
0247	REWRITE failed on TICKPT at sync point.
0248	CLOSE failed on TICKPT at sync point.

Code	Description
0249	Global COMMIT failed at sync point.
0250	READ failed on TICKPT at sync point.
0251	REWRITE failed on TICKPT at sync point.
0252	CLOSE failed on TICKPT at sync point.
0253	READ failed on TICKPT at sync point.
0254	START BROWSE failed on CST at sync point.
0255	START BROWSE failed on MST at sync point.
0256	START BROWSE failed on BNK at sync point.
0257	READ failed on MST suspense account.
0258	REWRITE failed on MST suspense account.
0259	OPEN failed on BNK.
0261	START BROWSE failed on CST.
0262	START BROWSE failed on MST.
0263	READ NEXT failed on TRN.
0264	DELETE failed on TRN.
0265	READ NEXT failed on TRD.
0266	DELETE failed on TRD.
0267-0268	READ failed on IRA processing disbursements.
0269	WRITE failed. File space exceeded on TISTMW.
0270	READ failed on MST processing TISTMW.
0271	WRITE failed on MST processing TISTMW.

TID220 – Activity Posting

Purpose This program updates the Total Activity File, using the Activity records created during the posting process. The Activity Files input into TID220 are TI-ACTYFIL (from TID200) and TI-ACTY3FIL (from TID080). The Activity Recap Report File is created and is used by TID320 to print the Activity Recap reports.

API MICM Records

Record Code	Ext Record Code	Name	Description
0307	M65	MI0307-RECORD	Application System Report Flags Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIACTY	Activity File	Input	Disk	Sequential	23
TIACT3	Batch Maintenance Activity File (opt.)	Input	Disk	Sequential	23
SORTWK1	Sort Work File	O/I	Disk	Sequential	36
TIRPTA	Activity Recap Report File	Output	Disk	Sequential	393

Reports

None

Control Card

The control card is required.

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

Columns	Size	Description
03 – 78	76	Input File indicator. Indicates which Activity files to use. Valid entries are: 1 TIACTY. 3 TIACT3.
79 – 80	2	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 TA1.
0002	OPEN failed on TA2.
0003	Sort error has occurred.
0004	Control card input is invalid.
0005	READ NEXT failed on TA1.
0006	READ NEXT failed on TA2.
0007	TA2 key does not equal TA1 key.
0008	READ failed on BNK.
0009	READ failed on MICM Record 0307.
0010	WRITE failed. File space exceeded on TIRPTA.
0011	REWRITE failed on TA1.
0012	REWRITE failed on TA2.
0013	ADD failed on TA1.
0014	ADD failed on TA2.
0015	CLOSE failed on TA1.
0016	CLOSE failed on TA2.
0017	CLOSE failed on BNK.
0018	CLOSE failed on MIMAST.
0019	READ NEXT failed on BNK, Institution 000.
0020	REWRITE failed on BNK.
0021	CLOSE failed on BNK.
0022	START BROWSE failed on TA1.
0023	START BROWSE failed on TA2.

TID240 – Stand-alone Trial

Purpose This program prints stand-alone trial balances for normal accounts, dormant accounts, employee accounts, and assignment accounts. The option of printing separate trial balances is selected by entering a control card for each institution to be processed.

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
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports

08-205 – Stand-alone Trial Balance
 08-206 – Stand-alone Employee Trial Balance
 08-207 – Stand-alone Dormant Trial Balance
 08-208 – Stand-alone Assignment Trial Balance

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 TID240 .
09 – 11	3	Institution number.

Columns	Size	Description
12 – 12	1	Zero balance switch. Indicates whether to print accounts with a zero balance. Valid entries are: b or Y Yes. N No.
13 – 14	2	Trial balance form code.
15 – 15	1	Trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
16 – 16	1	Dormant trial balance switch. Valid entries are: b or Y Yes. N No.
17 – 18	2	Dormant trial balance form code.
19 – 19	1	Dormant trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
20 – 20	1	Employee trial balance switch. b or Y Yes. N No.
21 – 22	2	Employee trial balance form code.
23 – 23	1	Employee trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
24 – 24	1	Assignment trial balance switch. Valid entries are: b or Y Yes. N No.
25 – 26	2	Assignment trial balance form code.
27 – 27	1	Assignment trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
28 – 80	53	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	Institution number on the control card is invalid.
0005	Zero balance switch on the control card is invalid.
0006	Trial balance print/fiche selection on the control card is invalid.
0007	Dormant trial balance switch on the control card is invalid.
0008	Dormant trial balance print/fiche selection on the control card is invalid.
0009	Employee trial balance switch on the control card is invalid.
0010	Employee trial balance print/fiche selection on the control card is invalid.
0011	Assignment trial balance switch on the control card is invalid.
0012	Assignment trial balance print/fiche selection on the control card is invalid.
0013	READ NEXT failed on BNK, Institution 000.
0014	WRITE failed. File space exceeded on TIWORK.
0015	READ NEXT failed on MST.
0016	READ failed on MICM Record 1001.
0017	START failed on MST.
0018	READ failed on MICM Record 0211.
0019	CLOSE failed on BNK.
0020	CLOSE failed on MST.
0021	CLOSE failed on MIMAST.

TID250 – Variable Rate TDOA Trial

Purpose

This program formats and prints fields on the Account Master and TDOA Availability Records for accounts that have variable rate TDOA activity. A control card can be inserted for each institution selected for processing. If no control card is present, all institutions are processed.

API MICM Records

Record	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
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports

08-250 – Variable Rate TDOA Trial

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 TID250 .
09 – 11	3	Institution number.
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	System number on the control is invalid.
0003	Program identification number on the control card is invalid.
0004	Institution number on the control card is invalid.
0005	READ NEXT failed on BNK.
0006	READ NEXT failed on MST.
0007	READ failed on MICM Record 1001.
0008	READ failed on MICM Record 0211, Institution 000.
0009	READ NEXT failed on AVL.
0010	CLOSE failed on BNK.
0011	CLOSE failed on MIMAST.
0012	CLOSE failed on MST.

TID260 – Stand-alone Short Trial

Purpose This program prints Stand-alone Short Trial Balances for normal accounts, dormant accounts, employee accounts, and assignment accounts. The option of printing separate trial balances is selected by entering a control card for each institution to be processed.

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
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports

08-265 – Stand-alone Trial – Short
 08-266 – Stand-alone Employee Trial – Short
 08-267 – Stand-alone Dormant Trial – Short
 08-268 – Stand-alone Assignment Trial – Short

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification. Valid entry is TID260 .
09 – 11	3	Institution number.

Columns	Size	Description
12 – 12	1	Zero balance switch. Indicates whether to print accounts with a zero balance. Valid entries are: b or Y Yes. N No.
13 – 14	2	Trial balance form code.
15 – 15	1	Trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
16 – 16	1	Dormant trial balance switch. b or Y Yes. N No.
17 – 18	2	Dormant trial balance form code.
19 – 19	1	Dormant trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
20 – 20	1	Employee trial balance switch. b or Y Yes. N No.
21 – 22	2	Employee trial balance form code.
23 – 23	1	Employee trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
24 – 24	1	Assignment trial balance switch. b or Y Yes. N No.
25 – 26	2	Assignment trial balance form code.
27 – 27	1	Assignment trial balance print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
28 – 80	53	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 is invalid.
0003	Program identification number on the control card is invalid.
0004	Institution number on the control card is invalid.
0005	Zero balance switch on the control card is invalid.
0006	Trial balance print/fiche selection on the control card is invalid.
0007	Dormant trial balance switch on the control card is invalid.
0008	Dormant trial balance print/fiche selection on the control card is invalid.
0009	Employee trial balance switch on the control card is invalid.
0010	Employee trial balance print/fiche selection on the control card is invalid.
0011	Assignment trial balance switch on the control card is invalid.
0012	Assignment trial balance print/fiche selection on the control card is invalid.
0013	READ NEXT failed on BNK.
0014	WRITE failed. File space exceeded on TIWORK.
0015	READ NEXT failed on MST.
0016	READ failed on MICM Record 1001.
0017	START failed on MST.
0018	READ failed on MICM Record 0211, Institution 000.
0019	CLOSE failed on BNK.
0020	CLOSE failed on MST.
0021	CLOSE failed on MIMAST.

TID300 – Reports Sort

Purpose This program sorts the Reports File. The Reports File, created in TID200 and TID220, is input to this program and the Sorted Reports File is output. The Sorted Reports File is used as input in TID320 to print the reports. The Report Recap File is also created and is used by TID360 to print the recap reports. The optional output file MIHDT5 is used to pass maintenance history records to MICM; the history records are accessed by the TIMAINT (Maintenance History) panel.

API MICM Records

Record Code	Ext Record Code	Name	Description
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch 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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIRPTA	Activity Recap Report File	Input	Disk	Sequential	393
TIRPTB	B-90 Report File	Input	Disk	Sequential	48
TIRPTD	Batch Maintenance Reports File	Input	Disk	Sequential	393
TIRPTU	Unsorted Reports File	Input	Disk	Sequential	393
SORTWK1	Sort Work File	O/I	Disk	Sequential	461
TIWORK	Work File	O/I	Disk	Sequential	48

File Name	Description	Opened	Media	Access Mode	Record Length
MIHDT5	MICM Maintenance History Daily Transaction File (opt.)	Output	Disk	Sequential	246
TIRECP	Report Recap File	Output	Disk	Sequential	103
TIRPT1	Sorted Reports File	Output	Disk	Sequential	461

Reports None

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification. Valid entry is TID300 .
09 – 11	3	Institution number.
12 – 12	1	Update MIHDT5. Valid entries are: b Do not write maintenance history to MIHDT5. X Write maintenance history to MIHDT5.
13 – 80	68	Indicator for file not being used. Valid entry is D , indicating TIRPTDFIL.

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	WRITE failed. File space exceeded on TIWORK.
0002	System number on the control card is invalid.
0003	Program identification number on the control card is invalid.
0004	WRITE failed. File space exceeded on TIRECP.
0005	READ failed on BNK.
0006	READ failed on MICM Record 3500.
0007	READ failed on MICM Record 2001.
0008	READ failed on MICM Record 1001.
0009	CLOSE failed on MIMAST.
0010	CLOSE failed on BNK.

Code	Description
0011	WRITE failed. File space exceeded on TIRPT1.
0012	CLOSE failed on MIHDT5.
0013	WRITE failed on MIHDT5.

TID320 – Reports Print

Purpose	This program uses the Sorted Reports File from TID300 as input. Reports can be selected by ranges entered on the control card. If no control card is present, all reports are printed.																																							
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Reports

Report Title	Called Program
08-004 – Batch Maintenance Journal	TIG004
08-005 – Trial Balance	TIG005
08-006 – Employee Trial Balance	TIG005
08-007 – Dormant Trial Balance	TIG005
08-008 – Assignment Trial Balance	TIG005
08-009 – Transaction Journal	TIG009
08-010 – Service Charge Journal	TIG010
08-011 – Customer Profile	TIG011
08-012 – Assignment/Caution Journal	TIG012
08-013 – Reserve Requirement B-90	TIG013
08-014 – Overdraft and Uncollected Funds	TIG014
08-015 – Employee Overdraft and Uncollected Funds	TIG014
08-016 – Overdrawn Account Notice	TIG016
08-017 – Activity Recap One	TIG017
08-018 – Activity Recap Two	TIG017
08-019 – New Accounts Report	TIG019
08-020 – Closed Accounts Report	TIG020
08-021 – Purged Accounts Report	TIG021
08-022 – Reopened Accounts Report	TIG020
08-023 – Dormant Activity Report	TIG023
08-024 – Dormant Accounts	TIG024
08-025 – Selected Accounts	TIG009
08-026 – Customer Information Sheet	TIG026
08-027 – Account Information Sheet	TIG027
08-030 – Status Change Report	TIG030
08-031 – Interest Due Report	TIG031
08-032 – Posting Reject Journal	TIG032
08-033 – Unmatched Reversals	TIG033
08-034 – New Account 3 x 5 Card	TIG034
08-035 – Requested 3 x 5 Card	TIG034

Report Title	Called Program
08-036 – Large Balance Report	TIG036
08-037 – Auditors Report	TIG037
08-038 – Book Entry CD Receipt (new account)	TIG038
08-039 – Book Entry CD Receipt (requested)	TIG038
08-042 – Dormant Maintenance Journal (Batch)	TIG004
08-049 – Renewal Notice	TIG049
08-050 – Pre-renewal Notice	TIG050
08-051 – Debit and Credit Memo	TIG051
08-052 – Interest Payment Notice	TIG052
08-053 – Final Maturity Notice	TIG053
08-054 – Redemption – Partial Withdrawal Report	TIG020
08-055 – Matured Accounts Report	TIG020
08-056 – Renewed Accounts Report	TIG020
08-057 – Rate Change Report	TIG057
08-058 – Exceptions Report	TIG058
08-059 – New Account Label	TIG059
08-060 – Request Label	TIG059
08-061 – Payments Journal	TIG061
08-065 – Trial Balance – Short	TIG065
08-066 – Employee Trial Balance – Short	TIG065
08-067 – Dormant Trial Balance – Short	TIG065
08-068 – Assignment Trial Balance – Short	TIG065
08-069 – Disbursements Journal	TIG069
08-070 – IRA/Keogh Over Contribution	TIG070
08-071 – IRA/Keogh Over Contribution Notice	TIG071
08-072 – IRA/Keogh Maturity Report	TIG020
08-073 – New and Deleted Customer Records	TIG073
08-074 – TDOA Activity	TIG074
08-075 – Passbook Balanced Transactions Report	TIG075
08-076 – Passbook Non-balanced Transactions Report	TIG075

Report Title	Called Program
08-077 – Passbook Discrepancy Report	TIG077
08-078 – W-8 Notice	TIG078
08-079 – W-9 Notice	TIG077
08-080 – Federal Withholding Journal	TIG080
08-081 – Second B-Notice	TIG081
08-082 – Daily Accumulator Activity Detail	TIG082

Control Card

The control card is optional.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Starting report number.
06 – 08	3	Ending report number.
09 – 80	72	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	Starting report number on the control card is invalid.
0004	Ending report number on the control card is invalid.
0005	Report number in the record key on the Sorted Reports Record is invalid.
0006	Abort condition occurred while in a called program.
0007	READ failed on MICM Record 0211, Institution 000.
0008	READ failed on MICM Record 3500.
0009	READ failed on MICM Record 0020, Institution 000.
0010	START failed on MICM Record 2001.
0011	READ NEXT failed on MICM Record 2001.
0012	Error occurred loading Regional Pricing Records.
0013	Error occurred using Regional Pricing Table.

Code	Description
0014	READ failed on MICM Record 0021.
0015	Print line control character is invalid.
0016	CLOSE failed on MIMAST.
0017	CLOSE failed on BNK.
0020	START BROWSE failed on MICM Record 1004.
0021	READ NEXT failed on MICM Record 3500.
0022	Table exceeded on MICM Record 1004.

TID330 – Check Print

Purpose This program is used to produce checks for interest, principal, and disbursements payments. It can produce one of two different formats as defined on MICM Record 3500. It can also combine payments for the same customer based on an account-level interest combine option.

API MICM Records

Record Code	Ext Record	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch 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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Sequential	Variable
TIRPT1	Sorted Reports File	Input	Disk	Sequential	461
SORTWK1	Sort Work File	I/O	Disk	Sequential	938
TICKNR	Check Numbers File	Output	Disk	Sequential	461

Reports

08-028 – Checks

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Starting institution number for which checks are to be produced.
06 – 08	3	Ending institution number for which checks are to be produced.
09 – 80	72	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	System number on the control card is invalid.
0002	Starting institution number on the control card is invalid.
0003	Ending institution number on the control card is invalid.
0004	Sort error has occurred.
0005	START failed on BNK, Institution 000.
0006-0007	READ failed on BNK.
0008	READ failed on MICM Record 1001.
0009	READ failed on MICM Record 3500.
0010	READ failed on MICM Record 0307.
0011	READ failed on MICM Record 0211, Institution 000.
0012	START failed on MICM Record 2001.
0013	READ NEXT failed on MICM Record 2001.
0014	Branch table size limit exceeded.
0015	CLOSE failed on BNK.
0016	CLOSE failed on MIMAST.

TID340 – Check Journal Reconciliation

Purpose This program creates a Check Reconciliation File to be used for further check reconciliation. The Check Numbers File is created by TID330, and a Reconciliation File is created. A Reports File containing information for a report similar to report 08-031 is created for use in TID350.

Multiple control cards are needed to run TID340. The first control card is required whenever an institution number change is indicated. The second control card contains the institution, card number (01 – 20), and the beginning and ending check sequence numbers. Control Card 1, which indicates the form code and the print/fiche code must be entered before Control Card 2, which contains the check sequence numbers for a specific institution. This must be included in the job stream for this program to work correctly.

The check numbers passed to this program via the control card are added to the Check Journal Reconciliation File. A listing of the control cards, an edit of the cards, and a check journal are printed on report 08-201 (Check Journal Reconciliation).

