



Infor FMS Infopoint

MICM 5.1.13

Reference Guide 1

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Introduction

This Reference documentation provides the processing options available within Infopoint MICM.

Organization of This Guide

This Reference documentation is divided into 2 guides and consists of 5 chapters. Each guide has a separate index. The table below briefly describes each chapter.

Reference Guide 1

Chapter	Title	Description
1	Introduction	Describes the layout of the guide.
2	Online Programs	Describes the online programs needed to process MICM.
3	Batch Programs	Describes conversion, daily, monthly, and request programs needed to process MICM.
4	Application Files	Provides VSAM/API file layouts for records and describes internal communication areas and message formats used by MICM.
	Index	Provides a quick reference for locating information.

Reference Guide 2

Chapter	Title	Description
5	API Records	Provides layouts for records accessed via the Application Program Interface.
	Index	Provides a quick reference for locating information.

How to Use This Guide

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

1. Briefly browse through each chapter so that you can obtain an overview of its contents and become familiar with the general capabilities and features of this product.
2. Carefully read through each chapter to become knowledgeable in specific information and its location.
3. After becoming familiar with MICM, refer to 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. These must be keyed in exactly as shown.
UPPERCASE	<ol style="list-style-type: none">1. Identifies field names (such as MIM-TBLDATA).2. Identifies file and record names (such as MI-MASTFIL).3. Identifies program names (such as MIR800).
<i>Italics</i>	Used to emphasize or define a term or concept.
<i>Bold Italics</i>	Used when referring to another Infopoint application or to a guide for another Infopoint application.
b	Signifies a blank field value associated with a field name.
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 MICM.

Infopoint MICM *Procedures Guide*

Contains the online and batch forms used to maintain MICM. Procedures and reports produced by MICM are also included.

Infopoint MICM *Reference Guide*

Describes the online programs, batch programs, and files used by MICM.

Infopoint MICM *Operations Guide*

Contains conversion and migration information.

Infopoint MICM *Installation Guide*

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

Related Publications

The guide listed below provides additional reference material relating to Infopoint MICM.

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.

Online Programs

This chapter describes all MICM online programs and is divided into the following categories:

- Online programs
- Panel programs
- Function modules

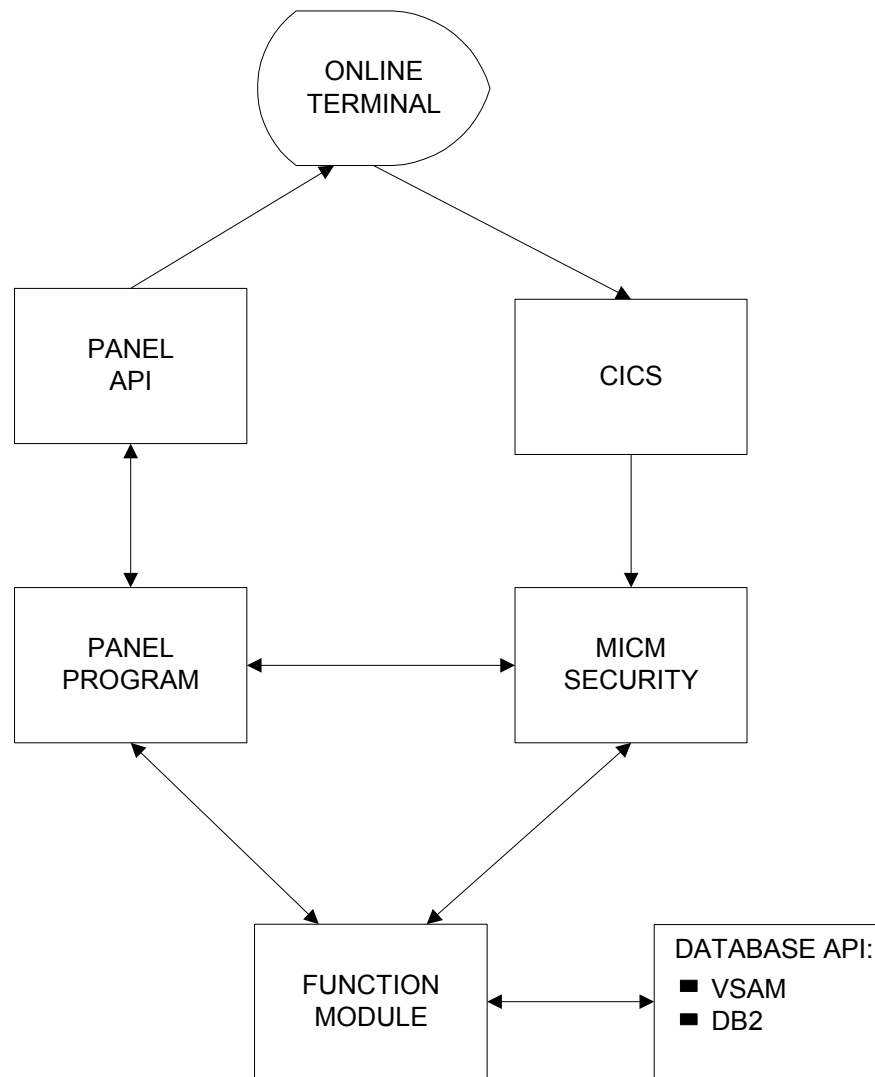
There are 2 types of screen displays used by MICM 5.1. The first is conventional screen display that uses BMS maps. In the documentation, these are referred to as screens. They cannot be modified without changing and reassembling the BMS map.

The second type of screen display is based on SS Files and is referred to as panels in the documentation. Panels are used to create the menus, some transactions, and can be combined into work units. The data they contain can be rearranged via the SS File. Panels also offer panel-level and field-level help panels. Panel programs are used to display the SS Files.

Function modules are used to exchange data between the panels and the API records. Some special MICM panel programs do not require function modules.

Online Program Flowchart and Description

The following diagram illustrates the components that comprise the MICM interface for the online processing of MICM transactions and facilitate signon and signoff.



Panel API	Application Programming Interface that sends and receives 3270 CICS formatted messages.
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.
Panel Program	<p>Panel programs communicate with panel API and link to function modules with a preset message format. Panel programs perform the following tasks.</p> <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 panel API.■ Perform field/record level security.■ Numeric validation.■ Date validation.■ Provide Help.■ Breakaway functionality.■ Work unit processing. <p>The Panel program does not edit application data, except for numeric and date validation.</p>
MICM Security	MICM Security controls navigation and security to verify an operator is authorized to view, update, add/delete the information requested by the Panel ID. For additional information, refer to the How to Set Up Online Security section in the Procedures chapter of MICM <i>Procedures Guide 1</i> .
Function Module	<p>A function module is 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).■ MICM defaults for new accounts.■ Data verification (excluding numeric checks).■ All database API accesses.■ Logging.■ Formatting/updating a preset linking message.
Database API	Application Programming Interface that permits information to be accessed from a VSAM or DB2 environment, based upon database control table requirements. For more information, refer to the Infopoint Runtime Components <i>Reference Guide</i> .

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, Function Code, 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, Account Type, 999
006	Panel ID, Function Code, Application Code, Account Number, Branch, Account Type, 999
007	Panel ID, Application Code, Account Number, Branch, Account Class, 999
008	Panel ID, Function Code, Account Number, Account Type, Account Branch, 999
009	Panel ID, Function Code, Account Number, Application Code, Cycle Month, Cycle Year, 999
050	Key is not to change.

Primary Panel ID Tables

The table below lists the primary panel IDs and their descriptions, 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.

Note: The Internal Transaction Code for the following panels is MI00.

Panel ID	Description	Panel Program	Function Module	User-defined
0020	Holding Company Information	MIL710	n/a	
0021	Region Information	MIL710	n/a	
0120	SuperMICR II On-us Institution Parameters	MIL710	n/a	
0124	SuperMICR II Application Sort Table	MIL710	n/a	
0134	SuperMICR II Transit Sort Table	MIL710	n/a	
0211	Application Information	MIL710	n/a	
0231	Application Edit Table	MIL710	n/a	
0233	Regulation CC Institution Notice	MIL710	n/a	
0234	Federal Withholding Information	MIL710	n/a	
0236	Federal Holidays	MIL710	n/a	
0237	Program Interface Parameters	MIL710	n/a	
0239	Multisort Interface	MIL710	n/a	
0242	Employee Information	MIL710	n/a	
0244	General Ledger Interface	MIL710	N/a	
0245	General Ledger Interface	MIL710	n/a	
0248	Cost Center Information	MIL710	n/a	
0301	Application System Option Flags	MIL710	n/a	
0307	Application System Report Flags	MIL710	n/a	

Panel ID	Description	Panel Program	Function Module	User-defined
0316	Source Code Description	MIL710	n/a	
0320	Deposits Fund Name and Address	MIL710	n/a	
0322	Deposits Fund Sweeping Destination Information	MIL710	n/a	
0323	Deposits Fund Sweeping Institution Information	MIL710	n/a	
0324	Deposits Fund Sweeping Fund Information	MIL710	n/a	
0390	Regulation CC Institution Parameters	MIL710	n/a	
0391	EFAS Type Processing Parameters 1	MIL710	n/a	
0392	EFAS Type Processing Parameters 2	MIL710	n/a	
0393	EFAS Type Processing Parameters 3	MIL710	n/a	
0394	EFAS Type Processing Parameters 4	MIL710	n/a	
0395	Regulation CC Exception Description	MIL710	n/a	
0404	Online Abort Messages	MIL710	n/a	
0980	Customer Name and Address Information	MIL710	n/a	
0982	Customer Alternate Name and Address	MIL710	n/a	
0984	Application Alternate Name and Address	MIL710	n/a	
0986	Customer Statistical Information	MIL710	n/a	
0988	Customer Business Information	MIL710	n/a	
1001	Institution Information	MIL710	n/a	
1003	Type Information	MIL710	n/a	
1004	Code Description	MIL710	n/a	

Panel ID	Description	Panel Program	Function Module	User-defined
1006	Error Message Information	MIL710	n/a	
1007	POD On-us Processing Parameters	MIL710	n/a	
2000	Advertising Messages	MIL710	n/a	
2001	Branch Information	MIL710	n/a	
2002	Index Rate Record	MIL710	n/a	
2005	Cycles Information	MIL710	n/a	
2006	Account Verification Formulas	MIL710	n/a	
2007	Application Scheduled Report Options	SSL100	n/a	
2008	Address Mailing Parameters	MIL710	n/a	
2009	Address Mailing Parameters Postal	MIL710	n/a	
2011	Online and Batch Messages	MIL710	n/a	
2012	Online Key Structures	MIL710	n/a	
2013	Transaction Code Parameters	MIL710	n/a	
2014	MICM Institution Parameters	MIL710	n/a	
2015	Index Rate Record	MIL710	n/a	
2016	Alternate Institution Information	MIL710	n/a	
2017	Maintenance History Parameters	MIL710	n/a	
2018	Currency Information	MIL710	n/a	
2019	Currency Conversion Information	MIL710	n/a	
2020	Currency Exchange Rate	MIL710	n/a	
2021	Institution Holidays	MIL710	n/a	
2022	Language Table	MIL710	n/a	
2023	Product Code Information	MIL710	n/a	

Panel ID	Description	Panel Program	Function Module	User-defined
2024	Institution Groups	MIL710	n/a	
2025	Alert Code Information	MIL710	n/a	
2026	TSQ Management	MIL710	n/a	
4005	Mapper File Directory	MIL710	n/a	
7000	RCIF Translation Field Table	MIL710	n/a	
7001	Translation Tables	MIL710	n/a	
MIAMTTM	Application Management Table Maintenance	MIL700	n/a	
MIASKINQ	Ask Infopoint Inquiry	MIL110	MILASK00	
MIASKUPD	Ask Infopoint New or Maintenance	MIL100	MILASK00	
MIBMTABL	Build MICM Temporary Storage Table	MIL020	MIL040	
MICFL	Field Language Table	MIL710	n/a	
MICLD	Logical Database Table	MIL710	n/a	
MICRL	Record Language Table	MIL710	n/a	
MICSF	Field Definition Table	MIL710	n/a	
MICSK	Key Definition Table	MIL710	n/a	
MICSR	Record Definition Table	MIL710	n/a	
MIHISTM	Maintenance History Maintenance	MIL710	n/a	
MIHST	Maintenance History	SSL100	n/a	
MIIRD	IQ Request Definition	MIL710	n/a	
MIMMAPM	Merge Mapping File Maintenance	MIL710	n/a	
MIMUD	Menu Definition	MIL710	n/a	
MIOPA	Operator Authorization	MIL710	n/a	
MIOPP	Operator Profile Authorization	MIL710	n/a	
MIOPR	Operator Record	MIL130	MILOPR00	
MIORA	Operator Record Authorization	MIL710	n/a	

Panel ID	Description	Panel Program	Function Module	User-defined
MIORG	Organization Definition	MIL710	n/a	
MIPRD	Profile Resource Definition	MIL710	n/a	
MIPRO	Profile Definition	MIL710	n/a	
MIRDC	Resource Description	MIL710	n/a	
MIRDMLST	IQ Request Definition List	MIL173	n/a	
MIRLN	Resource Description Language	MIL710	n/a	
MISOP	System and Security Options	MIL710	n/a	
MITDF	Transaction Definition	MIL720	n/a	
MIWKU	Work Unit Definition	MIL710	n/a	

The table below lists the primary panel IDs, internal transaction codes, the panel program and function modules they access, and the preset key parameter number. You can define your own key parameter value on MICM Record 2012 (Online Key Structures). These items are listed alphabetically by the panel ID.

Panel ID	Panel Name	Internal Tran Code	Panel Program	Function Module	User-defined
CHNG	Change Institution	SL110	SSL110	n/a	
MENU	Menu	MI00	SSL100	n/a	
MIFM	Form Number Key	MI00	SSL100	n/a	
MIHS	Host Data Transfer Function Message Simulator	MIHS	MIHS	n/a	
SGOF	Signoff	MI00	SSL120	n/a	
SGON	Infopoint Sign On/Change	MI00	SSL110	n/a	

CICS Commands

The MICM non-API online programs are written in CICS command level COBOL. All of the CICS commands are isolated into copybooks and included in common members. The application CICS commands include all of the file control commands. Other commands, such as storage control and terminal control, are included in the standard CICS commands. These standard CICS commands are used by all of the Infopoint applications.

The COBOL command language translator must process the CICS commands. The output of the translator must then be input to S0C020 to be separated into individual copybooks. These copybooks can then be cataloged for use by the COBOL compiler.

Each of the copybooks contains comments documenting how the routine is used, the fields that are required for the routine to be used, and the exceptional conditions that can occur when the routine is used. The following tables list the copybook names, the CICS commands they contain, and a description of each.

MICM CICS Commands Table

Copybook	CICS Commands	Descriptions
MIP701	CICS-MIB-READ-RANDOM-SECTION	Reads the MICM Institution File based on the key.
MIP702	CICS-MIB-READ-UPDATE-SECTION	Reads the MICM Institution File for update based on the key. This routine must be performed before the Institution File is updated and the Log Record is written.
MIP703	CICS-MIB-WRITE-SECTION	Writes a new record to the MICM Institution File.
MIP704	CICS-MIB-REWRITE-SECTION	Updates a record in the MICM Institution File. The records to be updated must first be read by CICS-MIB-READ-UPDATE-SECTION.
MIP705	CICS-MIB-START-BROWSE-SECTION	Specifies a record in the MICM Institution File at which a browse is to start, using a partial key. No records are read until the CICS-MIB-READNEXT-SECTION is performed.
MIP706	CICS-MIB-START-FBROWSE-SECTION	Specifies a record in the MICM Institution File at which a browse is to start, using a full key. No records are read until the CICS-MIB-READNEXT-SECTION is performed.
MIP707	CICS-MIB-END-BROWSE-SECTION	Ends a browse in the MICM Institution File that has been initiated by CICS-MIB-START-BROWSE-SECTION and CICS-CBK-READNEXT-SECTION routines.
MIP708	CICS-MIB-READNEXT-SECTION	Reads records in the MICM Institution File sequentially, starting with the record defined by CICS-MIB-START-BROWSE-SECTION.
MIP709	CICS-MIB-GETMAIN-SECTION	Obtains a specified amount of main storage for the Institution File.
MIP710	CICS-MIB-DELETE-SECTION	Removes a specified record from the Institution File.
MIP711	CICS-MIM-READ-RANDOM-SECTION	Reads the MICM Master File based on the customer key.
MIP712	CICS-MIM-READ-UPDATE-SECTION	Reads the MICM Master File for update based on the customer key. This routine must be performed before the MICM Master File is rewritten.
MIP713	CICS-MIM-WRITE-SECTION	Writes a new record to the MICM Master File.

Copybook	CICS Commands	Descriptions
MIP714	CICS-MIM-REWRITE-SECTION	Updates a record in the MICM Master File. The records to be updated must first be read by the CICS-MIM-READ-UPDATE- SECTION.
MIP715	CICS-MIM-START-BROWSE-SECTION	Specifies a record in the MICM Master File at which a browse is to start, using a partial key. No records are read until the CICS-MIM-READNEXT-SECTION is performed.
MIP716	CICS-MIM-START-FBROWSE-SECTION	Specifies a record in the MICM Master File at which a browse is to start, using a partial key. No records are read until the CICS-MIM-READNEXT- SECTION is performed.
MIP717	CICS-MIM-END-BROWSE-SECTION	Ends a browse in the MICM Master which has been initiated by the CICS-MIM-START-BROWSE-SECTION and CICS-CMS-READNEXT- SECTION routines.
MIP718	CICS-MIM-READNEXT-SECTION	Reads records in the MICM Master File sequentially, starting the record defined by the CICS-MIM-START-BROWSE- SECTION.
MIP719	CICS-MIM-GETMAIN-SECTION	Obtains a specified amount of main storage.
MIP720	CICS-MIM-DELETE-SECTION	Removes a specified record from the MICM Master File.
MIP721	CICS-MTB-READ-RANDOM-SECTION	Reads the MICM Table File based on the record number which is the key.
MIP722	CICS-MTB-READ-UPDATE-SECTION	Reads the MICM Table File based on the record key. This routine must be performed before the Table File is rewritten.
MIP723	CICS-MTB-WRITE-SECTION	Writes a new record to the MICM Table File.
MIP724	CICS-MTB-REWRITE-SECTION	Updates a record in the MICM Table File. The records to be updated must first be read by the CICS-MTB-READ-UPDATE- SECTION.
MIP725	CICS-MTB-START-BROWSE-SECTION	Specifies a record in the MICM Table File at which a browse is to start, using a partial key. No records are read until the CICS-MTB-READNEXT-SECTION is performed.
MIP726	CICS-MTB-START-FBROWSE-SECTION	Specifies a record in the MICM Table File at which a browse is to start, using a full key. No records are read until the CICS-MTB-READNEXT-SECTION is performed.

Copybook	CICS Commands	Descriptions
MIP727	CICS-MTB-END-BROWSE-SECTION	Ends a browse in the MICM Table File which has been initiated by the CICS-MTB-START-BROWSE-SECTION and CICS-CTB-READNEXT-SECTION routines.
MIP728	CICS-MTB-READNEXT-SECTION	Reads records in the MICM Table File, sequentially, starting with the record defined by the CICS-MTB-START-BROWSE-SECTION.
MIP729	CICS-MTB-GETMAIN-SECTION	Obtains a specified amount of main storage for the Table File.
MIP730	CICS-MTB-DELETE-SECTION	Removes a specified record from the Table File.
MIP733	CICS-CLG-WRITE-SECTION	Writes a new record to the MICM Log File.
MIP799	CALL-MICM-SECTION	Contains CICS commands for reading the MICM Master File. This routine is used only by applications that operate under MICM 5.0 architecture.
MIP811	CICS-MIM-RESET-BROWSE-SECTION	Used while browsing the MICM Master File to end the browse and start the browse with a new partial key.
MIP812	CICS-MIM-READ-UPDATE-SECTION	Used while browsing the MICM Master File to end the browse and start the browse with a full key.
MIP813	CICS-MIM-FREEMAIN-SECTION	Used to release storage obtained for MIMAST with a GETMAIN.

Standard CICS Commands Table

Copybook	CICS Commands	Descriptions
SLP095	SLP095-GET-7001-RECORD	Retrieves MICM Record 7001 from temporary storage records.
SLP096	SLP096-GET-2023-RECORD	Loads MICM Record 2023 through a forms search, then returns the data into MICM Record 2023.
SLP150	SLP150-SECURE-FIELDS-LINK	Record/field authorization procedures.
SLP150F	SLP150-SECURE-FIELDS-LINK	Record/field authorization procedures for function programs.
SLP701	CICS-ENTRY-ROUTINE-SECTION	Enters the program, sets handle-condition exits, and exits the program if Clear is pressed.
SLP702	CICS-HANDLE-CONDITION-SECTION	Used to specify the label to which control is to be passed if an exception condition occurs.
SLP703	CICS-ASKTIME-DATE-SECTION	Requests the current date and time.
SLP704	CICS-XCTL-SECTION	Transfers control from a transaction module to CICS, using DFHCOMMAREA.
SLP705	CICS-XCTL-PROGRAM-SECTION	Transfers control from a transaction module to CICS, using working storage.
SLP706	CICS-LINK-SECTION	Passes control from a transaction module to a sub-program for a specific task. A return command must be given to pass control back to the transaction module.
SLP707	CICS-LINK-PROGRAM-SECTION	Passes control from a transaction module to the specified program (sub-program) for a specific task. A return command must be given to pass control back to the transaction module.
SLP708	CICS-LINK-LOG-SECTION	Passes control from a transaction module to the log program (sub-program) for a specific task. A return command must be given to pass control back to the transaction module.
SLP709	CICS-RETURN-SECTION	Returns control from a sub-program to the transaction module that originally relinquished control by using CICS-LINK-SECTION.
SLP710	CICS-RETURN-TRANSID-SECTION	Specifies the transaction identification for the module to be associated with that terminal.
SLP711	CICS-TSQ-GETMAIN-SECTION	Obtains a specified amount of main storage for temporary storage data handling.

Copybook	CICS Commands	Descriptions
SLP7110	CICS-TSQ-GETMAIN-SECTION	Obtains a specified amount of main storage for temporary storage data handling. This is the VS/COBOL version of this CICS command.
SLP7112	CICS-TSQ-GETMAIN-SECTION	Obtains a specified amount of main storage for temporary storage data handling. This is the COBOL II version of this CICS command.
SLP712	CICS-TSQ-READ-SECTION	Used to retrieve operator information from the temporary storage area.
SLP713	CICS-TSQ-DELETE-SECTION	Used to delete information from the temporary storage area.
SLP714	CICS-TSQM-WRITE-SECTION	Writes data to a temporary storage queue, in main storage area.
SLP715	CICS-TSQM-REWRITE-SECTION	Updates information in a main temporary storage area.
SLP716	CICS-TSQA-WRITE-SECTION	Writes data to a temporary storage queue, in an alternate storage area.
SLP717	CICS-TSQA-REWRITE-SECTION	Updates information in an alternate temporary storage area.
SLP718	CICS-COMM-GETMAIN-SECTION	Obtains a specified amount of main storage for data handling in DFHCOMMAREA.
SLP719	CICS-UNLOCK-SECTION	Releases exclusive control made in response to a read with an update option.
SLP720	CICS-START-TASK-SECTION	Starts a task from a terminal.
SLP721	CICS-SEND-TERMINAL-SECTION	Sends a terminal area without mapping.
SLP722	CICS-SEND-TERM01-SECTION	Sends terminal area 01 for direct attached terminals.
SLP723	CICS-SEND-TERM02-SECTION	Sends terminal area 02 for direct attached terminals.
SLP724	CICS-SEND-TERM03-SECTION	Sends terminal area 03 for direct attached terminals.
SLP726	CICS-START-TASK-NOTERM-SECTION	
SLP728	CICS-SEND-MAP-SECTION	Sends a terminal area with mapping. This routine is performed after loading the panel and setting the attributes.
SLP729	CICS-SEND-MAP-PRINT-SECTION	Sends panel area and prints with mapping.
SLP730	CICS-RETRIEVE-DATA-SECTION	Retrieves data in a started task.

Copybook	CICS Commands	Descriptions
SLP731	CICS-RECEIVE-TERMINAL-SECTION	Receives a terminal area without mapping.
SLP732	CICS-RECEIVE-TERM01-SECTION	Receives terminal area 01 for direct attached terminals.
SLP738	CICS-RECEIVE-MAP-SECTION	Receives a terminal area with mapping, usually after data entry or inquiry by the operator.
SLP739	FIND-APPLICATION-FA-SECTION	Finds the Infopoint system number given the alphabetic application code.
SLP740	FIND-APPLICATION-AU-SECTION	Finds the users defined numeric application code given the alphabetic application code.
SLP741	FIND-APPLICATION-AF-SECTION	Finds the alphabetic application code given the Infopoint system number.
SLP743	NAME-ADDRESS-ON-LINE-SECTION	Format an 8 line name and address from the MICM Master File for the customer application record based on the parameters that are passed to it for online applications.
SLP744	CICS-TSQ-READ-INTO-SECTION	Used to retrieve information from the temporary storage area into working storage area.
SLP746	BANK-NAME-ADDR-SECTION	Formats a 3 line institution name and address from MICM Master File records based on the institution number passed to it.
SLP747	CICS-TSQ-FREEMAIN-SECTION	Frees temporary storage areas pointed to by LSP-TSQ.
SLP751	CICS-ASSIGN-TWA-SECTION	Gets the length of areas pointed the Transaction Work Area.
SLP751	CICS-ASSIGN-TWA-SECTION	Gets the address of areas pointed the Transaction Work Area.
SLP761	CICS-DELAY-REQID-SECTION	Executes a CICS delay with a REQID. This allows a different task to cancel it at a later time.
SLP762	CICS-CANCEL-REQID-SECTION	Executes a CICS cancel for a delayed task with REQID.
SLP763	CICS-WORKAREA-FGETMAIN-SECTION	Work area gets main storage above the line.
SLP764	CICS-WORKAREA-GETMAIN-SECTION	Obtains a specified amount of main storage for a work area and initializes it to spaces.
SLP7640	CICS-WORKAREA-GETMAIN-SECTION	Obtains a specified amount of main storage for a work area and initializes it to spaces. This is the VS/COBOL version of this CICS command.

Copybook	CICS Commands	Descriptions
SLP7642	CICS-WORKAREA-GETMAIN-SECTION	Obtains a specified amount of main storage for a work area and initializes it to spaces. This is the COBOL II version of this CICS command.
SLP765	CICS-WORKAREA-FREEMAIN-SECTION	Frees the storage area obtained by SLP764.
SLP766	NAME-ADDRESS-ON-LINE-SECTION	Formats an 8 line name and address record by linking to SLB100 which determines the name and address system in place and calls the appropriate modules.
SLP7670	CICS-WORKAREA-GETMAINF	CICS GETMAIN VS COBOL name and FLENGTH option.
SLP7672	CICS-WORKAREA-GETMAINF	CICS GETMAIN FLENGTH name and option.
SLP770	CICS-GSI-LINK-SECTION	Passes control from a module to the Generic Security Interface program. Used when interfacing to external security systems.
SLP772	CICS-HANDLE-CONDITON-SECTION	Used to specify the label to which control is to be passed if an exception condition occurs. To be used with MICM 5.0 compatible programs.
SLP775	CICS-TDQ-WRITE-SECTION	Writes a record to the transient data queue.
SLP7680	CICS-WORKAREA-GETMAINF2	CICS GETMAIN VS COBOL name and FLENGTH option for work area 2.
SLP7682	CICS-WORKAREA-GETMAINF2	CICS GETMAIN FLENGTH name and option for work area 2.
SLP769	CICS-WORKAREA-GETMAINF3	CICS GETMAIN FLENGTH name and option for work area 3.
SLP776	CICS-WORKAREA-GETMAINF4	CICS GETMAIN FLENGTH name and option for work area 4.
SLP787	TABLE-VERIFY-SECTION	VARIABLE-TABLE-SEARCH is used to verify a code. This routine is used by MICM Record 0231.
SLP788	TABLE-VERIFY-SECTION	VARIABLE-TABLE-SEARCH is used to verify a code. This routine is used by MICM Record 1005.
SLP789	FIELD-LENGTH-SECTION	Determines the length of an alphanumeric field.
SLP790	KEY-COMPARE-SECTION	Compare 2 alphanumeric fields for a given length, and determine if there is an equal condition.

Copybook	CICS Commands	Descriptions
SLP791	TABLE-VERIFY-SECTION	Reads the MICM Master File to find a table based on a key. The VARIABLE-TABLE-SEARCH routine is then performed to verify that a specific value exists in the table.
SLP792	PF KEY TEST	Used to check if F4 has been used. If the option is to be used, the next transaction is begun and the Logo and menu panels are bypassed.
SLP793	SET-SCREEN-HEADING-SECTION	Used to format the top 2 lines of the panel (MI30 format).
SLP794	CICS-ENTRY-ROUTINE-SECTION	Enters the program, sets handle-condition exits, performs TRANSACTION-CLEAN-UP, and exits the program if Clear is pressed.
SLP796	CICS-SYNCPOINT-SECTION	Executes a sync point without a rollback.
SLP798	CICS-ABORT-EXIT-SECTION	Exits control to the abort module (SLL900).
SLP797	CICS-ABORT-EXIT-SECTION	Exits control to the abort module (SLL900), after executing a sync point rollback.
SLP799	CICS-ABEND-SECTION	Used to request that a task be terminated. This is used in SSL900 by activating F1.
SRP075	BREAK-AWAY	Routines that perform transaction breakaway.
SRP069	SET-SECURITY SECTION	This routine performs field level security.
SRP081	LOAD-CIFAPPLTABLE	This Routine load records from TSQ MI0211 into the CIF Application Code Table (SRW081), or loads 00003000 MICM Record 0211 into the CIF Application Code Table.

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	Lists the MICM API records, in alphanumeric order by external record code, accessed by the program.
Files	Shows any MICM files accessed by the panel program.
Abort Information	Lists the trace codes and abort codes and a description of the problem encountered.

MIL010 – Simulate Host Data Stream Transfer

Purpose	This program simulates a server request to the host for processing. Its primary function is to test SSL010 and check function messages and function programs. It interfaces to SSL010 with a CICS LINK.	
Online Information	Panel ID	MIHS
	Internal Transaction Code	MIHS
	Key Panel File	n/a
	Selection Panel File	n/a
	Primary Panel File	MIV010
	Help Panel SS File	n/a
Function Modules	SSL010	
API MICM 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.	

MIL020 – Build MICM Temporary Storage Table

Purpose	This program invokes MIL040 to build or delete the MICM Temporary Storage Tables MIRDC, MITCT, MIORA, MIAOAF, MIFOAS, MI0211, MI2023, MI4005, MI7000 and SSMR7000.	
Online Information	Panel ID	MIBMTABL
	Internal Transaction Code	MI00
	Key Panel SS File	MIV020
	Selection Panel SS File	n/a
	Primary Panel SS File	MIV020
	Help Panel SS File	MIV020H
Function Modules	MIL040	
API MICM 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.	

MIL100 – Ask Infopoint Update

Purpose This program creates, updates, or deletes the MICM Ask Infopoint records.

Online Information

Panel ID	MIASKUPD
Internal Transaction Code	MI00
Key Panel SS File	MIV100K
Action Panel SS File	MIV100A
Primary Panel SS File	MIV100
Help Panel SS File	MIV100H

Function Modules MILASK00

API MICM 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.

MIL110 – Ask Infopoint Inquiry

Purpose This program displays MICM Ask Infopoint records based on keyword selection.

Online Information

Panel ID	MIASKINQ
Internal Transaction Code	MI00
Key Panel SS File	MIV110K
Action Panel SS File	MIV110A
Primary Panel SS File	MIV110
Help Panel SS File	MIV110H

Function Modules MILASK00

API MICM 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.

MIL130 – Operator Record

Purpose	This program creates, updates, or deletes MICM Operator Records.	
Online Information	Panel ID	MIOPR
	Internal Transaction Code	MI00
	Key Panel SS File	MIV130K
	Selection Panel SS File	n/a
	Primary Panel SS File	MIV130
	Help Panel SS File	MIV130H
Function Modules	MILOPR00	
API MICM 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.	

MIL140 – Operator Record Merge Mapping Driver

Purpose This program displays a key panel which allows you to request information about a range of operators. After verifying the keys, the program reads the OPR records and builds TSQ keys to be processed by MIL720. Refer to the Procedures chapter of MICM *Procedures Guide 1* for instructions on how to create/change a merge map panel. This program is the first panel in a work unit followed by the merge map panel name to be displayed.

Online Information

Panel ID	MIOPERINQ
Internal Transaction Code	MI00
Key Panel SS File	MIV140K
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	MIV140H

Function Modules None

API MICM Records

Ext Record Code	Name	Description
OPR	MIOPR-RECORD	Operator Record

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.

MIL150 – Maintenance History Merge Mapping Driver

Purpose This program displays a key panel which allows you to request Maintenance History records. After verifying the key, the program reads the HST records and builds the TSQ keys processed by MIL720. This program is the first panel in a work unit followed by the merge map panel name to be displayed.