API MICM Records

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

API Application Records

Ext Record	Name	Description
Code		
BNK	TIBNK-RECORD	Institution Control Record
INT	TIINT-RECORD	Interest Payment History Record
PAY	TIPAY-RECORD	Customer Payout History Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TICKNR	Check Numbers File	Input	Disk	Sequential	461

File Name	Description	Opened	Media	Access Mode	Record Length
SORTWK1	Sort Work File	O/I	Disk	Sequential	33
TIRGSO	Check Journal Reconciliation File	Output	Disk	Sequential	70
TIRPTX	Report X File	Output	Disk	Sequential	393
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-201 – Check Journal Reconciliation

Control Card 1 The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 04	2	Form code. Code that appears in the third and fourth positions of MICM Record 0307 for report flag 28.
05 – 05	1	Account designation. Valid entry is b .
06 – 08	3	Institution number.
09 – 09	1	Check type. Valid entry is 1 .
10 – 11	2	Card code. Valid entry is 00 .
12 – 13	2	Output form code.
14 – 14	1	Print/Fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
15 – 80	66	Not used.

Control Card 2 The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 04	2	Form code.
05 – 05	1	Account designation. Valid entry is b .
06 – 08	3	Institution number.
09 – 09	1	Check type. Valid entry is 1 .

Columns	Size	Description
10 – 11	2	Card number. Valid entries are 01 – 20 .
12 – 21	10	Starting check number.
22 – 31	10	Ending check number.
32 – 80	49	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	No control card found.
0003	OPEN failed on PAY.
0004	OPEN failed on INT.
0005	WRITE failed. File space exceeded on TIRPTX.
0006	WRITE failed. File space exceeded on TIRGSO.
0007	REWRITE failed on PAY.
0008	REWRITE failed on INT.
0009	READ failed on MICM Record 1001.
0010	READ failed on MICM Record 0211, Institution 000.
0011	CLOSE failed on MIMAST.
0012	CLOSE failed on BNK.

TID350 – Payments Due Register

Purpose	This program produces report 08-209 from the TIRPTX File created in TID340, for payments by check. This report is similar to report 08-031 except that it includes the check numbers.																																							
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PRINTR	Print File	Output	Printer	Sequential	133																																			
Reports	08-209 – Payments Due Register																																							
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 MICM Record 3500.
0002	READ failed on MICM Record 0307.
0003	READ failed on MICM Record 2001.
0004	READ failed on MICM Record 1001.
0005	READ failed on BNK, Institution 000.
0006	READ failed on MICM Record 0211, Institution 000.
0007	READ failed on MICM Record 3500.
0008	READ failed on MICM Record 1001.
0009	READ failed on MICM Record 0020, Institution 000.
0010	READ failed on MICM Record 2001.
0011	READ failed on MICM Record 0021.
0012	CLOSE failed on MIMAST.
0013	CLOSE failed on BNK.

TID360 – Report Recap

Purpose This program reads the Statement File, the Recap File, and the Online Report File from TID035, TID200, and TID300. These records produce a recap by account designation within institution, showing which reports have been produced for the current day.

API MICM Records

Record Code	Ext Record Code	Name	Description
1001	M74	MI1001-RECORD	Institution Information Record
3506	M06	MI3506-RECORD	Time Investment Title Records

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIRECP	Report Recap File	Input	Disk	Sequential	103
TIRPTO	Online Report File	Input	Disk	Sequential	480
TISTMT	Statement File	Input	Disk	Sequential	87
SORTWK1	Sort Work File	O/I	Disk	Sequential	103
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-200 – Report Recap

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, Institution 000.
0002	READ failed on MICM Record 1001.

Code	Description
0003	CLOSE failed on MIMAST.
0004	CLOSE failed on BNK.
0005	OPEN failed on TIRPTO.

TID370 – W-4P Notice of Withholding

Purpose

This program produces a notice for IRA customers receiving disbursements more frequently than quarterly. The notice informs the customers they can revoke or change their withholding election.

Note: If a disbursement schedule is established at the account level (interest by check or transfer) as well as the customer level, the customer-level schedule takes precedence to determine if the frequency is less than quarterly.

The records for this notice are generated in TID200 (Posting) at the time of the disbursement.

Note: Notices (08-614) for all other customers receiving disbursements are produced in TIY070 (W-4P Notice of Withholding).

API MICM Records

Record	Ext Record Code	Name	Description
1001	M74	MI1001-RECORD	Institution Information Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Sequential	Variable
TIRPT1	Sorted Reports File	Input	Disk	Sequential	461
SORTWK1	Sort Work File	O/I	Disk	Sequential	72

Reports

08-094 - W-4P Withholding Notice

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	Sort error has occurred.
0002	READ failed on BNK, Institution 000.
0003	READ failed on BNK.
0004	READ failed on MICM Record 0001.
0005	READ failed on MICM Record 0307, Record 5.
0006	READ failed on MICM Record 3500.
0007	CLOSE failed on BNK.
0008	CLOSE failed on MIMAST.

TID380 – ACH Interface

Purpose

This program reads the Sorted Reports File, and searches for report type 61 records. It only uses transfer records. If the Interest Payment Disposition field is 'T' or the Distribution Disposition field is 'T', a record is created on the ACH File.

This program produces report 08-380 (Automated Clearing House Report), which shows all errors associated with the control card.

A control card is required to determine each institution to be processed, the sending and receiving identification numbers and names, and the file ID modifier. Several control cards can be input in the same run if you are processing multiple institutions.

API MICM Records

Record Code	Ext Record Code	Name	Description
0323	M69	MI0323-RECORD	Deposits Fund Sweeping Institution Information Record
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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIRPT1	Sorted Reports File	Input	Disk	Sequential	461
SORTWK1	Sort Work File	O/I	Disk	Sequential	461
TIACHH	ACH Interface File	Output	Tape	Sequential	94
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-380 – Automated Clearing House Report

Control Card

The control card is required.

Columns	Size	Description
01 – 03	3	Institution number.
04 – 13	10	Receiving point ID number. Position 4 must be blank.
14 – 23	10	Sending point ID number. Position 14 must be blank.
24 – 46	23	Receiving point name.
47 – 69	23	Sending point name.
70 – 70	1	File ID modifier. To permit multiple files created on the same date and between the same participants to be distinguished. Valid entries are 1 – 9 .
71 – 71	1	Print/Fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
72 – 80	9	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	Print/Fiche code on the control card is invalid.
0003	READ failed on MICM Record 1001.
0004	READ failed on MICM Record 0323.
0005	READ failed on MICM Record 3500.
0006	Trying to create Company / Batch Header (Record 5) after File Control Record (Record 9) has already been created.
0007	Trying to create Entry Detail Record (Record 6) after File Control Record (Record 9) has already been created.
0008	Trying to create Company/Batch Control Record (Record 8) after File Control Record (Record 9) has already been created.
0009	Trying to create File Control Record (Record 9) and Company/Batch Control Record (Record 8) has not been created.
0010	CLOSE failed on MIMAST.
0011	CLOSE failed on BNK.

TID400 – Account Statement

Purpose This program reads the Statement File and produces 2-up Time Investment customer and account statements.

Note: If you have increased the number of occurrences and subroutines for regional pricing, you must change two values in the working-storage section of this program. This program has a table that occurs 201 times and a counter with a value of 201 to match the table. Change these values to accommodate the increase made for regional pricing. Refer to the Regional Pricing section in the MICM Parameters chapter of *Procedures Guide 2* for details.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
0316	M66	MI0316-RECORD	Source Code Description Record
1001	M74	MI1001-RECORD	Institution Information Record
1003	M76	MI2002-RECORD	Type Information Record
2000	M00 (MI)	MI2000-RECORD	Advertising Messages Record
2001	M01	MI2001-RECORD	Branch Information Record
2013	M13	MI2013-RECORD	Transaction Code Parameters Record
3500	M00 (TI)	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TISTMT	Statement File	Input	Disk	Sequential	87
TIWORK	Work File	O/I	Disk	Sequential	64

File Name	Description	Opened	Media	Access Mode	Record Length
TIWRK1	Work 1 File	O/I	Disk	Sequential	64
SORTWK1	Sort Work File	O/I	Disk	Sequential	127
PRINTR	Print File	Output	Printer	Sequential	133

Reports	08-046 – Account Statement 08-047 – Customer Statement
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	Abort occurred while in a called program.
0002-0003	Record code on TISTMT is invalid.
0004	No D Record for the account.
0005	No E Record for the account.
0006	Transaction code not found in Transaction Code Table (400 entries).
0007	Institution number on the D Record is zero or not numeric, or the D Record is spaces.
0008	READ failed on BNK.
0009	READ failed on MICM Record 3500.
0010	READ failed on MICM Record 0307.
0011	Transaction code table greater than 400.
0012	Record code on TISTMT is invalid.
0013	Error occurred loading Regional Pricing Records.
0014-0015	Error occurred accessing Regional Pricing Records.
0016	WRITE failed. File space exceeded on TIWRK1.
0017	WRITE failed. File space exceeded on TIWORK.
0018	READ failed on BNK.
0019	READ failed on MICM Record 0211.
0020	READ failed on MICM Record 3500.
0021	START failed on MICM Record 2001.
0022	READ NEXT failed on MICM Record 2001.

Code	Description
0023	Error occurred accessing Regional Pricing Records.
0024	READ failed on MICM Record 0307.
0025	Error occurred loading Regional Pricing Records.
0026	CLOSE failed on BNK.
0027	CLOSE failed on MIMAST.

TID410 – TDOA Statement

Purpose This program reads the Statement File and produces Time Investment TDOA statements.

Note: If you have increased the number of occurrences and subroutines for regional pricing, you must change 2 values in the working-storage section of this program. This program has a table that occurs 201 times and a counter with a value of '201' to match the table. Change these values to accommodate the increase made for regional pricing. Refer to the Regional Pricing section in the MICM Parameters chapter of *Procedures Guide 2* for details.

API MICM Records

Record Code	Ext Record	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
0316	M66	MI0316-RECORD	Source Code Description Record
1001	M74	MI1001-RECORD	Institution Information Record
1003	M76	MI2002-RECORD	Type Information Record
2000	M00 (MI)	MI2000-RECORD	Advertising Messages Record
2001	M01	MI2001-RECORD	Branch Information Record
2013	M13	MI2013-RECORD	Transaction Code Parameters Record
3500	M00 (TI)	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TISTMT	Statement File	Input	Disk	Sequential	87
TIWORK	Work File	O/I	Disk	Sequential	64

File Name	Description	Opened	Media	Access Mode	Record Length
TIWRK1	Work 1 File	O/I	Disk	Sequential	64
SORTWK1	Sort Work File	O/I	Disk	Sequential	127
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-044 – TDOA Statement

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	Abort occurred while in a called program, SRA060.
0002-0003	Record code on TISTMT is invalid.
0004	No D Record for the account.
0005	No E Record for the account.
0006	Transaction code not found in Transaction Code Table (400 entries).
0007	Institution number on the D Record is zero or not numeric, or the D Record is spaces.
0008	READ failed on BNK.
0009	READ failed on MICM Record 3500.
0010	READ failed on MICM Record 0307.
0011	Transaction code table greater than 400.
0012	Record code on TISTMT is invalid.
0013	Error occurred loading Regional Pricing Records.
0014-0015	Error occurred accessing Regional Pricing Records.
0016	WRITE failed. File space exceeded on TIWRK1.
0017	WRITE failed. File space exceeded on TIWORK.
0018	READ failed on BNK.
0019	READ failed on MICM Record 0211.
0020	READ failed on MICM Record 3500.
0021	START failed on MICM Record 2001.
0022	READ NEXT failed on MICM Record 2001.
0023	Error occurred accessing Regional Pricing Records.

Code	Description
0024	READ failed on MICM Record 0307.
0025	Error occurred loading Regional Pricing Records.
0026	CLOSE failed on BNK.
0027	CLOSE failed on MIMAST.

TID440 – Business Statement

Purpose This program reads the Statement File and produces Time Investment business statements.

Note: If you have increased the number of occurrences and subroutines for regional pricing, you must change two values in the working-storage section of this program. This program has a table that occurs 201 times and a counter with a value of '201' to match the table. Change these values to accommodate the increase made for regional pricing. Refer to the Regional Pricing section in the MICM Parameters chapter of *Procedures Guide 2* for details.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M56	MI0211-RECORD	Application Information Record
0307	M65	MI0307-RECORD	Application System Report Flags Record
0316	M66	MI0316-RECORD	Source Code Description Record
1001	M74	MI1001-RECORD	Institution Information Record
1003	M76	MI2002-RECORD	Type Information Record
2000	M00 (MI)	MI2000-RECORD	Advertising Messages Record
2001	M01	MI2001-RECORD	Branch Information Record
2013	M13	MI2013-RECORD	Transaction Code Parameters Record
3500	M00 (TI)	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TISTMT	Statement File	Input	Disk	Sequential	87
SORTWK1	Sort Work 1 File	O/I	Disk	Sequential	127

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

Reports	08-048 – Business Statement
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	Abort occurred while in a called program, SRA060.
0002-0003	Record code on TISTMT is invalid.
0004	No D Record for the account.
0005	No E Record for the account.
0006	Transaction code not found in Transaction Code Table (400 entries).
0007	Institution number on the D Record is zero or not numeric, or the D Record is spaces.
0008	READ failed on BNK.
0009	READ failed on MICM Record 3500.
0010	READ failed on MICM Record 0307.
0011	Transaction code table greater than 400.
0012	Record code on TISTMT is invalid.
0013-0015	Error occurred loading Regional Pricing Records.
0016	READ failed on BNK.
0017	READ failed on MICM Record 0211.
0018	READ failed on MICM Record 3500.
0019	START failed on MICM Record 2001.
0020	READ NEXT failed on MICM Record 2001.
0021	Error occurred accessing Regional Pricing Records.
0022	READ failed on MICM Record 0307.
0023	Error occurred loading Regional Pricing Records.
0024	CLOSE failed on BNK.
0025	CLOSE failed on MIMAST.

TID800 – Work File Backup

Purpose This program copies to tape the files used in daily processing for backup purposes. File selection is determined by the control card.

API MICM Records None

API Application Records None

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
TIACTY	Activity File	Input	Disk	Sequential	23
TIACT3	Batch Maintenance Activity File	Input	Disk	Sequential	23
TICAPT	Capture File	Input	Disk	Sequential	234
TICRDO	Maintenance Card File	Input	Disk	Sequential	80
TIEXCP	Exception Interface File	Input	Disk	Sequential	270
TIPODX	POD Extract File	Input	Disk	Sequential	84
TIPROF	Profitability Interface File	Input	Disk	Sequential	150
TIRPTA	Activity Recap Report File	Input	Disk	Sequential	393
TIRPTB	B-90 Report File	Input	Disk	Sequential	48
TIRPTD	Batch Maintenance Reports File	Input	Disk	Sequential	393
TIRPTU	Unsorted Reports File	Input	Disk	Sequential	393
TISTMT	Statement File	Input	Disk	Sequential	87
TIYEAR	Year-end File	Input	Disk	Sequential	1092
TIBKUP	Backup File	Output	Tape	Sequential	Variable
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-800 – File Backup Record Count

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 80	78	<p>Record selection codes for file backup. The positions depend on the number of files backed up. Valid entries are:</p> <ul style="list-style-type: none"> A Report A File (from TID220). B Report B File (from TID200). C Capture File. D Report D File (from TID080). G Exceptions Interface File. I Maintenance Input File (from TID040). P Profitability Interface File. S Statement File. U Report U File (from TID200). X POD Extract File. Y Year End File. 1 Activity File (from TID200). 3 Activity 3 File (from TID080).

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	System number on the control card is invalid.
0002	READ NEXT failed on TICAPT.
0003	CLOSE failed on TICAPT.

TID820 – Work File Reload

Purpose This program restores the files used in processing Time Investment. File selection is determined by the control card.

API MICM Records None

API Application Records None

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
TIBKUP	Backup File	Input	Tape	Sequential	Variable
TIACTY	Activity File	Output	Disk	Sequential	23
TICAPT	Capture File	Output	Disk	Sequential	234
TICRDO	Maintenance Card File	Output	Disk	Sequential	80
TIEXCP	Exception Interface File	Output	Disk	Sequential	270
TIPODX	POD Extract File	Output	Disk	Sequential	84
TIPROF	Profitability Interface File	Output	Disk	Sequential	150
TIRPTA	Activity Recap Report File	Output	Disk	Sequential	393
TIRPTB	B-90 Report File	Output	Disk	Sequential	48
TIRPTD	Batch Maintenance Reports File	Output	Disk	Sequential	393
TIRPTU	Unsorted Reports File	Output	Disk	Sequential	393
TISTMT	Statement File	Output	Disk	Sequential	87
TIYEAR	Year-end File	Output	Disk	Sequential	1092
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-820 – File Reload Record Count

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 80	78	<p>Record selection codes for file reload or merge. The positions depend on the number of files backed up. Valid entries are:</p> <ul style="list-style-type: none"> A Report A File (from TID220). B Report B File (from TID200). C Capture File. D Report D File (from TID080). G Exceptions Interface File. I Maintenance Input File (TID040). P Profitability Interface File. S Statement File. U Report U File (from TID200). X POD Extract File. Y Year End File. 1 Activity File (from TID200). 3 Activity 3 File (from TID080).

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	System number on the control card is invalid.
0002	WRITE failed. File space exceeded on TIACTY.
0003	WRITE failed. File space exceeded on TIACT3.
0004	ADD failed on TICAPT.
0005	CALL failed on TICAPT, Function J.
0006	CLOSE failed on TICAPT.
0007	WRITE failed. File space exceeded on TICRDO.
0008	WRITE failed. File space exceeded on TIEXCP.
0009	WRITE failed. File space exceeded on TIPODX.
0010	WRITE failed. File space exceeded on TIPROF.
0011	WRITE failed. File space exceeded on TIRPTA.
0012	WRITE failed. File space exceeded on TIRPTB.
0013	WRITE failed. File space exceeded on TIACIT3.

Code	Description
0014	WRITE failed. File space exceeded on TIRPTU.
0015	WRITE failed. File space exceeded on TISTMT.
0016	WRITE failed. File space exceeded on TIYEAR.
0017	OPEN failed on TICAPT.
0018	CLOSE failed on TICAPT.
0019	OPEN failed on TICAPT.
0020	TIBKUP out of sequence or incomplete.

TID900 – General Ledger Interface

Purpose This program generates the General Ledger Interface either to tape or disk for input to the financial control application. The output can be tape or disk. File selection is determined by the control card.

API MICM Records

Record Code	Ext Record	Name	Description
0245	M89	MI0245-RECORD	General Ledger Interface Record
1001	M74	MI1001-RECORD	Institution Information Record

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	O/I	Disk	Sequential	2900
TIGLET	General Ledger Interface File (opt.)	Output	Tape	Sequential	100
TIGLED	General Ledger Interface File (opt.)	Output	Disk	Sequential	100
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-920 – General Ledger Interface Transaction Listing

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Print/Fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
04 – 04	1	Detail/Total code. Valid entries are: D Detail and totals by institution. T Institution totals only.
05 – 05	1	File output code. Valid entries are: D Disk. T Tape.
06 – 80	75	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	Print/Fiche code on the control card is invalid.
0005	Detail/Total code on the control card is invalid.
0006	File output code on the control card is invalid.
0007	OPEN failed on TA1.
0008	OPEN failed on TA2.
0009	READ NEXT failed on TA1.
0010	READ NEXT failed on TA2.
0011	TA2 key does not equal TA1 key.
0012	WRITE failed. File space exceeded on the General Ledger Interface File.
0013	READ failed on BNK.
0014	START failed on MICM Record 0245.
0015	READ NEXT failed on MICM Record 0245.

Code	Description
0016-0021	Table limit exceeded.
0022	WRITE failed. File space exceeded on the General Ledger Interface File.
0023	CLOSE failed on MIMAST.
0024	CLOSE failed on BNK.

Monthly Programs

The following programs produce the Time Investment monthly reports. Monthly programs are identified by an 'M' in the third position of the program name.

TIM200 – Create Monthly Reports File

Purpose This program reads the MICM Master File and creates the Monthly Reports File, which is used as input to TIM300.

API MICM Records

Record	Ext Record Code	Name	Description
0307	M65	MI0307-RECORD	Application System Report Flags Record
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch Information Record
2002	M02	MI2002-RECORD	Index Rate Record
3503	M03	MI3503-RECORD	Time Investment Penalty Routines Record
3508	M08	MI3508-RECORD	Time Investment Monthly Report Record

API Application Records

Ext Record Code	Name	Description
AVL	TIAVL-RECORD	TDOA Availability Record
BNK	TIBNK-RECORD	Institution Control Record
INT	TIINT-RECORD	Interest Payment History Record
MST	TIMST-RECORD	Account Master Record
TA1	TITA1-RECORD	Total Record – Amount
TA2	TITA2-RECORD	Total Record – Number

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIMRPT	Unsorted Monthly Reports File	Output	Disk	Sequential	215

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 BNK.
0002	READ NEXT failed on BNK.
0003	READ failed on MICM Record 0307.
0004	READ failed on MICM Record 3508.
0005	READ NEXT failed on TA1.
0006	READ NEXT failed on TA2.
0007	TA2 Record missing.
0008	OPEN failed on MST.
0009	READ NEXT failed on MST.
0010	WRITE failed on TIMRPT-RECORD.
0011	READ NEXT failed on INT.
0012	READ NEXT failed on AVL.
0013	CLOSE failed on MIMAST.
0014	CLOSE failed on BNK.
0015	CLOSE failed on MST.
0019	START BROWSE failed on MICM Record 3503.
0020	READ NEXT failed on MICM Record 3508.
0021	START BROWSE failed on MICM Record 2002.
0022-0023	READ NEXT failed on MICM Record 2002.
0024	START BROWSE failed on MICM Record 2001.
0025	READ NEXT failed on MICM Record 0307.

TIM300 – Monthly Reports Sort

Purpose This program sorts the Monthly Reports File created in TIM200, and creates the Sorted Monthly Reports File. This new file is used as input to TIM320 for printing the monthly reports.

API MICM Records

Record Code	Ext Record	Name	Description
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

None

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIMRPT	Unsorted Monthly Reports File	Input	Disk	Sequential	215
SORTWK1	Sort Work File	O/I	Disk	Sequential	283
TIWRKM	Work File	O/I	Disk	Sequential	216
TIRPTM	Sorted Monthly Reports File	Output	Disk	Sequential	283

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	READ failed on MICM Record 3500.
0002	READ failed on MICM Record 2001.
0003	READ failed on MICM Record 1001.
0004	Total Record Code on TIMRPT is invalid.

Code	Description
0005	WRITE failed. File space exceeded on TIWRKM.
0006	REWRITE failed on TIWRKM.
0007-0009	READ failed on TIWRKM.
0010	WRITE failed. File space exceeded on TIRPTM.
0011	CLOSE failed on MIMAST.

TIM320 – Monthly Reports Print

Purpose

This program produces Time Investment monthly reports from the output of TIM300. Reports can be selected by ranges entered on the control card. If no control card is present, all reports are printed.

API MICM Records

Record Code	Ext Record	Name	Description
0020	M50	MI0020-RECORD	Holding Company Information Record
0021	M51	MI0021-RECORD	Region Information Record
0211	M56	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution 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

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIRPTM	Sorted Monthly Reports File	Input	Disk	Sequential	283
PRINTR	Print File	Output	Printer	Sequential	133

Reports

Report Title	Called Program
08-121 – Maturity Forecast for nnn Days	TIG121
08-122 – Maturity Analysis by Date	TIG122
08-123 – Maturity Analysis by Rate	TIG123
08-124 – Maturity Analysis by Amount	TIG124
08-125 – Statistical Report – Remaining Maturity	TIG125
08-126 – Analysis by Control	TIG126
08-127 – Monthly Interest Paid Report	TIG127
08-128 – Monthly Closed Accounts	TIG128
08-129 – Monthly New Accounts	TIG129
08-130 – Monthly Dormant Accounts	TIG130
08-131 – Statistical Report – Original Maturity	TIG131
08-132 – Call Report – Schedule E (Fixed Rate)	TIG132
08-133 – Call Report – Schedule E (Floating Rate)	TIG132
08-134 – Schedule CMR – Consolidated Maturity/Rate	TIG134

Control Card

The control card is optional.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Starting report number.
06 – 08	3	Ending report number.
09 – 80	72	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	Starting report number on the control card is invalid.
0004	Ending report number on the control card is invalid.
0005	Report number on the control card is invalid.

Code	Description
0006	Abort condition occurred while in a called program.
0007	READ failed on MICM Record 3500.
0008	READ failed on MICM Record 1001.
0009	READ failed on MICM Record 0020.
0010	READ failed on MICM Record 2001.
0011	READ failed on MICM Record 0021.
0012	READ failed on MICM Record 0211.
0013	Print line control character is invalid.
0014	CLOSE failed on BNK.
0015	CLOSE failed on MIMAST.

Request Programs

The following programs are run on request to generate reports as needed. Request programs are identified by an 'R' in the third position of the program name.

TIR020 – Record Reorganization

Purpose This program updates the Master Record and the Customer Record pointers based on the API Records tied to the account or customer. History accumulation is also verified. Interest History, Rate Change History, Payout History, and Transaction History Records are checked and records are deleted according to the history parameters in MICM.

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
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
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

Ext Record Code	Name	Description
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

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

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	READ failed on BNK, Institution 000.
0002	OPEN failed on CST.
0003	OPEN failed on PAY.
0004	READ NEXT failed on CST.
0005	READ failed on BNK.
0006	READ failed on MICM Record 3500.
0007	READ NEXT failed on PAY.
0008	DELETE failed on PAY.
0009	READ NEXT failed on PAY.
0010	READ NEXT failed on ACN.
0011	READ NEXT failed on IRA.
0012	REWRITE failed on CST.
0013	OPEN failed on MST.
0014	OPEN failed on RAT.
0015	OPEN failed on TRN.
0016	OPEN failed on INT.
0017	OPEN failed on TRD.

Code	Description
0018	READ NEXT failed on MST.
0019	READ failed on BNK.
0020	READ failed on MICM Record 3500.
0021	READ NEXT failed on INT.
0022	DELETE failed on INT.
0024	READ NEXT failed on RAT.
0025	DELETE failed on RAT.
0027	READ NEXT failed on TRN.
0028	READ failed on TRD.
0029	DELETE failed on TRD.
0030	DELETE failed on TRN.
0032	READ NEXT failed on ASG.
0033	READ NEXT failed on AVL.
0034	READ NEXT failed on XRL.
0035	REWRITE failed on MST.
0036	CLOSE failed on MIMAST.
0037	CLOSE failed on BNK.
0038	CLOSE failed on CST.
0039	CLOSE failed on MST.
0040	CLOSE failed on PAY.
0041	CLOSE failed on INT.
0042	CLOSE failed on TRN.
0043	CLOSE failed on RAT.
0044	CLOSE failed on ASG.
0045	CLOSE failed on XRL.
0046	CLOSE failed on IRA.
0047	CLOSE failed on ACN.
0048	CLOSE failed on AVL.
0049	START failed on AVL.

TIR030 – Account Purge

Purpose This program lists all accounts with a current Status of 'P', indicating the account is flagged to be purged. In addition (if indicated by the control card), this program can physically delete the account master and all its affiliated records from the file.

API MICM Records

Record	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
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
INT	TIINT-RECORD	Interest Payment History Record
MST	TIMST-RECORD	Account Master Record
RAT	TIRAT-RECORD	Rate Change History Record
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-960 – Stand-alone Purged Accounts

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program ID. Valid entry is TIR030 .
09 – 11	3	Institution number. Valid entries are a 3-digit value or ALL .
12 – 12	1	Edit option. Valid entries are: D Accounts flagged to be purged are physically deleted by this program. b or E Accounts flagged to be purged are not physically deleted.
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, Institution 000.
0002	System number on the control card is invalid.
0003	Program identification number on the control card is invalid.
0004	Institution number on the control card is invalid.
0005	OPEN/UPDATE failed on MST.
0006	OPEN/UPDATE failed on ACN.
0007	OPEN/UPDATE failed on ASG.
0008	OPEN/UPDATE failed on AVL.
0009	OPEN/UPDATE failed on EMN.
0010	OPEN/UPDATE failed on INT.
0011	OPEN/UPDATE failed on RAT.
0012	OPEN/UPDATE failed on TRN.
0013	OPEN/UPDATE failed on TRD.
0014	OPEN/UPDATE failed on XRL.
0015	START failed on MST.
0016	READ NEXT failed on MST.
0017	READ failed on ACN.
0018	DELETE failed on ACN.

Code	Description
0019	READ failed on ACN, spousal account number.
0020	DELETE failed on ACN, spousal account number.
0021	READ NEXT failed on ASG.
0022	DELETE failed on ASG.
0023	UNLOCK failed on ASG.
0024	READ NEXT failed on AVL.
0025	DELETE failed on AVL.
0026	UNLOCK failed on AVL.
0027	READ failed on EMN.
0028	DELETE failed on EMN.
0029	READ NEXT failed on RAT.
0030	DELETE failed on RAT.
0031	UNLOCK failed on RAT.
0032	READ NEXT failed on XRL.
0033	DELETE failed on XRL.
0034	UNLOCK failed on XRL.
0035	READ NEXT failed on INT.
0036	DELETE failed on INT.
0037	UNLOCK failed on INT.
0038	READ NEXT failed on TRN.
0039	DELETE failed on TRN.
0040	UNLOCK failed on TRN.
0041	READ NEXT failed on TRD.
0042	DELETE failed on TRD.
0043	UNLOCK failed on TRD.
0044	DELETE failed on MST.
0045-0046	CLOSE failed on MIMAST.

TIR040 – Report Resort Cards Edit

Purpose This program edits cards input to select reports for printing. The reports that can be resorted are in TI-RPTUFIL or TI-RPTAFIL. These are the TIGxxx programs, which are call programs. Report 08-013 (B-90 Reserve Requirements) cannot be resorted. Report 08-710 (Report Resort Cards Edit) is printed to show all cards entered and any errors detected

API MICM Records None

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICRDI	Conversion Input Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	O/I	Disk	Sequential	80
TICRDR	Card Input File	O/I	Disk	Sequential	80
TIOPTN	Report Resort Control Card File	Output	Disk	Sequential	503
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-710 – Report Resort Cards Edit

Control Card The control card is required.

Columns	Size	Description
01 – 03	3	Institution number.
04 – 05	2	System number. Valid entry is 08.
06 – 08	3	Report number. Valid entries are 001 – 099.
09 – 10	2	Sort code.
11 – 12	2	Forms code.

Columns	Size	Description
13 – 13	1	Print/Fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
14 – 80	67	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	Error occurred during the sort.
0002	READ failed on BNK, Institution 000.
0003-0004	WRITE failed. File space exceeded on TIOPTN.
0005	CLOSE failed on BNK.

TIR060 – Report Resort

Purpose This program resorts all Time Investment reports (except report 08-013) as indicated by control cards input to TIR040. It is possible to select several reports with the cards input and then run the program several times to sort the selected reports. After executing TIR060, run TID320 to print the sorted reports.

API MICM Records

Record Code	Ext Record	Name	Description
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

None

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIOPTN	Report Resort Control Card File	Input	Disk	Sequential	503
TIRPTA	Activity Recap Report File	Input	Disk	Sequential	393
TIRPTU	Unsorted Reports File	Input	Disk	Sequential	393
SORTWK1	Sort Work File	O/I	Disk	Sequential	461
TIRPT1	Sorted Reports File	Output	Disk	Sequential	461

Reports

None

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Report type code. Valid entries are: A Reports 17 and 18 (TI-RPTAFIL). S All TIGXXX reports except 17 and 18 (TI-RPTUFIL). The output of the report resort is input into TID320 for printing.
04 – 80	77	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 MICM Record 3500.
0002	READ failed on MICM Record 2001.
0003	READ failed on MICM Record 1001.
0004	CLOSE failed on MIMAST.

TIR080 – Customer Deletion

Purpose This program lists all unused customer records and optionally flags them for deletion. A customer record is considered unused if there are no accounts tied to the customer number. A control card determines whether to list the customers to be deleted, or flag the customer records to be deleted during the next processing run.

API MICM Records

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

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record

Files

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

Reports 08-713 – Customer Record Deletion Report

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 06	1	Option flag. Valid entries are: D Flag unused customer records for deletion. E Edit file only. Print a list of unused customers for review.

Columns	Size	Description
07 – 80	74	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	System number on the control card is invalid.
0003	Institution number on the control card is invalid.
0004	Option flag on the control card is invalid.
0005	READ NEXT failed on CST.
0006	READ failed on ACN.
0007	REWRITE failed on CST.
0008	READ failed on BNK.
0009	CLOSE failed on MIMAST.
0010	CLOSE failed on BNK.
0011	CLOSE failed on CST.
0012	CLOSE failed on ACN.

TIR100 – Master Mass Maintenance

Purpose This program edits and sorts the Mass Maintenance Card File. The mass changes are made to the Master File within an institution, branch, type, officer, class, employee, and dormant accounts, by entering only one card for each field that needs to be changed. A maximum of 100 master maintenance field changes can be made at one time. Input to this program is a card image of Form 81. (See the Application Forms chapter of *Procedures Guide 1* for details.)

API MICM Records

Record	Ext Record	Name	Description
Code			
0211	M11	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
1006	M79	MI1006-RECORD	Error Message Information Record
2001	M01 (MI)	MI2001-RECORD	Branch Information Record
2005	M05	MI2005-RECORD	Cycles Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3501	M01 (TI)	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 Records
3507	M07	MI3507-RECORD	Time Investment Service Charge Parameters Record

API Application
Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports

08-700 – Master Mass Maintenance

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	Abort occurred during a call to another program, SRA060.
0002	Error occurred during the sort.
0003	OPEN failed on MST.
0004	READ failed on BNK, Institution 000.
0005	Too many maintenance cards; maximum is 100.
0006	Error occurred loading Regional Pricing Records.
0007	READ failed on MICM Record 0211, Institution 000.
0008	READ failed on MICM Record 3500.
0009	START failed on MICM Record 0231.
0010	Table File exceeded, MICM Record 0231, Officer.
0011	START failed on MICM Record 0231.
0012	Table File exceeded, MICM Record 0231, Class.
0013	START failed on MICM Record 0231.