Refer to the Procedures chapter of MICM *Procedures Guide 1* for instructions on how to create/change a merge map panel.

Online Information

Panel ID	MIOPERINQ
Internal Transaction Code	MI00
Key Panel SS File	MIV150K
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	MIV150H

Function Modules None

API MICM Records

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

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.

MIL170 – Operator Profile Driver

Purpose This program creates the key information to display security records for an operator. A single institution or multiple institutions may be requested.

Online Information

Panel ID	MIOPPRPRO
Internal Transaction Code	MI00
Key Panel SS File	MIV710K
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	MIV170H

Function Modules None

API MICM Records

Ext Record Code	Name	Description
OPA	MIOPA-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record
OPR	MIOPR-RECORD	Operator Record
ORA	MIORA-RECORD	Operator Record Authorization Profile Record
ORG	MIORG-RECORD	Organization Definition Record
PRD	MIPRD-RECORD	Profile Resource Definition Record

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. CICS type abort only.

MIL171 – List Profiles Having a Requested Transaction Merge Map Driver

Purpose This program creates the key information to display security profiles that contain a requested transaction.

Online Information

Panel ID	MIWHATHA
Internal Transaction Code	MI00
Key Panel SS File	MIV171
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	MIV717H

Function Modules None

API MICM Records

Ext Record Code	Name	Description
PRD	MPRD-RECORD	Profile Resource Definition Record
RLN	MIRLN-RECORD	Resource Description Language Record

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.

MIL172 – List What Transaction an Operator Can Do

Purpose This program creates the records key to display security profiles of operators that can perform the requested transaction.

Online Information

Panel ID	MIWHOCAN
Internal Transaction Code	MI00
Key Panel SS File	MIV172
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	MIV712H

Function Modules None

API MICM Records

Ext Record Code	Name	Description
OPP	MIOPP-RECORD	Operator Profile Authorization Record
PRD	MPRD-RECORD	Profile Resource Definition Record
RLN	MIRLN-RECORD	Resource Description Language Record

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.

MIL173 – IQ Request Definition List

Purpose This creates input to allow MIL720 to produce the IQ Request Definition Listing panel. The program combines the IQ Request Definition and the MICRL-RECORDDESC field from the Record Language Table into a temporary storage record.

Online Information

Panel ID	MIRDMLST
Internal Transaction Code	MI00
Key Panel SS File	MIV173
Selection Panel SS File	n/a
Primary Panel SS File	MIV720
Help Panel SS File	MIV713H

Function Modules None

API MICM Records

Ext Record Code	Name	Description
IRD	MIIRD-RECORD	IQ Request Definition Record
RLN	MIRLN-RECORD	Resource Description Language Record

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.

MIL200 – MICM Forms Module (New/Maintenance)

Purpose This module creates, edits, updates, and deletes most MICM Master File records. Maps MIV2001 through MIV2011 display the panels containing record information.

The table information is used to access the MICM Master File records, to access and edit the fields on these records, and to handle these fields as they are sent to and from the panels. For a detailed description of the table records, refer to the description of MI-TABLREC in the Application Files chapter of this guide.

Online Information

External Transaction Code	MIFM
Internal Transaction Code	MI00
Panel ID	MIV2001, MIV2002, MIV2003, MIV2004, MIV2005, MIV2006, MIV2007, MIV2008, MIV2009, MIV2010, MIV2011

Function Modules None

API MICM Records None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MITABL	Table File	Input	Disk	Random	4080
MIMAST	MICM Master File	I/O	Disk	Random	Variable
MILOGG	Log File	Output	Disk	Sequential	307

Abort Information None

MIL700 – Application Management Table File Maintenance

Purpose This program is used to add, change, delete, or copy Application Management Table records.

Online Information

Panel ID	MIAMTTM
Internal Transaction Code	MI00
Key Panel SS File	MIV700K
Primary Panel SS File	MIV700
Help Panel SS File	MIV700H

Function Modules None

API MICM Records

Ext Record Code	Name	Description
CFL	MICFL-RECORD	Field Language Table Record
CLD	MICLD-RECORD	Logical Database Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSK	MICSK-RECORD	Key Field Definition Record
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access	Record Length
MIAMTT	Application Management Table	Output	Disk	Sequential	6095

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.

MIL710 – Application Management Panel Processor

Purpose This program issues GET INFO API verb to get the Panel Data Blocks. It uses the Short Name to retrieve, change, copy, add, and delete records from the database using the API or key VSAM files. Mapping of data to and from the panel is accomplished by matching the Short Name to the field number on the MIAMTT (Application Management Table File). Panel display can be edited using the Print Format Code from the MIAMTT file. Numeric panel fields can contain editing characters.

Any file or record that is defined to the Application Management Table can be displayed or maintained with this program.

Online Information

Panel ID	Defined with RDC
Internal Transaction Code	MI00
Key Panel SS File	Defined on TDF
Primary Panel SS File	Defined on TDF
Help Panel SS File	Defined on TDF

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
M01	MI2001-RECORD	2001 – Branch Information Record
M11	MI2011-RECORD	2011 – Online Messages Record
M18	MI2018-RECORD	2018 – Currency Information Record
M22	MI2022-RECORD	2022 – Language Table Record
M23	MI2023-RECORD	2023 – Product Code Information Record
M71	MI7001-RECORD	7001 – Translation Tables Record
M85	MI0242-RECORD	0242 – Officer/Employee Information Record

Files

Name	Description	Opened	Media	Access	Record Length
MIAMTT	Application Management Table	Output	Disk	Sequential	6095

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.
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MIL715 – Online Edit Interface with AMT

Purpose This program performs field editing based on codes from the Application Management Table.

This program can only process Application Management Table field numbers from 001 to 500. For new programs, use program MIL716 which can process all Application Management Table field numbers.

This program is invoked with a EXEC CICS LINK with a communication area defined with copybook MISAMT00.

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules None

API MICM Records

Ext Record Code	Name	Description
M01	MI2001-RECORD	2001 – Branch Information Record
M11	MI2011-RECORD	2011 – Online Messages Record
M22	MI2022-RECORD	2022 – Language Table Record
M23	MI2023-RECORD	2023 – Product Code Information Record
M71	MI7001-RECORD	7001 – Translation Tables Record
M85	MI0242-RECORD	0242 – Officer/Employee Information Record

Files

Name	Description	Opened	Media	Access	Record Length
MIAMTT	Application Management Table	Output	Disk	Sequential	6095

Abort Information If the panel program detects processing irregularities, it returns to the caller.

MIL716 – Online Edit Interface with AMT

Purpose This program performs field editing based on codes from the Application Management Table.

This program is invoked with an EXEC CICS LINK with a communication area defined with copybook MISAMT01.

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules None

API MICM Records

Ext Record Code	Name	Description
M01	MI2001-RECORD	2001 – Branch Information Record
M11	MI2011-RECORD	2011 – Online Messages Record
M22	MI2022-RECORD	2022 – Language Table Record
M23	MI2023-RECORD	2023 – Product Code Information Record
M71	MI7001-RECORD	7001 – Translation Tables Record
M85	MI0242-RECORD	0242 – Officer/Employee Information Record

Files

Name	Description	Opened	Media	Access	Record Length
MIAMTT	Application Management Table	Output	Disk	Sequential	6095

Abort Information If the panel program detects processing irregularities, it returns to the caller.

MIL720 – Merge Mapping Panel Processor

Purpose This program displays panels using the Application Management Table File, the Merge Map File, and a temporary storage area containing Records keys. MIL720 must be run within a work unit. This work unit must contain a program in front of this transaction to build a temporary storage area with the records keys. When finished, MIL720 automatically deletes the temporary storage area.

There are 2 methods for testing Merge Map Panels.

1. Enter only the panel name. MIL720 reads all records with that panel name, creates keys, bypasses retrieval of the temporary storage, and displays the panel with nines in the numeric fields and dashes in the non-numeric fields. Alternately, you can use the default Merge Maps by entering the panel name and the word **DEFAULTS**. For example: **CMPRO6,DEFAULTS**.
2. Enter the panel name, record code application code, and the record key. For example: **CMPRO6,DDM,D,123456**.

Online Information

Panel ID	Defined with RDC
Internal Transaction Code	MI00
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	MIV720
Help Panel SS File	Defined on TDF

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
M23	MI2023-RECORD	2023 – Product Code Information Record
M71	MI7001-RECORD	7001 – Translation Tables Record

Files

Name	Description	Opened	Media	Access	Record Length
MIAMTT	Application Management Table	Output	Disk	Sequential	6095

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.

MIL740 – Panel Processor

Purpose	<p>This program uses the GET INFO API verb to get the Panel Data Blocks for the key and data panels. It performs sending and receiving panels, breakaway, help, building command line, building Program Function key lines, and work unit processing.</p> <p>Links are made to the program defined in MITDF-GEN-PGRMID of the Transaction Definition record. Storage address of WS-PFKEYS, key panel data area, key panel data block, panel data area, and panel data block are passed in the common communication area (Copybook SSL1112).</p>	
Online Information	Panel ID	Defined with RDC
	Internal Transaction Code	Defined on the Transaction Definition
	Key Panel SS File	n/a
	Selection Panel SS File	n/a
	Primary Panel SS File	n/a
	Help Panel SS File	Defined on TDF
Function Modules	None	
API MICM Records	None	
Files	None	
Abort Information	<p>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.</p>	

MIL750 – Generic Merge Map Driver

Purpose	This program creates the records key to display any record or records from an API record or VSAM file using Merge Mapping. It issues the GET INFO API verb to get the Panel Data Blocks for the key panel. It uses the Short Name to retrieve the record keys. Mapping of data from the panel is accomplished by matching the Short Name to the field number on the MIAMTT (Application Management Table File). Numeric panel fields can contain editing characters.	
Online Information	Panel ID	Defined with RDC
	Internal Transaction Code	MI00
	Key Panel SS File	Defined on the TDF
	Selection Panel SS File	n/a
	Primary Panel SS File	n/a
	Help Panel SS File	Defined on the TDF
Function Modules	None	
API MICM Records	Any API record	
Files	Any VSAM file	
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.	

MIL780 – Events Online Processor

Purpose

This program processes the event request. It reads the Application Management Table records and calls program MIB785 (Events Message Formatter). It dynamically acquires the appropriate amount of storage to contain the formatted message and returns the address of storage location where the event message is located. The address of this area is returned as a pointer in the MIBEM-AREA. The caller must test the MICM Event Message Status (MIBEM-STAT) for a good return code (value 00) before sending the message to the Unicenter Event Manager.

The event is filtered by field, as determined by the MICM Application Management Table (AMT) defined for the API record ID. The AMT User's Code field controls which fields are processed. If the MICM Event Message Processor Record Function is set to 'M', the before/after records are compared, and if different, are processed. The type of editing performed is as follows:

- E** No editing. Do not suppress leading zeros and trailing spaces.
- N** Normal numeric editing controlled by the Print Format Code on the Application Management Table.
- S** Suppress leading zeros and trailing spaces. Fields of all zeros contain one zero, and fields of all spaces contain one space.

If the User's Code is not 'E', 'N' or S, the field is not included in the event message whether or not the value has changed. The record key fields as indicated by the AMT Field Entry are always included in the event message.

The following three storage addresses are passed in the Communication Area to this program:

MIBEM-AREA	Address
BEFORE-IMAGE	Address (4096K maximum length)
AFTER-IMAGE	Address (4096K maximum length)

The AMT Record ID, AMT Application ID, and function code are passed to the called program. All other fields in the MIBEM-AREA are return values. The before image and/or after image is passed as determined by the maintenance function. The after image is only required when a modify (M) function is being processed.

Refer to the Event Manager Message Processor call block for detail information about the call parameters. The following is an example of code that could be used:

```

01  BICREVT.
    COPY BICREVT.
01  MIBEM-RECORD.
    COPY MIBEM.
01  LOG-REC-BEFORE          PIC X(4096) .
01  LOG-REC-AFTER          PIC X(4096) .
01  WS-COMMAREA.
    03  COM-MIBEM-RECORD    POINTER.
    03  COM-LOG-REC-BEFORE  POINTER.
    03  COM-LOG-REC-AFTER   POINTER.

LINKAGE SECTION.
01  MIBEM-MESSAGE          PIC X(65536) .

PROCEDURE DIVISION.
*   Get address for call block
    CALL 'BIRPADRI' USING
        MIBEM-RECORD
        COM-MIBEM-RECORD.
    CALL 'BIRPADRI' USING
        LOG-REC-BEFORE
        COM-LOG-REC-BEFORE.
    CALL 'BIRPADRI' USING
        LOG-REC-AFTER
        COM-LOG-REC-AFTER.

*   Calling BizWorks Event Batch Message Processor
    MOVE 'FAD' TO MIBEM-AMT-REC-ID.
    MOVE 'F' TO MIBEM-AMT-APPL.
    MOVE 'M' TO MIBEM-FUNC.
    EXEC CICS LINK
        PROGRAM('MIL780')
        COMMAREA(WS-COMMAREA)
        LENGTH(LENGTH OF WS-COMMAREA)
        NOHANDLE
        END-EXEC
    IF EIBRESP IS NOT EQUAL TO DFHRESP(NORMAL)
        GO TO ABORT-EXIT.
    SET ADDRESS OF MIBEM-MESSAGE TO MIBEM-MESSAGE-ADDR.
    IF MIBEM-STAT EQUAL TO ZEROS
        GO TO CALL-EVENT-SERVER.
    IF MIBEM-STAT EQUAL TO 23
        GO TO NO-EVENT.
    GO TO ABORT-EXIT.

CALL-EVENT-SERVER.
    MOVE REQ-PUT TO EVT-REQ-VERB.
    MOVE MIBEM-MESSAGE-LGTH TO EVT-MSG-LENGTH.
    CALL 'BISEVT' USING
        BICRPSB
        BICRSRB
        BICREVT
        MIBEM-MESSAGE.
    IF MIBEM-MESSAGE-ADDR IS NOT EQUAL TO NULL
        EXEC CICS FREEMAIN
            DATAPOINTER(MIBEM-MESSAGE-ADDR)
            NOHANDLE
        END-EXEC
    SET MIBEM-MESSAGE-ADDR TO NULL.
    IF EVT-STAT IS NOT EQUAL TO SPACE
        GO TO TAKE-ACTION.

```

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access	Record Length
MIAMTT	Application Management Table	Input	Disk	Sequential	6095

Abort Information

If the program detects a processing irregularity, it passes back one of the following abort codes in field MIBEM-MICM-ABORT. The caller is responsible for displaying all diagnostic information in the Event Manager Message Processor call block.

Code	Description
1001	CICS GET main error.
3057	Error on MIAMTT.
3072	Record on MIAMTT not found.
3081	I/O error encountered on CSR.
3086	Invalid Event Manager Message Processor call block. First 8 positions must be equal to '**MIEM**'.

MIL900 – Transient Data Queue Message Writer

Purpose

MIL900 is the message log writer program for the online applications. This program writes messages to transient data queue, MILG, which is set up as an indirect queue with an indirect name of MLOG. The MLOG queue is shipped as an extra partition queue with a DS name of MILOG, which needs to be set up as a sequential variable record output file in the CICS startup JCL. The following is a sample of the JCL.

```
//MILOG DD SYSOUT=*,DCB=(DSORG=PS,RECFM=V,BLKSIZE=136)
```

The following is the CICS definition for the Transient Data Queues:

```
DEFINE TDQUEUE(MLOG) GROUP(MI51TEST)
  DESCRIPTION(Infopoint-MICM Message Log)
  TYPE(EXTRA) DATABUFFERS(10) DDNAME(MILOG)
  DSNAME(MILOG)
  ERROROPTION(IGNORE) OPENTIME(INITIAL)
  TYPEFILE(OUTPUT)
  RECORDSIZE(00132) BLOCKSIZE(00000)
  RECORDFORMAT(VARIABLE)
  BLOCKFORMAT(UNBLOCKED) DISPOSITION(SHR)
DEFINE TDQUEUE(MILG) GROUP(MI51TEST)
  DESCRIPTION(Infopoint-MICM Indirect Message Log)
  TYPE(INDIRECT) INDIRECTNAME(MLOG)
```

MIL900 is invoked with a CICS link command and message information is passed in the communication area. Copybook MIW900 is used for mapping the communication area. The number of lines logged will vary. The prefix information on the first line contains a system identifier, date, time, and task number. The prefix information on any additional lines contains only the task number. Information logged is diagnostics or can be a one-line, eighty-position message of any text.

Use the following CICS command to link this program.

```
EXEC CICS LINK
  PROGRAM('MIL900')
  COMMAREA(MIW900-COMM-AREA)
  LENGTH(LENGTH OF MIW900-COMM-AREA)
  NOHANDLE
  END-EXEC.
```

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel BMS Map	n/a
Help Panel SS File	n/a

Function Modules None

API MICM Records

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

Files None

Abort Information None

SSL010 – Host Data Transfer Function Message Processor

Purpose This program handles all processing requests to function modules. It receives the Host Data Transfer Function Message Incoming by issuing a CICS RECEIVE command. After processing the request, the program sends back the Host Data Transfer Function Message Outgoing by issuing a CICS SEND command.

If a CICS LINK invokes this program, DFHCOMMAREA must contain the Host Data Transfer Function Message Incoming. After processing, DFHCOMMAREA contains the Host Data Transfer Function Message Outgoing and returns to the caller with a CICS RETURN command.

The size of the DEF COMMAREA can be allocated in 1024 byte increments. If the caller knows that 10280 is not needed, a smaller area should be used.

Also, the program can be invoked with a CICS START TASK with data that contains the Host Data Transfer Function Message Incoming in the data area. After processing the transaction, the program returns to CICS, if the field SLDSI-CICS-TC contains spaces. Otherwise, the program issues a CICS START TASK with data that contains the Host Data Transfer Function Message Outgoing in the data area, to the transaction found in SLDSI-CICS-TC.

The function being processed is determined by the code found in SLDSI-AMT-REC-ID and SLDSI-AMT-APPL. This code is the key to the Application Management Record that defines the layout to the Function's Message and the function program name to process a given request. Refer to the application for required fields and the Application Management Table for field numbers.

If any errors are found, SSL010 performs initial editing of the message and returns without processing the function program. If an error is found during the initial editing, a 'D' in SLDSO-FUNC-ERROR is indicated. A 'Y' in SLDSO-FUNC-ERROR indicates errors found during function processing.

Message definitions, on the Application Management File, contain the following explanations for some of the Entry Type Code. These codes are:

- F** Data change Group. The record length contains the length of the data change area. When the data change area is greater than 80 for 1 record, multiple entries are used.
- K** Record area. The help name is used to define the AMT key (e.g., RRRR000A).
- L** Defines the Data Change Flag for SSLCOMM-CIFAC.
- M** Data change Flag. The help name is used to define the record and field number (e.g., FRRRFFFA).
- O** Defines the Data Change Flag for SSLCOMM-FUNC.

This program has a working storage area greater than 64K, it requires the DATALOCATION OF ANY statement in the Processing Program Table if using CICS 3.0 or later, and must be compiled with the DATA(31) and TRUNC(OPT) options.

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules

Indicated on the Application Management Table.

API MICM Records

Ext Record Code	Name	Description
M11	MI2011-RECORD	2011 – Online Messages Record
M73	MI0404-RECORD	0404 – Online Abort Messages Record
M74	M1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
OPA	MIOPA-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIAMTT	Application Management Table	Input	Disk	Sequential	Variable
SLDEBUG	Debug File	Output	Disk	Random	Variable

Abort Information

See the MICM online abort entries Record 0404.

SSL020 – Logo/Menu Intercept

Purpose	This program is used set the value of 'M' in COM-CTLPGRM-ROUTER and to transfer control to SSL100. Its purpose is an interface for programs that have not been changed to transfer control directly to SSL100.	
Online Information	Panel ID	None
	Internal Transaction Code	None
	Key Panel SS File	n/a
	Selection Panel SS File	n/a
	Primary Panel SS File	None
	Help Panel SS File	None
Function Modules	None	
API MICM Records	None	
Files	None	
API Records	None	
Abort Information	None	

SSL100 – Control

Purpose

SSL100 is the control program for the Infopoint online systems. SSL100 receives control from SSL002I. SSL002I receives control from CICS through the external transaction code being entered on the terminal. This transaction has been previously defined in the CICS Program Control Table.

If only the external transaction code for MICM file maintenance is entered on the terminal, SSL100 displays the transaction key panel using map SSV100, which shows the key elements required for this transaction. The key is verified for numeric or alphanumeric and valid values.

The information about the transaction module to be used in processing the transaction is obtained from Resource Description (RDC) and Transaction Definition (TDF) records.

If the transaction to be processed is the signon, control is transferred to the signon module in order to verify the accessibility of the operator to the online systems and to obtain the operator's information from the Operator Record.

A menu is generated in temporary storage from data obtained from these records. Operator security is controlled by controls specified in Operator Authorization (OPA), Operator Profile Authorization (OPP), Profile Resource Definition (PRD), and Operator Record Authorization records. SSL100 verifies the time limit established for the operator and verifies the program security and access versus the operator's security and access.

The COMMAREA is completed with the corresponding information that the transaction module requires to process the transaction. Each time SSL100 is entered, security is validated for the program as well as the operator. Temporary storage is updated with all necessary security controls and the 'last time accessed' each time SSL100 is entered.

User violations against the Infopoint online applications are logged for reporting purposes when the operator's security does not allow access to the program.

Note: If the signon external transaction code 'SGON' is changed by the user, the value of 'WS-SIGNONTRN', copybook SLW003, must also be changed.

If the signoff external transaction code 'SGOF' is changed by the user, the value of 'WS-SIGNOFFTRN', copybook SLW003, must also be changed.

If the general form external transaction code 'MIFM' is changed by the user, the value of 'WS-GENFORMTRN', copybook SLW003, must also be changed.

If the menu external transaction code 'MENU' is changed by the user, the value of 'WS-MENUTRN', copybook SLW003, must also be changed.

If the change institution external transaction code 'CHNG' is changed by the user, the value of 'WS-CHGBNKTRN', copybook SLW003, must also be changed.

BUILD-KEY SECTION

This area of the program builds the keys needed to flow between panel programs within work-units. The program reads MICM Record 2012 to determine the key requirements of the panel to receive control. The program will build the required fields based on information present on the command line or the COMM-AREA.

This section receives control when COM-CTLPGRM-ROUTER is equal to 'K'.

MENU-ROUTINE SECTION

This area of the program displays the operator menu or the TriSyn Group logo. The logo can be changed by the user to display the institution's logo by replacing the MIVS21 SS File.

This section receives control when COM-CTLPGRM-ROUTER is equal to 'M' or 'R', or when the MENU transaction has been entered.

Online Information

Panel ID	MENU/MIFM/INFP
Internal Transaction Code	MI00
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	SSV020, SSV021 and SSV100
Help Panel SS File	SSV020H

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
M11	MI2011-RECORD	2011 – Online Messages Record
M12	MI2012-RECORD	2012 – Online Key Structure Record
PRD	MIPRD-RECORD	Profile Resource Definition Record
RDC	MIRDC-RECORD	Resource Description Record
SOP	MISOP-RECORD	System and Security Options Record
TDF	MITDF-RECORD	Transaction Definition Record
WKU	MIWKU-RECORD	Work Unit Definition Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MILOGG	Log File	Output	Disk	Sequential	307

Abort Information	If the panel program detects processing irregularities, it transfers control to SSL900 and 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 API server.
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SSL110 – Signon and Change Institution

Purpose

SSL110 is the signon and change institution program for the Infopoint online applications. SSL110 receives control from the control program. It uses map SSV110 to display the Infopoint signon screen. The key consists of the operator ID, password, and institution. The Operator Record is read to verify the operator's signon and to set the COMMAREA with the operator's information. MICM Record 1001 also is read to obtain the institution's name, which is displayed on every panel.

A temporary storage record with the key of MIOPtttt is written. This record indicates that this terminal (tttt) is signed on. This record contains information such as current data, operator ID, institution name, etc. This temporary storage record is kept until the signoff transaction is processed. The signon information is logged. If the signon information is incorrectly entered more than 3 consecutive times, it is logged as a user violation. Menu and all appropriate sub-level menus are built in temporary storage. The temporary storage key MIMNtttt is generated, containing the names of the main menu and sub-menus. Temporary storage records with keys of MI01tttt to MI99tttt are written for the main menu and sub-menus. These menus may be kept in main storage or auxiliary storage.

SSL110 verifies that the Institution Control File has been updated. If the current date is greater than the date in the Institution Control File, an abort message is displayed and the processing is terminated. The institution is verified with the Operator Authorization record (OPA). An operator can change institutions after they have signed on. When this is requested, the program verifies access to the new institution, signs off the operator from the old institution, and then signs on the operator to the new institution.

Records are added to MITRMID if the Terminal ID File Option field on MISOP (System and Security Options Record) is set to 'Y'.

Online Information

Panel ID	SGON
Internal Transaction Code	MI00
Key Panel SS File	SSV110
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
M14	MI2014-RECORD	2014 – MICM Institution Parameters Record
M18	MI2018-RECORD	2018 – Currency Information Record
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
MUD	MIMUD-RECORD	Menu Definition Record
OPA	MIOPA-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record
OPR	MIOPR-RECORD	Operator Record
PRD	MIPRD-RECORD	Profile Resource Definition Record
SOP	MISOP-RECORD	System and Security Options Record

Files

Name	Description	Opened	Media	Access	Record Length
MITRMID	Terminal ID File	O/I	Disk	Sequential	4
MILOGG	Log File	Output	Disk	Sequential	307

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.

SSL120 – Signoff

Purpose

SSL120 is the signoff module for the Infopoint online applications. SSL120 receives control from the control program. Operator Record (OPD) is read to obtain the operator's name for reporting purposes.

SSL120 passes the appropriate information to the logo module to differentiate a forced signoff from the normal signoff. Temporary main storage is deleted for the terminal.

Records are deleted from MITRMID if the Terminal ID File Option field on MISOP (System and Security Options Record) is set to 'Y'.

Online Information

Panel ID	SGOF
Internal Transaction Code	MI00
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
M26	MI2026-RECORD	2026 – TSQ Management Record
OPR	MIOPR-RECORD	Operator Record

Files

Name	Description	Opened	Media	Access	Record Length
MITRMID	Terminal ID File	O/I	Disk	Sequential	4
MILOGG	Log File	Output	Disk	Sequential	307

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.

SSL124 – Delete Orphaned Temporary Storage Driver

Purpose This program is part of the Sign-on Expiration Time Test Program. It invokes SSL125 or SSL126 with a CICS link, and shows the results of Temporary storage records that were deleted.

To invoke this program and link to SSL125, type **MIDQ** on a blank CICS screen.

To invoke this program and link to SSL126, type **MIDQ,SSL126** on a blank CICS screen.

Online Information

Panel ID	N/a
Internal Transaction Code	MIDQ
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules None

API MICM Records None

Files None

Abort Information CICS type abort only.

SSL125 – Delete Orphaned Temporary Storage Driver

Purpose This program interrogates the MICM signon temporary storage record SSOPtttt to determine whether the time has expired. If it has, it links to SSL120 and performs operator signoff.

This program issues a start task to transaction code MITT every 15 minutes. If a different time is required, change the value of WS-START-INTERVAL.

This program should be placed into the PLT, but if not, enter transaction code MITT to start it.

MRO Consideration

This program is designed to run in the same region as the Temporary Storage Queues are maintained. It requires availability of the Temporary Storage Records to be deleted.

Online Information

Panel ID	n/a
Internal Transaction Code	MITT
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules None

API MICM Records None

Files None

Abort Information CICS type abort only.

SSL126 – Delete Orphaned Temporary Storage

Purpose This program interrogates the MICM signon temporary storage record MIOPTttt to determine whether the inactive time has expired. If it has, it links to SSL120 and performs operator signoff.

This program issues a start task to transaction code MIQD every 15 minutes. If a different time is required, change the value of WS-START-INTERVAL.

This program should be placed into the PLT, but if not, enter transaction code MIQD to start it.

This program is an alternative program to use when SSL125 cannot be used to prohibit installation standards or CICSPLex problems.

The program reads the MITRMID file which contains a 4- position record with the terminal ID as its key. The records are added to this file by program SSL110 during signon and deleted by program SSL120 during signoff. The Terminal ID File Option field on MISOP (System and Security Options Record) must be set to 'Y'.

Online Information

Panel ID	n/a
Internal Transaction Code	MIQD
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules None

API MICM Records None

Files

Name	Description	Opened	Media	Access	Record Length
MITRMID	Terminal ID File	O/I	Disk	Sequential	4

Abort Information CICS type abort only.

SSL130 – Work Unit Processor Intercept

Purpose	This program is used to set the value of 'K' in COM-CTLPGRM-ROUTER and to transfer control to SSL100. Its purpose is an interface for programs that have not been changed to transfer control directly to SSL100.	
Online Information	Panel ID	None
	Internal Transaction Code	None
	Key Panel SS File	n/a
	Selection Panel SS File	n/a
	Primary Panel SS File	None
	Help Panel SS File	None
Function Modules	None	
API MICM Records	None	
Files	None	
Abort Information	None	

SSL140 – Change/Cross Institution Interface

Purpose

SSL140 processes security requests for changing an institution, validating an institution, crossing institutions, sign-on, and transaction authorization. When performing a change institution request, program SSL110 is linked to and all menus are rebuilt for the new institution. Also, during changing institution, the transaction code in COM-EXTERNALID is validated if the Operator Profile had changed.

To use this program, perform an EXEC CICS LINK using the standard communication area (Copybook SLS111 or SLS112). Optionally, you can use copybook SLS140 which is designed to be used from the function program or a non-terminal transaction. Set COM-SECURITY-FUNC or SLS140-SECURITY-FUNC to one of the following codes.

Note: This program accepts the following two different communication record formats:

- Copybook SLS112 is used for Functions 'C' (Change Institution), 'V' (Validate Institution) and 'S' (Transaction Authorization). The operator must be able to sign on from a terminal using MICM transaction SGON.
- Copybook SLS140 is used for the following functions *all* performed without using a MICM transaction SGON: 'P' (Signon), 'O' (Signoff), 'S' (Validate an institution, and 'X' (Cross institution).
 - C** For Change Institution. Enter the new institution number in COM-INST. Program SSL110 is linked to and all menus are rebuilt for the new institution. The transaction code in COM-EXTERNALID is validated if the Operator Profile changed. During this process, the Cross Institution temporary storage record beginning with 'MIOH' is deleted.
 - O** Signoff. Deletes the MIOH Signon record.
 - P** Perform the Non-SGON Signon. Validates the operator, operator's password, institution number, and transaction code. Also, it populates the operator record area and new fields using information found on MICM Records 1001, 2014, 2018 and MIORG. If the option for MICM in the External Security Control Table, CGSIALST, is set to external, the operator and password are validated with the external security manager (RACF, CA-TOPSECRET). A temporary storage record beginning with 'MIOH' is created to maintain signon information. This function is used when transactions do not originate from the terminal signon to MICM. After signing on with the 'P' function, if an institution change is required, the new institution number is added to SLS140-INST.
 - S** For Transaction Authorization. Enter the transaction code in COM-EXTERNALID or SLS140-EXTERNALID. When entering **S** without using the 'P' function first, the 'P' function is automatically performed first.

- V For Validate Institution. Place the new institution number into COM-INST.
- X For Cross Institution. Enter the institution number of the second institution in the Institution Number Two field. When completed successfully, the Organization ID (alias File Set Codes) field will contain the second institution's file suffixes. Cross institution validates the transaction code for Institution 2 and populates the operator record area and new fields using information found on MICM Records 1001, 2014, 2018 and MIORG. The operator must sign on to MICM using the normal MICM transaction code SGON. A temporary storage record beginning with 'MIOH' is created to house the MIOA profiles used by SLS150 for field/record security. When the transaction is completed, it is recommended to change the Institution Number field back to the original institution number or set to '-1' and link again to SSL140 to delete the temporary storage record beginning with 'MIOH'.

Upon returning, if COM-ABORT or SLS140-ABORT is not equal to zero, then abort processing should be performed. Next test COM-SECURITY-FUNC or SLS140-SECURITY-FUNC for a good return code. The following codes are returned.

- A Abort in either SSL140 or SSL110.
- B Invalid code in COM-SECURITY-FUNC or SLS140-SECURITY-FUNC.
- G Function requested was successful.
- I Institution was not authorized. COM-MSGNBRG or SLS140-MSGNBRG will have the key for MICM Record 2011. This message should be read and displayed.
- O Invalid Operator. Operator not found on MICM or External Security Manager.
- P Invalid Password. Password match not found on MICM or External Security Manager.
- T Transaction was not authorized. COM-MSGNBRG will have the key for MICM Record 2011. This message should be read and displayed.

<p style="text-align: center;">Caution</p>

<p>Be sure to restore the correct institution number when there is an error condition returned.</p>

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
BNK	MIBNK-RECORD	Institution Control Record
M14	MI2014-RECORD	MICM Institution Parameters Record
M18	MI2018-RECORD	Currency Information Record
M74	MI1001-RECORD	Institution Information Record
OPA	MIOPA-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record
OPR	MIOPR-RECORD	Operator Record
PRD	MIPRD-RECORD	Profile Resource Definition Record

Files

None

Abort Information

If the panel program detects processing irregularities, it returns to the caller.

SSL150 – Record/Field Authorization

Purpose SSL150 performs record field authorization. This program is invoked with an EXEC CICS LINK. The communication area is 4 positions long and must contain the address of a storage area in the format described by copybook SLS150. The rules for authorization are defined with MIORA, Operator Record Authorization Profile Record. If there is no MIORA Record for a field, then there is no restriction. It retrieves the Operator Record Authorization Profiles from the temporary storage record beginning with MIOP or MIOH. If the MIOH is found and the institution number is the same as the institution number beginning to be processed, it deletes the MIOH record and uses the profile defined in the MIOP Record. If no MIOP or the MIOH records are not found, the MICM security records needed to develop the profile are read.

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
OPA	MIOPA-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record
OPR	MIOPR-RECORD	Operator Record
ORA	MIORA-RECORD	Operator Record Authorization Profile Record
SOP	MISOP-RECORD	System and Security Options Record

Files

None

Abort Information

If the panel program detects processing irregularities, it returns to the caller.

SSL160 – Record/Field Authorization Security Interface

Purpose SSL160 performs record field authorization. This program is invoked with an EXEC CICS LINK. The communication area is described by copybook SLS160. The address of the record being processed and the Application Program Interface (API) code or the key to the Application Management Table (AMT) is passed. The process is to read the AMT and populate the SSLS150 call block, copybook SLS150, link to SSL150 and pass back the result to the caller. The address of an area in the format of copybook SLS160R is returned to the caller. The caller then needs to apply the action dictated to secure the record.

Online Information

Panel ID	n/a
Internal Transaction Code	n/a
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel SS File	n/a
Help Panel SS File	n/a

Function Modules None

API MICM Records

Ext Record Code	Name	Description
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access	Record Length
MIAMTT	Application Management Table	I/O	Disk	Random	Variable

Abort Information If the program detects processing irregularities, it returns to the caller.

SSL200 – Log

Purpose This program performs the logging for the Infopoint online applications. SSL200 receives control from every program or transaction module that logs information. This module returns control to the calling program or transaction module. SSL200 accesses the log area as the COMMAREA to create the corresponding Log Record.

Online Information None

Function Modules None

API MICM Records None

Files

Name	Description	Opened	Media	Access	Record Length
MILOGG	Log File	Output	Disk	Sequential	307

Abort Information None

SSL900 – Abort

Purpose

SSL900 is the abort program for the Infopoint online applications.

SSL900 receives control from every program or transaction module that has received an invalid key or has detected a condition that does not allow it to continue processing the transaction.

SSL900 uses map SSV900 to display the external transaction code being processed, its corresponding key, and up to 3 lines of abort message. MICM Record 0404 is accessed to obtain the abort message. When this record is not available, spaces are moved into the lines of the abort message.

When the field COM-ABTYPE has been set to a 'Y', a global abort will be issued, which will cause a CICS rollback.

Online Information

Panel ID	n/a
Internal Transaction Code	MI00
Key Panel SS File	n/a
Selection Panel SS File	n/a
Primary Panel BMS Map	SSV900
Help Panel SS File	n/a

Function Modules

None

API MICM Records

Ext Record Code	Name	Description
M73	MI0404-RECORD	0404 – Online Abort Messages Record

Files

None

Abort Information

MINC indicates that SSL900 was invoked by a program without a communication area.

Function Modules

This section describes the MICM 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	Lists the MICM API records, in alphanumeric order by external record code, accessed by the program.
Message Area Layouts	Describes the message area passed between the function module and the panel program. See the Message Area Layouts 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 5 parts:

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

Note: MICM Record MISCNT00 has been created for the following Message Area Layout. This record forces the beginning of the Message Area Control Block to be the same for all function messages and provides a filler area for the addition of any new fields.

The prefix begins and ends with a colon so that each application can replace this prefix with the appropriate information. The prefix for each field is the function module name without the 'L'. For example, the prefix for each field for function module MILOPD00 would be MIOPD00-.

Controls Portion

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

Field	Description
APIFUNC	Function Control Field. Code that tells the function module which operation to perform. Valid entries are: 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: I Inquire on a record. M Maintain an existing record. N Create a new record.
FUNCTION	Operation Return Function. Valid entries are: b Operation complete. = Duplicate data. E End of data. N Record not found. O Operations error. X Unknown error.

Field	Description
RETURN	Return Code. Code that correlates to the COM-RETURN in the panel program. Valid entries are: E Key validation error. S Selection validation error.
APPL	Numeric Application Code.
CIFAC	Alphabetic Application Code.
UPDATE	Update Code. Code that correlates to the COM-UPDATE code. Valid entries are: N Update not allowed. Y Update allowed.
FILEOPTS	File Set Option. Codes that correlate to COM-FILEOPTS.
OPERID	Operator ID. This is passed to the module from the panel program COM-AREA.
MODELID PROFILE	Model Operator ID. This is passed to the module from the panel program COM-AREA.
EXTERNALID	Panel ID. This is passed to the module from the panel program COM-AREA.
TERMID	Terminal Identification. This is passed to the module from the panel program COM-AREA (COM-EIBTRMID).
WORKID	Work Unit Identification. This is passed to the module from the panel program COM-AREA (COM-WKUNAME).
TRANSTART	Transaction Start Time. This is passed to the module from the panel program COM-AREA (COM-TRANSTART).
APPLSEQ	Application Sequence Number. This is passed to the module from the panel program COM-AREA (COM-APPLSEQ).
SECALT	Alternate Security Code. This is 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.
GLOBAL-CLOSE	Global Close Flag.
ABORT	Abort Code. Four-digit code that correlates to the COM-ABORT.
ABTYPE	Abort Type Code. Code that correlates to the COM-ABTYPE. Valid entry is Y , indicating a global abort.

Field	Description
ABTRACE	Abort Trace Code. Four-digit code that correlates to the COM-ABTRACE.
ABEIBFN	Last CICS Command Code. Code that identifies the last CICS command issued by the task (updated when the requested function is complete).
ABEIBRCODE	CICS Response Code. Code that returns after completing the last CICS command issued by the task.
ABPROGID	Abort Program ID. ID of a program where an abort occurred. It correlates to the COM-ABPROGID.
SRBMDB	API Server Request Block.
USERCNTRL	Panel Program User Controls.
COM-CURNCD	Local Currency Code.
COM-LANG	Language Code.
ABEIBRESP	Response Return Code from Last CICS Command.
ABEIBRESP2	Response Return 2 Code from Last CICS Command.
ABMSG	Additional Message. Additional message displayed on the abort panel.
INST-OPT1	Institution Option 1. Indicates MICM Records 0211 and 2023 are to be processed at the institution level.
INST-OPT2	Institution Option 2. Activates F16 for AMT processing.
INST-OPT3	Reserved.
INST-OPT4	Reserved.
INST-OPT5	Reserved.
COM- PRODCODE	Identifies the product code to which this information applies. Refer to MICM Record 2023 (Product Code) for a list of valid codes.
RESERVED	Reserved for future use.

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).

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 MILOPR00 module, there is a MIOPR-DATE-DCHG data change flag to indicate changes made to the MIOPR00-DATE field.

Miscellaneous Data Portion

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

MIL040 – Create MICM Temporary Storage Table

Purpose This program creates the MICM Temporary Storage Tables and is linked from MIL020, SSL100, SSL110 or SSL150. MIL040 should be placed into the CICS PLT. It creates the Temporary Storage records MIRDC, MITCT, MIORA, MIAOAF, MIFOAS, MI0211, MI2023, MI4005, MI7000 and SSMR7000.

Panel Programs MIBMTABL – Build MICM Temporary Storage Table

API MICM Records

Ext Record Code	Name	Description
M23	MI2023-RECORD	2023 – Product Code Information Record
M45	MI4005-RECORD	4005 – Mapper File Directory Record
M56	MI0211-RECORD	0211 – Application Information Record
M97	MI7000-RECORD	7000 – RCIF Translation Field Table Record
ORA	MIORA-RECORD	Operator Record Authorization Record
ORG	MIORG-RECORD	Organization Definition Record
RDC	MIRDC-RECORD	Resource Description Record
RLN	MIRLN-RECORD	Resource Description Language Record

Files None

Message Area Layout

The message area for MIL040 contains the standard MICM Communication Area. The following field is used to determine the processing performed.

Field	Description
DELETE	Function Code. Valid entries are: B Build temporary storage record. D Delete temporary storage record.

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.

MIL050 – Generic Open and Close Files

Purpose	This program performs generic open, close and/or changing of file attributes. This program is normally invoked with batch program MIR050 using CICS External Interface (EXCI).
Panel Programs	None
API MICM Records	None
Files	All files defined to CICS

Message Area Layout

The communications area for MIL050 is as follows.

Field	Description
NBR-FILES	Number of Files. The number of files requested.
FILES	Files. Occurs 50 times
DDNAME	External File Name.
FILE-FUNC	File Function. Valid entries are: C Close. O Open. R Open as read only. U Open with add, update, and delete.
RESPONSE	CICS EIBRESP.

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.

MILASK00 – Ask Infopoint

Purpose This module retrieves and/or updates MICM Ask Infopoint records.

Panel Programs MIL100 – Ask Infopoint Update
MIL110 – Ask Infopoint Inquiry

API MICM Records

Ext Record Code	Name	Description
ASK	MIASK-RECORD	Ask Infopoint Record
PRD	MIPRD-RECORD	Profile Resource Definition Record

Files None

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. All 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
ASK	MIASK-RECORD	Ask Infopoint Record

Data Change Portion For each field 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.

MILOPR00 – Operator Record

Purpose This module retrieves and/or updates MICM operator records. During a copy operation all Operator Authorization and Operator Profile Authorization records associated with the operator being copied are copied. During a delete operation all Operator Authorization and Operator Profile Authorization records associated to the operator being deleted are deleted.

Function Modules None

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
OPR	MIOPR-RECORD	Operator Record

Files None

Message Area Layout

Controls Portion These fields are detailed at the beginning of this Function Module section. All 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 this guide.

Ext Record Code	Name	Description
OPA	MIOPA-RECORD	Operator Authorization
OPP	MIOPP-RECORD	Operator Profile Authorization
OPR	MIOPR-RECORD	Operator Record

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

Controls Portion

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

Field	Description
APIFUNC	API Function Field. Code that tells the function module which operation to perform. Valid entries are: CPY Copy. Control field MIOPR01-FUNC must contain a value of 'N' and the key of the record being copied must be in MIOPR01-SELECT-KEY. The MIOPR01-GRP-KEY must contain the new record key. DEL Delete. Remove a record. MIOPR01-FUNC must be set to 'D'. UPD Update. Add or maintain record. Performs the following operation based on the value in MIOPR01-FUNC field. M Change. Change a record. N New. Add a new record in the message area. VKL Verify key and/or load. Performs the following operation based on the value in MIOPR01-FUNC field. B Start a browse with the data from the MIOPR01-SELECT-KEY. M Inquiry. Read a single record. N Formats the new record in the message area.

Miscellaneous Data Portion

The following fields are used by the MILOPD00 function module.

Field	Description
END-FILE-INST	End of file and or end institution. This field is a return field only. Valid entries are: b Not at end E At end of file. I At end of institution.
SELECT-KEY	Select key. For browsing operation this field must contain the starting key, and returns the next record on file when the END-FILE INST is set to blank. For the copy operation it must contain the record key to be copy from.

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.

Batch Programs

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

Purpose	Provides a description of the program.
API MICM Records	Lists the MICM API records, in alphanumeric order by external record code, accessed by 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 output by the program.
Control Card	Provides a detailed description of the control card format and options. All the cards are inserted in the job stream after the execute card and before the end-of-data card.
Abort Information	Lists the trace codes and abort codes and a description of the problem encountered. If the program aborts, contact the MICM programmer.
Rerun Procedures	Describes how to rerun a job if a program aborts.

File Handling

The description below only applies to MIBANK, MILOGG, MIMAST, and MITABL files. For information on API files, refer to the Runtime Components *Reference Guide*.

File handling is accomplished through the use of 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 that are passed to the I/O modules. Additionally, there is a 50-byte message area that is used to return any error messages to the calling program. These 4 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 Random. (Default)
- 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 can 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:

- 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.
- =** Duplicate found when attempting an add.

If the call was completed correctly, the first function field is equal to spaces. The other 2 function fields always equal spaces upon completion of the call.

There are 4 I/O modules for the MICM files:

- MIIMAST – Master File
- MIIAMTT – Application Management Table
- MIILogG – Log File
- MIITABL – Table File

The working storage copybooks in the calling program are named:

- MIWMAST – Master File
- MIWAMTT – Application Management Table
- MIWLOGG – Log File
- MIWTABL – Table File

The procedure division copybooks in the calling program are named:

- MIPMAST – Master File
- MIPAMTT – Application Management Table
- MIPLOGG – Log File
- MIPTABL – Table File

Procedure Routines

Routines that are used in multiple places in a program or in multiple programs are isolated into procedure routines as copybooks. These procedure routines can be copied into any program that needs to use them.

Procedure routines that are common to all of the Infopoint applications are included as standard procedure routines. Included are such things as date handling, and printer and heading routines. Each procedure routine copybook contains comments documenting how the routine is used, the fields that are required for the routine to work, and how errors are handled. The following table shows the copybook names, the procedure routines that they contain and its description.

Copybook Names	Procedures Routine	Description
MIP042	BANK-NAME-ADDR-SECTION	Formats a 3 line Institution Name and Address from MICM Record 0001.
MIP065	SET-SECURITY-SECTION	Formats field and screen security based on MICM Records 2003 and 2004.
MIP066	TABLE-VERIFY-SECTION	Verifies codes against the tables in the MICM Record 1005.
MIP787	TABLE-VERIFY	Verifies codes on MICM Record 0231.
MIP887	TABLE-VERIFY	Verifies codes on MICM Record 0231 (API version). Replaces MIP787.
SRP001	JULIAN-365 ROUTINE	Converts an 8-position calendar date to a Julian date.
SRP002	JULIAN-360 ROUTINE	Converts an 8-position calendar date to a 360-day-based on Julian date. The 31st of the month converts to the 30th.
SRP003	CALENDAR-365 ROUTINE	Converts an actual Julian date to an 8-position calendar date.
SRP004	CALENDAR-360 ROUTINE	Converts a 360-day-based Julian date to an 8-position calendar date.
SRP005	ELAPSED-DAYS-365 ROUTINE	Calculates the number of days between 2 actual Julian dates.
SRP006	ELAPSED-DAYS-360 ROUTINE	Calculates the number of days between 2 360 day based Julian dates.
SRP007	DATE-VALIDATION ROUTINE	Validates an 8-position calendar date.
SRP008	DAY-OF-WEEK ROUTINE	Determines the day of the week from a Julian date.

Copybook Names	Procedures Routine	Description
SRP009	NEXT-DATE-365 ROUTINE	Advances an actual Julian date by a specified time period either of days, months, or years.
SRP010	NEXT-DATE-360 ROUTINE	Advances a 360-day-based Julian date by a specified time period either of days, months, or years.
SRP011	CONVERT-6-TO-8 ROUTINE	Converts a 6-position calendar date to an 8-position calendar date.
SRP012	CONVERT-8-TO-6 ROUTINE	Converts an 8-position calendar date to a 6-position calendar date.
SRP013	CONVERT-365-TO-360 ROUTINE	Converts an actual Julian date to a 360-day-based Julian date.
SRP014	CONVERT-360-TO-365 ROUTINE	Converts a 360-day-based Julian date to an actual Julian date.
SRP015	PRINTER ROUTINE	Used for printing and/or microfiche linkage.
SRP016	HEADING ROUTINE	Used to print report headings in the Infopoint standard format for stock paper reports.
SRP017	PRINTER ROUTINE	Used for printing and/or output to fiche. Form codes starting with letters 'A – K' cause a call to the miscellaneous printer sub-routine. 'A – J' prints on alternate printers, 'K' writes to a disk file.
SRP018	VARIABLE-TABLE-SEARCH ROUTINE	Searches a table for a match. Entries in the table can be up to 9 positions long. The table can contain a maximum of 9 entries and 160 positions in total length.
SRP019	LAST-DATE-365 ROUTINE	Backdates an actual Julian date.
SRP020	LAST-DATE-360 ROUTINE	Backdates a 360-day-based Julian date.
SRP021	ACCOUNT-EDIT ROUTINE	Places hyphens in the account according to parameters passed to it. Maximum 10-position account number.
SRP022	NEXT-CYCLE-365 ROUTINE	Advances a date.
SRP023	NAME-ADDRESS ROUTINE	Formats an 8-line name and address from MICM Master File Records.
SRP024	CHECK-WRITER ROUTINE	Translates the digits of an amount to its corresponding name representation.

Copybook Names	Procedures Routine	Description
SRP025	LEFT-JUSTIFY ROUTINE	Left justifies a numeric field and suppresses leading zeros.
SRP026	RIGHT-JUSTIFY ROUTINE	Right justifies a numeric field and inserts preceding zeros.
SRP027	PSEUDO-PRINTER-CLOSE ROUTINE	Contains the necessary instructions causing all pseudo printers opened by 'SRP017' to be closed.
SRP028	DATA-EXCEPTION-DUMP ROUTINE	Contains the necessary instructions causing a data exception dump in the abort routine to assist in problem determination.
SRP029	BATCH ABORT WITH API ROUTINE	Contains the abort logic required to assist in problem determination when program must be terminated abnormally.
SRP030	PARAMETER-SEARCH ROUTINE	Locates 1 parameter at a time from a list of parameters used by the online applications for entering data.
SRP032	MILITARY-TO-CIVILIAN-TIME ROUTINE	Converts a 4 position military time to a 4 position civilian time.
SRP033	ACCOUNT-EDIT ROUTINE	Places hyphens in the account according to parameters passed to it. Maximum 18-position account number.
SRP035	EXPAND-BYTE ROUTINE	Expands a single byte into 8 separate bytes to be used as switches.
SRP036	COMPRESS-BYTE ROUTINE	Compresses 8 separate bytes, used as switches, into a single byte.
SRP037	VARIABLE MOVE-FROM ROUTINE	Moves arrays of variable data to a fixed area using the variable length move routine, 'SRMOVE'.
SRP038	VARIABLE MOVE-TO ROUTINE	Moves data in a fixed area to various length data arrays using the variable length move routine, 'SRMOVE'.
SRP039	RIGHT-JUSTIFY-18	Perform right justification of field having a length of 18 positions.
SRP040	CONVERT-8-TO-5 ROUTINE	Converts an 8-position calendar date to a 5-position calendar date.
SRP041	PRINTER ROUTINE	A printer routine used in report sub-routines.

Copybook Names	Procedures Routine	Description
SRP042	BANK-NAME-ADDR ROUTINE	Formats a 3-line institution name and address with the ZIP code embedded from the MICM Master File Records.
SRP043	BANK-NAME-ADDR ROUTINE	Formats a 3-line institution name and address with the ZIP code embedded from the MICM Master File Records (API version).
SRP044	PRINT-SEGMENTATION ROUTINE	Calls the power segmentation macro for printer forms changes under DOS/VSE.
SRP045	ELAPSED-TIME ROUTINE	Calculates the elapsed time between 2 Julian dates and their respective times.
SRP046	COMPRESS-NAMEADDRESS ROUTINE	Compresses the city, state and ZIP code within an address line for mailing address.
SRP047	STATE-ABBREVIATION ROUTINE	Returns the standard 2-byte state code abbreviation when given a valid ZIP code.
SRP048	CITY-NAME ROUTINE	Retrieves the city from an address line containing city, state and ZIP code.
SRP049	VERIFY-STATEABBREV ROUTINE	Validates the 2-byte state code abbreviation.
SRP052	VERIFY-PROVINCEABBREV ROUTINE	Validates the 2-byte province code abbreviation for Canadian provinces.
SRP053	VERIFY-COUNTRYABBREV	Validates the 2-byte country code abbreviation.
SRP054	FIND-PROVINCENAME ROUTINE	Extracts the province name for Canadian provinces when given the 2-byte province code abbreviation.
SRP055	FIND-COUNTRYNAME ROUTINE	Extracts the country name when given the 2-byte country code abbreviation.
SRP056	NEXT-DATE-BUSINESS ROUTINE	Advances an actual Julian date by the number of business days specified. Holidays are taken into consideration.
SRP058	REFORMAT-NAMELINE ROUTINE	Inserts an asterisk before the customer's last name.
SRP061	UNEDIT-FIELD ROUTINE	Un-edits and right justifies a numeric field and inserts leading zeros.
SRP062	NAME-ADDR-REFORMAT	Formats a 3 line name and address by appending the ZIP code to the third line (3.0 compatible).

Copybook Names	Procedures Routine	Description
SRP063	JULIAN-TO-FIRST ROUTINE	Converts an actual Julian date to the first of the month.
SRP064	LOAD-CIFAPPLTABE	Loads an application table using the MICM Record 0211 (3.0 compatible).
SRP066	NAME-ADDRESS	Procedural copybook link to SRB100, which then links to the appropriate name & address module. An 8-line name & address, a 3 line IRS name & address, or statistical data is returned.
SRP067	RIGHT-JUSTIFY-LONG ROUTINE	Right justifies a field (up to 25 positions) and inserts leading zeros.
SRP068	LEFT-JUSTIFY ROUTINE	Left justifies an alphanumeric field, removing leading zeros and spaces. The field cannot exceed 25 positions.
SRP070	COMPRESS-NEXTKEY ROUTINE	Removes low-values and extra spaces from an 80-position area, leaving data left justified with spaces to the right.
SRP071	GET-MESSAGE ROUTINE	Retrieves online error message from MICM Record 2011.
SRP072	CLOSE-TRANSACTION ROUTINE	Closes panel program and routes to the appropriate panel, menu, or work unit (VS COBOL).
SRP0722	CLOSE-TRANSACTION ROUTINE	Closes panel program and routes to the appropriate panel, menu, or work unit.
SRP073	PANEL-INIT ROUTINE	Generic instruction sections used in panel programs to process screen handling.
SRP074	HELP-RETURN ROUTINE	Contains sections used to route through the processing of online help panels.
SRP079	OPERATOR-DIALOG-SECURITY ROUTINE	Controls operator security to a specified panel program or function module.
SRP080	CALL-PARM-GETTER ROUTINE	Allows users to do simultaneous postings to multiple groups of institutions, even if they exist on separate physical databases.
SRP082	CLOSE-TRANSACTION ROUTINE	Close Transaction (BMS).
SRP083	BREAK-AWAY ROUTINE	Breakaway Routines (BMS).
SRP084	CLOSE-TRANSACTION ROUTINE	Performs normal ending for transaction, and performs work unit processing.

Copybook Names	Procedures Routine	Description
SRP085	HEX-TO-CHARACTER ROUTINE	Translates a string of Hex characters to displayable characters.
SRP086	DEEDIT-CODASYL-DATE ROUTINE	Edits a 10-position alpha data field and converts it to a codasyl date.
SRP087	EDIT-CODASYL-DATE ROUTINE	Converts a 10-position codasyl date into an edited alpha 10-character date.
SRP088	NEXT-CODASYL-DATE ROUTINE	Advances a date by performing the standard NEXT-DATE-365 routine or by using 4 days.
SRP089	DEEDIT-AMOUNT ROUTINE	De-edits the amount fields.
SRP090	EDIT-AMOUNT ROUTINE	Edits the amount fields.
SRP091	CURRENCY-CONVERT ROUTINE	Converts the currency fields.
SRP092	LAST-CODASYL-365 ROUTINE	Backs up a codasyl date by the time period.
SRP093	GET-FILE-ORGANIZATION ROUTINE	Used by batch programs to accommodate multiple institutions being grouped together on a physical database, or stored separately.
SRP094	BATCH-ABORT ROUTINE	Displays API call blocks and performs an API global abort.
SRP098	NEXT-DATE-BUSINESS	Advances an actual Julian date by the number of business days specified. Holidays are taken into consideration. Sixty holidays are used. Replaces SRP056.
SRP161	STRIP-EDIT-VALIDATE ROUTINE	Removes editing from an edited field (up to 25 positions long) and validates the data.
SRP162	NAME-ADDR-REFORMAT ROUTINE	Formats a 3-line name & address by appending the ZIP code to the third line.
SRP164	LOAD-CIFAPPLTABLE ROUTINE	Loads an application table using MICM Record 0211.
SRP165	LOAD-CIFAPPLTABLE ROUTINE	Loads an application table using MICM Record 0211. Used with online programs only.
SRP166	EXAMINE-FIELD SECTION	Redefines EXAMINE for COBOL II.
SRP170	ACCOUNT-VERIFICATION ROUTINE	Verifies account numbers.
SRP181	LOAD-CIFAPPLTABLE ROUTINE	Loads the CIF application table for batch programs. It is the API replacement for SRP164.

Copybook Names	Procedures Routine	Description																
SRP189	DEEDIT-AMOUNT ROUTINE	<p>De-edits the amount fields. The routine uses currency parameters (MICM Record 2018) to process input fields. If the input field is a monetary field, the value is stored on the record with the number shifted according to the number of decimals in the record and the number of decimals indicated on MICM Record 2018. For example:</p> <p>The monetary value 5 needs to be stored in a 2-decimal field.</p> <table><tr><th>2018 dec pos</th><th>Stored value</th></tr><tr><td>3</td><td>50.00</td></tr><tr><td>2</td><td>5.00</td></tr><tr><td>0</td><td>.05</td></tr></table> <p>The monetary value 1.34560000 needs to be stored in an 8-decimal field.</p> <table><tr><th>2018 dec pos</th><th>Stored value</th></tr><tr><td>3</td><td>13.45600000</td></tr><tr><td>2</td><td>1.34560000</td></tr><tr><td>0</td><td>.01345600</td></tr></table> <p>The routine allows only the number of decimals indicated on MICM Record 2018 to be input. Non-monetary fields (rates and numbers or counts) are not shifted but use the appropriate delimiters and separators.</p>	2018 dec pos	Stored value	3	50.00	2	5.00	0	.05	2018 dec pos	Stored value	3	13.45600000	2	1.34560000	0	.01345600
2018 dec pos	Stored value																	
3	50.00																	
2	5.00																	
0	.05																	
2018 dec pos	Stored value																	
3	13.45600000																	
2	1.34560000																	
0	.01345600																	
SRP190	EDIT-AMOUNT ROUTINE	<p>The routine uses currency parameters (MICM Record 2018) to process fields for display. If the displayed field is a monetary field, the value is shifted prior to display according to the number of decimals in the record and the number of decimals indicated on MICM Record 2018. For example:</p> <ul style="list-style-type: none">■ The field we need to print is a balance field and the currency has 3 decimals. The value is stored on the file as 50.00. SR-AEDECPOS is set to 2 because the field’s picture clause is V99. The field MIM-2018DECIMAL has 3. The compute would be 2 + (3 – 2) and would cause the routine to use the field with a picture clause of S9(15)V999 to do the editing, properly displaying the value of 5.000.																

Copybook Names	Procedures Routine	Description
		<ul style="list-style-type: none"> ■ The field we need to print has a 0 decimal currency code. The value is stored on the file as .05. SR-AEDECPOS is set to 2 because the field's picture clause is V99. The field MIM-2018DECIMAL has 0. The compute is $2 + (0 - 2)$ and causes the routine to use the field with a picture clause of S9(18) to do the editing, properly displaying the value of 5. ■ The field we need to print is a unit charge field on an account that has a currency code of 3 decimals. The value is stored on the file as 13.45600000. SR-AEDECPOS is set to 8 because the field's picture clause is V9(8). The field MIM-2018DECIMAL has 3. The compute would be $8 + (3 - 2)$ and would cause the routine to use the field with a picture clause of S9(09)V9(09) to do the editing, properly displaying the value of 1.345600000. ■ The field we need to print has a 0 decimal currency code. The value is stored on the file as .013456. SR-AEDECPOS is set to 8 because the field's picture clause is V9(8). The field MIM-2018DECIMAL has 0. The compute is $8 + (0 - 2)$ and causes the routine to use the field with a picture clause of S9(12)V9(06) to do the editing, properly displaying the value of 1.345600. <p>Non-monetary fields (rates and numbers or counts) are not shifted, but use the appropriate delimiters and separators.</p>
SRP196	SPR196-GET-2023-RECORD	Loads MICM Record 2023, performs a search, then returns the data back to MICM Record 2023.
SRP710	BUILD-PFKEY-LINE ROUTINE	Builds the Function Key lines to be displayed on online panels.
SRP711	VALIDATE-PFKEYS ROUTINE	Verifies the Function Key instruction entered is valid for the current panel.

Daily Programs

The following programs are run during daily operations.

MID010 – Log File Create

Purpose This program initializes a Log File. It opens the file as output, which causes the I/O subprogram MILOGG to add a record that contains all hex zeros.

API MICM Records None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MILOGG	Log File	Output	Disk	Sequential	307

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	ADD failed on MILOGG.
0002	CLOSE failed on MILOGG.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MID020 – Institution Control File Update

Purpose

This program maintains the Institution Control File. Institution Control card inputs, additions, changes, and deletions are read in and edited for possible errors. The Institution Control File is then updated with the valid transactions. The valid records are posted and the dates are rolled over during the update cycle. When maintenance is not present, the update cycle is immediately invoked with all the dates rolled over for existing records.

A control card is only required if you want to process for a date other than the current date. To override the system date check, enter **0** in the Current Date field.

When adding a new institution and where there is no Institution Information Record, (O74; Form 1001), this program will add one.

API MICM Records

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

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICRDB (SYS016)	Institution Control Input File	Input	Card	Sequential	80
MIDSKI (SYS016)	Institution Control Input File (Optional)	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-902 – Institution Control File Maintenance
00-903 – Institution Control File Update

Control Card

This control card is optional. Only enter the control card to bypass the system date check. This card should not be used in normal daily processing. It is inserted in the job stream after the execute card and before the end-of-data card. The maintenance cards must be placed before the cards for new institutions. The format of the control card is as follows:

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 06	4	Institution number. Valid entry is 0000 .
07 – 21	15	Not used.
22 – 23	2	Form number. Valid entry is 04 .
24 – 25	2	Card number. Valid entry is 00 .
26 – 33	8	Option 1: Current date. This 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 MMDDYYYY. Option 2: Current date. To override the system date check and avoid Abort 0012, enter 0 in this field.
34– 80	47	Not used.

Control Card

This control card is optional. If this control card is used, it should be the only control card used in the JCL. Only enter this control card to signal the program that the new/maintenance/delete card data is in disk file MIDSKI. The format of the control card is as follows:

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 06	4	Institution number. Valid entry is 0000 .
07 – 21	15	Not used.
22 – 23	2	Form number. Valid entries are 05 . This is a special form number which tells the program to retrieve the card data from file MIDSKI.
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	GET LOCK failed on BNK.
0002	UNLOCK failed on BNK.
0003	Current date in Form 04 entry is invalid.
0004	GET LOCK failed on BNK.
0005	PUT failed on BNK.
0006	GET LOCK failed on BNK.
0007	GET NEXT LOCK failed on BNK.
0008	GET failed on BNK, Record 0.
0009	GET NEXT failed on BNK, Record 0.
0010	GET failed on MICM Record 1001.
0011	MICM Record 2021 missing from Institution Zero.
0012	Current date in the Institution Control Record does not match today's date.
0013	PUT failed on BNK.
0014	REPUT failed on BNK.
0015	GLOBAL CLOSE failed.
0016	GET failed on MICM Record 1001.
0017	GET failed on MICM Record 2021 for Institution Zero.
0018	MICM Record 2021 missing from Institution Zero.
0019	GET failed on MICM Record 2021 for Institution Zero.

Rerun Procedures If the program aborts, contact the MICM programmer. Reload the Institution Control File from the last backup tape, and rerun the job exactly as run before.

MID030 – Maintenance History Daily Transaction File Create

Purpose This program initializes a Maintenance History Daily Transaction File. It opens the file as output, which causes the I/O subprogram MIIHDTS to add a record that contains all hex zeros.

API MICM Records None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIHDTS	Maintenance History Daily Transaction File	Output	Disk	Sequential	224

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/ADD failed on MIHDTS.
0002	CLOSE failed on MIHDTS.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MID090 – Maintenance Input

Purpose

This program sorts the card, disk, or tape input on the first 8 characters and 48-byte record key and writes it to disk. Each card is edited for a valid system number of zeros and if in error, it is rejected. The key area of valid card sets is examined, and blanks are replaced with zeros. Report 00-001 (Maintenance Card to Disk), is produced reflecting a list of processed cards exactly as they were input. Card input is inserted in the job stream immediately before the end of data card and after the execute card. The control card is optional; the default is card input.

API MICM Records

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

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICRDC (SYS016)	MICM Card Input File	Input	Card	Sequential	80
MITAPI	Tape Input File (opt)	Input	Tape	Sequential	80
MIDSKI	Disk Input File (opt)	Input	Disk	Sequential	80
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MICRDO	Card Image File	Output	Disk	Sequential	164
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-001 – Maintenance Card to Disk

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Indicates this is a control card. Valid entry is *.