Code	Description
0014	Table File exceeded, MICM Record 0231, Class.
0015	START failed on MICM Record 0231.
0016	READ NEXT failed on MICM Record 0231.
0017	MICM Record 0231, Class entry spaces.
0018	MICM Record 0231, entry error.
0019	MICM Record 0231, Class entry spaces.
0020	START failed on MICM Record 2001.
0021	READ NEXT failed on MICM Record 2001.
0022	Error occurred loading Regional Pricing Records.
0023	Table size for cards exceeded, maximum is 100.
0024-0025	Error occurred loading Regional Pricing Records.
0026	READ failed on BNK.
0027	READ NEXT failed on MST.
0028	Error occurred loading Regional Pricing Records.
0029	REWRITE failed on MST.
0030	CLOSE failed on BNK.
0031	CLOSE failed on MST.
0032	CLOSE failed on MIMAST.
0033	OPEN failed on BNK.
0034	Global CLOSE failed.
0035	START BROWSE failed on MST.
0036	START failed on MICM Record 0231.
0037	Table File exceeded, MICM Record 0231, Officer 2.
0038	START failed on MICM Record 0231.
0039	Table File exceeded, MICM Record 0231, Cost center.
0040	START failed on MICM Record 0231.
0041	Table File exceeded, MICM Record 0231, Map code.

TIR120 – Customer Mass Maintenance

Purpose

This program allows changes to one or several fields for customers in the Customer Record within an institution, branch, officer, and employee accounts, by entering only one card for each field to be changed. A maximum of 100 customer maintenance field changes can be made at one time. Input to this program is a card image of Form 80. (See the Application Forms chapter of *Procedures Guide 1* for details.)

API MICM Records

Record	Ext Record Code	Name	Description
0211	M11	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
1006	M79	MI1006-RECORD	Error Message Information Record
2001	M01	MI2001-RECORD	Branch Information Record
2005	M05	MI2005-RECORD	Cycles Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3502	M02	MI3502-RECORD	Time Investment Type Processing Parameters Record
3506	M06	MI3506-RECORD	Time Investment Title Records
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

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

Reports 08-701 – Customer Mass Maintenance

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 CST.
0002	READ failed on BNK, Institution 000.
0003	Too many maintenance cards; maximum is 100.
0004	READ failed on MICM Record 2001.
0005	READ failed on MICM Record 3500.
0006	START failed on MICM Record 0231.
0007	Table File exceeded, MICM Record 0231, Officer.
0008	Table size for cards exceeded. Maximum is 100.
0009	READ failed on BNK.
0010	READ NEXT failed on CST.
0011	REWRITE failed on CST.
0012	CLOSE failed on BNK.
0013	CLOSE failed on CST.
0014	CLOSE failed on MIMAST.
0015	OPEN failed on BNK.
0016	GLOBAL CLOSE failed.
0017	START BROWSE failed on CST.

TIR140 – Employer Profile

Purpose This program produces a report that shows employer information followed by some basic information for all accounts linked to the employer.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
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
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports 08-714 – Employer Profile

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 TIR140 .
09 – 11	3	Institution number.
12 – 21	10	Employer number.
22 – 23	2	Form code.
24 – 24	1	Print/Fiche code. Valid entries are: <ul style="list-style-type: none"> 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
25 – 80	56	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	READ failed on EMN.
0005	READ failed on MST.
0006	READ failed on MICM Record 0211, Institution 000.
0007	CLOSE failed on BNK.
0008	CLOSE failed on MIMAST.
0009	CLOSE failed on MST.
0010	CLOSE failed on EMP.
0011	CLOSE failed on EMN.

TIR160 – Record Dump

Purpose This program displays all information for an institution, customer, account, or employer. Depending on the record selected, all related records are displayed.

API MICM Records

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

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
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

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

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

Reports 08-702 – Customer/Account Record Dump

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Record Code. Valid entries are: B Display Institution Record. C Display Customer Record. E Display Employer Record. M Display Master Record.
04 – 06	3	Institution number.
07 – 16	10	Account number, customer number, or employer number. Leave blank if Record Code is 'B'.
17 – 18	2	Number of lines per page, if different from stock paper.
19 – 80	62	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	READ NEXT failed on TRN.
0003	READ NEXT failed on INT.
0004	READ NEXT failed on RAT.
0005	READ NEXT failed on ASG.
0006	READ NEXT failed on AVL.
0007	READ NEXT failed on XRL.
0008	READ NEXT failed on ACN.
0009	READ NEXT failed on IRA.
0010	READ NEXT failed on PAY.
0011	READ NEXT failed on EMN.

Code	Description
0012	CLOSE failed on MIMAST.

TIR180 – Employer Purge

Purpose This program reads all Employer Records that are no longer tied to an account. A control card option determines whether to list the Employer Number on report 08-715 for review purposes or flag the record for deletion in the next run of TID200.

API MICM Records

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

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
EMN	TIEMN-RECORD	Employer Account Numbers Record
EMP	TIEMP-RECORD	Employer Record

Files

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

Reports 08-715 – Employer Record Purge Report

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08.
03 – 05	3	Institution number.
06 – 06	1	Option flag. Valid entries are: D Flag employers for deletion. E Edit Employer Record only. Print list of unused employers for review.

Columns	Size	Description
07 - 80	74	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 EMP.
0002	System number on the control card is invalid.
0003	Institution number on the control card is invalid.
0004	Option flag on the control card is invalid.
0005	READ NEXT failed on EMP.
0006	READ NEXT failed on EMN.
0007	REWRITE failed on EMP.
0008	READ failed on BNK.
0009	CLOSE failed on MIMAST.
0010	CLOSE failed on BNK.
0011	CLOSE failed on EMP.
0012	CLOSE failed on EMN.

TIR190 – Branch/Cost Center Migration

Purpose This program changes an institution to branch or cost center reporting for the Activity Recap and the General Ledger interface.

Note: Flag 4 on MICM Record 0301 is verified before updating the accounts.

API MICM Records

Record	Ext Record	Name	Description
Code			
0301	M63	MI0301-RECORD	Application System Option Flags Record
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

Files

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

Reports 08-717 – Branch to Cost Center/Cost Center to Branch Exceptions

Control Card The control card is required.

Columns	Size	Description
01 – 04	4	Institution number.
05 – 05	1	Migration option. Valid entries are: B Migrate to branch reporting. C Migrate to cost center reporting.
06 – 80	75	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	Institution number on the control card is invalid.
0002	Migration option on the control card is invalid.
0003	OPEN failed on MST.
0004-0005	READ failed on BNK.
0006	READ failed on MICM Record 0301.
0007	READ NEXT failed on MST.
0008-0009	CLOSE failed on MST.
0010	CLOSE failed on BNK.

TIR240 – Audit Confirmations

Purpose This program uses the Institution Control Record, Account Master Record, and MICM as input. In addition, the program uses control cards to select institutions, and a range of branches, types, or account numbers to which notices are to be sent. The output can be:

- notices only
- notices and a listing of the notices sent
- listing only.

API MICM Records

Record Code	Ext Record	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
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
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIWORK	Work File	I/O	Disk	Sequential	124
SORTWK1	Sort Work File	O/I	Disk	Sequential	59
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-705 – Audit Confirmation
08-706 – Audit Confirmation List

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 10	5	Starting branch number.
11 – 15	5	Ending branch number.
16 – 18	3	Starting type.
19 – 21	3	Ending type.
22 – 31	10	Starting account number.
32 – 41	10	Ending account number.
42 – 47	6	Selected amount.
48 – 48	1	Positive/Negative message selection code. Valid entries are: N Negative message. P Positive message.
49 – 52	4	Nth factor for Audit Confirmation Notices.
53 – 53	1	Output selection code. Valid entries are: B Print notices and listing. L Print listing only. N Print notices only.
54 – 55	2	Audit Confirmation Notice form code.
56 – 56	1	Audit Confirmation Notice print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
57 – 58	2	Audit Confirmation List form code.
59 – 59	1	Audit Confirmation List print/fiche selection. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
60 – 80	21	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	Institution number on the control card is invalid.
0004	READ NEXT failed on MST.
0005	WRITE failed. File space exceeded on SORTWK1.
0006	READ failed on BNK.
0007	READ failed on MICM Record 1001.
0008	READ failed on MICM Record 3500.
0009	READ failed on MICM Record 0211, Institution 000.
0010	CLOSE failed on BNK.
0011	CLOSE failed on MST.
0012	CLOSE failed on MIMAST.

TIR260 – Stand-alone Customer Profile

Purpose This program produces report 08-707 (Customer Profile), which has the same format as 08-011 (Customer Profile).

API MICM Records

Record	Ext Record Code	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports

08-707 – Customer Profile

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 TIR260 .
09 – 11	3	Institution number.
12 – 21	10	Customer number.
22 – 23	2	Form code.
24 – 24	1	Print/Fiche code. Valid entries are: <ul style="list-style-type: none"> 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
25 – 80	56	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	READ failed on ACN.
0005	READ failed on MST.
0006	READ failed on MICM Record 0211, Institution 000.
0007	CLOSE failed on BNK.
0008	CLOSE failed on MIMAST.
0009	CLOSE failed on MST.
0010	CLOSE failed on CST.
0011	CLOSE failed on ACN.

TIR300 – Social Security Exceptions

Purpose This program reads the Account Master Record and Customer Record and checks accounts for missing names, addresses, or social security numbers.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3502	M02	MI3502-RECORD	Time Investment Type Processing Parameters Record
3506	M06	MI3506-RECORD	Time Investment Title Records

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports 08-708 – Social Security Exception Report

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 – 07	2	Form code.
08 – 08	1	Print/Fiche option. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
09 – 80	72	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	Institution number on the control card is invalid.
0004	Print/Fiche option on the control card is invalid.
0005	READ NEXT failed on BNK.
0006	READ failed on BNK.
0007	START failed on MST.
0008	READ NEXT failed on MST.
0009	READ failed on CST.
0010	READ failed on MICM Record 0211, Institution 000.
0011	READ failed on MICM Record 1001.
0012	READ failed on MICM Record 3500.
0013	CLOSE failed on BNK.
0014	CLOSE failed on MIMAST.
0015	CLOSE failed on MST.
0016	CLOSE failed on CST.

TIR320 – Total Record Maintenance

Purpose	This program allows changes to the Total Records. Input to this program is the card image format of Form 70. (See the Application Forms chapter of <i>Procedures Guide 1</i> for details.)					
	Note: This program should be run infrequently since totals are accumulated daily and monthly totals are reset every month.					
API MICM Records						
	Record	Ext Record Code	Name	Description		
	1001	M74	MI1001-RECORD	Institution Information Record		
	2001	M01	MI2001-RECORD	Branch 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			
	TA1	TITA1-RECORD	Total Record – Amount			
	TA2	TITA2-RECORD	Total Record – Number			
Files						
	File Name	Description	Opened	Media	Access Mode	Record Length
	TICARD	Control Card	Input	Card	Sequential	80
	MIMAST	MICM Master File	Input	Disk	Random	Variable
	SORTWK1	Sort Work File	O/I	Disk	Sequential	80
	PRINTR	Print File	Output	Printer	Sequential	133
Reports	08-709 – Total Record Maintenance					
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	Abort occurred during a call to another program, SRA060.
0002	Error occurred during the sort.
0003	OPEN failed on TA1.
0004	OPEN failed on TA2.
0005	Error occurred loading Regional Pricing Records.
0006	REWRITE failed on TA1.
0007	REWRITE failed on TA2.
0008	CLOSE failed on TA1.
0009	CLOSE failed on TA2.
0010	CLOSE failed on BNK.
0011	CLOSE failed on MIMAST.
0012	READ failed on MICM Record 3500.
0013	START failed on MICM Record 2001.
0014	READ NEXT failed on MICM Record 2001.
0015	Error occurred loading Regional Pricing Record.

TIR340 – Schedule E Report

Purpose	This program sequentially reads the Account Master Record. Totals for the Schedule E categories are accumulated based on codes in the accounts. A control card is used to select the institutions for which this program is to be run.																																		
API MICM Records	<table border="1"> <thead> <tr> <th>Record</th><th>Ext Record</th><th>Name</th><th colspan="3">Description</th></tr> <tr> <th>Code</th><th></th><th></th><th colspan="3"></th></tr> </thead> <tbody> <tr> <td>1001</td><td>M74</td><td>MI1001-RECORD</td><td colspan="3" rowspan="2">Institution Information Record</td></tr> </tbody> </table>					Record	Ext Record	Name	Description			Code						1001	M74	MI1001-RECORD	Institution Information Record														
Record	Ext Record	Name	Description																																
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1001	M74	MI1001-RECORD	Institution Information Record																																
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PRINTR	Print File	Output	Printer	Sequential	133																														
Reports	08-711 – Call Report – Schedule E																																		
Control Card	The control card is required.																																		
	<table border="1"> <thead> <tr> <th>Columns</th><th>Size</th><th colspan="4">Description</th></tr> </thead> <tbody> <tr> <td>01 – 02</td><td>2</td><td colspan="4">System number. Valid entry is 08.</td></tr> <tr> <td>03 – 08</td><td>6</td><td colspan="4">Program identification code. Valid entry is TIR340.</td></tr> <tr> <td>09 – 11</td><td>3</td><td colspan="4">Institution number.</td></tr> <tr> <td>12 – 13</td><td>2</td><td colspan="4">Form code.</td></tr> </tbody> </table>					Columns	Size	Description				01 – 02	2	System number. Valid entry is 08 .				03 – 08	6	Program identification code. Valid entry is TIR340 .				09 – 11	3	Institution number.				12 – 13	2	Form code.			
Columns	Size	Description																																	
01 – 02	2	System number. Valid entry is 08 .																																	
03 – 08	6	Program identification code. Valid entry is TIR340 .																																	
09 – 11	3	Institution number.																																	
12 – 13	2	Form code.																																	

Columns	Size	Description
14 – 14	1	Print/Fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
14 – 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	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	Institution number on the control card is invalid.
0005	Print/Fiche code on the control card is invalid.
0007	READ NEXT failed on MST.
0008	READ failed on MICM Record 1001.
0009	CLOSE failed on BNK.
0010	CLOSE failed on MIMAST.
0011	CLOSE failed on MST.

TIR360 – Pointer/Account Numbers Record Verification

Purpose This program produces a list of discrepancies between the Customer Record pointers and the Account Numbers Record.

The program makes separate passes of Customer Records and Account Master Records. The Customer Records are read sequentially, along with the Account Numbers Record to verify that the accounts tied to the Customer Record are valid. The first 08-712 (Record Pointers Discrepancy List) is produced, listing any discrepancies.

After the Customer Records are processed, the Account Master Records are read sequentially, verifying that the account is tied to the correct Customer Record. A second 08-712 (Record Pointers Discrepancy List) is produced, listing any discrepancies.

If any discrepancies are listed on either report, run program TIR380 (Rebuild Account Numbers Record), to correct the records. Then run program TIR360 again to verify that all discrepancies have been corrected.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
CST	TICST-RECORD	Customer Record
MST	TIMST-RECORD	Account Master Record

Files

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

Reports 08-712 – Record Pointers Discrepancy List

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 CST.
0002	CLOSE failed on CST.
0003	READ NEXT failed on ACN.
0004	CLOSE failed on MST.
0005	CLOSE failed on CST.
0006	CLOSE failed on ACN.
0007-0008	READ NEXT failed on ACN.

TIR380 – Rebuild Account Numbers Record

Purpose This program rebuilds the Account Numbers Record. The Account Master Record is read sequentially, creating sort records containing institution number, customer number, and account number. The records are sorted by institution and customer number. All account numbers records are deleted, and the pointer in the Customer Record (TICST-PNTACCT) is cleared. The Sort Work File is then read, recreating the Account Numbers Record and setting TICST-PNTACCT as required.

API MICM Records None

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
CST	TICST-RECORD	Customer Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
SORTWK1	Sort Work File	O/I	Disk	Sequential	40

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	OPEN failed on CST.
0004	READ NEXT failed on CST.
0005	REWRITE failed on CST.
0006	READ failed on CST.
0007	REWRITE failed on CST.

Code	Description
0008	CLOSE failed on CST.
0009	OPEN failed on ACN.
0010	READ NEXT failed on ACN.
0011	DELETE failed on ACN.
0012	ADD failed on ACN.
0013	CLOSE failed on ACN.

TIR540 – International Accounts Report

Purpose

This program reads the Account Master Record and creates a report of international account numbers. The control card determines which institutions, applications, types, and map codes to report. The control card also allows the user to assign the report number. Multiple control cards can be entered for each run. The control cards must be entered in sets, each set containing two control cards.

Note: A listing of accounts from foreign countries is produced by matching the map code in the Master Files to the map code in the control cards.

API MICM Records

Record	Ext Record Code	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
1004	M77	MI1004-RECORD	Code Description Record
3506	M06	MI3506-RECORD	Time Investment Title Records

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	n/a
PRNTER	Report File	Output	Printer	Sequential	133

Reports

08-932 – International Accounts Edit Input
08-933 – International Accounts Report

Control Card 1

All control cards are inserted in the job stream after the execute card and before the end-of-data card. The format of the control card is as follows:

Columns	Size	Description
01 – 02	2	Application number. Valid entry is 08.
03 – 05	3	Institution number. Valid entries are 001 – 999.
06 – 06	1	Card code. Valid entry is 1.
07 – 07	1	Print code. Valid entries are: 1 Print short name. 2 Print account full name and address.
08 – 10	3	Not used.
11 – 79	69	Map code. Selects up to 23 map codes to be reported. Each map code is a 3-character alphanumeric field, left justified.
80 – 80	1	Not used.