Columns	Size	Description
04 – 04	1	Disk input. Indicates if input is being entered by disk. Valid entries are: B No disk input. X Input is on disk.
05 – 05	1	Tape input. Indicates if input is being entered by tape. Valid entries are: 0 No tape input. 1 – 9 The number of tapes to be used.
06 – 06	1	Detail. Allows printing of detail input records. Valid entries are: B or Y Print detail. N Do not print detail. Will only print rejects.
07 – 07	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. 7 Day, alpha month, blank, year. 8 Alpha month, day, blank, year.
08 – 08	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than 'N' are permitted as a delimiter.
09 – 12	4	Operating System Return Code. Code that sets the operating system return code at the end of the job when there are rejects in the input data. Can be any numeric value. Default is zero.
13 – 80	68	Not used.

Abort Information

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

Code	Description
0001	READ failed on BNK.
0002	No card input. Must have control card or data cards.
0003	Tape input on the control card is invalid.
0004	Detail on the control card is not N or Y.
0005	WRITE failed on MICRDO.

Code	Description
0006	API GLOBAL CLOSE failed.
0007	Date sequence on the control card is invalid.
0008	Invalid Operating System Return Code.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before. The card Image File might require deletion.

MID100 – Maintenance Edit

Purpose

This program edits the card image file for all possible errors. Multiple card entries from a single input form are edited as a set. Errors cause a card or card set to be rejected. Valid cards or card sets are written to the Edited Card Image File. Since this program detects all possible errors, every card image on the Edited Card Image File is updated in MID200. Report 00-002 (Maintenance Cards Edit), lists all card image input, reflecting every error detected and noting all cards and card sets that were rejected or accepted. Totals of accepted and rejected card images, in addition to total input, are reflected by institution.

Sets of card images are stored in working storage. These card sets are then edited for validity by routines that use the edit table. The edit table is created each time the form number changes in the input file. Table records, for the form being edited, are read from the table file and stored in working storage.

Optionally, a control card may be used to have a duplicate record be replaced with new cards, and to print only rejected cards.

API MICM Records

Ext Record Code	Name	Description
M01	MI2001-RECORD	2001 – Branch Information Record
M11	MI2011-RECORD	2011 – Online Messages Record
M14	MI2014-RECORD	2014 – MICM Institution Parameters Record
M22	MI2022-RECORD	2022 – Language Table Record
M23	MI2023-RECORD	2023 – Product Code Information Record
M65	MI0307-RECORD	0307 – Application System Report Flags Record
M71	MI7001-RECORD	7001 – Translation Tables Record
M74	MI1001-RECORD	1001 – Institution Information Record
M85	MI0242-RECORD	0242 – Officer/Employee Information Record
BNK	MIBNK-RECORD	Institution Control Record
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIMAST	MICM Master File	Input	Disk	Random	Variable
MIAMTT	Application Management Table	Input	Disk	Random	Variable
MICARD (SYS016)	Institution Control File	Input	Disk	Random	170
MICRDO	Card Image File	Input	Disk	Sequential	164
MITABL	Table File	Input	Disk	Random	Variable
MIEDIT	Edited Card Image File	Output	Disk	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-002 – Maintenance Cards Edit

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Replace option. Valid entries are: b or N Reject duplicate. Y Accept duplicate records as replacements.
04 – 04	1	Detail. Allows printing of detail records. Valid entries are: b or Y Print detail. N Do not print detail.
05 – 08	4	Operating System Return Code. This code will sent the operating system at the end of job when there are reject in the input data. Can be any numeric value. The default is zero.
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	Card position 1 and 2 are not equal to '00'.
0002	Replace option on the control card is not 'N' or 'Y'.
0003	Detail option on the control card is not 'N' or 'Y'.

Code	Description
0004	READ failed on BNK.
0005	More than 500 card type 99 input cards.
0006	Error reading MICM Record 7001.
0007	Error reading the next MICM Record 7001.
0008	Error reading MICM Record 2001.
0009	Error reading MICM Record 2022.
0010	Program edit table greater than 400.
0011	WRITE failed on MIEDIT.
0012	START/READ NEXT failed on MITABL.
0013	READ NEXT failed on MITABL.
0014	Invalid call to MIMAST.
0015	CLOSE failed on MIMAST.
0016	CLOSE failed on MITABL.
0017	CLOSE failed on MIAMTT.
0018	GLOBAL CLOSE failed.
0019	GET failed on MICM Record 2014.
0020	GET failed on MICM Record 1001.
0021	GET failed on MICM Record 0307.
0022	GET failed on MICM Record 0242.
0025	GET failed on BNK.
0026	Maximum number of cards with the same key was reached. Reduce the number cards with the same key and rerun. The maximum is set to 1,000.
0027	API GET or READ on the MIMAST failed
0028	Invalid Operating System Return Code.
1960	GET EQUAL failed on MICM Record 2023 for Institution Zero.
1961	GET NEXT failed on MICM Record 2023 for Institution Zero.
1962	Maximum number of MICM Record 2023 reached for Institution Zero.
1963	GET EQUAL failed on MICM Record 2023.
1964	GET NEXT failed on MICM Record 2023.
1965	Maximum number of MICM Record 2023 reached.
3001	GET failed on CSR.
3002	GET EQUAL failed on CRL.

Code	Description
3003	GET EQUAL failed on CFL.
3004	GET NEXT failed on CFL.
3005	More than 960 fields found on CSF.
3006	GET EQUAL failed on CSR.
3007	GET NEXT failed on CSR.
3008	Maximum number of CSR reached.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before. The edited card Image File might require deletion.

MID200 – MICM Master File Update

Purpose This program updates the MICM Master File and API records from the Edited Card Image File. Through this program, new records are added, and existing records are changed or deleted according to the user instructions. Report 00-003 (Maintenance Journal), is printed, reflecting the data before and after maintenance occurs. Totals are printed reflecting the number of new records and maintenance changes for each institution.

API MICM Records

Ext Record Code	Name	Description
M14	MI2014-RECORD	2014 – MICM Institution Parameters Record
M17	MI2017-RECORD	2017 – Maintenance History Parameters Record
M23	MI2023-RECORD	2023 – Product Code Information Record
M65	MI0307-RECORD	0307 – Application System Report Flags Record
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIAMTT	Application Management Table	Input	Disk	Random	Variable
MIEDIT	Edited Card Image File	Input	Disk	Sequential	80
MITABL	Table File	Input	Disk	Random	Variable
MIMAST	MICM Master File	I/O	Disk	Random	Variable

Name	Description	Opened	Media	Access Mode	Record Length
MIHDTS	Maintenance History Daily Transaction File	Output	Disk	Sequential	224
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-003 – Maintenance Journal

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Detail. Allows printing of detail records. Valid entries are: b or Y Print detail. N Do not print detail.
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	System number on the control card is not '00'.
0002	Detail on the control card is not 'N' or 'Y'.
0003	READ failed on BNK.
0004	READ failed on MICM Record 2017.
0005	Field number, stack number, or stack number length on the maintenance card is invalid.
0006	No record found on MIMAST or API.
0007	DELETE failed on MIMAST or API.
0008	CALL failed on MIMAST.
0009	REWRITE failed on MIMAST or API.
0010	READ NEXT failed on MIMAST or API.
0011	DELETE failed on MIMAST or API.
0012	Card number found on new card is invalid.
0014	READ failed on MIMAST or API.
0015	REWRITE failed on MIMAST or API.

Code	Description
0016	Maximum number of exit programs reached.
0017	START/READ NEXT failed on MIHDTS.
0018	READ NEXT failed on MITABL.
0019	READ NEXT failed on MITABL.
0020	OPEN failed on MIMAST.
0021	START/READ failed on MIMAST.
0022	An error occurred in edit amount routine.
0022	CLOSE failed on MIHDTS.
0023	CLOSE failed on MIMAST.
0024	CLOSE failed on MITABL.
0025	CLOSE failed on MIAMTT.
0026	GLOBAL CLOSE failed on MIMAST.
0027	CLOSE failed on MIHDTS.
0028	GET failed on MICM Record 2014.
0029	GET failed on MICM Record 1001.
0030	GET failed on MICM Record 0307.
0031	GET failed on BNK.
1960	GET EQUAL failed on MICM Record 2023 for Institution Zero.
1961	GET NEXT failed on MICM Record 2023 for Institution Zero.
1962	Maximum number of MICM Record 2023 reached for Institution Zero.
1963	GET EQUAL failed on MICM Record 2023.
1964	GET NEXT failed on MICM Record 2023.
1965	Maximum number of MICM Record 2023 reached.
3001	GET failed on CSR.
3002	GET EQUAL failed on CRL.
3003	GET EQUAL failed on CFL.
3004	GET NEXT failed on CFL.
3005	More than 960 fields found on CSF.
3006	GET EQUAL failed on CSR.
3007	GET NEXT failed on CSR.
3008	Maximum number on CSR reached.

Rerun Procedures

If the program aborts, contact the MICM programmer. Reload MICM from the last backup tape, and rerun the job exactly as before.

MID340 – Report Sort

Purpose

This program reads and sorts the Log File and creates the sorted Report File. Only Log Records with the system number of '00' are sorted to this file. Any Log Records that were written when a transaction terminated abnormally are deleted and not printed in the report. The report sort is done according to the report sort option specified on MICM Record 0307 of the institution that entered the data.

If MICM Record 2017 is on institution zero, manager zero record code of spaces is present, and records are added to the Maintenance History Daily Transaction File.

API MICM Records

Ext Record Code	Name	Description
M17	MI2017-RECORD	2017 – Maintenance History Parameters Record
M65	MI0307-RECORD	0307 – Application System Report Flags Record
M74	MI1001-RECORD	1001 – Institution Information Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MILOGG	Log File	Input	Disk	Sequential	307
MITABL	Table File	Input	Disk	Random	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MIHDTS	Maintenance History Daily Transaction File	Output	Disk	Sequential	224
MIRPTJ	Report File	Output	Disk	Sequential	326

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	GET failed on MICM Record 2017.
0002	READ NEXT failed on MILOGG.
0003	GET failed on MICM Record 0307.
0004	GET failed on MICM Record 1001.
0005	WRITE failed on MIRPTJ.
0006	Table entry missing.
0007	ADD failed on MIHDTS.
0008	START failed. MITABLE not found.
0009	START/READ NEXT failed on MITABL.
0010	READ NEXT failed on MITABL.
0011	API GLOBAL CLOSE failed.
0012	CLOSE failed on MILOGG.
0013	CLOSE failed on MIHDTS.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MID350 – Report Print

Purpose This program prints the online report for records that are defined with the Table File (MITABL) and the security report. The option of printing a given report is selected by entering a control card. The control card is inserted in the job stream after the execute card and before the end of data card.

The print field table is created each time the form number changes in the Input File and is used to format the print line for individual fields. Refer to the Application Files chapter in this guide for further definition of MI-TABLREC.

API MICM Records

Ext Record Code	Name	Description
M50	MI0020-RECORD	0020 – Holding Company Information Record
M65	MI0307-RECORD	0307 – Application System Report Flags Record
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIRPTJ	Report File	Input	Disk	Sequential	326
MITABL	Table File	Input	Disk	Random	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-141 – Online Maintenance Journal
00-142 – Online Terminal Control Report

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 06	4	Starting report number, preceded by zero.
07 – 10	4	Ending report number, preceded by zero.
11 – 18	8	Recover report code. Valid entries are 1 or RECOVERY .
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	GET failed on BNK.
0002	Control card missing.
0003	System number on the control card is invalid.
0004	Starting report number on the control card is invalid.
0005	Ending report number on the control card is invalid.
0006	Starting report number is greater than the ending report number on the control card.
0007	Starting and ending report number must both be '700' on the control card for recovery.
0008	CTL-RECOVERY field on the control card is invalid.
0009	Starting report number is equal to '700' but the control recovery field does not equal 'recovery', on the control card.
0010	Table entry missing while performing maintenance.
0011	Table entry missing while adding to file.
0012	START failed. MITABL entry not found.
0013-0014	START/READ NEXT failed on MITABL.
0015	READ NEXT failed on MITABL.
0016	API GLOBAL CLOSED failed
0017	CLOSE failed on MITABL.
0018	GET failed on BNK.
0019	GET failed on MICM Record 1001.
0020	GET failed on BNK.
0021	GET failed on MICM Record 1001.

Rerun Procedures	If the program aborts, check the card input for accuracy. If it is correct, contact the MICM programmer. Rerun the job exactly as before.
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MID360 – API Maintenance Journal

Purpose This program reads the API Log Record and reports all additions, deletions, and maintenance to the record. This program should be run on a daily basis. A control card allows for selective reporting based on time and date. If multiple API Log Record areas are used, a parameter card must be entered to select the appropriate area for reporting. This program calls program MIB700 (Log Retrieval).

API MICM Records

Ext Record Code	Name	Description
M17	MI2017-RECORD	2017 – Maintenance History Parameters Record
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record
LOG	MILOG-RECORD	Log Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIAMTT	Application Management Table File	Input	Disk	Sequential	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MILOGS	Sorted Log File	I/O	Disk	Sequential	Variable
MIHDTs	Maintenance History Daily Transaction File	Output	Disk	Sequential	224
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-143 – API Maintenance Journal

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Not used.
04 – 11	8	Starting date. Format is YYYYMMDD.
12 – 12	1	Not used.
13 – 18	6	Starting time. Format is HHMMSS.
19 – 19	1	Not used.
20 – 27	8	Ending date. Format is YYYYMMDD.
28 – 28	1	Not used.
29 – 34	6	Ending time. Format is HHMMSS.
35 – 35	1	Not used.
36 – 36	1	Print fiche code. Valid entries are 0, 1, 2, or 3 .
37 – 38	2	Form code.
39 – 39	1	Not used.
40 – 41	2	Application Program Interface log application code. Defaults to 'MI' which is MICM's log application code.
42 – 42	1	Not used.
43 – 45	3	Application Program Interface log record code. Defaults to 'OAJ' which is MICM's log record code.
46 – 80	35	Not used.

Abort Information

If the program detects a processing irregularity, it displays an abort code on the operator's console and the printer. If a 7000 level abort code is encountered, refer to MIB700 (Log Retrieval).

Code	Description
0001	GET failed on MICM Record 2017.
0002	GET failed on BNK.
0003	System number on control card is not '00'.
0004	Control card missing.
0005	Starting date is not numeric.
0006	Starting time is not numeric.
0007	Starting time is invalid. Format is HHMMSS. The hours must be '00' to '23'. Minutes and seconds must be '00' to '59'.

Code	Description
0008	Starting time is invalid. Format is HHMMSS. The hours must be '00' to '23'. Minutes and seconds must be '00' to '59'.
0009	Ending time is not numeric.
0010	Ending time is invalid. Format is HHMMSS. The hours must be '00' to '23'. Minutes and seconds must be '00' to '59'.
0011	Print fiche code is not '1', '2' or '3'.
0012	Control card missing.
0013	CLOSE failed on MIHDTS.
0014	GET failed on MICM Record 1001.
0015	GET failed on BNK.
0016	ADD failed on MIHDTS.
0017	Invalid return from MIB700 subroutine. The abort code and message is displayed. Refer to program MIB700 for abort codes.
0018	More than 500 different types.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before.

MID400 – Maintenance History Sequential File Create

Purpose This program creates a sequential copy of the Maintenance History File.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
HST	MIHST-RECORD	Maintenance History Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIHSTS	Maintenance History Sequential File	Output	Tape	Sequential	248
PRNTER (SYS015)	Printer File	Output	Printer	Sequential	133

Reports 00-400 – Maintenance History Create Sequential

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Not used.
04 – 04	1	Print option. Valid entries are: b or 1 Print only, no fiche. 0 No print, no fiche. 2 Print and fiche. 3 Fiche only.
05 – 06	2	Form code.
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	GET failed on BNK.
0002	System number is invalid on control card.
0003	Print fiche code is invalid on control card.
0004	GET NEXT failed on HST.
0005	API GLOBAL CLOSE failed.
0006	GET failed on BNK.
0007	GET failed on MICM Record 1001.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MID410 – Maintenance History Merge

Purpose This program reads a sequential copy of the Maintenance History File, drops expired records, sorts records, and adds records from the Maintenance History Daily Transaction File, then loads a new Maintenance History File.

Manager, through the use of MICM Record 2017, determines record retention. MICM Record 2017 must be set up with a Manager of 00 and an Application Record of spaces.

Up to 99 Maintenance History Daily Transaction files can be used as input. A control card is used to specify the starting and ending files.

API MICM Records

Ext Record Code	Name	Description
M17	MI2017-RECORD	2017 – Maintenance History Parameters Record
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
HST	MIHST-RECORD	Maintenance History Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIHSTS	Maintenance History Sequential File	Input	Tape	Sequential	248
MIHD01	Maintenance History Daily Transaction File 01	Input	Disk	Sequential	224
MIHDnn	Maintenance History Daily Transaction File (Files 02 – 99)	Input	Disk	Sequential	224

Name	Description	Opened	Media	Access Mode	Record Length
MIHDTS	Maintenance History Daily Transaction File	Input	Disk	Sequential	224
PRNTER (SYS015)	Printer File	Output	Printer	Sequential	133

Reports

00-410 – Maintenance History Merge

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Not used.
04 – 05	2	Starting file number.
06 – 06	1	Not used.
06 – 08	2	Ending file number.
09 – 09	1	Not used.
10 – 10	1	Print option. Valid entries are: b or 1 Print only, no fiche. 0 No print, no fiche. 2 Print and fiche. 3 Fiche only.
11 – 12	2	Form code.
13 – 13	1	Not used.
14 – 14	1	VSAM option. Valid entries are: b or V VSAM load mode option. N Not VSAM. Use API ADD.
15 – 15	1	Not used.
16 – 16	1	Input file option. Valid entries are: b Input file (MIHSTS). N No input file (MIHSTS).
17 – 80	64	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	GET failed on BNK.
0002	GET failed on MICM Record 2017 on Manager 00, Application Record spaces.
0003	System number on control card is invalid.
0004	Starting file number on control card is invalid.
0005	Ending file number on control card is invalid.
0006	Print fiche on control card is invalid.
0007	VSAM option on control card is not 'N' or 'V'.
0008	Input file option on control card is not 'N' or space.
0009	READ NEXT failed on MIHDTS.
0010	CLOSE failed on MIHDTS.
0011	There are input records.
0012	PUT failed on HST.
0013	GET failed on MICM Record 2017.
0014	GET failed on BNK.
0015-0017	GET failed on MICM Record 2017.
0018	API GLOBAL CLOSE failed.
0019	GET failed on MICM Record 1001.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MID420 – Maintenance History Master List

Purpose This program reads the Maintenance History Record and lists all fields in this record. A report can be generated by institution, manager within institution, application record within institution, or application record and manager.

Multiple control cards can be used.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
HST	MIHST-RECORD	Maintenance History Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
PRNTER (SYS015)	Printer File	Output	Printer	Sequential	133

Reports

00-420 – Maintenance History Master List

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is '00'.
03 – 03	1	Not used.
04 – 07	4	Institution number. Enter spaces for all institutions.
08 – 08	1	Not used.
09 – 10	2	Manager number. Enter spaces for all managers.
11 – 11	1	Not used.
12 – 14	3	Application number. Enter spaces for all applications.
15 – 15	1	Not used.

Columns	Size	Description
16 – 16	1	Print option. Valid entries are: 0 or 1 Print only, no fiche. 0 No print, no fiche. 2 Print and fiche. 3 Fiche only.
17 – 18	2	Form code.
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	GET failed on BNK.
0002	System number on control card is invalid.
0003	Institution number on control card is invalid.
0004	Manager number on control card is invalid.
0005	Print fiche on control card is invalid.
0006	GET EQUAL failed on HST.
0007-0008	GET NEXT failed on HST.
0009	API GLOBAL CLOSE failed.
0010	GET failed on BNK.
0011	GET failed on MICM Record 1001.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MID800 – MICM Files Backup

Purpose

This program copies one or more of the following files to tape for backup: Application Management Table File, MICM Master File, and MICM Table File. This program should be run after each maintenance run (MID200) to the Master File. The files are controlled by a control card which is inserted in the job stream immediately before the end-of-data card and after the execute card. The control card must be present.

API MICM Records

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

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Sequential	Variable
MIAMTT	Application Management Table File	Input	Disk	Sequential	Variable
MITABL	Table File	Input	Disk	Sequential	Variable
MIBKUP	MICM Backup File	Output	Tape	Sequential	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-004 – File Backup

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 10	8	File codes. Indicates the files to be backed up. There is no established position or sequence for these columns. Valid entries are: A Application Management Table File. M MICM Master File. T MICM Table File.

Columns	Size	Description
11 – 11	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: <ul style="list-style-type: none">1 Year, month, day.2 Day, month, year.3 Month, day, year.4 Year, day, month.5 Day, year, month.6 Month, year, day.7 Day, alpha month, blank, year.8 Alpha month, day, blank, year.
12 – 12	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than 'N' are permitted as a delimiter.
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	System number in the control card is invalid or control card missing.
0002	Control card missing.
0003	READ NEXT failed on MITABL.
0004	CLOSE failed on MITABL.
0005	READ NEXT failed on MIAMTT.
0006	CLOSE failed on MIAMTT.
0007	READ NEXT failed on MIMAST.
0008	More than 1000 institutions being backed up.
0009	CLOSE failed on MIMAST.
0010	Date sequence in the control card is invalid.

Rerun Procedures

If the program aborts, check the card input for accuracy. If it is correct, contact the MICM programmer. Rerun the job exactly as before.

MID820 – MICM Master File Reload

Purpose This program restores the MICM Master File, Table File, and Application Management File files from the MICM backup tape (MIBKUP) created by MID800. This program has the capability to merge 2 MICM Master Files as the files are being restored.

A control card selects which of the 4 files are to be restored. (Refer to the Control Card table.)

- Merge
- No drop
- Reload

Always use the 'No drop' option when restoring the MICM Master File. If recovery is being performed records are not dropped.

This program will drop institution. This option is selected by the use of control cards.

API MICM Records None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIBKUP	MICM Backup File	Input	Tape	Sequential	Variable
MIMERG	Merge File (opt)	Input	Tape	Sequential	Variable
MICLRA	Clear Alternate File	I/O	Disk	Sequential	48
MIMAST	MICM Master File	I/O	Disk	Sequential or Random	Variable
MITABL	Table File	Output	Disk	Sequential	Variable
MIAMTT	Application Management Table File	Output	Disk	Sequential	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-005 – Reload Report

Control Card Blank

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Card type. Valid entry is b .
04 – 05	2	Not used.
06 – 21	16	Function. Indicates the function to be performed. Valid entries are: MERGE Reload MICM backup tape with a MICM Master File. Formatted merge tape. NODROP Reload MICM with the backup tape without dropping any records. RELOAD Reload MICM with the backup tape.
22 – 29	8	File codes. Used to indicate the files to be reloaded. There is no established position or sequence for these columns. Valid entries are: A Application Management Table File. M MICM Master File. T MICM Table File.
30 – 30	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. 7 Day, alpha month, blank, year. 8 Alpha month, day, blank, year.
31 – 31	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than `N' are permitted as a delimiter.
32 – 80	49	Not used.

Control Card D

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Card type. Valid entry is D .
04 – 07	4	Institution number to be dropped.
08 – 80	73	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	Function on the control card is invalid.
0003	More than one control card type blank entered.
0004	No files selected on the control card.
0005	More than 1000 control card Type D entered.
0006	Institution number is not numeric.
0007	No records found on the backup file.
0008	ADD failed on MITABL.
0009	CLOSE failed on MITABL.
0010	ADD failed on MIAMTT.
0011	CLOSE failed on MIAMTT.
0012	ADD failed on MIMAST.
0013	CLOSE failed on MIMAST.
0014	Invalid backup file.
0015	Date sequence on the control card is invalid.
0016	OPEN failed on MITABL.
0017	OPEN failed on MIAMTT.

Rerun Procedures If the program aborts, check the card input for accuracy. If it is correct, contact the MICM programmer. Rerun the job exactly as before.

MID830 – Log File Backup

Purpose This program copies the Log File to tape for backup purposes.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MILOGG	Log File	Input	Disk	Sequential	307
MILGBU	Log Backup File	Output	Tape	Sequential	303
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-800 – Log File Backup 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 NEXT failed on MILOGG.
0002	GET failed on BNK.
0003	API GLOBAL CLOSE failed.
0004	CLOSE failed on MILOGG.
0005	GET failed on MICM Record 1001.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MID840 – Log File Reload

Purpose This program restores the Log File.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MILGBU	Log Backup File	Input	Tape	Sequential	303
MILOGG	Log File	Output	Disk	Sequential	307
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-820 – Log File Reload 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	ADD failed on MILOGG.
0002	GET failed on BNK.
0003	GLOBAL CLOSE failed.
0004	CLOSE failed on MILOGG.
0005	GET failed on MICM Record 1001.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

Request Programs

The following programs are run upon request.

MIR050 – Generic Open and Close CICS Files

Purpose This program invokes programs MIL050 to open, close and/or change file attributes. This program uses the CICS External Interface (EXCI).

To turn on EXCI, you may install/add to CICS list group DFH\$EXCI.

When compiling this program the translator option 'EXCI' must be specified. Also sub-program DFHXCIE is found in the CICS library with the ending node of SDFHEXCI. This library is need during execution of this program.

API MICM Records None

Files None

Reports None

Control Card **Card 01**

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Card type. Valid entry is 1.
04 – 11	8	CICS application Id. (This must match the SIT parameter 'APPLID=CICSDEVB').
12 – 12	1	Not used.
13 – 13	1	Program abort code. When this option is set to Y, the return code is set to the value of '12' and an abort message is displayed when the CICS response code is other then "normal".
14 – 80	69	Not used.

Card 02

Up to 50 type 2 cards may be entered.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Card type. Valid entry is 2 .
04 – 11	8	External File Name.
12 – 12	1	Action Code. C Close. O Open. R Open as read only. U Open with add, update, and delete.
13-80	78	Not used.

Abort Information

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

Return codes of 22, 27, 53, 70, 81, and 88 should have a response 2 value. These values are found in the *CICS Transaction Server for OS/390 CICS External Interface Guide* SC33-1944-01 in section 3.3.2.

Code	Description
0001	No control cards were entered.
0002	System number is not equal to '00'.
0003	First control card type is not equal to a '1'.
0004	Application ID was not entered.
0006	Card type is not equal to a 2.
0007	More than 50 Type 2 control cards were entered.
0008	Invalid action code entered on a Type 2 card.
0009	No control card Type 2 was entered.

Rerun Procedures

If the program aborts, correct the error and run the job exactly as before.

MIR061 – Table File Maintenance

Purpose This program performs maintenance on the Table File. It is used to add, replace, or delete records from the Table File. This file contains variable length records, and is used as a table by MIL200, MID100, MID200, MID350, and MIR100.

Refer to the table definitions in the Application Files chapter of this guide for additional information on the use and format of the table records.

API MICM Records None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICRDT (SYS016)	MICM Table Card Input File	Input	Disk	Sequential	80
MITABL	Table File	I/O	Disk	Random	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-061 – Table File Create Error 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 MITABL.
0002	READ failed on MITABL.
0003	REWRITE failed on MITABL.
0004	ADD failed on MITABL.
0005	DELETE failed on MITABL.
0006	START/READ NEXT failed on MITABL.
0007	READ NEXT failed on MITABL.
0008	CLOSE failed on MITABL.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR100 – MICM Master File List and Punch

Purpose

This program lists record data contained on the MICM Master File and any API record, and/or punches the card image records. Control cards are used to request the record to process. Placing a new institution number on the control card will cause the card images to have a different institution number.

After the card image file (punch file output) has been run through MID090, MID100, and MID200, you should run MIR100 to print the newly created records.

The control card is inserted in the job stream immediately before the end-of-data card and after the execute card. Multiple control cards can be entered.

API MICM Records

All MICM Master API records.

Ext Record Code	Name	Description
M14	MI2014-RECORD	2014 – MICM Institution Parameters Record
M23	MI2023-RECORD	2023 – Product Code Information Record
M65	MI0307-RECORD	0307 – Application System Report Flags Record
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File (opt)	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Sequential	Variable
MITABL	Table File	Input	Disk	Random	Variable
MIAMTT	Application Management Table	I/O	Disk	Random	Variable

Name	Description	Opened	Media	Access Mode	Record Length
MICRDP	Card Punch File	Output	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-006 – Master File List

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 06	4	Institution number. (Starting institution number if using all institution option).
07 – 10	4	Record number or AMT key.
11 – 11	1	Not used.
12 – 12	1	Process all institution option. Valid entries are: b or N Process only this institution. Y Process all institution starting with this institution.
13 – 13	1	Not used.
14 – 14	1	Process all forms option. Valid entries are: b or N Do not process all forms. Y Process all forms.
15 – 15	1	Not used.
16 – 16	1	Print/punch options. Valid entries are: B Produce both report and card images. L Produce report only. P Produce card image only.
17 – 17	1	Not used.
18 – 21	4	New institution number. Leave blank if not used.

Columns	Size	Description
22 – 80	59	<p>Variable key search. The comma is used for a delimiter.</p> <p>Format is starting key, delimiter, ending key.</p> <p>Starting key entered alone will print this record and all the records after it. Starting key entered, a comma, and an ending key will print all records between the keys entered. Starting key entered, a comma, and the same key will print only this 1 record. You may use a starting key, such as 0404 followed by a record number where to start, a comma and the ending key 0404 followed by the last record number where to finish. This allows you to print a range of records not starting from the first one. For example, 04041000,04042000. This entry will print all 0404 records starting at 1000 and ending with the 2000th entry.</p> <p>This option is used only with API records.</p> <p>This option is not used with records that reside on the MICM Master File.</p>

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	GET failed on BNK.
0002	System number on the control card is invalid.
0003	Institution number on the control card is invalid.
0004	All institution option on the control card is invalid.
0005	All forms option on the control card is invalid.
0006	Print/punch option on the control card is invalid.
0007	New institution number on the control card is invalid.
0008	START/READ NEXT on MIMAST or API GET EQUAL failed.
0009	READ NEXT on MIMAST or API GET NEXT failed.
0010	GET NEXT failed on MIMAST.
0011-0012	READ NEXT failed on MITABL.
0013	Return from SRP090 failed.
0014	API GLOBAL CLOSE failed.
0015	CLOSE failed on MIMAST.
0016	CLOSE failed on MITABL.

Code	Description
0017	CLOSE failed on MIAMTT.
0018	READ failed on MICM Record 2014.
0019	READ failed on MICM Record 1001.
0020	READ failed on MICM Record 0307.
0024	GET failed on BNK.
1960	GET EQUAL failed on MICM Record 2023 for Institution Zero.
1961	GET NEXT failed on MICM Record 2023 for Institution Zero.
1962	Maximum number of MICM Record 2023 reached for Institution Zero.
1963	GET EQUAL failed on MICM Record 2023.
1964	GET NEXT failed on MICM Record 2023.
1965	Maximum number of MICM Record 2023 reached.
3001	GET failed on CSR.
3002	GET EQUAL failed on CRL.
3003	GET EQUAL failed on CFL.
3004	GET NEXT failed on CFL.
3005	More than 960 fields found on CSF.
3006	GET EQUAL failed on CSR.
3007	GET NEXT failed on CSR.
3008	Maximum number of CSR reached.

Rerun Procedures	If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.
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MIR120 – Customer Key List

Purpose This program lists the MICM Master File Name and Address Record customer keys as indicated by the following control card options. The first option lists the customer keys for each institution or group of institutions. The second option lists the customer keys on hard copy, fiche, or both, depending upon the print option ('1', '2', or '3'). If a control card is not present, all institutions are generated. The control card is inserted in the job stream immediately before the end-of-data card and after the execute card.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
M98	MI0980-RECORD	0980 – Customer Name and Address Information Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card (opt)	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-010 – Customer Key List

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 06	4	Starting institution number.
07 – 10	4	Ending institution number.
11 – 11	1	Print option. Valid entries are: 0 No print, no fiche. 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
12 – 80	69	Not used.

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

Code	Description
0001	GET failed on BNK.
0002	System number on the control card is invalid.
0003	Starting or ending institution number on the control card is invalid.
0004	Print option on the control card is invalid.
0005	GET EQUAL failed on MICM Record 0980.
0006	GET NEXT failed on MICM Record 0980.
0007	GET failed on MICM Record 1001.
0008	GET EQUAL failed on MICM Record 0980.
0009	API GLOBAL CLOSE failed.
0010	GET failed on BNK.

Rerun Procedures If the program aborts, contact the MICM Programmer. Run the job exactly as before, after correcting the error.

MIR140 – Customer Name and Address List

Purpose

This program lists the Name Address Records as indicated by the control card options. The first option lists all Customer Name and Address Records for each institution or group of institutions. The second option indicates the Customer Name and Address Records that are to be listed on hard copy, fiche, or both, depending on the print code ('1', '2', or '3'). The third option indicates a range of Customer Name and Address Records that can be selected within an institution. The fourth option indicates if Customer and/or Application Alternate Name and Address Records are included in the report.