Control Card 2

All control cards are inserted in the job stream after the execute card and before the end-of-data card. The format of the control card is as follows:

Columns	Size	Description
01 – 02	2	Application number. Valid entry is 08.
03 – 05	3	Institution number. Valid entries are 001 – 999.
06 – 06	1	Card code. Valid entry is 2.
07 – 78	72	Type code. Selects up to 24 types to be reported. Valid entries are 001 – 999, left justified.
79 – 80	2	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 return from SORT.
0002	READ failed on BNK.
0003	More than 200 map codes have been entered for a specific institution and application.
0004	SEQUENTIAL READ failed on MST.
0005	CLOSE failed on MST
0006	READ failed on BNK.

Code	Description
0007	READ failed on MICM Record 1001.
0008	READ failed on MICM Record 0211, Institution 000.
0009	CLOSE failed on BNK.
0010	CLOSE failed on MIMAST.

TIR820 – Online File Recovery

Purpose This program is used to recover records that were updated online. The Log Records are used as input to this program. A control card directs the processing of 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
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record
XRL	TIXRL-RECORD	Statement Copies Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
MICARD	Card File	Input	Card	Sequential	80
MISORT	Sort File	I/O	Disk	Sequential	Variable
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-716 – Online File Recovery

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 01 .
03 – 03	1	Not used.
04 – 11	8	Start date. Format is MMDDYY.
12 – 12	1	Not used.
13 – 18	6	Start time. Format is HHMMSS.
19 – 19	1	Not used.
20 – 27	8	End date. Format is MMDDYY.
28 – 28	1	Not used.
29 – 34	6	End time. Format is HHMMSS.
35 – 36	1	Not used.
36 – 36	1	Print/Fiche code. Valid entries are 1, 2, or 3 .
37 – 37	1	Not used.
38 – 39	2	Form code.
40 – 40	1	Not used.
41 – 41	1	Lines per inch. Valid entries are 6 or 8 .
42 – 42	1	Not used.
43 – 80	38	Files to be recovered. Valid entries are: A ACN. I IRA. B ASG. J MST. C AVL. K PAY. D BNK. L RAT. E CST. M TRN. F EMN. N XRL. G EMP. O TRD. H INT.

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	Error processing LOG.

Code	Description
0002	System number on the control card is invalid.
0003	READ failed on MICARD.
0004	Start date on the control card is invalid.
0005	End date on the control card is invalid.
0006-0007	Start time on the control card is invalid.
0008-0009	End time on the control card is invalid.
0010	Print/Fiche code on the control card is invalid.
0011	Lines per inch on the control card is invalid.
0012	Control card is missing.
0013	OPEN failed on ACN.
0014	OPEN failed on ASG.
0015	OPEN failed on AVL.
0016	OPEN failed on BNK.
0017	OPEN failed on CST.
0018	OPEN failed on EMN.
0019	OPEN failed on EMP.
0020	OPEN failed on INT.
0021	OPEN failed on IRA.
0022	OPEN failed on MST.
0023	OPEN failed on PAY.
0024	OPEN failed on RAT.
0025	OPEN failed on TRN.
0026	OPEN failed on TRD.
0027	OPEN failed on XRL.
0028	Record code is invalid.
0029	READ failed on ACN.
0030	ADD/REWRITE/DELETE failed on ACN.
0031	READ failed on ASG.
0032	ADD/REWRITE/DELETE failed on ASG.
0033	READ failed on AVL.
0034	ADD/REWRITE/DELETE failed on AVL.
0035	READ failed on BNK.

Code	Description
0036	ADD/REWRITE/DELETE failed on BNK.
0037	READ failed on CST.
0038	ADD/REWRITE/DELETE failed on CST.
0039	READ failed on EMN.
0040	ADD/REWRITE/DELETE failed on EMN.
0041	READ failed on EMP.
0042	ADD/REWRITE/DELETE failed on EMP.
0043	READ failed on INT.
0044	ADD/REWRITE/DELETE failed on INT.
0045	READ failed on IRA.
0046	ADD/REWRITE/DELETE failed on IRA.
0047	READ failed on MST.
0048	ADD/REWRITE/DELETE failed on MST.
0049	READ failed on PAY.
0050	ADD/REWRITE/DELETE failed on PAY.
0051	READ failed on RAT.
0052	ADD/REWRITE/DELETE failed on RAT.
0053	READ failed on TRN.
0054	ADD/REWRITE/DELETE failed on TRN.
0055	READ failed on TRD.
0056	ADD/REWRITE/DELETE failed on TRD.
0057	READ failed on XRL.
0058	ADD/REWRITE/DELETE failed on XRL.

TIR830 – Checkpoint/Restart Recovery

Purpose This program is used to build the Recovery File, which is used by TID200 to perform restart recovery. This program reads all recoverable non-API records and writes records to the Recovery File, based on the number of records processed as of the last sync point from the Checkpoint File. This program aborts if it cannot load the exact number of records from the Checkpoint File for each recoverable file.

API MICM Records None

API Application Records None

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
TIACTY	Activity File	Input	Disk	Sequential	23
TIDISB	Disbursement File	Input	Disk	Sequential	13
TIEXCP	Exception Interface File	Input	Disk	Sequential	270
TIPROF	Profitability Interface File	Input	Disk	Sequential	150
TIRPTB	B-90 Report File	Input	Disk	Sequential	48
TIRPTU	Reports File	Input	Disk	Sequential	393
TISTMT	Statement File	Input	Disk	Sequential	87
TIWORK	Work File	Input	Disk	Sequential	44
TICKPT	Checkpoint File	O/I	Disk	Random	111
TIRCOV	Recovery File	Output	Disk	Sequential	Variable
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-717 – Checkpoint/Restart Recovery

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Recover Disbursement File. Valid entries are: b Do not recover the file. X Recover the file.
04 – 04	1	Recover Reports File. Valid entries are: b Do not recover the file. X Recover the file.
05 – 05	1	Recover B-90 Report File. Valid entries are: b Do not recover the file. X Recover the file.
06 – 06	1	Recover Work File. Valid entries are: b Do not recover the file. X Recover the file.
07 – 07	1	Recover Profitability File. Valid entries are: b Do not recover the file. X Recover the file.
08 – 08	1	Recover Exception File. Valid entries are: b Do not recover the file. X Recover the file.
09 – 09	1	Recover Statement File. Valid entries are: b Do not recover the file. X Recover the file.
10 – 10	1	Recover Activity File. Valid entries are: b Do not recover the file. X Recover the file.
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	System number on the control card is invalid.
0002	READ failed on TICKPT.
0003	Restart flag on TICKPT indicates previous checkpoint failed.

Code	Description
0004	TIRPTU could not be recovered.
0005	WRITE failed on TIRCOV.
0006	TIRPTB could not be recovered.
0007	WRITE failed on TIRCOV.
0008	TISTMT could not be recovered.
0009	WRITE failed on TIRCOV.
0010	TIACTY could not be recovered.
0011	WRITE failed on TIRCOV.
0012	TIDISB could not be recovered.
0013	WRITE failed on TIRCOV.
0014	TIPROF could not be recovered.
0015	WRITE failed on TIRCOV.
0016	TIEXCP could not be recovered.
0017	WRITE failed on TIRCOV.
0018	TIWORK could not be recovered.
0019	WRITE failed on TIRCOV.

Annual Programs

The following programs produce reports that are generated annually. Annual programs are identified by a 'Y' in the third position of the program name.

TIY020 – 1099 Interest

Purpose This program creates a 1099 interest tape, an interest paid report, and an interest paid form 1099-INT for all accounts that are not IRAs or OID account references. A control card provides the option to create all output items or to select one or two.

API MICM Records

Record	Ext Record	Name	Description
Code			
0211	M11	MI0211-RECORD	Application Information Record
0980	M98	MI0980-RECORD	Customer Name and Address Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record	Name	Description
Code		
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIIRSW	IRS Work File	O/I	Disk	Sequential	750
TIWORK	Work File	O/I	Disk	Sequential	134
TIIRST	IRS Tape File (opt.)	Output	Tape	Sequential	750
PRINTR	Print File (opt.)	Output	Printer	Sequential	133

Reports 08-600 – Interest Paid Report – INT
 08-601 – Interest Paid Form – 1099-INT

Control Card 1
 (Transmitter) The control card is required. Only one allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 01 .
08 – 11	4	Tax year. The year for which payments are being reported.
12 – 12	1	Foreign indicator. Valid entries are: b Not a foreign entity. 1 Foreign entity.
13 – 13	1	Test tape indicator. Valid entries are: b Not a test tape. T Test tape.
14 – 14	1	Prior year data indicator. Valid entries are: b Reporting current tax year. P Reporting prior tax year.
15 – 29	15	Electronic filename. Used only if sending replacement file. Enter the original filename assigned by the IRP-BBS (e.g., 12345p01.DAT).
30 – 31	2	Replacement alpha character. Required for replacement tape only. Enter the alpha/numeric character that appears immediately following the TCC number on the Media Tracking Slip (Form 9267).
32 – 80	49	Not used.

Control Card 2
 (Transmitter) The control card is required. Only one allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 02 .
08 – 42	35	Institution contact email address. Enter the email address of the contact person for this product.

Columns	Size	Description
43 – 48	6	Transmitter's media number. For magnetic media files only. Enter the number used to identify a particular piece of media.
49 – 80	32	Not used.
Control Card 3 (Payer)		The control card is required. Enter one Card 3 for each institution.
Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 07	2	Card number. Valid entry is 03 .
08 – 08	1	File indicator. Indicates the type of files being created. Valid entries are: O Original. R Replacement.
09 – 09	1	Foreign entity indicator. Enter 1 if the payer is a foreign entity and income is paid by the foreign entity to a US resident.
10 – 13	4	Name control. Name code supplied by IRS on the Magnetic Media Reporting (MMR) Package.
14 – 14	1	Tape creation indicator. Valid entries are: N Do not create an IRS 1099 tape. Y Create an IRS 1099 tape.
15 – 15	1	List print indicator. Valid entries are: N Do not print a listing. Y Print a listing of interest reported.
16 – 16	1	List print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
17 – 18	2	List print form code.
19 – 19	1	Form print indicator. Valid entries are: N Do not print form. Y Print form for interest reported.
20 – 20	1	Form print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.

Columns	Size	Description
21 – 22	2	Form print form code.
23 – 80	58	Not used.

Note: If a report and a form are printed during the same run, different print form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code), separate printers must be used for each report.

If you want notices, you must set the list print indicator on the control card to 'Y'.

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.
0003	No control cards entered.
0004	READ failed on MICM Record 1001.
0005	READ failed on MICM Record 3500.
0007	READ NEXT failed on MST.
0008	Error occurred getting name and address.
0009	READ failed on MICM Record 0211.
0010	File space exceeded on TIWORK.
0011	CLOSE failed on BNK.
0012	CLOSE failed on MST.
0013	CLOSE failed on MIMAST.
0014	START failed on MICM Record 2001.
0015	READ NEXT failed on MICM Record 2001.
0016	READ failed on MICM Record 0980-0, Institution 000.
0017	READ failed on MICM Record 0980-1, Institution 000.
0018	Control card 1 is missing or invalid.
0019	READ failed on MICM Record 0980-0.
0020	READ failed on MICM Record 0980-1.

TIY030 – 1042S Foreign Person's U.S. Source Income Subject to Withholding

Purpose This program creates a 1042S magnetic tape, an interest paid report, and a form 1042S. A control card provides the option to create all output items or to select one or two.

API MICM Records

Record Code	Ext Record	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
0234	M58	MI0234-RECORD	Federal Withholding Information Record
0980	M98	MI0980-RECORD	Customer Name and Address Information Record
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
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIWORK	Work File	O/I	Disk	Sequential	134
TINRAT	1042S Tape File	Output	Tape	Sequential	500
PRINTR	Print File	Output	Disk	Sequential	133

Reports

08-618 – Foreign Income Subject to Withholding
08-619 – IRA 1042S Federal Withholding for Foreign Records

Control Card 1
(Transmitter)

The control card is required. Only one allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Card number. Valid entry is 1 .
04 – 07	4	Tax year. The year for which payments are being reported.
08 – 08	1	Test tape indicator. Valid entries are: b Not a test tape. T Test tape.
09 – 48	40	Contact name. Required by the IRS in case there is a problem with the tape.
49 – 68	20	Contact telephone. Required by the IRS in case there is a problem with the tape.
69 – 80	12	Not used.

Control Card 2
(Payer)

The control card is required for each institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Card number. Valid entry is 2 .
04 – 06	3	Institution number. Valid entries are 001 – 999 .
07 – 07	1	Tape creation indicator. Valid entries are: N Do not create an IRS 1099 tape. Y Create an IRS 1099 tape.
08 – 08	1	List print indicator. Valid entries are: N Do not print a listing. Y Print a listing of interest reported.
09 – 09	1	List print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
10 – 11	2	List print form code.
12 – 12	1	Form print indicator. Valid entries are: N Do not print form. Y Print form for interest reported.

Columns	Size	Description
13 – 13	1	Form print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
14 – 15	2	Form print form code.
16 – 80	65	Not used.

Note: If a report and a form are printed during the same run, different print form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code), separate printers must be used for each report.

If you want notices, you must set the list print indicator on the control card to 'Y'.

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 or invalid.
0003	READ failed on MICM Record 1001.
0004	READ failed on MICM Record 0234.
0005	READ failed on MICM Record 3500.
0006	READ failed on MST.
0007-0008	Error occurred getting name/address.
0009	READ failed on MICM Record 0211, Institution 000.
0010	WRITE failed. File space exceeded in TIWORK.
0011	CLOSE failed on BNK.
0012	CLOSE failed on MST.
0013	CLOSE failed on MIMAST.
0014	READ failed on MICM Record 0980-0.
0015	READ failed on MICM Record 0980-1.
0016	READ failed on MICM Record 0980-0, Institution 000.
0017	READ failed on MICM Record 0980-1, Institution 000.
0018	Non-resident rate error on MICM Record 0234.

TIY040 – 1099 OID Interest

Purpose This program creates a 1099 interest tape, an interest paid report, and interest paid forms for all accounts that are Original Issue Discounts. A control card provides the option to create all output items or to select one or two.

API MICM Records

Record	Ext Record	Name	Description
	Code		
0211	M11	MI0211-RECORD	Application Information Record
0234	M58	MI0234-RECORD	Federal Withholding Information Record
0980	M98	MI0980-RECORD	Customer Name and Address Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record	Name	Description
	Code	
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record
TRN	TITRN-RECORD	Transaction History Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIIRSW	IRS Work File	O/I	Disk	Sequential	750
TIWORK	Work File	O/I	Disk	Sequential	134
TIIRST	IRS Tape File (opt.)	Output	Tape	Sequential	750
PRINTR	Print File (opt.)	Output	Printer	Sequential	133

Reports

08-602 – Interest Paid Report – OID
08-603 – Interest Paid Form – 1099-OID

Control Card 1
(Transmitter)

The control card is required. Only one allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 01 .
08 – 11	4	Tax year. The year for which payments are being reported.
12 – 12	1	Foreign indicator. Valid entries are: <ul style="list-style-type: none"> b Not a foreign entity. 1 Foreign entity.
13 – 13	1	Test tape indicator. Valid entries are: <ul style="list-style-type: none"> b Not a test tape. T Test tape.
14 – 14	1	Prior year data indicator. Valid entries are: <ul style="list-style-type: none"> b Reporting current tax year. P Reporting prior tax year.
15 – 29	15	Electronic filename. Used only if sending replacement file. Enter the original filename assigned by the IRP-BBS (e.g., 12345p01.DAT).
30 – 31	2	Replacement alpha character. Required for replacement tape only. Enter the alpha/numeric character that appears immediately following the TCC number on the Media Tracking Slip (Form 9267).
32 – 80	49	Not used.

Control Card 2
(Transmitter)

The control card is optional. Only 1 allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 02 .
08 – 42	35	Institution contact email address. Enter the email address of the contact person for this product.
43 – 48	6	Transmitter's media number. For magnetic media files only. Enter the number used to identify a particular piece of media.

Columns	Size	Description
49 – 80	32	Not used.

Control Card 3
(Payer)

The control card is required. Enter one Card 3 for each institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entries are 000 – 999 .
06 – 07	2	Card number. Valid entry is 03 .
08 – 08	1	File indicator. Indicates the type of files being created. Valid entries are: O Original. R Replacement.
09 – 09	1	Foreign entity indicator. Enter 1 if the payer is a foreign entity and income is paid by the foreign entity to a US resident.
10 – 13	4	Name control. Name code supplied by IRS on the Magnetic Media Reporting (MMR) Package.
14 – 14	1	Tape creation indicator. Valid entries are: N Do not create and IRS 1099 tape. Y Create an IRS 1099 tape.
15 – 15	1	List print indicator. Valid entries are: N Do not print a listing. Y Print a listing of interest reported.
16 – 16	1	List print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
17 – 18	2	List print form code.
19 – 19	1	Form print indicator. Valid entries are: N Do not print form. Y Print form for interest reported.
20 – 20	1	Form print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
21 – 22	2	Form print form code.

Columns	Size	Description
23 – 80	58	Not used.

Note: If a report and a form are printed during the same run, different print form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code), separate printers must be used for each report.

If you want notices, you must set the list print indicator on the control card to 'Y'.