If a control card is not present, then all institutions are printed, including the Customer/Application Alternate Name and Address Records. The control card is inserted in the job stream immediately before the end-of-data card and after the execute card.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
M82	MI0982-RECORD	0982 – Customer Alternate Name and Address Record
M84	MI0984-RECORD	0984 – Application Alternate Name and Address Record
M98	MI0980-RECORD	0980 – Customer Name and Address Information Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card (opt)	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-020 – Master File Name and Address List

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 06	4	Starting institution number.
07 – 10	4	Ending institution number.
11 – 11	1	Print option. Valid entries are: 0 No print, no fiche. 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
12 – 13	2	Form code. Any code including blanks in column 10 with the following codes in column 11 directs reports as indicated. Valid entries are: b Reports are not printed on disk. A-J Reports are sent to printer A through J. K Reports are printed on disk. A header precedes each record. All other codes: Reports are printed on standard 'PRINTR'.
14 – 14	1	Letter of the alphabet from which names and addresses begin to be listed.
15 – 15	1	Letter of the alphabet through which names and addresses are printed.
16 – 16	1	Customer alternate name and address option. Valid entries are: N Do not include Customer Alternate Name and Address in the report. Y Include the Customer Alternate Name and Address in the report.
17 – 17	1	Application alternate name and address option. Valid entries are: N Do not include the Application Alternate Name and Address in the report. Y Include the Application Alternate Name and Address in the report.
18 – 80	63	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	GET failed on BNK, Institution Zero.
0002	System number on the control card is invalid.
0003	Starting or ending institution number on the control card is invalid.
0004	Print option on the control card is invalid.
0005	Customer Alternate Name and Address option on the control card is invalid.
0006	Application Alternate Name and Address option on the control card is invalid.
0007	GET failed on MICM Record 1001.
0008	GET EQUAL failed on MICM Record 0980.
0009	GET NEXT failed on MICM Record 0980.
0010	GET EQUAL failed on MICM Record 0982.
0011	GET NEXT failed on MICM Record 0982.
0012	GET EQUAL failed on MICM Record 0984.
0013	GET NEXT failed on MICM Record 0984.
0014	GET failed on BNK.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR160 – Name and Address Without Account

Purpose This program lists the customers who do not have existing deposit application accounts. An institution or a group of institutions can be listed depending on the option specified in the control card. This program uses extracted files created by the deposit application (program DSD800 exercising the DSKEYS File create option). A maximum of 5 extracted files can be used as input by this program. The actual number of input files used is specified in the control card. If a control card is not present, then all institutions are processed.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
M98	MI0980-RECORD	0980 – Customer Name and Address Information Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
DSKEYS	Deposits Keys File	Input	Disk	Sequential	30
DSKEY2	Deposits Key2 File	Input	Disk	Sequential	30
DSKEY3	Deposits Key3 File	Input	Disk	Sequential	30
DSKEY4	Deposits Key4 File	Input	Disk	Sequential	30
DSKEY5	Deposits Key5 File	Input	Disk	Sequential	30
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MICRDP	Master Record Deletes	Output	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-007 – Name and Address without Account

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 06	4	Starting institution number.
07 – 10	4	Ending institution number.
11 – 11	1	Number of keys file for each application associated with the MICM Master File.
12 – 12	1	Create delete cards option. Valid entries are: b Do not create delete cards. Y Create delete cards.
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	Number of files specified in the control card is not numeric.
0002	Number of files specified in the control card is less than 1 or greater than 5.
0003	The low or high institution number range specified in the control card is in error.
0004	GET failed on BNK.
0005	GET EQUAL failed on MICM Record 0980.
0006	GET NEXT failed on MICM Record 0980.
0007	API GLOBAL CLOSE failed.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before.

MIR170 – Operator Record Report

Purpose This program produces a report listing of all security setup data related to a particular operator/ group or bank.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
OPA	MIOPR-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record
OPR	MIOPR-RECORD	Operator Record
ORA	MIORA-RECORD	Operator Record Authorization Record
PRD	MIPRD-RECORD	Profile Resource Definition Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-908 – Operator Security Report

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Print option. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
04 – 11	8	Operator ID. Used to limit the report to a specific operator.
12 – 15	4	From institution number. Used to limit the report to a specific range.

Columns	Size	Description
16 – 19	4	To institution number. Used to limit the report to a specific range.
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	Control card missing.
0002	System number is invalid.
0003	Print option on the control card is invalid.
0004	GET failed on OPA.
0005	GET failed on BNK.
0006	GET failed on MICM Record 1001.
0007	GET failed on OPR.
0008	GET NEXT failed on OPR.
0009	API GLOBAL CLOSE failed.
0010	GET NEXT failed on OPA.
0011	GET failed on OPP.
0012	GET NEXT failed on OPP.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before.

MIR180 – External Transaction ID Maintenance

Purpose This program reads the Profile Resource Definition records and changes specific external transaction ID codes. The codes to be changed are entered through control cards at run time. A maximum of 500 codes can be changed per run.

Single transaction codes may be exploded into many transactions by entering as many transactions as needed with the old external transaction code. For example:

```
00 MIOLDTRN MINEW2
00 MIOLDTRN MINEW3
```

Entering a control card with the new external transaction code being the same as the old external transaction code may retain old transaction codes. For example:

```
00 MIOLDTRN MIOLDTRN
```

Not entering this card will cause the old external transaction codes to be deleted.

To delete dialogue records only, enter a control card with spaces in the new external transaction ID code. For example:

```
00 MIOLDTRN
```

An API backup should be run prior to executing this program and again after successful completion.

API MICM Records

Ext Record Code	Name	Description
M65	MI0307-RECORD	0307 – Application System Report Flags Record
M74	MI1001-RECORD	1001 – Institution Information Record
LOG	MILOG-RECORD	Log Record
PRD	MIPRD-RECORD	Profile Resource Definition Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-008 – External Transaction ID Maintenance Report

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Not used.
04 – 11	8	Old external transaction ID code.
12 – 12	1	Not used.
13 – 20	8	New external transaction ID code.
21 – 80	60	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	No input cards.
0002	System number or institution number in the control cards is invalid.
0003	More than 500 control cards were entered.
0004	Duplicate control cards.
0005	READ NEXT LOCK failed on PRD.
0006	UNLOCK failed on PRD.
0007	GET NEXT failed on PRD.
0008	GET LOCK failed on PRD.
0009	DELETE failed on PRD.
0010	GET EQUAL failed on PRD.
0011	PUT failed on PRD.
0012	API GLOBAL CLOSE failed.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before.

MIR200 – Delete Effective Date and Model Parameters

Purpose This program deletes effective dated and model MICM records. Control card input identifies the institution, record and number of occurrences to keep. It also contains the option to look at effective dated parameters or model parameters. Each control card must choose either effective date or model.

If effective date is chosen, the program bypasses all records with the model indicator. If model is chosen for a record that does not utilize effective dates, the number of occurrences to keep should be zero. If model is chosen for a record that does use effective dates, the program bypasses all records that do not have the model indicator.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
nnn	Any API RECORD	Any MICM record with an effective date

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	I/O	Disk	Random	Variable
MIAMTT	Application Management Table	I/O	Disk	Random	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-055 – Deleted Effective Dated and Model Records

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 06	4	Institution number.
07 – 10	4	Record number.
11 – 12	2	Number of occurrences of record to retain.

Columns	Size	Description
13 – 13	1	Option. Valid entries are: D Date. M Model.
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	GET failed on BNK, Institution Zero.
0002	OPEN failed on MIMAST.
0003	READ NEXT failed on MIMAST.
0004	DELETE failed on MIMAST.
0005	GET LOCK failed on an API record.
0006	GET NEXT LOCK failed on an API record.
0007	DELETE failed on an API record.
0008-0009	READ NEXT failed on MIMAST.
0010	WRITE failed on MIMAST.
0011	GET EQUAL failed on MIMAST.
0012	GET NEXT LOCK failed on an API record.
0013	DELETE failed on an API record.
0014-0015	READ failed on MIAMTT.
0016	READ NEXT failed on MIAMTT.
0017	START failed on MIAMTT.
0018	READ NEXT failed on MIAMTT.
0019	Max number of records exceeded.
0020	OPEN failed on MIMAST.
0021	CLOSE failed on MIAMTT.
0022	CLOSE failed on MIMAST.
0023	GET failed on MICM Record 1001.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before.

MIR300 – Account Verification Test

Purpose This program uses an account number and a routine number to check an account number for validity. Input is on cards, and as many cards as desired can be entered at one time.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-050 – Account Verification Test

Control Card

Columns	Size	Description
01 – 10	10	Account number to be checked for validity.
11 – 12	2	Routine number to be used when checking the validity of the account number.
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
0001-0002	GET failed on BNK, Institution Zero.
0003	GET failed on MICM Record 1001.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before.

MIR370 – Operator Record/Transaction Mass Deletion

Purpose This program reads the Operator records and deletes MIOPR and associated MIOPA and MIOPP records for the institution specified.

API records OPR, OPA, and OPP should be backed up using the Runtime Components program BIS860B or BIS861B, prior to executing this program and again after successful completion.

API MICM Records

Ext Record Code	Name	Description
M65	MI0307-RECORD	0307 – Application System Report Flags Record
M74	MI1001-RECORD	1001 – Institution Information Record
OPA	MIOPA-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record
OPR	MIOPR-RECORD	Operator Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
SORTWK1	Sort Work File	I/O	Disk	Sequential	24
MIWORK	Work File	O/I	Disk	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-370 – Operator Record Mass Deletion Report
00-371 – Operator Records Retained Report

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 06	4	Institution number. Valid entry is 0000.
07 – 07	1	Not used.

Columns	Size	Description
08 – 08	1	Delete operator option. Valid entries are: N or N Do not delete Operator records. Y Delete Operator records.
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	Control card missing.
0002	System number not equal to '00'.
0003	Institution number not numeric.
0004	Delete option on the control card not equal to 'N' or 'Y'.
0005	GET NEXT failed on OPR.
0006	DELETE failed on OPR.
0007	GET NEXT LOCK failed on OPA.
0008	DELETE failed on OPP.
0009	GET NEXT LOCK failed on OPP.
0010	DELETE failed on OPP.
0011	API GLOBAL CLOSE failed.
0012	GET failed on MICM Record 1001.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before.

MIR380 – Mass Add of OPA and OPP Records

Purpose This program will add Operator Authorization and Operator Profile Authorization records for an institution. Selection can be for all operators, operators that have access to a given institution, or access to given institution and given menu ID. Up to 20 Operator Profile Authorization records for Profile Resource Definition (type P) and up to 20 Operator Record Authorization (type R) records may be added.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
OPA	MIOPA-RECORD	Operator Authorization Record
OPP	MIOPP-RECORD	Operator Profile Authorization Record
OPR	MIOPR-RECORD	Operator Record
ORA	MIORA-RECORD	Operator Record Authorization Record
ORG	MIORG-RECORD	Organization Definition Record
PRD	MIPRD-RECORD	Profile Resource Definition Record
RDC	MRDC-RECORD	Resource Description Record

Note: API records OPA and OPP should be backed up using the Runtime Components program BIS860B or BIS861B, prior to executing this program and again after successful completion.

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	MICM Card Input File	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-380 – OPA/OPP Mass Insert Audit Report

Control Card

Operator Authorization Record. This card must be the first card, and only 1 may be entered.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 05	3	Record Type Code. Valid entry is OPA , indicating Operator Authorization Record.
06 – 06	1	Not used
07 – 10	4	Requested institution number. Any operator that has authorization for this institution will be giving authorization for the New Institution (a value of 'ALL ' will give authorization for the New Institution to all operators).
11 – 11	1	Not used.
12 – 19	8	Requested menu ID. Any operator with the Requested Institution Number and with this menu id will be giving authorization for the New Institution
20 – 20	1	Not used.
21 – 24	4	New institution number.
25 – 25	1	Not used.
26 – 33	8	New menu ID.
34 – 34	1	Not used.
35 – 37	3	New organization ID.
38 – 38	1	Not used.
39 – 41	3	New region.
42 – 42	1	Print fiche code. Valid entries are 0, 1, 2, or 3 .
43 – 44	2	Form code.
45 – 80	36	Not used.

Control Card

Operator Profile Authorization

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 05	3	Record type code. Valid entry is OPP , indicating Operator Profile Authorization.
06 – 06	1	Not used.
07 – 08	2	Profile ID sequence.
09 – 09	1	Not used.
10 – 17	8	Profile ID
10 – 18	1	Not used.
19 – 19	1	Profile type. Valid entries are: P Profile Resource Definition. R Operator Record Authorization.
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	System number on the control card is invalid.
0002	First control card is not a Operator Authorization Record type.
0003	Requested institution on the control is invalid.
0004	New institution on the control card is invalid.
0005	GET failed on MICM Record 1001 or the record was not found for the New Institution.
0006	GET failed on RDC or the RDC record was not found to the New Menu ID.
0007	RDC record is not a menu.
0008	GET EQUAL failed on ORG or the ORG record was not found for the New Organization ID.
0009	ORG record not found for the New Organization ID.
0010	Invalid print/fiche code.
0011	System number on the control card is invalid

Code	Description
0012	Control card Type Code is not an Operator Profile Authorization type.
0013	Profile Type on the control card is invalid.
0014	More than 20 Operator Profile Authorization Profile Type P control cards.
0015	GET EQUAL failed on PRD or the PRD record was not found for the Operator Profile Authorization Profile Type P.
0016	PRD record not found for an Operator Profile Authorization Profile Type P.
0017	More than 20 Operator Profile Authorization Profile Type R control cards.
0018	GET EQUAL failed on ORA or the ORA record was not found for the Operator Profile Authorization Profile Type R.
0019	ORA record not found for an Operator Profile Authorization Profile Type R.
0020	No control cards entered.
0021	No Operator Profile Authorization control cards entered.
0022	GET NEXT failed on OPR.
0023	GET NEXT failed on OPA.
0024	GET EQUAL failed on OPA.
0025	PUT failed on OPA.
0026	PUT failed on OPP (Profile Type P).
0027	PUT failed on OPP (Profile Type R).
0028	API GLOBAL CLOSE failed.
0029	GET failed on MCIM Record 1001.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before. The card Image File might require deletion.

MIR400 – Ask Infopoint Update

Purpose This program reads input cards containing desired MICM Ask Infopoint Record information and updates the MICM Ask Infopoint Record. It produces a report that contains the Ask Infopoint Record keywords and descriptions being input by this run. If a set of data input is rejected, it is shown on the report.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
ASK	MIASK-RECORD	Ask Infopoint Record
BNK	MIBNK-RECORD	Institution Control Record
LOG	MILOG-RECORD	Log Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MISORT	MICM Sort File	I/O	Disk	Sequential	1945
PRNTER (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-904 – Ask Infopoint Update

Control Card Three types of input cards are used to update the Ask Infopoint Record: header cards, keyword cards, and text cards. Only 1 header card is used, while up to 24 text cards representing 24 lines of text can be used with each keyword card. Together, these cards contain the data that make up the Ask Infopoint members. Input is free form on the text cards, which allows columns 01 – 80 to contain unrestricted text information.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 on the first card (header card) and the cards that introduce new keywords (keyword cards).
03 – 03	1	Print option. Only on header card. Valid entries are: 0 No print, no fiche. 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
04 – 05	2	Not used.
06 – 12	7	Header/Keyword indicator. On the header card, this field must contain the word, HEADER . On the keyword cards, this field must contain the word, KEYWORD .
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	GET failed on BNK.
0002	GET failed on MICM Record 1001.
0003	Control card missing.
0004	System number is invalid.
0005	Print option on the control card is invalid.
0006	Header on first card is invalid.
0007	Function on first card is invalid.
0008	GET LOCK failed on ASK.
0009	PUT failed on ASK.
0010	REPUT failed on ASK.
0011	API GLOBAL CLOSE failed.

Rerun Procedures

If the program aborts, contact the MICM programmer. Reload the Ask Infopoint Record from the last backup tape, and rerun the job exactly as run before. If you ran the program using the Control Card option that indicates the program is being run in non-updating mode, then the reload is not necessary.

MIR405 – Ask Infopoint Report

Purpose This program produces a report listing of record data contained on the Ask Infopoint Record. The control card determines the actual records listed and can be setup to perform the following:

- List a range of Ask Infopoint records for an institution.
- List all Ask Infopoint records for an institution.
- List a specific Ask Infopoint record for an institution.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
ASK	MIASK-RECORD	Ask Infopoint Record
BNK	MIBNK-RECORD	Institution Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
PRNTER (SYS015)	Printer File	Output	Printer	Sequential	133

Reports 00-905 – Ask Infopoint Report

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 06	4	Institution number.
07 – 07	1	Print option. Valid entries are: <ul style="list-style-type: none"> 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
08 – 27	20	Starting keyword. First of a range of keywords, or a specific keyword if the ending keyword is left blank.
28 – 28	1	Not used.
29 – 48	20	Ending keyword. Last of a range of keywords.
49 – 80	32	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 is invalid.
0002	Institution number is invalid.
0003	Print option on the control card is invalid.
0004	Range specified is invalid.
0005	GET failed on BNK.
0006	GET NEXT failed on BNK.
0007	GET failed on MICM Record 1001.
0008	GET EQUAL failed on ASK.
0009	GET NEXT failed on ASK.
0010	API GLOBAL CLOSE failed.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR410 – Operator Record Update

Purpose This program reads input cards containing desired Operator Record information and updates the Operator Record. It produces a report that contains the OPR operators and descriptions being input by this run. If a set of data input is rejected, it is shown on the report. Also, record can be deleted with program.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
LOG	MILOG-RECORD	Log Record
OPR	MIOPR-RECORD	Operator Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIDSKI	Disk Card File	Input	Card	Sequential	80
PRNTER (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-906 – Operator Record Update

Control Card Three input cards are used to update the Operator Record. The first card is a control card; the next 2 are data cards. Only one control card is used; however, multiple data cards can be used.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 10	8	Control card literal. Valid entry is HEADER .
11 – 15	5	Not used.

Columns	Size	Description
16 – 16	1	Function. This field contains the function to be performed when a duplicate key is encountered. It also is used to indicate if you want to run the program only to edit the input (no updating). Valid entries are: E Edit only – no updating. N If duplicate encountered, do not overlay record using card input. Y If duplicate encountered, overlay record using card input.
17 – 17	1	Not used.
18 – 18	1	Print option. Valid entries are: 0 No print, no fiche. 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
19 – 19	1	Disk input option. Valid entries are: N Do not process disk input file. Y Process disk input file.
20 – 80	61	Not used.

Card 00

The first data card contains parameters that pertain to operator records. The information included in it is outlined below.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 10	8	Operator ID. Valid entry is the user-defined Operator ID code used for online access authorization.
11 – 12	2	Card number. Valid entry is 00 . Enter D to delete a record.
13 – 52	40	Operator name. Valid entry is the name of the operator to be used for reporting purposes.
53 – 60	8	Password. Valid entry is the password used for operator security access.
61 – 64	4	Default institution number.
65 – 68	4	Time limit. Valid entry is the time limit of terminal inactivity by an operator before the operator is automatically signed off. Format is HHMM (greater than 0000 and less than 2401).
69 – 80	12	Not used.

Card 01

The second data card contains parameters that pertain to operator records. The information included in it is outlined below. This card is optional.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 10	8	Operator ID. Valid entry is the user-defined Operator ID code used for online access authorization.
11 – 12	2	Card number. Valid entry is 01 .
13 – 13	1	Date sequence.
14 – 14	1	Date delimiter.
15 – 15	1	Time delimiter.
16 – 16	1	Time format.
17 – 17	1	Use currency code.
18 – 21	4	Currency code.
22 – 22	1	Amount option.
23 – 24	2	Language code.
25 – 25	1	Menu option.
26 – 26	1	Display menu.
27 – 27	1	Delayed menu.
28 – 37	10	Application security codes 01 – 05 . Valid entries are: 01 Reserved for use by the Teller system. 02 – 05 Reserved for future use. Each code is a 2-position field.
38 – 45	8	Group option. This option points to OPA (Operator Authorization Record) and OPP (Operator Profile Authorization Record). When using this option, the OPA and OPP records are not used and should not be established for the operator ID.
46 – 80	35	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	GET failed on BNK.
0002	GET failed on MICM Record 1001.
0003	Control card missing.
0004	System number is invalid.
0005	Operator ID on control card is invalid.
0006	Function on control card is invalid.
0008	Print option on control card is invalid.
0009	Control card data is invalid.
0010	API GLOBAL CLOSE failed.
0011	GET LOCK failed on OPR.
0012	PUT failed on OPR.
0013	REPUT failed on OPR.
0014	GET LOCK failed on OPR.
0015	DELETE failed on OPR.

Rerun Procedures If the program aborts, contact the MICM programmer. Reload the Operator Record from the last backup tape, and rerun the job exactly as run before. If you ran the program using the Control Card option, which indicates the program is being run in non-updating mode, then the reload is not necessary.

MIR415 – Operator Record Report

Purpose This program produces a report listing of all record data contained on the Operator Record.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
OPR	MIOPR-RECORD	Operator Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
PRNTER (SYS015)	Printer File	Output	Printer	Sequential	133

Reports 00-907 – Operator Record Report

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Print option. Valid entries are: 1 Print only, no fiche. 2 Print and fiche. 3 Fiche only.
04 – 04	1	Function code. Valid entries are: b or L Print only. B Produce operator cards. P Produce operator cards only.
05 – 80	76	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 missing.
0002	System number is invalid.
0003	Print option on the control card is invalid.
0004	More than one control card entered.
0005	GET failed on BNK.
0006	GET failed on MICM Record 1001.
0007	GET failed on OPR.
0008	GET NEXT failed on OPR.
0009	API GLOBAL CLOSE failed.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR430 – Batch Organization Control Record Update

Purpose This program reads input cards containing Batch Organization Control Record information and updates the Batch Organization Control Record. It restricts access to MICM records when a batch run is in progress. It can either restrict access to MICM records or limit the access to MICM records for organizations. It produces a report that contains the records being input by this run. If a set of data input is rejected, it is shown on the report. Also, records can be deleted with this program.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BOC	MIBOC-RECORD	Batch Organization Control Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
PRNTER (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-910 – Batch Organization Control Record Update

Control Card

One input card is used to add, update, or delete the Batch Organization Control Record. Multiple control cards can be used to add, update, or delete multiple Batch Organization Control records. When an input card is used for a Batch Organization Control Record that does not exist, the record will be added. If the application code is left blank, all MICM records for that organization will be affected by that control card and overrides all other control cards for that organization.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Not used.
04 – 04	1	Organization. More commonly known as file sets. This field contains the Organization ID for the Batch Organization Control Record being added, updated, or deleted.
05 – 05	1	Not used.
06 – 07	2	<p>Application Code. Valid entries are:</p> <ul style="list-style-type: none"> bb All applications. This will override all other entries for that organization. This entry must be deleted to put restrictions on specific Infopoint product codes. AN Account Analysis. CD De-dupe. DP Deposits. EA Exception Administrator. EF EFAS (Expedited Funds Availability). FS FCS (Financial Control System). II Installment Loans. IQ IQ. MI MICM (Master Information and Control Manager). RF RCIF (Relationship CIF). RP Relationship Pricing. TI Time Investment. TL Transaction Gateway.
08 – 08	1	Not used.
09 – 09	1	<p>Function. This field contains the function to be performed for the Batch Organization Control Record being added, updated, or deleted. Valid entries are:</p> <ul style="list-style-type: none"> C Close. Organization is logically closed. This setting will restrict access to all MICM records. D Delete. The physical record on the MIFBOC file is removed. O Open. Organization is logically open. All records can be accessed without restrictions. R Open Read-Only. Organization is logically open for reading of MICM records. Only inquiry access on MICM records is allowed.
10 – 80	71	Not used.

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

Code	Description
0001	GET LOCK failed on BOC.
0002	REPUT failed on BOC.
0003	PUT failed on BOC.
0004	DELETE failed on BOC.

Rerun Procedures If the program aborts, contact the MICM programmer. Rerun the job exactly as run before.

MIR700 – Application Management Table File Maintenance

Purpose This program maintains the Application Management Table File, Record Definition Table, Record Language Table, Field Definition Table, Field Language Table, Key Definition Table, and the Logical Database Table.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
ASK	MIASK-RECORD	Ask Infopoint Record
CFL	MICFL-RECORD	Field Language Table Record
CLD	MICLD-RECORD	Logical Database Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSK	MICSK-RECORD	Key Field Definition Record
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIAMTC (SYS016)	Application Management Card Image Table File	Input	Card	Sequential	80
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MIAMTT	Application Management Table	I/O	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	Invalid Stat code.
0002	OPEN failed on MIAMTT.
0003	READ failed on MIAMTT.

Code	Description
0004	REWRITE failed on MIAMTT.
0005	ADD failed on MIAMTT.
0006	DELETE failed on MIAMTT.
0007	GET EQUAL LOCK failed on CSR.
0008	GET NEXT failed on CSR.
0009	DELETE failed on CSR.
0010	UNLOCK failed on CSR.
0011	GET EQUAL LOCK failed on CSK.
0012	GET NEXT failed on CSK.
0013	DELETE failed on CSK.
0014	UNLOCK failed on CSK.
0015	GET LOCK failed on CSR.
0016	DELETE failed on CSR.
0017	GET EQUAL failed on CFL.
0018	GET NEXT failed on CFL.
0019	DELETE failed on CFL.
0020	UNLOCK failed on CFL.
0021	GET EQUAL failed on CRL.
0022	GET NEXT failed on CRL.
0023	DELETE failed on CRL.
0024	UNLOCK failed on CRL.
0025	PUT failed on CSL.
0026	GET LOCK failed on CSR.
0027	REPUT failed on CSR.
0028	PUT failed on CRL.
0029	GET LOCK failed on CRL.
0030	REPUT failed on CRL.
0031	PUT failed on CSR.
0032	GET failed on CSR.
0033	REPUT failed on CSR.
0034	PUT failed on CRL.
0035	GET LOCK failed on CRL.

Code	Description
0036	REPUT failed on CRL.
0037	PUT failed on CSF.
0038	PUT failed on CFL.
0039	PUT failed on CSK.
0040	PUT failed on CLD.
0041	READ failed on MIAMTT.
0042	READ NEXT failed on MIAMTT.
0043	CLOSE failed on MIAMTT.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR710 – Application Management Table File Print/Punch

Purpose This program prints the Application Management Table File Master List or reproduces the card image input to MIR700 from the Table File. The Master List and/or the card image for selected records can be produced by the use of control cards.

Also this program, with a control card option, produces the Transparency Control Table. This table is an assembler CSECT and must be assembled as a loadable PHASE.

API MICM Records

Ext Record Code	Name	Description
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIAMTT	Application Management Table File	Input	Disk	Sequential	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MIAMTP (SYS017)	Card Punch File	Output	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-710 – Application Management Table Master List

Control Card

The control cards are optional. If there are no control cards, the program produces the Application Management Table Master List for all records on the Application Management Table File.

Card 01

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Card type. Valid entry is 1 .
04 – 04	1	Function code. Valid entries are: b or L Print Application Management Table Master List. B Reproduce card images and print Application Management Table Master List. P Reproduce card images. T Reproduce Transparency Control Table.
05 – 05	1	All records option. Unless a value of A is specified, Card 02 must be used. Valid entries are: b Process record(s) indicated on Card 02. A Process all records.
06 – 06	1	Change flag. Punch only fields that were changed online. Valid entry is Y , indicating to punch only fields that were changed.
07 – 08	2	Select application. This option is used in conjunction with the All Records Option.
09 – 09	1	Print summary only. This option will suppress the printing of field lines and print only the record information. Valid entries are: b Print complete listing. Y Print on record information.
10 – 10	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. 7 Day, alpha month, blank, year. 8 Alpha month, day, blank, year.

Columns	Size	Description
11 – 11	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than `N' are permitted as a delimiter.
12 – 80	69	Not used.

Card 02

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Card type. Valid entry is 2 .
04 – 06	3	Record code.
07 – 08	2	Application code. Single character application code followed by a blank. Valid entries are: A Customer Profitability. B Combined Statement. C Collections Management. D Deposits/EFAS. F FCS. G Cashtran (Reserved). I Time Investment. J Account Analysis. L Installment Loans. M MICM. N Exception Administrator. O Mortgage Loans. P SuperMICR II. Q Commercial Loans. R Relationship CIF. S Relationship Pricing. T Teller. U De-dupe. V Lines of Commitments. Y Combined Interest.
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 is not 00 on the first control card.
0002	First control card is not a card type 1.
0003	Function code on card type 1 is invalid.
0004	All records option on card type 1 is invalid.
0005	System number is not 00 .
0006	Control card is not a type 2.
0007	Application Management Table record in the control card was not found.
0008	START failed on MIAMTT.
0009	READ NEXT failed on MIAMTT.
0010	START failed on MIAMTT.
0011	READ NEXT failed on MIAMTT.
0012	Duplicate form number on API record on the Application Management Table.
0013	More than 200 entries on the Transparency Control Table.
0014	GET failed on CSR.
0015	GET failed on CSR.
0016	GET NEXT failed on CSF.
0017	CLOSE failed on MIAMTT.
0018	API GLOBAL CLOSE failed.
0019	Date sequence on the control card is invalid.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR720 – Merge Map File Maintenance

Purpose This program adds, deletes, and replaces Merge Mapping Information records.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
MMP	MIMMP-RECORD	Merge Mapping Information Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIMMPC (SYS016)	Merge Mapping Card File	Input	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-720 – Merge Mapping File Maintenance

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Card type. Valid entry is C.
04 – 04	1	Print fiche option. Valid entries are: b or 1 Print only, no fiche. 0 No print, no fiche. 2 Print and fiche. 3 Fiche only.
05 – 05	1	Log option. Valid entries are: b or N Do not write to the log file. Y Write to the log file.
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.
0002	READ failed on MICM Record 1001, Institution Zero.
0003	There is no card input.
0004	System number is not '00' on the first control card.
0005	Print fiche code on the control card is invalid.
0006	Log option on the control card is not 'N' or 'Y'.
0007	GET LOCK failed on MMP.
0008	REPUT failed on MMP.
0009	PUT failed on MMP.
0010	DELETE failed on MMP.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR721 – Merge Map File Print/Punch

Purpose This program prints the Merge Mapping Master List report or reproduces the card image input to MIR721 from the Table file. The report and/or the card image for selected records can be produced by the use of the control cards.

API MICM Records

Ext Record Code	Name	Description
M74	MI1001-RECORD	1001 – Institution Information Record
BNK	MIBNK-RECORD	Institution Control Record
MMP	MIMMP-RECORD	Merge Mapping Information Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIAMTT	Application Management File	Input	Disk	Sequential	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MIMMPP (SYS017)	Card Punch File	Output	Card	Sequential	80
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-721 – Merge Mapping Master List

Control Card The control cards are optional. If there are no control cards, the program produces the Master List for all records on the Merge Mapping Information Record.

Card 01

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Card type. Valid entry is 1.

Columns	Size	Description
04 – 04	1	Function code. Valid entries are: b or L Print the Merge Mapping Master List. B Reproduce card images and prints the Merge Mapping Master List. P Reproduce card images.
05 – 05	1	All records option. Valid entries are: b or N Not all records. A All records.
06 – 06	1	Print fiche option. Valid entries are: b or 1 Print only, no fiche. 0 No print, no fiche. 2 Print and fiche. 3 Fiche only.
07 – 80	74	Not used.

Card 02

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Card type. Valid entry is 2 .
04 – 05	2	Language code.
06 – 13	8	Panel name.
14 – 16	3	Record code.
17 – 18	2	Application code.
19 – 19	1	Accumulation code.
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.
0002	GET failed on MICM Record 1001.
0003	System number is not '00' on the first control card.
0004	First control card type is not a 1.
0005	Function code on card type 1 is invalid.

Code	Description
0006	All records code on card type 1 is invalid.
0007	Print fiche code on the control card is invalid.
0008	System number is not '00' on the first control card.
0009	Control card type is not a 2.
0010	Merge Mapping File record on the control card not found.
0011	GET EQUAL failed on MMP.
0012	GET NEXT failed on MMP.
0013	GET EQUAL failed on MMP.
0014	GET NEXT failed on MMP.
0015	START/READ NEXT failed on MIAMTT.
0016	READ NEXT failed on MIAMTT.
0017	CLOSE failed on MIMMPP.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before, after correcting the error.

MIR730 – Create Application Management Table Cards

Purpose This program reads COBOL copybooks and produces card input to MIR700. Token cards can optionally be processed. Multiple copybooks can be processed at one time when the Match or MICM options are not in use.

Note: When stacking copybooks, place a card that contains '*****END OF COPYBOOK' between copybooks.

API MICM Records None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICRDC (SYS016)	Control Card File	Input	Card	Sequential	80
MIAMTT	Application Management Table	Input	Disk	Random	Variable
MIAMTP (SYS017)	Card Punch File	Output	Card	Sequential	80
PRNTER (SYS015)	Printer File	Output	Printer	Sequential	133

Reports 00-730 – Create Application Management Cards

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 05	3	Control card tag. Valid entry is CTL .
06 – 08	3	Application management record code.
09 – 10	2	Application management application code.
11 – 14	4	MICM record number, when processing MICM Master Record.
15 – 15	1	Lower case option. Valid entry is Y , indicating to set all but the first character of all words in the AMT field name to lower case.
16 – 16	1	Token option. Valid entries are: b or N Do not use Token name. Y Use the Token name for the AMT field name.

Columns	Size	Description
17 – 17	1	List option. Valid entries are: N Do not list input cards. Y List input cards.
18 – 18	1	AMT match option. This option is used to match the old copybook to the AMT file that contains the old entries, and by matching the COBOL name to the new copybook, preserve the old field entries, changing only the record length, record displacement, decimal position, and input length. Input is set up with the new copybook by first ending with a card that contains the value of '*****OLD COPYBOOK*****', followed by the copybook that matches the AMT file. Valid entries are: b or N Do not perform copybook match. Y Perform copybook match.
19 – 19	1	Dash option. Valid entries are: b or Y Do not skip to the first dash to build the field name. Start with the position in the COBOL name or Token name. N Skip to the first dash.
20 – 20	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. 7 Day, alpha month, blank, year. 8 Alpha month, day, blank, year.
21 – 21	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than 'N' are permitted as a delimiter.
22 – 80	59	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	No card input.
0002	Control card missing, columns 1 – 5 not equal to '00CTL'.
0003	MICM record number not spaces or numeric on the control card.
0004	Token option on the control card is invalid.
0005	List option on the control card is invalid.
0006	Match option on the control card is invalid.
0007	The Application Management Table record was not found on the entries in the control card.
0008	The displacement in the old copybook could not be found on the Application Management Table record. (AMT does not match the old copybook).
0009-0011	Maximum number of AMT entries reached.
0012	START/READ NEXT failed on MIAMTT.
0013	READ failed on MIAMTT.
0014	READ NEXT failed on MIAMTT.
0015	CLOSE failed on MIAMTT.
0016	Date sequence on the control card is invalid.

Rerun Procedures If the program aborts, correct errors and run the job exactly as before.

MIR750 – Update the Record Definition and Logical Database Tables

Purpose This loads the BNKBIPD1 and BNKBIPD2 API tables and then adds or updates the Record Definition Table Record and the Logical Database Table Record. This program must be run any time the API tables are changed. Fields not populated by this program will be preserved.

API MICM Records

Ext Record Code	Name	Description
CLD	MICLD-RECORD	Logical Database Table Record
CSR	MICSR-RECORD	Record Definition Table

Files None

Reports None

Control Card None

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

Code	Description
0001	An error occurred when loading the BNKBIPD1 and BNKBIPD2 tables.
0002	PUT failed on CSR.
0003	GET LOCK failed on CSR.
0004	REPUT failed on CSR.
0005	PUT failed on CLD.
0006	API GLOBAL CLOSE failed.

Rerun Procedures If the program aborts, correct errors, and run the job exactly as before.

MIR770 – Create AMT Language Records Tables

Purpose This program adds the Application Management Table records for different languages.

API MICM Records

Ext Record Code	Name	Description
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSR	MICSR-RECORD	Record Definition Table

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIAMTT	Application Management Table	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	GET NEXT failed on CRL.
0002	GET EQUAL failed on CFL.
0003	GET NEXT failed on CFL.
0004	GET failed on CSR.
0005	OPEN OUTPUT failed on MIAMTT.
0006	READ failed on MIAMTT.
0007	REWRITE failed on MIAMTT.
0008	ADD failed on MIAMTT.
0009	DELETE failed on MIAMTT.
0010	START/READ NEXT failed on MIAMTT.
0011	READ NEXT failed on MIAMTT.

	Code	Description
	0012	CLOSE failed on MIAMTT.
	0013	API GLOBAL CLOSE failed.
Rerun Procedures	If the program aborts, correct errors, and run the job exactly as before.	

MIR800 – Merge File Create

Purpose

This program copies MICM Master File records, for any or all institutions, or a range of records within the institutions to tape, creating the Merge File. Institution numbers can be changed as they are copied to the Merge File tape for the creation of new institution records. Options are selected by entering a control card for each institution. If no range of records is entered, the records for an institution are copied. If a new institution number is entered, the control cards must be in sequence by new institution number. If no new institution number is entered, the current institution number is retained when copied. If no control card is entered at all, all records for all institutions are copied. Control cards must be in ascending order by current institution within new institution. The control cards are inserted in the job stream immediately preceding the end of data card and following the execute card.

This job run is necessary when consolidating 2 MICM Master File into a single Master File. This run creates the Merge File (MICM Master File Image) used in the reload process, program MID820, exercising the merge option.

API MICM Records

None

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MIMAST	MICM Master File	Input	Disk	Sequential	Variable
MIMERG	Merge File	Output	Tape	Sequential	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-012 – Merge File Create Report

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 06	4	Current institution number.
07 – 10	4	New institution number.

Columns	Size	Description
11 – 14	4	Starting record number.
15 – 18	4	Ending record number.
19 – 19	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: <ol style="list-style-type: none"> 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. 7 Day, alpha month, blank, year. 8 Alpha month, day, blank, year.
20 – 20	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than `N' are permitted as a delimiter.
21 – 80	60	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	START/READ NEXT failed on MIMAST.
0002	READ NEXT failed on MIMAST.
0003	System number on the control card is invalid.
0004	Institution number on the control card is invalid.
0005	Starting record number on the control card is invalid.
0006	Ending record number on the control card is invalid.
0007	Ending record number on the control card is less than starting record number.
0008	START/READ NEXT failed on MIMAST.
0009	READ NEXT failed on MIMAST.
0010	Date sequence on the control card is invalid.

Rerun Procedures

If the program aborts, contact the MICM programmer. Run the job exactly as before.

MIR820 – MICM Online File Recovery

Purpose

This program recovers MICM records that were updated by CICS. The CICS Journal File is used as input to this program. A control card is used to control the processing of this program. Input Journal files can be on disk or tape. Either type of file can be used as input during a single run of the program. One or two can be disk, and 1 to 9 can be tape. Also, this program can recover API Log files for all applications.

For MVS, the Log record must be copied using the COMPAT41 option and the CICS journal control card option in column 69 must be a 'Y'.

```
//DFHJUP   EXEC  PGM=DFHJUP
//STEPLIB DD   DSN=CICSTS32.CICS.SDFHLOAD,DISP=SHR
//SYSPRINT DD   SYSOUT=*
//SYSOUT   DD   SYSOUT=*
//SYSUT1   DD   DSN=BNKCICS.A01ICDVA.DFHJ01,          THIS IS A LOG
                        STREAM
//          DCB=BLKSIZE=32760,
//          SUBSYS=(LOGR,DFHLGCV,
//          'FROM=(2008/296,12:50),TO=YOUNGEST,LOCAL',
//          'COMPAT41')
//SYSUT4   DD   DSN=BNKDV.FSM.MI51.DFHJ01A,DISP=(,CATLG,DELETE),
//          UNIT=SYSDA,SPACE=(CYL,(3,1))
//SYSIN    DD   *
OPTION COPY
END
/*
```

API MICM Records

Ext Record Code	Name	Description
LOG	MILOG-RECORD	Log Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIJRNT	Journal File	Input	Tape	Sequential	32760
MICARD (SYS016)	Control Card File	Input	Disk	Sequential	80
MIJRND	Journal File	Input	Disk	Sequential	32760
MIJR2D	Journal File	Input	Disk	Sequential	32760
MISORT	Sort File	I/O	Disk	Sequential	Variable
MIAMTT	Application Management File	I/O	Disk	Random	Variable

Name	Description	Opened	Media	Access Mode	Record Length
MILOGG	MICM Log File	I/O	Disk	Random	307
MIMAST	MICM Master File	I/O	Disk	Random	4096
MITABL	Table File	I/O	Disk	Random	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports

00-990 – Online File Recovery

Control Card

The following information details the control card format and options. All the cards are inserted in the job stream after the execute card and before the end-of-data card.

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00 .
03 – 03	1	Not used.
04 – 04	1	Disk. Valid entries are: 0 No disk input. 1 Only 1 disk input – MIJRND. 2 2 disk input – MIJRND and MIJR2D.
05 – 05	1	Tape. Valid entries are: 0 No tape input. 1 – 9 Number of tapes or cartridges used for input.
06 – 06	1	Not used.
07 – 12	6	Start date.
13 – 13	1	Not used.
14 – 19	6	Start time. Format is HHMMSS.
20 – 20	1	Not used.
21 – 26	6	End date.
27 – 27	1	Not used.
28 – 33	6	End time. Format is HHMMSS.
34 – 34	1	Not used.
35 – 35	1	Print fiche code. Valid entries are 0, 1, 2, or 3 .
36 – 37	2	Form code.
38 – 38	1	Not used.

Columns	Size	Description
39 – 39	1	Lines per inch. Valid entries are 6 or 8 .
40 – 40	1	Not used.
41 – 41	1	File suffix.
42 – 42	1	Not used.
43 – 50	8	API Log file dataset name. The seventh position is the file set code, i.e., MIFLOGA would be the entry for MICM's API file set A. Valid entries are: ANLOG Account Analysis. DPFL16 Deposits. EAFL14 Exception Administrator. FSFL21 Financial Control System. MIFLOG MICM. RFFL02 Relationship CIF. RFFLOG Relationship Pricing. TLFLOG Transaction Gateway. TIFL11 Time Investment.
51 – 51	1	Not used.
52 – 53	2	Application program interface application code. Valid entries are: AN Account Analysis DP Deposits. EA Exception Administrator. FS Financial Control System. MI MICM. RF Relationship CIF. RP Relationship Pricing. TL Transaction Gateway. TI Time Investment.
54 – 54	1	Not used.
55 – 57	3	Application program interface record code. Valid entries: ALG Account Analysis. JPY Deposits. KQQ Exception Administrator. FXL Financial Control System. OAJ MICM. GNY Relationship CIF. SAE Relationship Pricing. NLG Transaction Gateway. RBE Time Investment.

Columns	Size	Description
58 – 58	1	Not used.
59 – 66	8	Files to be recovered. Valid entries are: A MIAMTT – Application Management. M MICM Master File (old). T MITABL – MICM Table File (old).
67 – 67	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. 7 Day, alpha month, blank, year. 8 Alpha month, day, blank, year.
68 – 68	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than `N' are permitted as a delimiter.
69 – 69	1	CICS journal. Indicates whether the CICS Journal used to recover files was created as compatible with CICS Journal 4.1. VSE must use b or N . Valid entries are: b Not compatible with CICS Journal 4.1. N Not compatible with CICS Journal 4.1. Y Compatible with CICS Journal 4.1. Required for MVS.
70 – 80	11	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 is not '00'.
0002	Control card missing.
0003	Invalid value for disk indicator.
0004	Tape indicator is not numeric.
0005	Start date is not numeric.
0006	Institution number is not numeric.
0007	Empty BKUP file.
0008	ADD failed on MITABL.

Code	Description
0009	CLOSE failed on MITABL.
0010	ADD failed on MIAMTT.
0011	CLOSE failed on MIAMTT.
0012	ADD failed on MIMAST.
0013	CLOSE failed on MIMAST.
0014	Lines per inch are not equal to '6' or '8'.
0015	Control Card Missing.
0016	SR-VMLLGTH greater than 52.
0017	No Input File.
0018	Invalid function.
0019	OPEN failed on MIMAST.
0020	OPEN failed on MILOGG.
0021	OPEN failed on MITABL.
0022	OPEN failed on MIAMTT.
0023	UPDATE failed on MIMAST.
0024	CLOSE failed on MIMAST.
0025	UPDATE failed on MILOGG.
0026	CLOSE failed on MILOGG.
0027	UPDATE failed on MITABL.
0028	CLOSE failed on MITABL.
0029	UPDATE failed on MIAMTT.
0030	CLOSE failed on MIAMTT.
0031	UPDATE failed on LOG.
0032	CLOSE failed on LOG.
0033	Date sequence on the control card is invalid.

Rerun Procedures Correct the error, then run the job exactly as before.

MIR825 – API Record Recovery

Purpose This program reads the API Log Record and recovers API records from any API log records. A control card indicates which records are recovered as well as starting/ending dates and time for Log Record retrieval. This program is designed for use in disaster situations where a backup is reloaded and log maintenance is reapplied.

API MICM Records All records

Files

Name	Description	Opened	Media	Access Mode	Record Length
MICARD (SYS016)	Control Card File	Input	Card	Sequential	80
MISORT	Sort File	Sort	Disk	Sequential	Variable
PRINTR (SYS015)	Print File	Output	Printer	Sequential	133

Reports 00-991 – Online API Recovery

Control Card

Columns	Size	Description
01 – 02	2	System number. Valid entry is 00.
03 – 03	1	Card type. Valid entry is b .
04 – 11	8	Starting date. Format is YYYYMMDD. Valid entry can be b to roll forward all log records.
12 – 12	1	Not used.
13 – 18	6	Starting time. Format is HHMMSS. Valid entry can be b to roll forward all log records.
19 – 19	1	Not used.
20 – 27	8	Ending date. Format is YYYYMMDD. Valid entry can be b to roll forward all log records.
28 – 28	1	Not used.
29 – 34	6	Ending time. Format is HHMMSS. Valid entry can be b to roll forward all log records.
35 – 35	1	Not used.
36 – 36	1	Print fiche code. Valid entries are 0, 1, 2, or 3.
37 – 38	2	Form code.

Columns	Size	Description
39 – 39	1	Not used.
40 – 40	1	Lines per inch. Valid entries are 6 or 8 .
41 – 41	1	Not used.
42 – 45	4	Application program interface log application code. For MICM, IPMI .
46 – 46	1	Not used.
47 – 49	3	Application program interface log record code. For MICM, OAJ .
50 – 50	1	Not used.
51 – 51	1	Date sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. 7 Day, alpha month, blank, year. 8 Alpha month, day, blank, year.
52 – 52	1	Date delimiter. The character used as the separator between the year, month, and day fields. All characters other than 'N' are permitted as a delimiter.
53 – 80	28	Not used.

Control Card Type R

Columns	Size	Description
01 – 02	2	System Number. Valid entry is 00 .
03 – 03	1	Card type. Valid entry is R .
04 – 04	1	Not used.
05 – 07	3	Application programming interface record code. For example, the valid code for the MICM Operator Record is OA1 .
08 – 80	73	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 is not '00'.
0002	Control card type is invalid.
0003	More than one control card type is blank.
0004	Starting date is not numeric.
0005	Ending date is not numeric.
0006	Starting time is not numeric.
0007	Starting time is invalid. Format is HHMMSS. The hours must be '00' to '23'. Minutes and seconds must be '00' to '59'.
0008	Ending time is not numeric.
0009	Starting time is invalid. Format is HHMMSS. The hours must be '00' to '23'. Minutes and seconds must be '00' to '59'.
0010	Print fiche code is not '0','1','2' or '3'.
0011	Lines per inch are not '6' or '8'.
0012	API Log Application was not entered on the control card.
0013	API Log Record Code was not entered on the control card.
0014	More than 2000 control card Type R.
0015	Control card missing.
0016	Error reading the LOG File.
0017	API GET LOCK failed.
0018	API REPUT failed.
0019	API PUT failed.
0020	API DELETE failed.
0021	API GLOBAL CLOSE failed.
0022	Date sequence on the control card is invalid.

Rerun Procedures If the program aborts, contact the MICM programmer. Run the job exactly as before.

Called Programs

MIB700 – Log Retrieval

Purpose This program retrieves records from the Log Database. It compares, field by field, all records that have a maintenance type code (MILOG-FUNCTION = 'M'). It produces before and after images of fields that changed each time the program was called.

This following sort order is used to place the records in order by API record code.

1. Institution Number
2. API Application Code
3. Record Identification Code
4. Record Key
5. Audit Date
6. Audit Time
7. Unique
8. Image Indicator

Refer to the Log Retrieval Block section of the Application Files chapter in this guide for details on using the Log Retrieval subprogram. This section explains all of the fields that are passed back to the calling program.

API MICM Records

Ext Record Code	Name	Description
M14	MI2014-RECORD	2014 – MICM Institution Parameters Record
M23	MI2023-RECORD	2023 – Product Code Information Record
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record
LOG	MILOG-RECORD	Log Record

Files

Name	Description	Opened	Media	Access Mode	Record Length
MIAMTT	Application Management Table	Input	Disk	Random	Variable
SORTWK1	Sort Work File	I/O	Disk	Sequential	Variable
MILOGS	Sorted Log File	I/O	Disk	Sequential	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
1960	GET EQUAL failed on MICM Record 2023 for Institution Zero.
1961	GET NEXT failed on MICM Record 2023 for Institution Zero.
1962	Maximum number of MICM Record 2023 reached for Institution Zero.
1963	GET EQUAL failed on MICM Record 2023.
1964	GET NEXT failed on MICM Record 2023.
1965	Maximum number of MICM Record 2023 reached.
7001	Record missing from the Application Management Table File search.
7002	Invalid sort return code search.
7003	READ NEXT failed on LOG.
7004	MILOGL-END code is invalid.
7005	API GLOBAL CLOSE failed.
7007	Record missing from the Application Management Table File search.
7008-7009	GET failed on CSR.
7011	GET EQUAL failed on CFL.
7012	GET NEXT failed on CFL.
7013	Maximum number of MIAMTT entries has been reached.
7014	GET EQUAL failed on CSR.

Code	Description
7015	GET NEXT failed on CSR.
7016	Maximum number of records for product codes table has been reached.
7017	GET failed on MICM Record 2014.

MIB716 – Batch Edit Interface with AMT

Purpose This program performs field editing based on codes from the Application Management Table.

API MICM Records

Ext Record Code	Name	Description
M01	MI2001-RECORD	2001 – Branch Information Record
M14	MI2014-RECORD	2014 – MICM Institution Parameters Record
M22	MI2022-RECORD	2022 – Language Table Record
M23	MI2023-RECORD	2023 – Product Code Information Record
M71	MI7001-RECORD	7001 – Translation Tables Record
M85	MI0242-RECORD	0242 – Officer/Employee Information Record
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record

Files None

Reports None

Control Card None

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

Code	Description
1960	GET EQUAL failed on MICM Record 2023 for Institution Zero.
1961	GET NEXT failed on MICM Record 2023 for Institution Zero.
1962	Maximum number of MICM Record 2023 reached for Institution Zero.
1963	GET EQUAL failed on MICM Record 2023.
1964	GET NEXT failed on MICM Record 2023.
1965	Maximum number of MICM Record 2023 reached.
7160	Bad edit code on the AMT search.

Code	Description
7161	GET EQUAL failed on MICM Record 7001 search.
7162	GET NEXT failed on MICM Record 7001 search.
7163	GET EQUAL failed on MICM Record 2001 search.
7164	GET failed on MICM Record 2022.
7165	GET failed on CSR.
7166	GET failed on CRR.
7167	GET EQUAL failed on CFL.
7168	GET NEXT failed on CFL.
7169	Maximum number of records for product codes table has been reached.
7170	GET failed on MICM Record 0242.
7171	GET failed on MICM Record 2014.

MIB780 – Events Batch Message Processor

Purpose

This program processes the event request. It reads the Application Management Table records, calls program MIB785 (Event Message Formatter), and returns the address of storage location where the event message is located. The caller must test the MICM Event Message Status (MIBEM-STAT) for a good return code (value 00) before sending the message to the Unicenter Event Manager.

The event is filtered by field, as determined by the MICM Application Management Table (AMT) defined for the API record ID. The AMT 'User's Code' field controls which fields are processed. If the MICM Event Message Processor Record Function is set to 'M', the before/after records are compared and, if different, are processed. The type of editing performed is as follows:

- E** No editing. Do not suppress leading zeros and trailing spaces.
- N** Normal numeric editing controlled by the Print Format Code on the Application Management Table.
- S** Suppress leading zeros and trailing spaces. Fields of all zeros contain one zero, and fields of all spaces contain one space.

If the 'User's Code' is not an 'E', 'N' or S, the field is not included in the event message, regardless of whether or not the value has changed. The record key fields as indicated by AMT 'Field Entry' is always included in the event message. The following three storage addresses are passed in the call parameters to this program.

MIBEM-AREA Address
BEFORE-IMAGE Address (4096K maximum length)
AFTER-IMAGE Address (4096K maximum length)

The AMT record ID, AMT application ID, and function code are passed to the called program. All other fields in the MIBEM-AREA are return values. The before image and/or after image is passed as determined by the maintenance function. The after image is only required when a modify (M) function is being processed.

The Event Message Processor has the storage that contains the formatted message. The address of this area is returned as a pointer in the MIBEM-AREA.

Refer to the Events Message Processor call block for detail information about the call parameters. The following is an example of the code that could be used:

```
01 BICREVT.  
   COPY BICREVT.  
01 MIBEM-RECORD.  
   COPY MIBEM.  
01 LOG-REC-BEFORE          PIC X(4096).  
01 LOG-REC-AFTER          PIC X(4096).  
01 WS-COMMAREA.  
   03 COM-MIBEM-RECORD     POINTER.  
   03 COM-LOG-REC-BEFORE   POINTER.  
   03 COM-LOG-REC-AFTER    POINTER.  
  
LINKAGE SECTION.  
01 MIBEM-MESSAGE          PIC X(65536).  
  
PROCEDURE DIVISION.  
*   Get address for call block  
    CALL 'BIRPADRB' USING  
        MIBEM-RECORD  
        COM-MIBEM-RECORD.  
    CALL 'BIRPADRB' USING  
        LOG-REC-BEFORE  
        COM-LOG-REC-BEFORE.  
    CALL 'BIRPADRB' USING  
        LOG-REC-AFTER  
        COM-LOG-REC-AFTER.  
  
*   Calling Bisworks Event Batch Message Processor  
    MOVE 'FAD' TO MIBEM-AMT-REC-ID.  
    MOVE 'F' TO MIBEM-AMT-APPL.  
    MOVE 'M' TO MIBEM-FUNC.  
    CALL 'MIB780' USING  
        WS-COMMAREA.  
    SET ADDRESS OF MIBEM-MESSAGE TO MIBEM-MESSAGE-ADDR.  
    IF MIBEM-STAT EQUAL TO ZEROS  
        GO TO CALL-EVENT-SERVER.  
    IF MIBEM-STAT EQUAL TO 23  
        GO TO NO-EVENT.  
    GO TO DISPLAY-ERROR.  
  
CALL-EVENT-SERVER.  
MOVE REQ-PUT TO EVT-REQ-VERB.  
MOVE MIBEM-MESSAGE-LGTH TO EVT-MSG-LENGTH.  
    CALL 'BISEVT' USING  
        BICRPSB  
        BICRSRB  
        BICREVT  
        MIBEM-MESSAGE.  
    IF EVT-STAT IS NOT EQUAL TO SPACE  
        TAKE ACTION
```

API MICM Records

Ext Record Code	Name	Description
CFL	MICFL-RECORD	Field Language Table Record
CRL	MICRL-RECORD	Record Language Table Record
CSF	MICSF-RECORD	Field Definition Table Record
CSR	MICSR-RECORD	Record Definition Table Record

Files None

Reports None

Control Card None

Abort Information If the program detects a processing irregularity, it passes back one of the following abort codes in field MIBEM-MICM-ABORT. The call is responsible to display all diagnostic information in the Event Manager Message Processor call block, putting

Code	Description
3086	Invalid Event Manager Message Processor call block. First 8 positions must be equal to '**MIEM**'.
3072	Record is not on the Application Management File.
7008-7009	GET failed on CSR.
7011	GET EQUAL failed on CFL.
7012	GET NEXT failed on CFL.
7013	Maximum number of MIAMTT entries has been reached.
7014	GET EQUAL failed on CSR.
7015	GET NEXT failed on CSR.
7016	Maximum number of records for product codes table has been reached.

MIB785 – Events Message Formatter

Purpose	<p>This program is called by MIL780 and MIB780. With the use of MICM's Application Management Table (AMT), it creates the Event Message. The AMT 'User's Code' field controls which fields are processed. If the MICM Event Message Processor Record Function is set to a 'M', the before/after records are compared, and if different, are processed. The type of editing performed is as follows:</p> <ul style="list-style-type: none">E No editing. Do not suppress leading zeros and trailing spaces.N Normal numeric editing controlled by the Print Format Code on the Application Management Table.S Suppress leading zeros and trailing spaces. Fields of all zeros contain one zero, and fields of all spaces contain one space. <p>If the 'User's Code' is not an 'E', 'N' or S, the field is not included in the event message, regardless of whether or not the value has changed. The record key fields as indicated by AMT Field Entry are always included in the event message.</p> <p>For example, assume a change to the FAD (FCS Account Detail) API record is made and the G/L account status is changed from 0 (open) to 1 (closed) for Institution 1, G/L Account Number 1021, Level 8, Cost Center 10. This change also causes the audit stamp, close date, and last maintenance date to be updated. The Event Message would be formatted as follows.</p> <p>Note: The actual message is formatted as an uninterrupted string. It is shown here with line breaks for readability.</p> <pre><interbiz> <eventName>ObjectChangeEvent</eventName> <nameSpace>Root\Infopoint\FCS5.0</nameSpace> <objectName> <className>FAD</className> <objectID> <nameValue> <name>INST_NBR</name><type>string</type><value>1</value> </nameValue> <nameValue> <name>GLACCT_NBR</name><type>string</type><value>1021</value> </nameValue> <nameValue> <name>GLACCT_LVL</name><type>string</type><value>8</value> </nameValue> <nameValue><name>COST_CNTR</name><type>string</type><value>10</value> </nameValue> </objectID> </objectName> <msgText><Account record changes></msgText> <property> <name>GLACCT_STATUS</name><type>string</type> <oldvalue>0</oldvalue><newvalue>1</newvalue> </property> </interbiz></pre>
API MICM Records	None

Files	None
Reports	None
Control Card	None
Abort Information	None

Additional Called Programs

The Infopoint applications programs call these standard routines whenever program specifications require these routines. These routines can be identified and incorporated in the Infopoint applications programs by a 'CALL' instruction at the location where it is desired.

The following table shows the copybook name, the called routine they contain, and a description of the routine.

Copybook	CALL Routine	Description
SRACCT	ACCOUNT-VERIFICATION ROUTINE	Verifies account numbers.
MIA020	CHANGE-FILE-NUMBERS	Change the position 5 and 6 of a VSAM DDNAME.
MIA030	TRANSPARENCY-CONTROL-TABLE	Controls which records are to be read from the MICM Master File or via API. Also controls which records are eligible for converting to API records.
MIA040	LOAD-TRANSPARENCY-TABLE	Handles the function of loading and passing to the caller the Transparency Control Table.
SRA044	POWER-SEGMENT SUBROUTINE	Controls the printer forms changes under DOS.
SRA050	VARIABLE-MOVE-LONG ROUTINE	Moves large groups of data without a maximum limitation.
SRA060	ASSEMBLER-LOAD ROUTINE	Handles the function of loading and calling subroutines. This routine handles both MVS and VSE environments.
SRB001	NAME-ADDRESS SUBROUTINE	Retrieves name and address information, customer information, and validates account keys from the Customer Name and Address File. Instruction for using this sub-routine is contained in standard routine SRP023.
SRB044	POWER-SEGMENT SUBROUTINE	Controls the printer forms changes under OS.
SRB098	SNAP-DUMP-ROUTINE	Produces a snapshot hex and character storage dump.
SRB100	NAME-ADDRESS SUBROUTINE	Retrieves information from the Name/Address system, based on the value of SR-NARTN from MICM Record 0211.

Copybook	CALL Routine	Description
SRFICHE	MICRO-FICHE ROUTINE	Copies the data to microfiche.
SRMICR	POCKET-SELECT ROUTINE	Handles the pocket selection of data records.
SRMOVE	VARIABLE-LENGTH-MOVE ROUTINE	Transfers variable length data fields.
SRRPTS	PSEUDO-PRINT ROUTINE	Controls the pseudo printer (remote sites).
SRSEGM	POWER-SEGMENT-PRINT ROUTINE	Causes power to segment the printed output.

Application Files

This chapter describes the non-API files and records maintained and used by MICM. Included are all of the permanent and temporary files and all input data formats.

The files and the records they contain are listed in alphabetical order. Each file and record is introduced by a brief narrative defining the type of information contained and how it is used. Specific attributes associated with each file are listed under File Statistics. The record descriptions are detailed by field. Each field description contains the field name as it is used in the programs, the mode in which it is stored, the COBOL picture used to define the field, displacement information, and a description of the field and the data it contains.

File Descriptions

This section contains detailed record layouts. When several files contain the same record, the record is described once. All subsequent occurrences of that record refer to the original description. When 2 records have the same format but different names, both record names are given, referring to the record that contains the field descriptions. Occasionally, a single record is divided into multiple records, using a redefines clause. When this occurs, each redefinition is preceded by a record description, as if it were an independent record.

Each record layout consists of fields that are described by the following headings:

Field Name	Actual COBOL name used in the record.
Level	Level number of the field, as assigned in the COBOL record.
Mode	Type of field defined. The following codes are used: <ul style="list-style-type: none">B Binary data only. Refers to COMPUTATIONAL halfword (2-byte), fullword (4-byte) and doubleword (8-byte) fields. Fields can be signed or unsigned.C Character, or alphanumeric data.G Group. Represents the fields immediately following.N Numeric data only.NS Numeric data with sign.P Packed numeric data. Refers to unsigned COMPUTATIONAL-3 fields.PS Packed numeric data with sign. Refers to signed COMPUTATIONAL-3 fields.R Record. This field usually represents the entire record.
Picture	COBOL format of the field indicating the field's content, length, whether it is signed or unsigned, and decimal position.
Displacement	Starting and ending position of the field. The first position used is '1'. If the field is defined with an OCCURS clause, the displacement is represented in 1 of 2 ways. When the field has a mode of 'G', the displacement represents the total length of the field multiplied by the number of occurrences. For all other modes, the displacement represents the length of the first occurrence of the field. When a field has a variable length, a 'V' is placed in the second, or ending, position of the displacement.

MI-AMTCFIL – Application Management Card Image Table File

This is the card image for input to the Application Management Table File by program MIR700. Copybook is MISAMTC.

File Statistics

File Type	Card		
Access Method	VSAM Key-sequence Data Set		
Key Length	0000 Bytes		
Key Displacement	0000 Bytes		
External Name	MIAMTC		
Record Name	Library Name	Record Length	
MI-AMTCREC	MISAMTC	0080 Bytes	

MI-AMTCREC – Application Management Table Card Image Record

The following record description shows the format of the Application Management Table Card Image Record.

Field Name	Level	Mode	Picture	Displacement	
MI-AMTCREC Application Management Table Card Image Record.	01	R		1	80
MIAMC-KRECCD Record Code. Data base record name. This name must be the first 3 positions of the Shortname field when creating an SSFILE for Mapper. It is used in conjunction with the Application Code and Field Number to locate the field in the Panel Data Block and the location in the Panel Data Area. Also, Positions 1 – 3 and 7 – 8 of the Shortname field of an SSFILE are used to tell the file handler program (MIL710) which files to process and which Application Management Table records to retrieve.	03	C	X(03)	1	3
MIAMC-FLDNBR Field Number. Number that is assigned to the Data Base field within this record. This code must be in position 4 – 6 of the Short Name field when creating an SSFILE for Mapper. It is used in conjunction with the record name and application code to locate the field in the Panel Data Block and the location in the Panel Data Area.	03	C	X(03)	4	6
MIAMC-KAPPLCD AMT Application ID. The 1-position code assigned to an application. If the Record ID is an API Record ID, this field must be blank.	03	C	X(02)	7	8

Field Name	Level	Mode	Picture	Displacement	
MIAMC-FUNCTION Function. This field is used with Card Type '0'. Valid entries are: A Add new record. D Delete record. R Replace record. 1 Continuation of current Card Type.	03	C	X(01)	9	9
MIAMC-CARDTYPE Card Type. Valid entries are: 0 Card 0 data. 1 Card 1 data. 2 Card 2 data.	03	C	X(01)	10	10
MIAMC-DATA0 Card 0 Data.	03	G		11	80
MIAMC-APIAPPL Application Program Interface Code. Used in conjunction with Record Code for access to records through the API server.	05	C	X(02)	11	12
MIAMC-DDNAME DD Name. The VSAM External File Name when the Data Base Type is 'V', the API record code when the Data Base Type is 'A', the temporary storage item number when the Data Base Type is 'T', and the user exit programs name when the Data Base type is 'X'. This field contains spaces when used for IQ HDT message definitions.	05	C	X(08)	13	20
MIAMC-DBTYPE Data Base Type. Indicates the type of Data Base access to use. Valid entries are: A API access. E Edit only. (No record access.) P Printing only. (No record access.) T Temporary storage. V VSAM access. X User exit.	05	C	X(01)	21	21
MIAMC-LAPIAPPL Log Application ID. Application Interface Code used by Application Management for log purposes. This field contains spaces when used for IQ HDT message definitions.	05	C	X(02)	22	23
MIAMC-LAPIRECID Log Record ID. Application Interface Code record ID used by Application Management for log purposes. This field contains spaces when used for IQ HDT message definitions.	05	C	X(03)	24	26
MIAMC-NBRCARDS Number of Cards. Total number of cards required for entering all of the information contained for this record. Valid entries are 01 – 98 . Reserved for future use.	05	C	X(02)	27	28

Field Name	Level	Mode	Picture	Displacement	
MIAMC-NBRPLINES	05	C	X(02)	29	30
Number of Print Lines. Used to indicate to the master list program how many lines it needs to print the information for this record. Valid entries are 01 – 99 .					
MIAMC-FOPTSUB	05	C	X(02)	31	32
File Option Subscript. Valid entries are 00 – 25 . 00 indicates to use the null file. Entries of 01 to 25 are used to access different manager files. The character used is taken from COMFILOPT. For more information, refer to the Operator/Profile Record.					
MIAMC-RECNAME	05	C	X(40)	33	72
Record Name. Title of Data Base record.					
MIAMC-CMS-SEQNBR0	05	C	X(08)	73	80
CMS Sequence Number.					
MIAMC-DATA01	03	G		11	80
REDEFINES MIAMC-DATA0. Card 1 Data.					
MIAMC-MRECNBR	05	C	X(04)	11	14
MICM Record Number. This form number is used only for MICM Master file records. For non-MICM records leave blank. When this field is left blank, the table record contains high values.					
MIAMC-RECFUNC	05	C	X(01)	15	15
Record Function Control. Code indicating if this record can be added or deleted with Application Management. Valid entries are:					
N Cannot add or delete records.					
Y Can add or delete records.					
MIAMC-MANAGER	05	C	X(02)	16	17
Manager Code. This code is used when creating Maintenance History records. Valid entry is 00 , indicating MICM records.					
MIAMC-VALIDMODEL	05	C	X(01)	18	18
Valid Model. This code indicates whether this form can be used for modeling. This field is used in IQ HDT message definitions to indicate if the function module specified in the user program name is written according to standards. Valid entries are:					
N Cannot be used for modeling. For IQ HDT message definitions, the function module is not written according to standards.					
Y Can be used for modeling. For IQ HDT message definitions, the function module is written according to standards.					
MIAMC-VALIDEFFDT	05	C	X(01)	19	19
Valid Effective Date. This code indicates whether this form can have an effective date. Valid entries are:					
N Cannot have an effective date.					
Y Must have an effective date.					