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.
0003	No control cards entered.
0004	READ failed on MICM Record 1001.
0005	READ failed on MICM Record 3500.
0007	READ NEXT failed on MST.
0008	Error occurred getting name and address.
0009	READ failed on MICM Record 0211.
0010	READ NEXT failed on TRN.
0011	File space exceeded on TIWORK.
0012	CLOSE failed on BNK.
0013	CLOSE failed on MST.
0014	CLOSE failed on MIMAST.
0015	CLOSE failed on TRN.
0016	START failed on MICM Record 2001.
0017	READ NEXT failed on MICM Record 2001.
0018	Control card 1 is missing or invalid.
0019	READ failed on MICM Record 0980-0.
0020	READ failed on MICM Record 0980-1.
0021	READ failed on MICM Record 0980-0, Institution 000.
0022	READ failed on MICM Record 0980-1, Institution 000.

TIY050 – Create Year-end Work File

Purpose This program produces a file for year-end processing of the 1099-R, W-2P 5498 form, and the IRA Statement of Account. The program accumulates totals by account number and customer number for IRA reporting. The output file, TIYEAR, is used by TIY060 (1099-R) and TIY120 (IRA Statement of Account/5498 Notices).

API MICM Records

Record Code	Ext Record	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record
TRD	TITRD-RECORD	Transaction Description Record
TRN	TITRN-RECORD	Transaction History Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	O/I	Disk	Sequential	1092
TIYEAR	Year-end File	Output	Disk	Sequential	1092
PRINTR	Print File	Output	Printer	Sequential	133

Reports 08-617 – Retirement Reporting Information for 19nn

Control Card The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification. Valid entry is TIY050 .
09 – 12	4	Reporting year.
13-13	1	Include external fair market value funds. Valid entries are: b or N Do not include fair market value funds. Y Include fair market value funds. The fair market value is written to the Year-end File and subsequently included in the calculation of the customer's fair market value for the tax-reporting year.
14-80	67	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	System number on the control card is invalid.
0003	Program identification on the control card is invalid.
0004	Reporting year on the control card is invalid.
0005	READ failed on BNK, Institution 000.
0006	OPEN failed on CST.
0007	READ NEXT failed on CST.
0008-0009	READ NEXT failed on ACN.
0010	READ failed on MST.
0011-0012	READ failed on CST.
0013	READ NEXT failed on TRN.
0014	Description table for death distributions exceeded 10.
0015	READ failed on MICM Record 1001.
0016	READ failed on MICM Record 3500.
0017	READ failed on MICM Record 0211, Institution 000.
0018	CLOSE failed on BNK.

Code	Description
0019	CLOSE failed on MST.
0020	CLOSE failed on CST.
0021	CLOSE failed on TRN.
0022	CLOSE failed on MIMAST.
0023	READ failed on TRD.
0024-0025	READ failed on IRA.
0026	CLOSE failed on IRA.

TIY060 – 1099 R**Purpose**

This program creates a 1099 tape of distributions, a distributions paid report, and Form 1099-R for distributions paid for all IRAs. A control card provides the option to create all output items or to select one or two.

API MICM Records

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

API Application Records

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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIYEAR	Year-end File	Input	Disk	Sequential	1092
TIIRSW	IRS Work File	O/I	Disk	Sequential	750
TIWORK	Work File	O/I	Disk	Sequential	134
TIIRST	IRS Tape File (opt.)	Output	Tape	Sequential	750
PRINTR	Print File (opt.)	Output	Printer	Sequential	133

Reports

08-604 – Distributions Paid Report – 1099-R
08-605 – Distributions Paid Form – 1099-R

**Control Card 1
(Transmitter)**

The control card is required and only 1 is allowed.

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

Columns	Size	Description
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 01 .
08 – 11	4	Tax year. The year for which payments are being reported.
12 – 12	1	Foreign indicator. Valid entries are: b Not a foreign entity. 1 Foreign entity.
13 – 13	1	Test tape indicator. Valid entries are: b Not a test tape. T Test tape.
14 – 14	1	Prior year data indicator. Valid entries are: b Reporting current tax year. P Reporting prior tax year.
15 – 29	15	Electronic filename. Used only if sending replacement file. Enter the original filename assigned by the IRP-BBS (e.g., 12345p01.DAT).
30 – 31	2	Replacement alpha character. Required for replacement tape only. Enter the alpha/numeric character that appears immediately following the TCC number on the Media Tracking Slip (Form 9267).
32 – 80	49	Not used.

Control Card 2
(Transmitter)

The control card is optional and only 1 is allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 02 .
08 – 42	35	Institution contact email address. Enter the email address of the contact person for this product.
43 – 48	6	Transmitter's media number. For magnetic media files only. Enter the number used to identify a particular piece of media.
49 – 80	32	Not used.

Control Card 3
(Payer)

One control card is required for each institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 03 .
08 – 08	1	File indicator. Indicates the type of files being created. Valid entries are: O Original. R Replacement.
09 – 09	1	Foreign entity indicator. Enter 1 if the payer is a foreign entity and income is paid by the foreign entity to a US resident.
10 – 13	4	Name control. Name code supplied by IRS on the Magnetic Media Reporting (MMR) Package.
14 – 14	1	Tape creation indicator. Valid entries are: N Do not create an IRS 1099 tape. Y Create an IRS 1099 tape.
15 – 15	1	List print indicator. Valid entries are: N Do not print a listing. Y Print a listing of interest reported.
16 – 16	1	List print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
17 – 18	2	List print form code.
19 – 19	1	Form print indicator. Valid entries are: N Do not print form. Y Print form for interest reported.
20 – 20	1	Form print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
21 – 22	2	Form print form code.
23 – 80	58	Not used.

Note: If a report and a form are printed during the same run, different print form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code), separate printers must be used for each report.

If you want notices, you must set the list print indicator on the control card to 'Y'.

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 1 is missing or invalid.
0003	READ failed on MICM Record 0980-0, Institution 000.
0004	READ failed on MICM Record 0980-1, Institution 000.
0005	No control cards entered.
0006	READ failed on MICM Record 1001.
0007	READ failed on MICM Record 0980-0.
0008	READ failed on MICM Record 0980-1.
0009	READ failed on MICM Record 3500.
0010	READ failed on CST.
0011	WRITE failed. File space exceeded on TIWORK.
0012	START failed on MICM Record 2001.
0013	READ NEXT failed on MICM Record 2001.
0014	CLOSE failed on MIMAST.
0015	CLOSE failed on BNK.

TIY070 – W-4P Notice of Withholding

Purpose This program produces W-4P Notices of Withholding and/or a report for IRA customers that receive disbursements on a quarterly or less basis. It notifies the customers they can revoke or change their withholding election.

Note: Notices (08-094) for all other customers receiving disbursements are produced by TIY370 (W-4P Notice of Withholding).

A control card is used to select which institutions to process and to determine if notices, reports, or both should be produced. Institutions can be selected individually or 'ALL' can be used to process all institutions at the same time. If 'ALL' is selected, all subsequent control cards are bypassed.

API MICM Records

Record Code	Ext Record	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
ACN	TIACN-RECORD	Account Numbers Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIWORK	Work File	I/O	Disk	Sequential	134
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-614 – W-4P Withholding Notice

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program ID. Valid entry is TIY070 .
09 – 11	3	Institution number or ALL to process all institutions.
12 – 12	1	Notice code. Valid entries are: N Do not produce notices. Y Produce notices.
13 – 14	2	Notice form.
15 – 15	1	Print/Fiche notice code. Valid entries are: 1 Print notices. 2 Print and fiche notices. 3 Fiche notices.
16 – 16	1	Report code. Valid entries are: N Do not produce report. Y Produce report.
17 – 18	2	Report form.
19 – 19	1	Print/Fiche report code. Valid entries are: 1 Print report. 2 Print and fiche report. 3 Fiche report.
20 – 80	61	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 ID on the control card is invalid.
0004	Institution number on the control card is invalid.
0005	Notice code on the control card is invalid.
0006	Print/Fiche notice code on the control card is invalid.
0007	Report code on the control card is invalid.
0008	Print/Fiche report code on the control card is invalid.

Code	Description
0009	Control card not entered.
0010	READ failed on MICM Record 1001.
0011	READ failed on MICM Record 1001, Institution 000.
0012	READ NEXT failed on BNK.
0013	READ failed on MICM Record 1001.
0014	READ NEXT failed on CST.
0015	READ failed on ACN.
0016	READ failed on MST.
0017-0025	WRITE failed on TIWORK.
0026	READ failed on MICM Record 3500.

TIY080 – Missing Date of Birth

Purpose This program produces a list of IRA or Keogh accounts in which the Customer Record is missing, or the Customer Record is missing a date of birth, name, address, life expectancy, or social security number.

API MICM Records

Record Code	Ext Record	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
MST	TIMST-RECORD	Account Master Record

Files

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

Reports 08-606 – Missing Date of Birth Report

Control Card The control card is optional.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 08	6	Program identification number. Valid entry is TIY080 .
09 – 11	3	Institution number. ALL can be used to select all institutions on file

Columns	Size	Description
12 – 13	2	Report form code.
14 – 14	1	Report print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
14 – 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	READ failed on BNK, Institution 000.
0002	READ failed on BNK.
0003	READ NEXT failed on BNK, Institution 000.
0004	READ NEXT failed on BNK.
0006	READ NEXT failed on MST.
0007	READ failed on BNK, Institution 000.
0008	READ failed on CST.
0009	READ failed on BNK.
0010	READ failed on MICM Record 1001.
0011	READ failed on MICM Record 3500.
0012	CLOSE failed on BNK.
0013	CLOSE failed on MST.
0014	CLOSE failed on CST.
0015	CLOSE failed on MIMAST.

TIY090 – 1099 Q

Purpose This program creates a 1099 Q tape of distributions, a distributions paid report, and a Form 1099Q for distributions paid for all Coverdell Education Savings Accounts. Through the control card, you have the option to create all three input items or only one or two.

API MICM Records

Record Code	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

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
TIYEAR	Year-end File	Input	Disk	Sequential	1092
TIIRSW	IRS Work File	O/I	Disk	Sequential	750
TIWORK	Work File	O/I	Disk	Sequential	134
TIIRST	IRS Tape File (opt.)	Output	Tape	Sequential	750
PRINTR	Print File (opt.)	Output	Printer	Sequential	133

Reports

08-630 – Distributions Paid Report – 1099Q
08-631 – Distributions Paid Form – 1099Q

Control Card 1
(Transmitter)

The control card is required and only 1 is allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 01 .
08 – 11	4	Tax year. Year for which payments are being reported.
12 – 12	1	Foreign indicator. Valid entries are: b Not a foreign entity. 1 Foreign entity.
13 – 13	1	Test tape indicator. Valid entries are: b Not a test tape. T Test tape.
14 – 14	1	Prior year data indicator. Valid entries are: b Reporting current tax year. P Reporting prior tax year.
15 – 29	15	Electronic filename. Used only if sending replacement file. Enter the original filename assigned by the IRP-BBS (e.g., 12345p01.DAT).
30 – 31	2	Replacement alpha character. Required for replacement tape only. Enter the alpha/numeric character that appears immediately following the TCC number on the Media Tracking Slip (Form 9267).
32 – 80	49	Not used.

Control Card 2
(Transmitter)

The control card is optional and only 1 is allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 02 .
08 – 42	35	Institution contact email address. Enter the email address of the contact person for this product.
43 – 48	6	Transmitter's media number. For magnetic media files only. Enter the number used to identify a particular piece of media.

Columns	Size	Description
49 – 80	32	Not used.
Control Card 3 (Payer)		One control card is required for each institution.
Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number. Valid entry is 000 .
06 – 07	2	Card number. Valid entry is 03 .
08 – 08	1	File indicator. Indicates the type of files being created. Valid entries are: O Original. R Replacement.
09 – 09	1	Foreign entity indicator. Enter 1 if the payer is a foreign entity and income is paid by the foreign entity to a US resident.
10 – 13	4	Name control. Name code supplied by IRS on the Magnetic Media Reporting (MMR) Package.
14 – 14	1	Tape creation indicator. Valid entries are: N Do not create an IRS 1099 tape. Y Create an IRS 1099 tape.
15 – 15	1	List print indicator. Valid entries are: N Do not print a listing. Y Print a listing of interest reported.
16 – 16	1	List print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
17 – 18	2	List print form code.
19 – 19	1	Form print indicator. Valid entries are: N Do not print form. Y Print form for interest reported.
20 – 20	1	Form print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
21 – 22	2	Form print form code.

Columns	Size	Description
23 – 80	58	Not used.

Note: If a report and a form are printed during the same run, different print form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code), separate printers must be used for each report.

If you want notices, you must set the list print indicator on the control card to 'Y'.

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 1 is missing or invalid.
0003	READ failed on MICM Record 0980-0, Institution 000.
0004	READ failed on MICM Record 0980-1, Institution 000.
0005	No control cards entered.
0006	READ failed on MICM Record 1001.
0007	READ failed on MICM Record 0980-0.
0008	READ failed on MICM Record 0980-1.
0009	READ failed on MICM Record 3500.
0010	READ failed on CST.
0011	WRITE failed. File space exceeded on TIWORK.
0012	START failed on MICM Record 2001.
0013	READ NEXT failed on MICM Record 2001.
0014	CLOSE failed on MIMAST.
0015	CLOSE failed on BNK.

TIY100 – IRA Disbursement Notices

Purpose This program is used to produce IRA disbursement notices and reports. It also updates the life expectancy information and optionally updates the Required Minimum Distribution amount. This program is intended to be run at the beginning of the year in order to project which customers should begin distribution of retirement accounts and to notify those customers whose Required Minimum Distribution changes. A control card is used to select which notices and reports to print.

Note: Roth and Educational IRAs are bypassed (IRA codes 'E', 'R', and 'T').

API MICM Records

Record Code	Ext Record	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	89
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-607 – IRA Projected Payout Report
 08-608 – Voluntary Disbursement Notice
 08-620 – Mandatory Disbursement Notice
 08-621 – Change of Minimum Distribution Notice
 08-626 – Mandatory Disbursement Notice – Over Age 70 1/2
 08-627 – Mandatory Depletion of Account Notice
 08-628 – Death Distribution Notice

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 TIY100 .
09 – 11	3	Institution number or ALL to process all institutions.
12 – 12	1	Voluntary Disbursement Notice print flag. Valid entries are: N Do not print this notice. Y Print this notice.
13 – 14	2	Voluntary Disbursement Notice form code.
15 – 15	1	Voluntary Disbursement Notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
16 – 16	1	Mandatory Disbursement 70 1/2 Notice print flag. Valid entries are: N Do not print this notice. Y Print this notice.
17 – 18	2	Mandatory Disbursement 70 1/2 Notice form code.
19 – 19	1	Mandatory Disbursement 70 1/2 Notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
20 – 20	1	Mandatory Disbursement Over 70 1/2 Notice print flag. Valid entries are: N Do not print this notice. Y Print this notice.
21 – 22	2	Mandatory Disbursement Over 70 1/2 Notice form code.

Columns	Size	Description
23 – 23	1	Mandatory Disbursement Over 70 1/2 Notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
24 – 24	1	Change of Minimum Distribution Notice print flag. Valid entries are: N Do not print this report. Y Print this report.
25 – 26	2	Change of Minimum Distribution Notice form code.
27 – 27	1	Change of Minimum Distribution Notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
28 – 28	1	IRA Projected Payout Report print flag. Valid entries are: N Do not print this report. Y Print this report.
29 – 30	2	IRA Projected Payout Report form code.
31 – 31	1	IRA Projected Payout Report fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
32 – 32	1	Update Customer Record. If this value is Y, the fields updated unconditionally are Life Expectancy, Minimum Payout This Year, and Minimum Payout Last Year. Payout Amount is updated according to the Update Payout Amount Flag. Valid entries are: N Do not update the Customer Record. Y Update the Customer Record.
33 – 33	1	Mandatory Depletion of Account Notice print flag. Valid entries are: N Do not print this report. Y Print this report.
34 – 35	2	Mandatory Depletion of Account Notice form code.

Columns	Size	Description
36 – 36	1	Mandatory Depletion of Account Notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
37 – 37	1	Death Distribution Notice print flag. Valid entries are: N Do not print this report. Y Print this report.
38 – 39	2	Death Distribution Notice form code.
40 – 40	1	Death Distribution Report Notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
41 – 80	40	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	OPEN failed on CST.
0003	Error occurred during the sort.
0004	System number on the control card is invalid.
0005	Program identification number on the control card is invalid.
0006	Institution number on the control card is invalid.
0007	Voluntary Disbursement Notice print flag on the control card is invalid.
0008	Voluntary Disbursement Notice fiche code on the control card is invalid.
0009	Mandatory Disbursement Notice print flag on the control card is invalid.
0010	Mandatory Disbursement Notice fiche code on the control card is invalid.
0011	Change of Minimum Distribution Report print flag on the control card is invalid.
0012	Change of Minimum Distribution Report form code on the control card is invalid.