Field Name	Level	Mode	Picture	Displacement	
MIAMC-VALIDREGION	05	C	X(01)	20	20
Valid Region. This code indicates whether this form can have a region entered. Valid entries are:					
N Cannot have a region entered.					
Y Must have a region entered.					
MIAMC-USERPGRM	05	C	X(08)	21	28
User Program Name. Name of user exit program to be linked to after editing has been performed by MIL710. The user program name must be in the CICS Processing Program Table (PPT). For IQ HDT message definitions, this is the function program ID to be executed with a link.					
MIAMC-OICNTL	05	C	X(01)	29	29
Organization/Institution Control. This code indicates whether this record can be placed only in institution zero and/or can be placed only on the null organization file set. Valid entries are:					
b No control.					
B Both null organization and institution zero only.					
N Never on institution zero.					
O Null organization only.					
Z Institution zero only.					
MIAMC-APIRECCD	05	C	X(03)	30	32
Application Program Interface Record Code. This is the record code that is used for Record/Field security. It is part of the key for the Operator Record Authorization Profile (ORA) Record. For records that are not defined to the API, i.e., VSAM and Temporary Storage records, a 3-position record must be assigned. The first position of the record code must be the same code that is assigned to an application, i.e., 'J' for Deposits.					
FILLER	05	C	X(40)	33	72
Not used.					
MIAMC-CMS-SEQNBR10	05	C	X(08)	73	80
CMS Sequence Number.					
MIAMC-DATA02	03	G		11	80
REDEFINES MIAMC-DATA0.					
MIAMC-CLASS-NAME	05	C	X(50)	11	60
Class Name.					
FILLER	05	C	X(12)	61	72
Not used.					
MIAMC-CMS-SEQNBR10	05	C	X(08)	73	80
CMS Sequence Number.					
MIAMC-DATA1	03	G		11	80
REDEFINES MIAMC-DATA0.					

Field Name	Level	Mode	Picture	Displacement	
MIAMC-ENTRY Field Table Entry.	05	G		11	60
MIAMC-FLDNAME Field Name. Short name of the field. The name appears on printed reports.	07	C	X(15)	11	25
MIAMC-ENTRYTYPE Field Entry Type. Indicates special attributes for the field. Valid entries are: <ul style="list-style-type: none"> A Customer key accumulated value for RCIF only. B Customer key tie breaker for RCIF only. C Customer key alpha portion for RCIF only. D Date audit. E Effective date MICM key only. F Filler area in MICM key. G Region MICM key only. H Field contains the heading information only used by the print program. I Field is contained in the key area and is the institution number. J Date. Format is YYYYMMDD. This date is stored by subtracting 99999999. For example, 19950228 is stored as 8004977J. K Field is contained in the key area. L Record length. M Model MICM key only. N Normal field. O Indicator MICM only. Q MICM record number MICM only. R Field is reserved. S Field is the status field used for MICM maintenance. T Time audit. U User audit. X Normal field but exclude from Maintenance Journal. 	07	C	X(01)	26	26
MIAMC-DECIMAL Decimal Position. Position of the assumed decimal point. (For example, number 11111.222 has a decimal position value of 3.)	07	C	X(01)	27	27
MIAMC-EDITINFO Edit Information. Contains information on how to edit the field.	07	G		28	60
MIAMC-EDEFAULT Default Value. Information to be placed into this field when creating a new record.	09	C	X(05)	28	32
MIAMC-EFORMATCD Edit Format Code. Defines the format of the field on the Master Record. Valid entries are: <ul style="list-style-type: none"> 1 Alphanumeric. 2 Numeric display signed. 3 Numeric packed decimal signed. 	09	C	X(01)	33	33

Field Name	Level	Mode	Picture	Displacement
4	Numeric binary signed.			
6	Numeric display.			
7	Numeric packed decimal.			
8	Numeric binary.			
MIAMC-ECD	09	C	X(03)	34 36
Edit Code. Indicates what type of edit to perform on this field. Valid entries are:				
01	No edit. Field can contain any characters.			
02	Alphanumeric spaces allowed. Field can contain characters 'a' – 'z', 'A' – 'Z', '0' – '9' and blanks.			
03	Alphanumeric spaces not allowed. Field can contain characters 'a' – 'z', 'A' – 'Z' and '0' – '9'.			
04	Numeric. Field can contain characters '0' – '9', '+0' – '+9' and '-0' – '-9'.			
05	Numeric or spaces. Field can contain characters '0' – '9', '+0' – '+9', '-0' – '-9', or all blanks.			
06	Numeric default zeros. Field can contain characters '0' – '9', '+0' – '+9', '-0' – '-9'. If this field is not entered or contains blanks, it is zero filled.			
07	Range. The field is validated against the ranges specified in the Edit Control.			
08	Range default zeros. If field is not entered the field is zero filled. If the field is entered it is validated against the ranges specified in the Edit Control.			
09	Range spaces OK. If field is blanks it is accepted. If it is not blanks it is validated against the ranges specified in the Edit Control.			
10	Codes. The field is validated against the codes specified in the Edit Control.			
11	Compare low. The value must be less than the value specified in the Edit Control.			
12	Compare high. The value must be greater than the value specified in the Edit Control.			
13	Date. Standard date edit.			
14	Date. Standard date edit with zero being valid.			
15	Date. Standard date edit. Default is the current date from Institution Control File.			
16	Date. Standard date edit with date not greater than current date on the Institution Control File.			
17	Date. Standard date edit with date not less than current date on the Institution Control File.			
18	Date. Standard date edit with date less than current date on the Institution Control File.			
19	Date. Standard date edit with date greater than the current date on the Institution Control File.			
20	Verification done with the use of MICM Record 7001. The Edit Control Low field can be used to override the key used to access the MICM Record 7001 table.			
21	Verification done with the use of MICM Record 7001. There must be a field with a 'T' in the Field ID (EFLDID) present within the same record. If the code is a 'R' on the data base then the sequence numbers 001 through 499 are used. If the code on the data is a 'C', then sequence numbers 501 through 999 are used. If the code is not a 'R' or 'C', then all sequence numbers are used.			
22	Verify state. Uses the standard routine SRP049 (Verify State Abbreviation), which is a 2-byte test.			
23	Holiday. The year 1900 is purged and the standard date edit is performed.			
24	Verify ZIP code. The ZIP Code verified by checking it with the State Abbreviation. A State Abbreviation field with an edit code of 22 must be present within the same record. If there is more than one State Abbreviation the Field Number of State Abbreviation to be used with this ZIP Code must be in the first 3 positions of Edit Control Field.			

Field Name	Level	Mode	Picture	Displacement
25	Verify province for Canada. A State Abbreviation field with an edit code of '28' must be present within the same record. Uses the standard routine SRP052.			
26	Verify branch. Verification is performed by reading MICM Record 2001.			
27	Special codes. The field is validated against the codes specified in the Edit Control then a search is made for all other fields that have an Edit Code of '27'. If one is found then the data from that field is compared to this field, and if it is equal it is an error. If either field contains a space then compare is not performed and the edit is accepted.			
28	Verify country. Uses the standard routine SRP053 – Verify Country Abbreviations, which is a 2-byte test.			
29	Foreign address. Edits foreign address fields (MICM batch only).			
30	Special 2004. Edits a 4-character field as 4 separate fields. Refer to the API Records chapter of <i>Reference Guide 2</i> under MICM Record 2004 for a complete description.			
31	Date. Date is filled by the application.			
32	Date. Standard date edit where date must be equal to zeros or greater than the current date on the Institution Control File.			
33	Alphanumeric, right justify and zero fill. Blanks are valid.			
34	MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8 and b9 .			
35	MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419, 3890 and 3694. This code performs a cross check with forms that have a MICR Type Code. These forms are 0124, 0128, 0132, 0134 and 0136.			
	MICR Type Code 1 is for a 1419. Valid entries are Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8 and b9 .			
	MICR Type Code 2 is for a 3890. Valid entries are 11 – 16, 21 – 26, 31 – 36, 41 – 46, 51 – 56, 61 – 66, bX, Xb and XX .			
	MICR Type Code 3 is for a 3694. Valid entries are: 01 – 24, bX, Xb and XX .			
36	Special Codes. The field is validated against the codes specified in the Edit Control. Each code is validated against each position in the field.			
37	Codes, default 0. Edit for valid codes and if nothing entered, default to zero.			
38	Codes, no missing test. Edit for valid codes and if nothing entered, bypass the missing entry test.			
39	Language. Verify the entry against the language code.			
40	A/N Upper, no spaces. Require entry for alphanumeric, upper case. If no entry, an error.			
41	Numeric, no missing test. Edit for numeric and if nothing entered, bypass the missing entry test.			
42	Range, no missing test. The field is validated against the ranges specified in the Edit Control and if nothing is entered, bypass the missing est.			
43	Compare low, no missing test. The value must be less than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
44	Compare high, no missing test. The value must be greater than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
45	Product Code. Verification is performed by reading MICM Record 2023.			
46	Officer/Employee. Verification is performed by reading MICM Record 0242.			

Field Name	Level	Mode	Picture	Displacement	
MIAMC-ELGTH	09	C	X(02)	37	38
Field Length. The input length of the field. Valid entries are 01 – 79 .					
MIAMC-UPDATE	09	C	X(01)	39	39
Field Update Code. Code allows or disallows the changing of data to this field. Valid entries are:					
N Field cannot be changed.					
P Protect from change. Field is entered for new but cannot be changed.					
Y Change data by moving new data into field.					
MIAMC-DATEFCD	09	C	X(01)	40	40
Date Format Code. Controls the format of dates that must be entered as MMDDYY or MMDDYYYY and changes them to YYYYJJJ or YYYYMMDD, depending on the Date Format Code value. It also is used for special handling codes. Valid date entries are:					
b Not a date field.					
C ISO format.					
J Julian format.					
MIAMC-ECONTROL	09	G		41	60
Edit Control. Used in conjunction with the Field Edit Code for specifying codes and ranges. When it is used for codes place a period '.' after the last entry unless the entire Edit Control area is used. Refer to Field Edit Code when data is needed in this field.					
MIAMC-ECTLOW	11	C	X(10)	41	50
Edit Control Low. When the Field Edit Code is used as a range, enter the low value in this field. This field is also used to store the key to MICM Record 7001 when the Field Edit Code is set to 20 . The first three positions are used for the MICM Record 7001 Record ID and the next three positions are used for the MICM Record 7001 Field Number.					
MIAMC-ECTHIGH	11	C	X(10)	51	60
Edit Control High. When the Field Edit Code is used as a range, place the high value into this field.					
MIAMC-ECTLONE	09	C	X(01)	41	60
REDEFINES MIAMC-ECONTROL. OCCURS 20 TIMES. Edit Control.					
MIAMC-ENDEFAULT	05	C	X(01)	61	61
Non-default. This code indicates if the Non-default '\ ' character is valid for this field. Valid entries are:					
N Non-default character is not valid for this field.					
Y Non-default character is valid for this field.					
MIAMC-EFLDID	05	C	X(01)	62	62
Field Identification Code. Indicates what type of data is in the field. It is used for special processing and/or security checking. Valid entries are:					
A Currency Amount. Uses Procedure copybook SRP089 or SRP090.					
B Date International Edit.					
C Currency Code.					

Field Name	Level	Mode	Picture	Displacement
D	Currency Decimal (Rates, Numbers and Counts). Uses Procedure copybook SRP089 or SRP090.			
E	Employee.			
F	Currency Amount (Decimal Shifting). Uses Procedure copybook SRP189 or SRP190.			
G	Currency Decimal (Rates, Numbers and Counts). Uses Procedure copybook SRP189 or SRP190.			
H	Escheat.			
M	MICR Type.			
O	Dormant.			
P	Postal Code.			
S	State.			
T	RCIF Type.			
U	Status.			
V	Province.			
X	Product Code.			
Y	City.			
Z	ZIP Code.			
0	IQ HDT Message Definition Data Change Flag. The help name is used to define the record and field number of the associated field (e.g., <i>Frrrrnnna</i> , where: <i>rrr</i> is the AMT record code, <i>fff</i> is the AMT field number, and <i>a</i> is the AMT application code.			
1	CIFAC Data Change Flag. For IQ HDT message definitions, this identifies the Data Change Flag for :MICNT:-CIFAC.			
2	Func Data Change Flag. For IQ HDT message definitions, this identifies the Data Change Flag for :MICNT:-FUNC.			
3	Message Indicator.			
	b No message text. Corresponding record occurrence was changed, added or deleted.			
	E Error Message. Corresponding record occurrence was not changed, added or deleted.			
	I Information Message. Corresponding record occurrence was changed, added or deleted.			
4	Message Text. The error number appended with its MICM Record 2011 message text or any message text set by the function module.			
5	Number of Occurrences. The number of occurrences returned from a browse request or the number of occurrences to process in the request message. (e.g., the function program maximum number of occurrences for a browse request may be 100 but the client may only be requesting 50).			
6	End of File and/or End of Institution Indicator. Valid entries are:			
	b Not at end.			
	E End of file.			
	I End of institution.			
7	Select Key Element. The Help Name field will contain the field number of the corresponding record field coded as <i>Rrrrfffa</i> where <i>rrr</i> is the AMT record code, <i>fff</i> is the AMT field number and <i>a</i> is the AMT application code.			
8	IQ HDT Data Change Group. The help name is used to define the length of the data change area and number of times it occurs (e.g., <i>Dnnnooob</i> , where <i>nnn</i> is the number of Data Change Flags within the group and <i>ooo</i> is the number of occurrences for the group.			

Field Name	Level	Mode	Picture	Displacement	
9 IQ HDT Record Part. Record parts are additional AMT definitions that make up the function message. Indicates where the record part is located in the message. The Help Name contains the AMT record part key (e.g., <i>Rrrr000a</i> , where <i>rrr</i> is the record code, <i>000</i> is the number of occurrences of the AMT record where 000 indicates one record, and <i>a</i> is the application code used to form a key to another AMT record).					
MIAMC-USERCD User's Code. Used by the Event Processor to control which fields are processed and the type of editing to be performed. If the User's Code is not an E , N , or S , the field is not included in the event message, regardless of whether or not the value has changed. Valid entries are: E No editing. Do not suppress leading zeros and trailing spaces. N Normal numeric editing controlled by the Print Format Code on the Application Management Table. S Suppress leading zeros and trailing spaces. Fields of zero contain one zero and fields of all spaces contain one space.	05	C	X(01)	63	63
FILLER Not used.	05	C	X(09)	64	72
MIAMC-CMS-SEQNBR1 CMS Sequence Number.	05	C	X(08)	73	80
MIAMC-DATA2 REDEFINES MIAMC-DATA0.	03	G		11	80
MIAMC-ENTRY2 Second Card Entry Information.	05	G		11	43
MIAMC-RECORDINFO Record Information. This group defines the data attributes specific to the Data Base Record.	07	G		11	16
MIAMC-RDISPLACE Record Field Displacement. Position in the record that the field starts in.	09	C	X(04)	11	14
MIAMC-RLGTH Record Field Length. Number of positions used in the record. Valid entries are 01 – 79 .	09	C	X(02)	15	16
MIAMC-CARDINFO Card Information.	07	G		17	20
MIAMC-CNBR Card Number. Card number which contains the field. Valid entries are 00 – 98 . Reserved for future use.	09	C	X(02)	17	18
MIAMC-CDISPLACE Card Displacement. Card column that the field starts in. Valid entries are 01 – 80 . The sum of Card Displacement plus Field Length minus 1 cannot be greater than 80. Reserved for future use.	09	C	X(02)	19	20

Field Name	Level	Mode	Picture	Displacement	
MIAMC-PRINTINFO	07	G		21	35
Print Information. Defines the data attributes specific for printing the Master File report.					
MIAMC-PFORMATCD	09	C	X(02)	21	22
Print Format Code. Defines how the field appears when entered. Valid entries are:					
01	Alphanumeric.				
02	ZIP Code: 99999-9999- if value of Field Length is greater than 5, 99999- if the value of Field Length is less than 6.				
03	Dollars and Cents: Z,ZZZ,ZZZ,ZZZ,ZZZ,ZZZ.99- Decimal position are shown in the position determined by the Decimal Position field.				
04	Rate: ZZZZZZZZZZZZZZZZ.999- Decimal positions are shown in the position determined by the Decimal Position field.				
05	Number: ZZZ,ZZZ,ZZZ,ZZZ,ZZZ,ZZ9-				
06	Telephone Number: 999/999-9999-				
07	Transit Number: 9999-9999-				
08	Date 6 positions: 99-99-99-				
09	Date 8 positions: 99-99-9999-				
10	Leading zero suppressed: ZZZZZZZZZZZZZZZZZZZ9-				
11	Numeric: 999999999999999999-				
12	Date 6 positions: 99 99 99-				
13	Date 8 positions: 99 99 9999-				
14	Date 6 positions: 99/99/99-				
15	Date 8 positions: 99/99/9999-				
16	Time: 99:99:99-				
17	Social Security Number: 99-999-9999-				
18	Telephone Number: (999)999-9999-				
19	Time: 99:99:9999				
20	Tax Identification Number: 99-99999999-				
21	Zero suppress, left justify for alpha field.				
22	Account Edit (MICM Record 2023).				
MIAMC-PLINENBR	09	C	X(02)	23	24
Print Line Number. Line number where the field is to be printed. Valid entries are 01 – 99, but cannot be greater than the Number of Print Lines.					
MIAMC-PDISPLACE	09	C	X(03)	25	27
Print Displacement. Starting position on the report line that field is printed. Valid entries are 000 – 132. The sum of Print Displacement plus Print Field Length minus 1 cannot be greater than 132.					
MIAMC-PLGTH	09	C	X(03)	28	30
Print Field Length. Length of the field on the report, including all editing characters. Valid entries are 001 – 132.					
MIAMC-PHEADLINENBR	09	C	X(02)	31	32
Print Heading Line Number. Line number where the field heading is printed. Valid entries are 01 – 99, but cannot be greater than the Number of Print Lines.					

Field Name	Level	Mode	Picture	Displacement	
MIAMC-PHEADDISPLACE	09	C	X(03)	33	35
Print Heading Displacement. Starting position on the report where the field heading is printed. Valid entries are 000 – 120 .					
MIAMC-HELPNAME	07	G		36	43
Help Name. Field-level help name used to override the standard help name. It is used by Merge Mapping for designating the help panel and for the translate function. The standard name format must be used: Position 1 – Prefix (standard is H). Position 2-4 – Record Code. Position 5-7 – Field Number Position 8 – Application Code. This field is used as follows for IQ HDT message definitions: Field Identification Code 0. Indicates a Data Change Flag. The help name is used to define the record and field number of the associated field (e.g., <i>Frrrrnnna</i> , where <i>rrr</i> is the record code, <i>fff</i> is the field number, and <i>a</i> is the application code). Field Identification Code 7. Indicates a Select Key element. The Help Name field will contain the field number of corresponding record field coded as <i>Rrrrfffa</i> , where <i>rrr</i> is the AMTrecord code, <i>fff</i> is the AMT field number and <i>a</i> is the AMT application code.: Field Identification Code 8. Indicates a Data Change Group. The help name is used to define the length of the data change area and number of times it occurs (e.g., <i>Dnnn000b</i> , where <i>nnn</i> is the number of data change flags within the group and <i>000</i> is the number of occurrences for the group.) Field Identification Code 9. Indicates a Record Part. The Help Name contains the AMT record part key. (e.g., <i>Rrrr000a</i> , where <i>rrr</i> is the AMT record code, <i>000</i> is the number of occurrences of the AMTrecord where 000 indicates one record, and <i>a</i> is the application code used to form a key to another AMT record).					
MIAMC-HPREFIX	09	C	X(01)	36	36
Help Name Prefix. First position of the help used to designate that it is a help panel. Valid entry is H .					
MIAMC-HRECCD	09	C	X(03)	37	39
Help Name Record Code. Application Management Table record code that appears in positions 2 – 4 of the Help Name.					
MIAMC-HFLDNBR	09	C	X(03)	40	42
Help Name Field Number. Application Management Table field number that appears in positions 5 – 7 of the Help Name.					
MIAMC-HAPPLCD	09	C	X(01)	43	43
Help Name Application Code. Application Management Table application code that appears in position 8 of the Help Name.					
MIAMC-SQLNAME	05	C	X(15)	44	58
SQL Name. SQL Token Name of the field in the database.					
FILLER	05	C	X(14)	59	72

Field Name	Level	Mode	Picture	Displacement	
Not used.					
MIAMC-CMS-SEQNBR2 CMS Sequence Number.	05	C	X(08)	73	80
MIAMC-DATA3 Redefines MIAMC-DATA0.	03	C	X(08)	73	80
MIAMC-SOURCE Source. The originating source of this field. This could be a description, a file name, or a system name.	05	C	X(50)	11	60
FILLER Not used.	05	C	X(12)	61	72
MIAMC-CMS-SEQNBR10 CMS Sequence Number.	05	C	X(08)	73	80
MIAMC-DATA4 Redefines MIAMC-DATA0.	03	C	X(08)	73	80
MIAMC-CLASS-NAME Class Name.	05	C	X(50)	11	60
FILLER Not used.	05	C	X(12)	61	72
MIAMC-CMS-SEQNBR10 CMS Sequence Number.	05	C	X(08)	73	80

MI-AMTTFIL – Application Management Table File

The Application Management Table File is used by Application Management, Merge Mapping, Report Mapping, Application Edit, Host Data Transfer Function, Runtime Event Server and IQ Host Data Transfer.

Application Management is used to relate fields on Mapper panels and 80-byte card layouts to data base records. Refer to programs MIL710 – Application Management Panel Processor, MIL750 – Generic Merge Map Driver, MID100 – Maintenance Edit, MID200 – MICM Master File Update for more information. The following summarizes how it is used:

- **Merge Mapping** – relates fields on a Merge Mapping inquiry panel. Refer to program MIL720 – Merge Mapping Panel Processor for more information.
- **Report Mapping** – relates fields on a report to be printed. Refer to program MIB700 – Log Retrieval for more information.
- **Application Edit** – performs edit routines on fields. Refer to programs MIL716 – Online Edit Interface with AMT, MIB716 – Batch Edit Interface with AMT, and MIL710 – Application Management Panel Processor for more information.
- **Host Data Transfer** – relates fields to a function message. Refer to program SSL010 – Host Data Transfer Function Message Processor for more information.
- **Runtime Event Server** – creates an Events Message. Refer to program MIB785 – Events Message Formatter for more information.
- **IQ Host Data Transfer** – maps fields from an IQ Host data transfer request message to a Function Message, map fields from a Function Message to an IQ Host Data Transfer response message and to interface to Field Level security. Refer to program SSL150 – Record/Field Authorization for Field Level security and IQ Host program GWCHTD00 for mapping.

This file is created and maintained with MIL700 online and MIR700 in batch (Application Management Table File Maintenance).

File Statistics

File Type	Disk	
Access Method	VSAM, Key-sequence Data Set	
Key Length	0009 Bytes	
Key Displacement	0009 Bytes	
External Name	MIAMTT	
Record Name	Library Name	Record Length
MI-AMTTREC	MISAMTT	6095 Bytes
MI-AMTWREC	MISAMTW	96095 Bytes

WS-AMTTREC – Application Management Table Record

The following record description shows the format of the Application Management Table Record.

Field Name	Level	Mode	Picture	Displacement
WS-AMTTREC	01	R		1 6095
Application Management Table Record. The record may be a database record, temporary storage area, Host Data Transfer message or another storage area.				
MIAMT-KEY	03	G		1 7
Record Key.				
MIAMT-KLANG	05	C	X(02)	1 2
Language Code. Primary records always contain the value of 'EN'. When multiple languages are required, MICM form CFLM – Field Language Table is used to hold the other languages' text for each additional language. Once the table has been completed and any time a language text (CFLM) has been changed, program MIR770 is used to create mirror AMT records with the additional language. This is the only way this field will have a value other than 'EN' in it.				
MIAMT-KRECCD	05	C	X(03)	3 5
Record Code. The record code is not always an actual data base record. It may be an IQ Message or a storage area. For Application Management, this name must be the first 3 positions of the Shortname field when creating an SSFILE for Mapper. It is used in conjunction with the Application Code and Field Number to locate the field in the Panel Data Block and the location in the Panel Data Area. Also, Positions 1 – 3 and 7 – 8 of the Shortname field of an SSFILE are used to tell the file handler program (MIL710) which files to process and which Application Management Table records to retrieve.				
MIAMT-KAPPLCD	05	C	X(02)	6 7
AMT Application ID. The 1-position code assigned to an application. This is the database, IQ message or storage area application code to which this record belongs. For application management this code must be in position 7 of the Short Name field when creating an SSFILE for Mapper. It is used in conjunction with the Record Code and Field Number to locate the field in the Panel Data Block and the location in the Panel Data Area. Active application codes are:				
A Account Analysis. B Combined Statements. D Deposits. E Exception Administrator. F Financial Control System (FCS). I Time Investment. L Installment Loans. M Master Information and Control Manager (MICM) Q IQ T Transaction Gateway (Teller) R Relationship Customer Information File (RCIF) U De-dupe. Y Combined Interest.				

Field Name	Level	Mode	Picture	Displacement	
MIAMT-KSEQNBR	05	P	9(03)	8	9
Record Sequence Number. Sequence numbers greater than zero are used to accommodate data that does not fit in 1 record.					
MIAMT-DATA	03	G		9	4096
Record Data.					
MIAMT-APIAPPL	05	C	X(02)	10	11
Application Program Interface Code. Used in conjunction with Record Code for access to records through the API server.					
MIAMT-DDNAME	05	C	X(08)	12	19
DD Name. The VSAM External File Name or spaces if the record is an IQ Host Data Transfer message when the Data Base Type is 'V', the API record code when the Data Base Type is 'A', spaces when the Data Base Type is 'T', and the user exit program's name when the Data Base type is 'X'.					
MIAMT-DBTYPE	05	C	X(01)	20	20
Data Base Type. Indicates the type of Data Base access to use. Valid entries are:					
A API data base access.					
E Edit only. Storage is passed to MIL716 or MIB716.					
P Print only. Storage is passed to MIB700.					
T Temporary storage. Record is created by merge mapping driver program and is read by MIL720.					
V VSAM Data Base access or IQ Host Data Transfer message. For the IQ HDT message, a link is performed for the program defined in the MIAMT_USERPGRM field.					
X User exit program. All record access done in MIL710 and MIL720 is done by linking to the program defined in the MIAMT-DDNAME field.					
MIAMT-LAPIAPPL	05	C	X(02)	21	22
Log Application ID. Application Interface Code used by Application Management for log purposes.					
MIAMT-LAPIRECID	05	C	X(03)	23	25
Log Record ID. Application Interface Code record ID used by Application Management for log purposes.					
MIAMT-USERPGRM	05	C	X(08)	26	33
User Program Name. Name of user exit program to be linked to after editing has been performed by MIL710. For Host Data Transfer messages, this program is linked to by IQ program GWCHDT00 or MICM program SSL010.					
MIAMT-NBRCARDS	05	B	9(02)	34	35
Number of Cards. Total number of cards required for entering all of the information contained for this record. Valid entries are 01 – 98. Reserved for future use.					

Field Name	Level	Mode	Picture	Displacement	
MIAMT-NBRPLINES	05	B	9(02)	36	37
Number of Print Lines. Used to indicate to the master list program how many lines it needs to print the information for this record. Valid entries are 01 – 99 .					
MIAMT-RECNAME	05	C	X(40)	38	77
Record Name. Title of Data Base record, IQ message or storage area.					
MIAMT-VALIDMODEL	05	C	X(01)	78	78
Valid Model. Alias New Standard. This code indicates whether this form uses the modeling key field. The Modeling indicator is used only for records that are housed in the MICM Master file (MIMAST). This optional field is part of the MICM Master file key and is used with IQ Host Data Transfer message definitions to indicate if the function module specified in User Program Name is written according to new standard. When the New Standard is set to a 'Y', the link to the function module occurs when there are errors found during pre-editing by the IQ program GWCHDT00 and do not default the '000024 Field errors exist' message. Valid entries are:					
N For MICM Master file record, the modeling field is not used. For IQ HDT message definitions, the function module is not written according to the new standard. Y For MICM Master file record, the modeling field is used. For IQ HDT message definitions, the function module is written according to the new standard.					
MIAMT-VALIDEFFDT	05	C	X(01)	79	79
Valid Effective Date. Alias Verify Key Load (VKL). This code indicates whether this form uses the Effective Date key field. The Valid Effective Date indicator is used only for records that are housed in the MICM Master file (MIMAST). This optional field is part of the MICM Master file key and is used in IQ HDT message definitions to indicate that the 'Verify Key Load (VKL)' is not to be performed for Update Requests (UPD). Valid entries are:					
N For MICM Master file record, the Effective Date field is not used. For IQ HDT message definitions, the Verify Key Load for Update Requests (UPD) is performed. Y For MICM Master file record, Effective Date field is used. For IQ HDT message definitions, the Verify Key Load for Update Requests (UPD) is not performed.					
MIAMT-VALIDREGION	05	C	X(01)	80	80
Valid Region. Alias Multiple Institutions. This code indicates whether this form uses the Region field. The Valid Region indicator is used only for records that are housed in the MICM Master file (MIMAST). This optional field is part of the MICM Master file key. For IQ HDT message definitions, Multiple Institutions are allowed or not allowed in the request message. Valid entries are:					
N For MICM Master file record, the region field is not used. For IQ HDT message definitions multiply institutions are not allowed. Y For MICM Master file record, the region field is used. For IQ HDT message definitions multiply institutions are allowed.					
MIAMT-MRECNR	05	B	S9(04)	81	82
MICM Record Number. This form number is used only for MICM Master file records and API record that use a numeric form number. For non-MICM records leave blank. When this field is left blank, the table record contains high values.					

Field Name	Level	Mode	Picture	Displacement	
MIAMT-MRECCOUNT MICM Record Count. Number of additional records.	05	PS	S9(03)	83	84
MIAMT-MANAGER Manager Code. This code is used when creating Maintenance History records. An entry of 00 indicates MICM records.	05	N	9(02)	85	86
MIAMT-FOPTSUB File Option Subscript. This value may be 00 to 25 . 00 indicates to use the null file. Values of 01 to 25 are used to access different manager files. The character used is taken from COM-FILEOPT on the Organization Definition Record.	05	B	S9(02)	87	88
MIAMT-RECFUNC Record Function Control. Code indicating if this record can be added or deleted with Application Management. Valid entries are: N Cannot add or delete records. Y Can add or delete records.	05	C	X(01)	89	89
MIAMT-OICNTL Organization/Institution Control. This code indicates whether this record can be placed only in institution zero and/or can be placed only on the null organization file set. Valid entries are: b No control. B Both null organization and institution zero only. N Never on institution zero. O Null organization only. Z Institution zero only.	05	C	X(01)	90	90
MIAMT-APIRECCD Application Program Interface Record Code. This is the Record Code that is used for Record/Field security. It is part of the key for the Operator Record Authorization Record (ORA). For records that are not defined to the API, i.e., VSAM and Temporary Storage records, a 3-position record must be assigned. The first position of the record code must be the same code that is assigned to an application, i.e., 'J' for Deposits systems.	05	C	X(03)	91	93
MIAMT-ENTRYCNT Field Table Entry Count. Total number of Field Table Entries on this Table Record. If the value is less than 60 , it is assumed that this is the last Table Record for this record. If the value is 60 , the next Table Record must be read to determine if there are more entries.	05	B	9(04)	94	95
MIAMT-ENTRYA Entry Area. Holds up to 60 field entries.	05	C	X(6000)	96	6095
MIAMT-ENTRY REDEFINES MIAMT-ENTRYA. OCCURS 60 TIMES.	05	G		96	6095

Field Name	Level	Mode	Picture	Displacement	
MIAMT-FLDNBR	07	P	9(03)	96	97
Field Number. Number that is assigned to data base field within this record. For Application Management, this code must be in position 4 – 6 of the Shortname field when creating an SSFILE for Mapper. It is used in conjunction with the Record Name and Application Code to locate the field in the Panel Data Block and the location in the Panel Data Area.					
MIAMT-FLDNAME	07	C	X(15)	98	112
Field Name. Short name of the field. The name appears on printed reports.					
MIAMT-ENTRYTYPE	07	C	X(01)	113	113
Field Entry Type. Indicates special attributes for the field. Valid entries are:					
A Customer key accumulated value for RCIF only. B Customer key tie breaker for RCIF only. C Customer key alpha portion for RCIF only. D Date audit. E Effective date MICM key only. F Filler area in MICM key. G Region MICM key only. H Field contains the heading information only used by the print program. I Field is contained in the key area and is the institution number. J Date. Format is YYYYMMDD. This date is stored by subtracting 99999999. For example, 19950228 is stored as 8004977J. K Field is contained in the key area. L Record length. M Model MICM key only. N Normal field. O Indicator MICM only. Q MICM record number MICM only. R Field is reserved. S Field is the status field used for MICM maintenance. T Time audit. U User audit. X Normal field but exclude from Maintenance Journal.					
MIAMT-DECIMAL	07	P	9(01)	114	114
Decimal Position. Position of the assumed decimal point. (For example, number 11111.222 has a decimal position value of 3.)					