Code	Description
0013	IRA Projected Payout Report print flag on the control card is invalid.
0014	IRA Projected Payout Report fiche code on the control card is invalid.
0015	Update Customer Record on the control card is invalid.
0016	Control card is missing.
0017	READ failed on BNK.
0018	READ failed on BNK, Institution 000.
0019	READ NEXT failed on BNK.
0020	READ failed on MICM Record 1001.
0021	READ failed on MICM Record 0211, Institution 000.
0022	READ NEXT failed on CST.
0023	READ failed on IRA.
0024	REWRITE failed on CST.
0025	READ NEXT failed on ACN.
0026	READ failed on MST.
0027	Maximum table size of 250 exceeded for account information.
0028	READ failed on IRA.
0029	READ failed on BNK, Institution 000.
0030	READ failed on BNK.
0031	READ failed on MICM Record 1001.
0032	READ failed on MICM Record 0211, Institution 000.
0033	READ failed on MICM Record 3500.
0034	CLOSE failed on BNK.
0035	CLOSE failed on MST.
0036	CLOSE failed on CST.
0037	CLOSE failed on MIMAST.
0038	CLOSE failed on ACN.
0039	CLOSE failed on IRA.
0041	Mandatory Disbursement Over 70 1/2 Notice print flag on the control card is invalid.
0042	Mandatory Disbursement Over 70 1/2 Notice fiche code on the control card is invalid.
0043	READ failed on IRA.

Code	Description
0044	READ NEXT failed on ACN.
0045	READ failed on MST.
0046	Mandatory Depletion of Account Notice print flag on the control card is invalid.
0047	Mandatory Depletion of Account Notice fiche code on the control card is invalid.
0048	Death Distribution Notice print flag in column 37 on the control card is invalid.
0049	Death Distribution Notice fiche code in column 40 on the control card is invalid.
0050	READ failed on IRA.
0051	READ NEXT failed on ACN.
0052	READ failed on MST.

TIY110 – IRA Follow-up Disbursement Notices

Purpose This program is run near the end of the year to produce notices for customers who might not meet their minimum distribution amount due to a lack of a payment schedule or to a payment schedule that was set too low. A control card is used to select which notices and reports to print.

Note: Roth and Educational IRAs are bypassed (IRA codes 'E', 'R', and 'T').

API MICM Records

Record Code	Ext Record	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record

API Application Records

Ext Record Code	Name	Description
ACN	TIACN-RECORD	Account Numbers Record
BNK	TIBNK-RECORD	Institution Control Record
CST	TICST-RECORD	Customer Record
IRA	TIIRA-RECORD	IRA/Keogh Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	95
PRINTR	Print File	Output	Printer	Sequential	133

Reports

08-622 – Mandatory Disbursement – Follow-up 1
 08-623 – Mandatory Disbursement – Follow-up 2
 08-624 – Mandatory Disbursement – Follow-up 3
 08-625 – IRA Follow-up Disbursements Report

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 TIY110 .
09 – 11	3	Institution number or ALL to process all institutions.
12 – 12	1	Mandatory Disbursement – Follow-up 1 notice print flag. Valid entries are: N Do not print this notice. Y Print this notice.
13 – 14	2	Mandatory Disbursement – Follow-up 1 notice form code.
15 – 15	1	Mandatory Disbursement – Follow-up 1 notice fiche code. 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
16 – 16	1	Mandatory Disbursement – Follow-up 2 notice print flag. Valid entries are: N Do not print this notice. Y Print this notice.
17 – 18	2	Mandatory Disbursement – Follow-up 2 notice form code.
19 – 19	1	Mandatory Disbursement – Follow-up 2 notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
20 – 20	1	Mandatory Disbursement – Follow-up 3 notice print flag. Valid entries are: N Do not print this notice. Y Print this notice.
21 – 22	2	Mandatory Disbursement – Follow-up 3 notice form code.
23 – 23	1	Mandatory Disbursement – Follow-up 3 notice fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.

Columns	Size	Description
24 – 24	1	IRA Follow-up Disbursements Report print flag. Valid entries are: N Do not print this report. Y Print this report.
25 – 26	2	IRA Follow-up Disbursements Report form code.
27 – 27	1	IRA Follow-up Disbursements Report fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
28 – 80	53	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	An error occurred during the sort.
0003	System number on the control card is invalid.
0004	Program identification number on the control card is invalid.
0005	Institution number on the control card is invalid.
0006	Mandatory Disbursement – Follow-up 1 notice print flag on the control card is invalid.
0007	Mandatory Disbursement – Follow-up 1 notice fiche code on the control card is invalid.
0008	Mandatory Disbursement – Follow-up 2 notice print flag on the control card is invalid.
0009	Mandatory Disbursement – Follow-up 2 notice fiche code on the control card is invalid.
0010	Mandatory Disbursement – Follow-up 3 notice print flag on the control card is invalid.
0011	Mandatory Disbursement – Follow-up 3 notice fiche code on the control card is invalid.
0012	IRA Follow-up Disbursements Report print flag on the control card is invalid.
0013	IRA Follow-up Disbursements Report fiche code on the control card is invalid.

Code	Description
0014	No control cards were processed.
0015	READ failed on BNK.
0016	READ failed on BNK, Institution 000.
0017	READ NEXT failed on BNK.
0018	READ failed on MICM Record 1001.
0019	READ failed on MICM Record 0211.
0020	READ NEXT failed on CST.
0021	READ failed on IRA.
0022	READ failed on ACN.
0023	READ failed on MST.
0024	Maximum table size of 250 exceeded for account information.
0025-0026	READ failed on BNK.
0027	READ failed on MICM Record 1001.
0028	READ failed on MICM Record 0211.
0029	READ failed on MICM Record 3500.
0030	CLOSE failed on BNK.
0031	CLOSE failed on MST.
0032	CLOSE failed on CST.
0033	CLOSE failed on ACN.
0034	CLOSE failed on IRA.
0035	CLOSE failed on MIMAST.

TIY120 – IRA Statement of Account/5498 Notices

Purpose This program produces a listing, and/or 2-up statements for customers with IRAs, and/or 3-up forms of the amount of regular contributions, rollover contributions, life insurance cost, and fair market value reported to the IRS. This program can also produce a 5498 tape to send to IRS.

The 2-up statements show all contributions, disbursements, earnings, penalties, federal tax information, and the fair market value for the reporting year. The listing shows a summary of IRA statement and 5498 reporting information by customer. In addition, if a 5498 tape is produced, the listing indicates whether that particular customer's 5498 form was reported for the tape.

All of these functions are performed according to the control card(s). There must be one control card for each institution processed, and the control cards must be in ascending order by institution number. Any combination of the functions can be performed; they are independent of one another.

The control card also provides the option to suppress the printing of 08-616 (IRA Information Form – 5498) if no contributions were made during the tax-reporting year.

Note: Before using this option, be sure to consider the 5498 notice shows the fair market value, as required by government regulations. Therefore, this option should not be used unless the customer has received a 08-610 – 19nn IRA Statement of Accounts/5498 Notice, which also shows the fair market value.

The 19nn IRA Statement of Accounts/5498 Notice is produced in a 2-up statement format, 8 lines per inch. Each statement is a single page in length. The statements print from left to right, in customer number order.

If a 5498 tape is being created for more than one institution, the program does not create separate tapes for each institution. You must run the job multiple times, each time with a different institution number on the control card.

TIY050 must be run prior to running TIY120, since it creates the year-end file used in TIY120.

API MICM Records

Record	Ext Record	Name	Description
Record	Ext Record	Name	Description
0980	M98	MI0980-RECORD	Customer Name and Address Information Record
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch Information Record

	Record Code	Ext Record Code	Name	Description					
API Application Records	3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record					
<hr/>									
	Ext Record Code	Name	Description						
<hr/>									
Files	BNK	TIBNK-RECORD	Institution Control Record						
	CST	TICST-RECORD	Customer Record						
<hr/>									
	File Name	Description	Opened	Media	Access Mode	Record Length			
<hr/>									
Reports	TICARD	Control Card	Input	Card	Sequential	80			
	MIMAST	MICM Master File	Input	Disk	Random	Variable			
	TIYEAR	Year-end File	Input	Disk	Sequential	1096			
	TIIRST	IRS Tape File (opt.)	Output	Tape	Sequential	750			
	TIIRSW	IRS Work (opt.)	Output	Tape	Sequential	750			
	TINOTE	Work File (Notices) (opt.)	Output	Disk	Sequential	134			
	TISTMN	Work File (Statements) (opt.)	Output	Disk	Sequential	134			
	PRINTR	Print File (opt.)	Output	Printer	Sequential	133			
<hr/>									
Control Card 1 (Transmitter)	The control card is required and only 1 is allowed.								
	Columns	Size	Description						
<hr/>									
	01 - 02	2	System number. Valid entry is 08 .						
	03 - 05	3	Institution number. Valid entry is 000 .						
	06 - 07	2	Card number. Valid entry is 01 .						
<hr/>									

Columns	Size	Description
08 – 11	4	Tax year. The year for which payments are being reported.
12 – 12	1	Foreign indicator. Valid entries are: <ul style="list-style-type: none"> b Not a foreign entity. 1 Foreign entity.
13 – 13	1	Test tape indicator. Valid entries are: <ul style="list-style-type: none"> b Not a test tape. T Test tape.
14 – 14	1	Prior year data indicator. Valid entries are: <ul style="list-style-type: none"> b Reporting current tax year. P Reporting prior tax year.
15 – 29	15	Electronic filename. Used only if sending replacement file. Enter the original filename assigned by the IRP-BBS (example: 12345p01.DAT).
30 – 31	2	Replacement alpha character. Required for replacement tape only. Enter the alpha/numeric character that appears immediately following the TCC number on the Media Tracking Slip (Form 9267).
32 – 80	49	Not used.

Control Card 2
(Transmitter)

The control card is optional and only 1 is allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 07	2	Card number. Valid entry is 02 .
08 – 42	35	Institution contact email address. Enter the email address of the contact person for this product.
43 – 48	35	Transmitter's media number. For magnetic media files only. Enter the number used to identify a particular piece of media.
49 – 80	32	Not used.

Control Card 3
(Payer)

One control card is required for each institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 07	2	Card number. Valid entry is 03 .
08 – 08	1	File indicator. Indicates the type of files being created. Valid entries are: O Original. R Replacement.
09 – 09	1	Foreign entity indicator. Enter 1 if the payer is a foreign entity and income is paid by the foreign entity to a US resident.
10 – 13	4	Name control. Name code supplied by IRS on the Magnetic Media Reporting (MMR) Package.
14 – 14	1	Tape creation indicator. Valid entries are: N Do not create an IRS 1099 tape. Y Create an IRS 1099 tape.
15 – 15	1	List print indicator. Valid entries are: N Do not print a listing. Y Print a listing of interest reported.
16 – 16	1	List print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
17 – 18	2	List print form code.
19 – 19	1	Form print indicator. Valid entries are: N Do not print form. Y Print form for interest reported.
20 – 20	1	Form print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
21 – 22	2	Form print form code.
23 – 23	1	ESA Statement of Account print indicator. Valid entries are: N Do not print ESA Statement of Account. Y Print ESA Statement of Account.

Columns	Size	Description
24 – 24	1	Statement print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
25 – 26	2	Statement print form code.
27 – 27	1	Suppress print of 5498 form (08-616) if no contributions were made. Valid entries are: N Do not suppress print. Y Suppress print.
28 – 80	58	Not used.

Note: If the listing and/or IRA statements and/or notices are printed during the same run, different form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code), separate printers must be used for each report.

If you want notices, you must set the list print indicator on the control card to 'Y'.

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 1 is missing or invalid.
0003	READ failed on MICM Record 0980-0, Institution 000.
0004	READ failed on MICM Record 0980-1, Institution 000.
0005	Control cards missing.
0006	READ failed on MICM Record 1001.
0007	READ failed on MICM Record 0980-0.
0008	READ failed on MICM Record 0980-1.
0009	READ failed on MICM Record 3500.
0010	Control card 2's are not in ascending order or contain an invalid institution.
0011	READ failed on CST.
0012	Out of Balance table exceeded (5000 entries).
0013	WRITE failed. File space exceeded on TISTMT.
0014	WRITE failed. File space exceeded on TINOTE.

Code	Description
0015	Out of Balance table exceeded (5000 entries).
0016	START failed on MICM Record 2001.
0017	READ NEXT failed on MICM Record 2001.
0018	CLOSE failed on MIMAST.
0019	CLOSE failed on BNK.

TIY130 – ESA Statement of Account/5498 ESA

Purpose This program produces a listing, and/or 2-up statements for customers with Coverdell Education Savings Accounts, and/or 3-up forms of the amount of regular contributions, rollover contributions, life insurance cost, and fair market value reported to the IRS. This program can also produce a 5498 ESA tape to send to IRS.

The 2-up statements show all contributions, disbursements, earnings, penalties, federal tax information, and the fair market value for the reporting year. The listing shows a summary of ESA statement and 5498 ESA reporting information by customer. In addition, if a 5498 ESA tape is produced, the listing indicates whether that particular customer's 5498 ESA form was reported for the tape.

All of these functions are performed according to the control card(s). There must be one control card for each institution processed, and the control cards must be in ascending order by institution number. Any combination of the functions can be performed; they are independent of one another.

The control card also provides the option to suppress the printing of 08-634 (ESA Information Form – 5498 ESA) if no contributions were made during the tax-reporting year.

Note: Before using this option, be sure to consider that the 5498 ESA notice shows the fair market value, as required by government regulations. Therefore, this option should not be used unless the customer has received a 08-633 (20nn ESA Statement of Account), which also shows the fair market value.

The 20nn ESA Statement of Account is produced in a 2-up statement format, eight lines per inch. Each statement is a single page in length. The statements print from left to right, in customer number order.

If a 5498 ESA tape is being created for more than one institution, the program does not create separate tapes for each institution. You must run the job multiple times, each time with a different institution number on the control card.

TIY050 must be run prior to running TIY130, since it creates the year-end file used in TIY130.

API MICM Records

Record	Ext Record	Name	Description
Code			
0980	M98	MI0980-RECORD	Customer Name and Address Information Record
1001	M74	MI1001-RECORD	Institution Information Record
2001	M01	MI2001-RECORD	Branch Information Record

	Record	Ext Record	Name	Description		
			Code			
API Application Records	3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record		
<hr/>						
Files	Ext Record	Name	Description			
		Code				
	BNK	TIBNK-RECORD	Institution Control Record			
	CST	TICST-RECORD	Customer Record			
<hr/>						
Reports	File Name	Description	Opened	Media	Access Mode	Record Length
	TICARD	Control Card	Input	Card	Sequential	80
	MIMAST	MICM Master File	Input	Disk	Random	Variable
	TIYEAR	Year-end File	Input	Disk	Sequential	1096
	TIIRST	IRS Tape File (opt.)	Output	Tape	Sequential	750
	TIIRSW	IRS Work (opt.)	Output	Tape	Sequential	750
	TINOTE	Work File (Notices) (opt.)	Output	Disk	Sequential	134
	TISTMN	Work File (Statements) (opt.)	Output	Disk	Sequential	134
	PRINTR	Print File (opt.)	Output	Printer	Sequential	133
<hr/>						
Control Card 1 (Transmitter)	The control card is required and only 1 is allowed.					
	Columns	Size	Description			
	01 - 02	2	System number. Valid entry is 08 .			
	03 - 05	3	Institution number. Valid entry is 000 .			
	06 - 07	2	Card number. Valid entry is 01 .			

Columns	Size	Description
08 – 11	4	Tax year. Year for which payments are being reported.
12 – 12	1	Foreign indicator. Valid entries are: • Not a foreign entity. 1 Foreign entity.
13 – 13	1	Test tape indicator. Valid entries are: • Not a test tape. T Test tape.
14 – 14	1	Prior year data indicator. Valid entries are: • Reporting current tax year. P Reporting prior tax year.
15 – 29	15	Electronic filename. Used only if sending replacement file. Enter the original filename assigned by the IRP-BBS (example: 12345p01.DAT).
30 – 31	2	Replacement alpha character. Required for replacement tape only. Enter the alpha/numeric character that appears immediately following the TCC number on the Media Tracking Slip (Form 9267).
32 – 80	49	Not used.

Control Card 2
(Transmitter)

The control card is optional and only 1 is allowed.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08.
03 – 05	3	Institution number. Valid entry is 000.
06 – 07	2	Card number. Valid entry is 02.
08 – 42	35	Institution contact email address. Enter the email address of the contact person for this product.
43 – 48	35	Transmitter's media number. For magnetic media files only. Enter the number used to identify a particular piece of media.
49 – 80	32	Not used.

Control Card 3
(Payer)

The control card is required for each institution.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 05	3	Institution number.
06 – 07	2	Card number. Valid entry is 03 .
08 – 08	1	File indicator. Indicates the type of files being created. Valid entries are: O Original. R Replacement.
09 – 09	1	Foreign entity indicator. Enter 1 if the payer is a foreign entity and income is paid by the foreign entity to a US resident.
10 – 13	4	Name control. Name code supplied by IRS on the Magnetic Media Reporting (MMR) Package.
14 – 14	1	Tape creation indicator. Valid entries are: N Do not create and IRS 1099 tape. Y Create an IRS 1099 tape.
15 – 15	1	List print indicator. Valid entries are: N Do not print a listing. Y Print a listing of interest reported.
16 – 16	1	List print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
17 – 18	2	List print form code.
19 – 19	1	Form print indicator. Valid entries are: N Do not print form. Y Print form for interest reported.
20 – 20	1	Form print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
21 – 22	2	Form print form code.
23 – 23	1	20nn ESA Statement of Account print indicator. Valid entries are: N Do not print 20nn ESA Statement of Account. Y Print 20nn ESA Statement of Account.

Columns	Size	Description
24 – 24	1	Statement print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
25 – 26	2	Statement print form code.
27 – 27	1	Suppress print of 5498 form (08-634) if no contributions were made. Valid entries are: N Do not suppress print. Y Suppress print.
28 – 80	58	Not used.

Note: If the listing and/or ESA statements and/or notices are printed during the same run, different form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code), separate printers must be used for each report.

If you want notices, you must set the list print indicator on the control card to 'Y'.

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 1 is missing or invalid.
0003	READ failed on MICM Record 0980-0, Institution 000.
0004	READ failed on MICM Record 0980-1, Institution 000.
0005	Control cards missing.
0006	READ failed on MICM Record 1001.
0007	READ failed on MICM Record 0980-0.
0008	READ failed on MICM Record 0980-1.
0009	READ failed on MICM Record 3500.
0010	Control card 2's are not in ascending order or contain an invalid institution.
0011	READ failed on CST.
0012	Out of Balance table exceeded (5000 entries).
0013	WRITE failed. File space exceeded on TISTMT.
0014	WRITE failed. File space exceeded on TINOTE.

Code	Description
0015	Out of Balance table exceeded (5000 entries).
0016	START failed on MICM Record 2001.
0017	READ NEXT failed on MICM Record 2001.
0018	CLOSE failed on MIMAST.
0019	CLOSE failed on BNK.

TIY140 – Tax ID Number Certification Request

Purpose This program creates a listing of accounts for the certification of Tax Identification Numbers. The listing can include all accounts, interest-bearing accounts only, accounts for which notices are produced only, or totals only. The notices are printed in the format specified by the IRS for all original issue discounts accounts. A control card is used for output selection.

API MICM Records

Record Code	Ext Record	Name	Description
0211	M11	MI0211-RECORD	Application Information Record
1001	M74	MI1001-RECORD	Institution Information Record
3500	M00	MI3500-RECORD	Time Investment Institution Parameters Record
3506	M06	MI3506-RECORD	Time Investment Title Records

API Application Records

Ext Record Code	Name	Description
BNK	TIBNK-RECORD	Institution Control Record
MST	TIMST-RECORD	Account Master Record

Files

File Name	Description	Opened	Media	Access Mode	Record Length
TICARD	Control Card	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Random	Variable
SORTWK1	Sort Work File (opt.)	O/I	Disk	Sequential	355
PRINTR	Print File (opt.)	Output	Printer	Sequential	133

Reports

08-611 – Withholding Notice Report
08-612 – Withholding Notice

Control Card

The control card is required.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 08 .
03 – 03	1	Report print/fiche code. Valid entries are: 0 Do not print. 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
04 – 05	2	Report print form code.
06 – 06	1	Report selection. Valid entries are: 1 Print all accounts. 2 Print interest-bearing accounts only. 3 Print notice accounts only. 4 Print totals only.
07 – 07	1	Notice print/fiche code. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
08 – 09	2	Notice form code.
10 – 10	1	Notice selection. Valid entries are: 1 Print top part only. 2 Print both parts.
11 – 11	1	Exempt code. Valid entries are: N Do not set exemption. Y Set exemption where possible.
12 – 80	69	Not used.

Note: If the report and notices are printed during the same run, different form codes must be used.

If alternate printers are used ('A' – 'J' in the first position of the print form code) separate printers must be used for each report.

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 NEXT failed on BNK.
0002	OPEN failed on MST.

Code	Description
0003	System number on the control card is invalid.
0004	Report print/fiche code on the control card is invalid.
0005	Report selection on the control card is invalid.
0006	Notice print/fiche code on the control card is invalid.
0007	Notice selection on the control card is invalid.
0008	Exempt code on the control card is invalid.
0009	Exempt code is not 'N' or 'Y'.
0010	READ NEXT failed on BNK.
0011	READ failed on MICM Record 1001.
0012	READ failed on MICM Record 3500.
0014	READ NEXT failed on MST.
0015	REWRITE failed on MST.
0016	CLOSE failed on MST.
0017	READ failed on MICM Record 1001.
0018	READ failed on MICM Record 3500.
0019	READ failed on MICM Record 0211.
0020	CLOSE failed on BNK.
0021	CLOSE failed on MIMAST.

Index

Numerics

- 1099 Interest (TIY020), 3-191
- 1099 OID Interest (TIY040), 3-188, 3-198
- 1099 Q (TIY090), 3-214
- 1099 R (TIY060), 3-205

A

- Abort information, 2-7
- Account Inquiry 1 (TIL901), 2-38
- Account Inquiry 2 (TIL902), 2-39
- Account Master (TILMST00), 2-78
- Account New/Maintenance 1 (TIL201), 2-17
- Account New/Maintenance 2 (TIL202), 2-18
- Account New/Maintenance 3 (TIL203), 2-19
- Account New/Maintenance 4 (TIL204), 2-20
- Account New/Maintenance 5 (TIL205), 2-21
- Account Purge (TIL210), 2-22
- Account Purge (TILMST01), 2-84
- Account Purge (TIR030), 3-143
- Account Statement (TID400), 3-117
- ACH Interface (TID380), 3-115
- Activity Posting (TID220), 3-86
- Assignments (TIL250), 2-27
- Assignments (TILASG00), 2-52

Audit Confirmations (TIR240), 3-166

Availability (TILAVL00), 2-55

B

- Balance History (TIL214), 2-26
- Batch File Maintenance (TID080), 3-27
- Branch/Cost Center Migration (TIR190), 3-164
- Business Statement (TID440), 3-123

C

- Capture Listing (TID100), 3-34
- Certificate Renewal (TIL265), 2-29
- Check Journal Reconciliation (TID340), 3-106
- Check Print (TID330), 3-104
- Checkpoint File Initialization (TID015), 3-8
- Checkpoint/Restart Recovery (TIR830), 3-195
- Closing Value (TIL904), 2-40
- Closing Value (TILXXX01), 2-107
- Commands, 1-2
- Create Monthly Reports File (TIM200), 3-133
- Create Year-end Work File (TIY050), 3-202
- Customer Deletion (TIR080), 3-150
- Customer Mass Maintenance (TIR120), 3-155
- Customer Master (TILCST00), 2-58
- Customer New/Maintenance 1 (TIL151), 2-8

Customer New/Maintenance 2 (TIL152), 2-10

Customer Payout History (TIL160), 2-14

Customer Profile (TIL900), 2-37

Customer Profile (TILCST01), 2-61

Customer Purge (TIL154), 2-13

Customer Purge (TILCST02), 2-63

E

Employer Master (TILEMP00), 2-65

Employer New/Maintenance (TIL170), 2-15

Employer Profile (TIL906), 2-42

Employer Profile (TILEMP01), 2-67

Employer Profile (TIR140), 3-157

Employer Purge (TIL173), 2-16

Employer Purge (TILEMP02), 2-69

Employer Purge (TIR180), 3-162

ESA Statement of Account/5498 ESA (TIY130), 3-234

F

File handling, 3-2

Float (TIL211), 2-23

Forecast Interest/APY (TIL275), 2-31

Forecast Interest/APY (TILXXX05), 2-119

Forms specifications, 3-5

Function modules, 2-7

G

General Ledger Interface (TID900), 3-130

Guides

 how to use, 1-2

I

Institution Control File Update (TID020), 3-9

Institution Selector – Selective Processing (TID030), 3-11

Interest History (TILINT00), 2-73

Interest Payment History (TIL310), 2-34

Interface (TILMST04), 2-91

International Accounts Report (TIR540), 3-181

IRA Disbursement Notices (TIY100), 3-218

IRA Follow-up Disbursement Notices (TIY110), 3-224

IRA Maintenance (TIL153), 2-12

IRA Maintenance (TILIRA00), 2-76

IRA Statement of Account/5498 Notices (TIY120), 3-228

Item Deletion (TID110), 3-38

M

Maintenance History (TIL910), 2-47

Maintenance History (TILHST00), 2-71

Maintenance Input Sort (TID040), 3-20

Master Mass Maintenance (TIR100), 3-152

MICM Interface (TIL301), 2-33

MICM records, 2-7

Missing Date of Birth (TIY080), 3-212

Monthly Reports Print (TIM320), 3-137

Monthly Reports Sort (TIM300), 3-135

N

New and Maintenance Input Edit (TID060), 3-22

O

Online File Recovery (TIR820), 3-184

Online information, 2-7
Online Maintenance Extract (TID035), 3-13
Online Maintenance Journal (TID036), 3-16
Overdraft History (TIL213), 2-25

P

Panel programs, 2-7
Passbook Conversion (TIL907), 2-43
Passbook Conversion (TILXXX04), 2-117
Passbook Transaction Purge (TID037), 3-18
Payments Due Register (TID350), 3-109
Payout History (TILPAY00), 2-95
Penalty Calculation (TIL905), 2-41
Penalty Calculation (TILXXX02), 2-111
PODX File Reformatter (TID113), 3-39
Pointer/Account Numbers Record Verification (TIR360), 3-177
Posting (TID200), 3-42

R

Rate Change History (TIL320), 2-35
Rate Change History (TILRAT00), 2-98
Rebuild Account Numbers Record (TIR380), 3-179
Record Dump (TIR160), 3-159
Record Reorganization (TIR020), 3-140
Reissue CD (TIL260), 2-28
Reissue Certificate (TILMST02), 2-86
related publications, 1-3
Renewal (TILMST03), 2-89
Report Recap (TID360), 3-111
Report Resort (TIR060), 3-148
Report Resort Cards Edit (TIR040), 3-146
Reports Print (TID320), 3-99

Reports Sort (TID300), 3-96
Required Minimum Distribution (TIL270), 2-30
Required Minimum Distribution (TILXXX03), 2-113

S

Schedule E Report (TIR340), 3-175
Service Charge History (TIL212), 2-24
Social Security Exceptions (TIR300), 3-171
Stand-alone Customer Profile (TIR260), 3-169
Stand-alone Short Trial (TID260), 3-93
Stand-alone Trial (TID240), 3-88
Statement Copies (TIL300), 2-32
Statement Copies (TILXRL00), 2-104

T

Tax ID Number Certification Request (TIY140), 3-240
TDOA Availability (TIL350), 2-36
TDOA Statement (TID410), 3-120
TID015 (Checkpoint File Initialization), 3-8
TID020 (Institution Control File Update), 3-9
TID030 (Institution Selector – Selective Processing), 3-11
TID035 (Online Maintenance Extract), 3-13
TID036 (Online Maintenance Journal), 3-16
TID037 (Passbook Transaction Purge), 3-18
TID040 (Maintenance Input Sort), 3-20
TID060 (New and Maintenance Input Edit), 3-22
TID080 (Batch File Maintenance), 3-27
TID100 (Capture Listing), 3-34
TID110 (Item Deletion), 3-38
TID113 (PODX File Reformatter), 3-39
TID120 (Transaction Sort), 3-40
TID200 (Posting), 3-42

TID220 (Activity Posting), 3-86	TIL250 (Assignments), 2-27
TID240 (Stand-alone Trial), 3-88	TIL260 (Reissue CD), 2-28
TID250 (Variable Rate TDOA Trial), 3-91	TIL265 (Certificate Renewal), 2-29
TID260 (Stand-alone Short Trial), 3-93	TIL270 (Required Minimum Distribution), 2-30
TID300 (Reports Sort), 3-96	TIL275 (Forecast Interest/APY), 2-31
TID320 (Reports Print), 3-99	TIL300 (Statement Copies), 2-32
TID330 (Check Print), 3-104	TIL301 (MICM Interface), 2-33
TID340 (Check Journal Reconciliation), 3-106	TIL310 (Interest Payment History), 2-34
TID350 (Payments Due Register), 3-109	TIL320 (Rate Change History), 2-35
TID360 (Report Recap), 3-111	TIL350 (TDOA Availability), 2-36
TID370 (W-4P Notice of Withholding), 3-113	TIL900 (Customer Profile), 2-37
TID380 (ACH Interface), 3-115	TIL901 (Account Inquiry 1), 2-38
TID400 (Account Statement), 3-117	TIL902 (Account Inquiry 2), 2-39
TID410 (TDOA Statement), 3-120	TIL904 (Closing Value), 2-40
TID440 (Business Statement), 3-123	TIL905 (Penalty Calculation), 2-41
TID800 (Work File Backup), 3-125	TIL906 (Employer Profile), 2-42
TID820 (Work File Reload), 3-127	TIL907 (Passbook Conversion), 2-43
TID900 (General Ledger Interface), 3-130	TIL908 (Transaction History Detail (pop-up window)), 2-44
TIL151 (Customer New/Maintenance 1), 2-8	TIL909 (Transaction History (one detail line)), 2-45
TIL152 (Customer New/Maintenance 2), 2-10	TIL910 (Transaction History (two detail lines)), 2-46
TIL153 (IRA Maintenance), 2-12	TIL911 (Maintenance History), 2-47
TIL154 (Customer Purge), 2-13	TILASG00 (Assignments), 2-52
TIL160 (Customer Payout History), 2-14	TILAVL00 (Availability), 2-55
TIL170 (Employer New/Maintenance), 2-15	TILCST00 (Customer Master), 2-58
TIL173 (Employer Purge), 2-16	TILCST01 (Customer Profile), 2-61
TIL201 (Account New/Maintenance 1), 2-17	TILCST02 (Customer Purge), 2-63
TIL202 (Account New/Maintenance 2), 2-18	TILEMP00 (Employer Master), 2-65
TIL203 (Account New/Maintenance 3), 2-19	TILEMP01 (Employer Profile), 2-67
TIL204 (Account New/Maintenance 4), 2-20	TILEMP02 (Employer Purge), 2-69
TIL205 (Account New/Maintenance 5), 2-21	TILHST00 (Maintenance History), 2-71
TIL210 (Account Purge), 2-22	TILINT00 (Interest History), 2-73
TIL211 (Float), 2-23	TILIRA00 (IRA Maintenance), 2-76
TIL212 (Service Charge History), 2-24	TILMST00 (Account Master), 2-78
TIL213 (Overdraft History), 2-25	TILMST01 (Account Purge), 2-84
TIL214 (Balance History), 2-26	TILMST02 (Reissue Certificate), 2-86

TILMST03 (Renewal), 2-89
 TILMST04 (Interface), 2-91
 TILPAY00 (Payout History), 2-95
 TILRAT00 (Rate Change History), 2-98
 TILTRN00 (Transaction History), 2-101
 TILXRL00 (Statement Copies), 2-104
 TILXXX01 (Closing Value), 2-107
 TILXXX02 (Penalty Calculation), 2-111
 TILXXX03 (Required Minimum Distribution), 2-113
 TILXXX04 (Passbook Conversion), 2-117
 TILXXX05 (Forecast Interest/APY), 2-119
 TIM200 (Create Monthly Reports File), 3-133
 TIM300 (Monthly Reports Sort), 3-135
 TIM320 (Monthly Reports Print), 3-137
 TIR020 (Record Reorganization), 3-140
 TIR030 (Account Purge), 3-143
 TIR040 (Report Resort Cards Edit), 3-146
 TIR060 (Report Resort), 3-148
 TIR080 (Customer Deletion), 3-150
 TIR100 (Master Mass Maintenance), 3-152
 TIR120 (Customer Mass Maintenance), 3-155
 TIR140 (Employer Profile), 3-157
 TIR160 (Record Dump), 3-159
 TIR180 (Employer Purge), 3-162
 TIR190 (Branch/Cost Center Migration), 3-164
 TIR240 (Audit Confirmations), 3-166
 TIR260 (Stand-alone Customer Profile), 3-169
 TIR300 (Social Security Exceptions), 3-171
 TIR320 (Total Record Maintenance), 3-173
 TIR340 (Schedule E Report), 3-175
 TIR360 (Pointer/Account Numbers Record Verification), 3-177
 TIR380 (Rebuild Account Numbers Record), 3-179
 TIR820 (Online File Recovery), 3-184
 TIR830 (Checkpoint/Restart Recovery), 3-195
 TIY020 (1099 Interest), 3-191
 TIY040 (1099 OID Interest), 3-188, 3-198
 TIY050 (Create Year-end Work File), 3-202
 TIY060 (1099 R), 3-205
 TIY070 (W-4P Notice of Withholding), 3-209
 TIY080 (Missing Date of Birth), 3-212
 TIY090 (1099 Q), 3-214
 TIY100 (IRA Disbursement Notices), 3-218
 TIY110 (IRA Follow-up Disbursement Notices), 3-224
 TIY120 (IRA Statement of Account/5498 Notices), 3-228
 TIY130 (ESA Statement of Account/5498 ESA), 3-234
 TIY140 (Tax ID Number Certification Request), 3-240
 Total Record Maintenance (TIR320), 3-173
 Transaction History (one detail line) (TIL909), 2-45
 Transaction History (TILTRN00), 2-101
 Transaction History (two detail lines) (TIL910), 2-46
 Transaction History Detail (pop-up window) (TIL908), 2-44
 Transaction Sort (TID120), 3-40
 Typographical standards
 blank spaces, 1-2
 boldface italic type, 1-2
 boldface type, 1-2
 italic type, 1-2
 uppercase type, 1-2

V

Variable Rate TDOA Trial (TID250), 3-91

W

W-4P Notice of Withholding (TID370), 3-113
 W-4P Notice of Withholding (TIY070), 3-209
 Work File Backup (TID800), 3-125
 Work File Reload (TID820), 3-127