Field Name	Level	Mode	Picture	Displacement	
MIAMT-USERCD	07	C	X(01)	115	115
User's Code. Used by the Event Processor to control which fields are processed and the type of editing to be performed. If the User's Code is not an E , N , or S , the field is not included in the event message, regardless of whether or not the value has changed. Valid entries are:					
E No editing. Do not suppress leading zeros and trailing spaces.					
N Normal numeric editing controlled by the Print Format Code on the Application Management Table.					
S Suppress leading zeros and trailing spaces. Fields of zero contain one zero and fields of all spaces contain one space.					
MIAMT-SQLNAME	07	C	X(15)	116	130
SQL Name. SQL token name in the database.					
MIAMT-EDITINFO	07	G		131	142
Edit Information. Contains information on how to edit the field.					
MIAMT-EDEFAULT	09	C	X(05)	131	135
Default Value. Information to be placed into this field when creating a new record.					
MIAMT-EFORMATCD	09	N	9(01)	136	136
Edit Format Code. Defines the format of the field on the Master Record. Valid entries are:					
1 Alphanumeric.					
2 Numeric display signed.					
3 Numeric packed decimal signed.					
4 Numeric binary signed.					
6 Numeric display.					
7 Numeric packed decimal.					
8 Numeric binary.					
MIAMT-ECD	09	P	9(03)	137	138
Edit Code. Indicates what type of edit to perform on this field. Valid entries are:					
01 No edit. Field can contain any characters.					
02 Alphanumeric spaces allowed. Field can contain characters 'a' - 'z', 'A' - 'Z', '0' - '9' and blanks.					
03 Alphanumeric spaces not allowed. Field can contain characters 'a' - 'z', 'A' - 'Z' and '0' - '9'.					
04 Numeric. Field can contain characters '0' - '9', '+0' - '+9', and '-0' - '-9'.					
05 Numeric or spaces. Field can contain characters '0' - '9', '+0' - '+9', '-0' - '-9' or all blanks.					
06 Numeric default zeros. Field can contain characters '0' - '9', '+0' - '+9', '-0' - '-9'. If this field is not entered or contains blanks, it is zero filled.					
07 Range. The field is validated against the ranges specified in the Edit Control.					
08 Range default zeros. If field is not entered the field is zero filled. If the field is entered it is validated against the ranges specified in the Edit Control.					
09 Range spaces OK. If field is blanks it is accepted. If it is not blanks it is validated against the ranges specified in the Edit Control.					
10 Codes. The field is validated against the codes specified in the Edit Control.					

Field Name	Level	Mode	Picture	Displacement
11	Compare low.	The value must be less than the value specified in the Edit Control.		
12	Compare high.	The value must be greater than the value specified in the Edit Control.		
13	Date.	Standard date edit.		
14	Date.	Standard date edit with zero being valid.		
15	Date.	Standard date edit. Default is the current date from Institution Control File.		
16	Date.	Standard date edit with date not greater than current date on the Institution Control File.		
17	Date.	Standard date edit with date not less than current date on the Institution Control File.		
18	Date.	Standard date edit with date less than current date on the Institution Control File.		
19	Date.	Standard date edit with date greater than the current date on the Institution Control File.		
20	Verification done with the use of MICM Record 7001.	The Edit Control Low field can be used to override the key used to access the MICM Record 7001 table.		
21	Verification done with the use of MICM Record 7001.	There must be a field with a 'T' in the Field ID (EFLDID) present within the same record. If the code is a 'R' on the data base then the sequence numbers 001 through 499 are used. If the code on the data is a 'C', then sequence numbers 501 through 999 are used. If the code is not a 'R' or 'C', then all sequence numbers are used.		
22	Verify state.	Uses the standard routine SRP049 (Verify State Abbreviation), which is a 2-byte test.		
23	Holiday.	The year 1900 is purged and the standard date edit is performed.		
24	Verify ZIP code.	The ZIP Code verified by checking it with the State Abbreviation. A State Abbreviation field with an edit code of 22 must be present within the same record. If there is more than one State Abbreviation the Field Number of State Abbreviation to be used with this ZIP Code must be in the first 3 positions of Edit Control Field.		
25	Verify province for Canada.	A State Abbreviation field with an edit code of '28' must be present within the same record.		
26	Verify branch.	Verification is performed by reading MICM Record 2001.		
27	Special codes.	The field is validated against the codes specified in the Edit Control then a search is made for all other fields that have an Edit Code of '27'. If one is found then the data from that field is compared to this field, and if it is equal it is an error. If either field contains a space then compare is not performed and the edit is accepted.		
28	Verify country.	Uses the standard routine SRP052 – Verify Country Abbreviations, which is a 2-byte test.		
29	Foreign address.	Edits foreign address fields (MICM batch only).		
30	Special 2004.	Edits a 4-character field as 4 separate fields. Refer to the API Records chapter of <i>Reference Guide 2</i> under MICM Record 2004 for a complete description.		
31	Date.	Date is filled by the application.		
32	Date.	Standard date edit where date must be equal to zeros or greater than the current date on the Institution Control File.		
33	Alphanumeric,	right justify and zero fill. Blanks are valid.		
34	MICR sorter pockets.	Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419 only. Valid entries are bA , bB , bR , bX , b0 , b1 , b2 , b3 , b4 , b5 , b6 , b7 , b8 and b9 .		

Field Name	Level	Mode	Picture	Displacement
35	MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419, 3890 and 3694. This code performs a cross check with forms that have a MICR Type Code. These forms are 0124, 0128, 0132, 0134 and 0136. MICR Type Code 1 is for a 1419. Valid entries are Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8, and b9 . MICR Type Code 2 is for a 3890. Valid entries are 11 – 16, 21 – 26, 31 – 36, 41 – 46, 51 – 56, 61 – 66, bX, Xb, and XX . MICR Type Code 3 is for a 3694. Valid entries are: 01 through 24, bX, Xb and XX .			
36	Special Codes. The field is validated against the codes specified in the Edit Control. Each code is validated against each position in the field.			
37	Codes, default 0. Edit for valid codes and if nothing entered, default to zero.			
38	Codes, no missing test. Edit for valid codes. If nothing is entered, bypass missing entry test.			
39	Language. Verify the entry against the language code.			
40	A/N Upper, no spaces. Require entry for alphanumeric, upper case. If no entry, an error.			
41	Numeric, no missing test. Edit for numeric and if nothing entered, bypass the missing entry test.			
42	Range, no missing test. The field is validated against the ranges specified in the Edit Control and if nothing is entered, bypass the missing est.			
43	Compare low, no missing test. The value must be less than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
44	Compare high, no missing test. The value must be greater than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
45	Product Code. Verification is performed by reading MICM Record 2023.			
46	Officer/Employee. Verification is performed by reading MICM Record 0242.			
47	Special characters. The value is restricted to alphabetic upper case letters, numeric numbers and the following special character: ~!@#\$\$%^&*()-_+=[]\ <.>?''' . Field cannot be all spaces or contain leading and embedded spaces.			
MIAMT-ELGTH	09	B	9(02)	139 140
Field Length. The input length of the field. Valid entries are 01 – 79 .				
MIAMT-UPDATE	09	C	X(01)	141 141
Field Update Code. Code allows or disallows the changing of data to this field. Valid entries are: N Field cannot be changed. P Protect from change. Field is entered for new but cannot be changed. Y Change data by moving new data into field.				
MIAMT-DATEFCD	09	C	X(01)	142 142
Date Format Code. Controls the format of dates that must be entered as MMDDYY or MMDDYYYY and changes them to YYYYJJJ or YYYYMMDD, depending on the Date Format Code value. It also is used for special handling codes. Valid date entries are: b Not a date field. C ISO format. J Julian format.				

Field Name	Level	Mode	Picture	Displacement	
MIAMT-ECONTROL	09	G		143	162
Edit Control. Used in conjunction with the Field Edit Code for specifying codes and ranges. When it is used for codes place a period after the last entry unless the entire Edit Control area is used. Refer to Field Edit Code when data is needed in this field.					
MIAMT-ECTLLOW	11	C	X(10)	143	152
Edit Control Low. When the Field Edit Code is used as a range, place the low value into this field. This field is also used to store the key to MICM Record 7001 when the Field Edit Code is set to 20 . The first three positions are used for the MICM Record 7001 Record ID and the next three positions are used for the MICM Record 7001 Field Number.					
MIAMT-ECTLHIGH	11	C	X(10)	153	162
Edit Control High. When the Field Edit Code is used as a range, place the high value into this field.					
MIAMT-ECTLONE	09	C	X(01)	143	162
REDEFINES MIAMT-ECONTROL. OCCURS 20 TIMES. Edit Control.					
MIAMT-ENDEFAULT	09	C	X(01)	163	163
Non-default. This code indicates if the Non-default ‘\’ character is valid for this field. Valid entries are:					
N Non-default character is not valid for this field.					
Y Non-default character is valid for this field.					
MIAMT-EFLDID	09	C	X(01)	164	164
Field Identification Code. Indicates what type of data is in the field. It is used for special processing and/or security checking. Valid entries are:					
A Currency Amount. Uses Procedure copybook SRP089 or SRP090.					
B Date International Edit.					
C Currency Code.					
D Currency Decimal (Rates, Numbers and Counts). Uses Procedure copybook SRP089 or SRP090.					
E Employee.					
F Currency Amount (Decimal Shifting). Uses Procedure copybook SRP189 or SRP190.					
G Currency Decimal (Rates, Numbers and Counts). Uses Procedure copybook SRP189 or SRP190.					
H Escheat.					
J Alternate Select Key 1.					
K Alternate Select Key 2.					
L Alternate Select Key 3.					
M MICR Type.					
O Dormant.					
P Postal Code.					
Q Ending Select Key Element.					
S State.					
T RCIF Type.					
U Status.					

Field Name	Level	Mode	Picture	Displacement
V	Province.			
X	Product Code.			
Y	City.			
Z	ZIP Code.			
0	IQ HDT Message Definition Data Change Flag. The help name is used to define the record and field number of the associated field (e.g., <i>Frrrrnnna</i> , where: <i>rrr</i> is the AMT record code, <i>fff</i> is the AMT field number, and <i>a</i> is the AMT application code.			
1	CIFAC Data Change Flag. For IQ HDT message definitions, this identifies the Data Change Flag for :MICNT:-CIFAC.			
2	Func Data Change Flag. For IQ HDT message definitions, this identifies the Data Change Flag for :MICNT:-FUNC.			
3	Message Indicator. b No message text. Corresponding record occurrence was changed, added or deleted. E Error Message. Corresponding record occurrence was not changed, added or deleted. I Information Message. Corresponding record occurrence was changed, added or deleted.			
4	Message Text. The error number appended with its MICM Record 2011 message text or any message text set by the function module.			
5	Number of Occurrences. The number of occurrences returned from a browse request or the number of occurrences to process in the request message. (e.g., the function program maximum number of occurrences for a browse request may be 100 but the client may only be requesting 50).			
6	End of File and/or End of Institution Indicator. Valid entries are: b Not at end. E End of file. I End of institution.			
7	Select Key Element. The Help Name field will contain the field number of the corresponding record field coded as <i>Rrrrfffa</i> where <i>rrr</i> is the AMT record code, <i>fff</i> is the AMT field number and <i>a</i> is the AMT application code.			
8	IQ HDT Data Change Group. The help name is used to define the length of the data change area and number of times it occurs (e.g., <i>Dnnnoob</i> , where <i>nnn</i> is the number of Data Change Flags within the group and <i>ooo</i> is the number of occurrences for the group.			
9	IQ HDT Record Part. Record parts are additional AMT definitions that make up the function message. Indicates where the record part is located in the message. The Help Name contains the AMT record part key (e.g., <i>Rrrrooa</i> , where <i>rrr</i> is the record code, <i>ooo</i> is the number of occurrences of the AMT record where 000 indicates one record, and <i>a</i> is the application code used to form a key to another AMT record).			
MIAMT-RECORDINFO	07	G		165 168
Record Information. This group defines the data attributes specific to the Data Base Record.				
MIAMT-RDISPLACE	09	B	9(04)	165 166
Record Field Displacement. Position in the record that the field starts in.				

Field Name	Level	Mode	Picture	Displacement	
MIAMT-RLGTH	09	B	9(02)	167	168
Record Field Length. Number of positions used in the record. Valid entries are 01 – 79 .					
MIAMT-CARDINFO	07	G		169	172
Card Information.					
MIAMT-CNBR	09	B	9(02)	169	170
Card Number. Card number which contains the field. Valid entries are 00 – 98 . Reserved for future use.					
MIAMT-CDISPLACE	09	B	9(02)	171	172
Card Displacement. Card column that the field starts in. Valid entries are 01 – 80 . The sum of Card Displacement plus Field Length minus 1 cannot be greater than 80. Reserved for future use.					
MIAMT-PRINTINFO	07	G		173	184
Print Information. Defines the data attributes specific for printing the MICM Master File report.					
MIAMT-PFORMATCD	09	P	9(02)	173	174
Print Format Code. Defines how the field appears when entered. Valid entries are:					
01	Alphanumeric.				
02	ZIP Code: 99999-9999- if value of Field Length is greater than 5, 99999- if the value of Field Length is less than 6.				
03	Dollars and Cents: Z,ZZZ,ZZZ,ZZZ,ZZZ,ZZZ.99- Decimal position are shown in the position determined by the Decimal Position field.				
04	Rate: ZZZZZZZZZZZZZZZZ.999- Decimal position are shown in the position determined by the Decimal Position field.				
05	Number: ZZZ,ZZZ,ZZZ,ZZZ,ZZZ,ZZ9-				
06	Telephone Number: 999/999-9999-				
07	Transit Number: 9999-9999-				
08	Date 6 positions: 99-99-99-				
09	Date 8 positions: 99-99-9999-				
10	Leading zero suppressed: ZZZZZZZZZZZZZZZZZZZ9-				
11	Numeric: 999999999999999999-				
12	Date 6 positions: 99 99 99-				
13	Date 8 positions: 99 99 9999-				
14	Date 6 positions: 99/99/99-				
15	Date 8 positions: 99/99/9999-				
16	Time: 99:99:99-				
17	Social Security Number: 99-999-9999-				
18	Telephone Number: (999)999-9999-				
19	Time: 99:99:9999				
20	Tax Identification Number: 99-99999999-				
21	Zero suppress, left justify for alpha field.				
22	Account Edit (MICM Record 2023).				

Field Name	Level	Mode	Picture	Displacement	
MIAMT-PLINENBR	09	B	9(02)	175	176
Print Line Number. Line number where the field is to be printed. Valid entries are 01 – 99 , but cannot be greater than the Number of Print Lines.					
MIAMT-PDISPLACE	09	B	9(03)	177	178
Print Displacement. Starting position on the report line that field is printed. Valid entries are 000 – 132 . The sum of Print Displacement plus Print Field Length minus 1 cannot be greater than 132.					
MIAMT-PLGTH	09	B	9(03)	179	180
Print Field Length. Length of the field on the report, including all editing characters. Valid entries are 001 – 132 .					
MIAMT-PHEADLINENBR	09	B	9(02)	181	182
Print Heading Line Number. Line number where the field heading is printed. Valid entries are 01 – 99 , but cannot be greater than the Number of Print Lines.					
MIAMT-PHEADDISPLACE	09	B	9(03)	183	184
Print Heading Displacement. Starting position on the report where the field heading is printed. Valid entries are 000 – 132 . Standard starting columns are 1, 32, 65, and 98.					
MIAMT-HELPNAME	07	G		185	192
Help Name. Field-level help name can be used to override the standard help name, an IQ Data Change or IQ Record Part. It is used by Merge Mapping for designating the help panel and for the translate function. The standard name format must be used: For a Help Name. This is the actual name of the SSFILE. The format is <i>Hrrrrnnna</i> , where <i>rrr</i> is the Record Code, <i>nnn</i> is the field number and <i>a</i> it the Application Code. Field Identification Code 0. Indicates a Data Change Flag. The help name is used to define the record and field number of the associated field (e.g., <i>Frrrrnnna</i> , where <i>rrr</i> is the record code, <i>nnn</i> is the field number, and <i>a</i> is the application code). Field Identification Code 7. Indicates a Select Key element. The Help Name field will contain the field number of corresponding record field coded as <i>Rrrrrfffa</i> , where <i>rrr</i> is the AMT record code, <i>fff</i> is the AMT field number and <i>a</i> is the AMT application code.: Field Identification Code 8. Indicates a Data Change Group. The help name is used to define the length of the data change area and number of times it occurs (e.g., <i>Dnnn000b</i> , where <i>nnn</i> is the number of data change flags within the group and <i>000</i> is the number of occurrences for the group.) Field Identification Code 9. Indicates a Record Part. The Help Name contains the AMT record part key. (e.g., <i>Rrrr000a</i> , where <i>rrr</i> is the AMT record code, <i>000</i> is the number of occurrences of the AMT record where 000 indicates one record, and <i>a</i> is the application code used to form a key to another AMT record).					
MIAMT-HPREFIX	09	C	X(01)	185	185
Help Name Prefix. Valid entries are: D Data Change Group for IQ. F Data Change for IQ. H Help panel. R Indicates a Record Part for IQ.					

Field Name	Level	Mode	Picture	Displacement	
MIAMT-HRECCD	09	C	X(03)	186	188
Help Name Record Code. Application Management Table record code that appears in positions 2 – 4 of the Help Name. For IQ AMT it is the record code for the record part key, or the number of data change flags within a group.					
MIAMT-HFLDNBR	09	C	X(03)	189	191
Help Name Field Number. Application Management Table field number that appears in positions 5 – 7 of the Help Name. For IQ AMT it is the number of occurrences for a record part or the number of occurrences for a Data Change Group.					
MIAMT-HAPPLCD	09	C	X(01)	192	192
Help Name Application Code. Application Management Table application code that appears in position 8 of the Help Name. For IQ AMT the number of occurrences for a Data Change Group it will contain a space.					
MIAMT-PLITLGTH	07	B	9(02)	193	194
Print Field Literal Length. The length of the field literal. Valid entries are 00 – 15 .					
MIAMT-CFLAG	07	C	X(01)	195	195
Field Change Flag. A Y indicates that the field was updated online.					

WS-AMTWREC – Application Management Table Working Storage Record

This record is used by MIR700, MIR710, and MIL700 to load the table data when processing Application Management. Copybook is MISAMTW.

Field Name	Level	Mode	Picture	Displacement	
WS-AMTWREC Application Management Table Working Storage Record.	01	R		1	39952
MIAMW-KEY Record Key.	03	G		1	9
MIAMW-LANG Language Code. Valid entries are defined on MICM Record 2022 (Valid Language Code Table Record). Codes that can be used are indicated with 'Y' in the Usage field. Entire records or individual fields can be translated based on this language code. The language code is delivered with EN for English.	05	C	X(02)	1	2
MIAMW-KRECCD Record Code. Data base record name. This name must be the first 3 positions of the Short Name field when creating an SSFILE for Mapper. It is used in conjunction with the Application Code and Field Number to locate the field in the Panel Data Block and the location in the Panel Data Area. Also, positions 1 – 3 and 7 – 8 of the Short Name field of an SSFILE are used to tell the file handler program (MIL710) which files to process and which Application Management Table records to retrieve.	05	C	X(03)	3	5
MIAMW-KAPPLCD AMT Application ID. The 1-position code assigned to an application. If the Record ID is an API Record ID, this field must be blank.	05	C	X(02)	6	7
MIAMW-KSEQNBR Record Sequence Number. Sequence numbers greater than zero are used to accommodate data that does not fit in 1 record.	05	P	9(03)	8	9
MIAMW-DATA Record Data.	03	G		10	96095
MIAMW-APIAPPL Application Program Interface Code. Used in conjunction with Record Code for access to records through the API server.	05	C	X(02)	10	11
MIAMW-DDNAME DD Name. The VSAM External File Name when the Data Base Type is 'V', the API record code when the Data Base Type is 'A', the temporary storage item number when the Data Base Type is 'T', and the user exit programs name when the Data Base type is 'X'. This field will contain spaces when used for IQ HDT message definitions.	05	C	X(08)	12	19

Field Name	Level	Mode	Picture	Displacement	
MIAMW-DBTYPE	05	C	X(01)	20	20
Data Base Type. Indicates the type of Data Base access to use. Valid entries are:					
A API access.					
E Edit only. (No record access.)					
P Printing only. (No record access.)					
T Temporary storage.					
V VSAM access.					
X User exit program.					
MIAMW-LAPIAPPL	05	C	X(02)	21	22
Log Application ID. Application Interface Code used by Application Management for log purposes. This field will contain spaces when used for IQ HDT message definitions.					
MIAMW-LAPIRECID	05	C	X(03)	23	25
Log Record ID. Application Interface Code record ID used by Application Management for log purposes. This field will contain spaces when used for IQ HDT message definitions.					
MIAMW-USERPRGM	05	C	X(08)	26	33
User Program Name. Name of user exit program to be linked to after editing has been performed by MIL710. The user program name must be in the CICS Processing Program Table (PPT). For IQ HDT message definitions, this is the function program ID to be executed with a link.					
MIAMW-NBRCARDS	05	B	9(02)	34	35
Number of Cards. Total number of cards required for entering all of the information contained for this record. Valid entries are 01 – 98 . Reserved for future use.					
MIAMW-NBRPLINES	05	B	9(02)	36	37
Number of Print Lines. Used to indicate to the master list program how many lines it needs to print the information for this record. Valid entries are 01 – 99 .					
MIAMW-RECNAME	05	C	X(40)	38	77
Record Name. Title of Data Base record.					
MIAMW-VALIDMODEL	05	C	X(01)	78	78
Valid Model. This code indicates whether this form can be used for modeling. This field is used in IQ HDT message definitions to indicate if the function module specified in the user program name is written according to standards. Valid entries are:					
N Cannot be used for modeling. For IQ HDT message definitions, the function module is not written according to standards.					
Y Can be used for modeling. For IQ HDT message definitions, the function module is written according to standards.					

Field Name	Level	Mode	Picture	Displacement	
MIAMW-VALIDEFFDT	05	C	X(01)	79	79
Valid Effective Date. This code indicates whether this form can have an effective date. Valid entries are: N Cannot have an effective date. Y Must have an effective date.					
MIAMW-VALIDREGION	05	C	X(01)	80	80
Valid Region. This code indicates whether this form can have a region entered. Valid entries are: N Cannot have a region entered. Y Must have a region entered.					
MIAMW-MRECNR	05	B	S9(04)	81	82
MICM Record Number. This form number is used only for MICM Master file records. For non-MICM records leave blank. When this field is left blank, the table record contains high values.					
MIAMW-RECCOUNT	05	P	S9(03)	83	84
MICM Record Count. Number of additional records.					
MIAMW-MANAGER	05	N	9(02)	85	86
Manager Code. This code is used when creating Maintenance History records. An entry of 00 indicates MICM records.					
MIAMW-FOPTSUB	05	B	S9(02)	87	88
File Option Subscript. This value may be 00 to 25. 00 indicates to use the null file. Values of 01 – 25 are used to access different manager files. The character used is taken from COMFILOPT. For more information, refer to the Operator/Profile Record.					
MIAMW-RECFUNC	05	C	X(01)	89	89
Record Function Control. Code indicating if this record can be added or deleted with Application Management. Valid entries are: N Cannot add or delete records. Y Can add or delete records.					
MIAMW-OICNTL	05	C	X(01)	90	90
Organization/Institution Control. This code indicates whether this record can be placed only in institution zero and/or can be placed only on the null organization file set. Valid entries are: b No control. B Both null organization and institution zero only. N Never on institution zero. O Null organization only. Z Institution zero only.					

Field Name	Level	Mode	Picture	Displacement	
MIAMW-APIRECD Application Program Interface Record Code. This is the Record Code that is used for Record/Field security. It is part of the key for the Operator Record Authorization Record (ORA). For records that are not defined to the API, i.e., VSAM and Temporary Storage records, a 3-position record must be assigned. The first position of the record code must be the same code that is assigned to an application, i.e., 'J' for Deposits systems.	05	C	X(03)	91	93
MIAMW-ENTRYCNT Field Table Entry Count. Total number of Field Table Entries on this Table Record.	05	B	9(04)	94	95
MIAMW-ENTRYALL Entry Area. Holds up to 459 field entries.	05	G		96	96095
FILLER Not used.	09	C	X(6000)	96	6095
FILLER Not used.	09	C	X(6000)	6096	12095
FILLER Not used.	09	C	X(6000)	12096	18095
FILLER Not used.	09	C	X(6000)	18096	24095
FILLER Not used.	09	C	X(6000)	24096	30095
FILLER Not used.	09	C	X(6000)	30096	36095
FILLER Not used.	09	C	X(6000)	36096	42095
FILLER Not used.	09	C	X(6000)	42096	48095
FILLER Not used.	09	C	X(6000)	48096	54095
FILLER Not used.	09	C	X(6000)	54096	60095
FILLER Not used.	09	C	X(6000)	60096	66095
FILLER	09	C	X(6000)	66096	72095

Field Name	Level	Mode	Picture	Displacement	
Not used.					
FILLER Not used.	09	C	X(6000)	72096	78095
FILLER Not used.	09	C	X(6000)	78096	84095
FILLER Not used.	09	C	X(6000)	84096	90095
FILLER Not used.	09	C	X(6000)	90096	96095
MIAMW-ENTRYA REDEFINES MIAMW-ENTRYALL. OCCURS 16 TIMES. Field Entry Redefines. Contains 1 table physical record's Field Entry area. Holds 51 field entries.	05	C	X(6000)	96	96095
MIAMW-ENTRY REDEFINES MIAMW-ENTRYALL. OCCURS 960 TIMES.	05	G		96	96095
MIAMW-FLDNBR Field Number. Number that is assigned to data base field within this record. This code must be in position 4 – 6 of the Short Name field when creating an SSFILE for Mapper. It is used in conjunction with the Record Name and Application Code to locate the field in the Panel Data Block and the location in the Panel Data Area.	07	B	9(03)	96	97
MIAMW-FLDNAME Field Name. Short name of the field. The name appears on printed reports.	07	C	X(15)	98	112
MIAMW-ENTRYTYPE Field Entry Type. Indicates special attributes for the field. Valid entries are: A Customer key accumulated value for RCIF only. B Customer key tie breaker for RCIF only. C Customer key alpha portion for RCIF only. D Date audit. E Effective date MICM key only. F Filler area in MICM key. G Region MICM key only. H Field contains the heading information only used by the print program. I Field is contained in the key area and is the institution number. J Date. Format is YYYYMMDD. This date is stored by subtracting 99999999. For example, 19950228 is stored as 8004977J. K Field is contained in the key area. L Record length. M Model MICM key only. N Normal field. O Indicator MICM only.	07	C	X(01)	113	113

Field Name	Level	Mode	Picture	Displacement	
Q MICM record number MICM only. R Field is reserved. S Field is the status field used for MICM maintenance. T Time audit. U User audit. X Normal field but exclude from Maintenance Journal.					
MIAMW-DECIMAL	07	B	9(01)	114	114
Decimal Position. Position of the assumed decimal point. (For example, number 11111.222 has a decimal position value of 3.)					
MIAMW-USERCD	05	C	X(01)	115	115
Edit Information. Contains information on how to edit the field.					
MIAMW-SQLNAME	07	C	X(15)	116	130
SQL Name. SQL token name in the database.					
MIAMW-EDITINFO	07	G		131	164
Edit Information. Contains information on how to edit the field.					
MIAMW-EDEFAULT	09	C	X(05)	131	135
Default Value. Information to be placed into this field when creating a new record.					
MIAMW-EFORMATCD	09	N	9(01)	136	136
Edit Format Code. Defines the format of the field on the Master Record. Valid entries are: 1 Alphanumeric. 2 Numeric display signed. 3 Numeric packed decimal signed. 4 Numeric binary signed. 6 Numeric display. 7 Numeric packed decimal. 8 Numeric binary.					
MIAMW-ECD	09	B	9(03)	137	138
Edit Code. Indicates what type of edit to perform on this field. Valid entries are: 01 No edit. Field can contain any characters. 02 Alphanumeric spaces allowed. Field can contain characters 'a' – 'z', 'A' – 'Z', '0' – '9' and blanks. 03 Alphanumeric spaces not allowed. Field can contain characters 'a' – 'z', 'A' – 'Z' and '0' – '9'. 04 Numeric. Field can contain characters '0' – '9', '+0' – '+9' and '-0' – '-9'. 05 Numeric or spaces. Field can contain characters '0' – '9', '+0' – '+9', '-0' – '-9' or -all blanks. 06 Numeric default zeros. Field can contain characters '0' – '9', '+0' – '+9', '-0' – '-9'. If this field is not entered or contains blanks, it is zero filled. 07 Range. The field is validated against the ranges specified in the Edit Control. 08 Range default zeros. If field is not entered the field is zero filled. If the field is entered it is validated against the ranges specified in the Edit Control.					

Field Name	Level	Mode	Picture	Displacement
09	Range spaces OK. If field is blanks it is accepted. If it is not blanks it is validated against the ranges specified in the Edit Control.			
10	Codes. The field is validated against the codes specified in the Edit Control.			
11	Compare low. The value must be less than the value specified in the Edit Control.			
12	Compare high. The value must be greater than the value specified in the Edit Control.			
13	Date. Standard date edit.			
14	Date. Standard date edit with zero being valid.			
15	Date. Standard date edit. Default is the current date from Institution Control File.			
16	Date. Standard date edit with date not greater than current date on the Institution Control File.			
17	Date. Standard date edit with date not less than current date on the Institution Control File.			
18	Date. Standard date edit with date less than current date on the Institution Control File.			
19	Date. Standard date edit with date greater than the current date on the Institution Control File.			
20	Verification done with the use of MICM Record 7001. The Edit Control Low field can be used to override the key used to access the MICM Record 7001 table.			
21	Verification done with the use of MICM Record 7001. There must be a field with a 'T' in the Field ID (EFLDID) present within the same record. If the code is a 'R' on the data base then the sequence numbers 001 through 499 are used. If the code on the data is a 'C', then sequence numbers 501 through 999 are used. If the code is not a 'R' or 'C', then all sequence numbers are used.			
22	Verify state. Uses the standard routine SRP049 (Verify State Abbreviation), which is a 2-byte test.			
23	Holiday. The year 1900 is purged and the standard date edit is performed.			
24	Verify ZIP code. The ZIP code verified by checking it with the State Abbreviation. A State Abbreviation field with an edit code of 22 must be present within the same record. If there is more than one State Abbreviation the Field Number of State Abbreviation to be used with this ZIP code must be in the first 3 positions of Edit Control Field.			
25	Verify province for Canada. A State Abbreviation field with an edit code of '28' must be present within the same record.			
26	Verify branch. Verification is performed by reading MICM Record 2001.			
27	Special codes. The field is validated against the codes specified in the Edit Control then a search is made for all other fields that have an Edit Code of '27'. If one is found then the data from that field is compared to this field, and if it is equal it is an error. If either field contains a space then compare is not performed and the edit is accepted.			
28	Verify country. Uses the standard routine SRP052 – Verify Country Abbreviations, which is a 2-byte test.			
29	Foreign address. Edits foreign address fields (MICM batch only).			
30	Special 2004. Edits a 4-character field as 4 separate fields. Refer to the API Records chapter of <i>Reference Guide 2</i> under MICM Record 2004 for a complete description.			
31	Date. Date is filled by the application.			
32	Date. Standard date edit where date must be equal to zeros or greater than the current date on the Institution Control File.			
33	Alphanumeric, right justify and zero fill. Blanks are valid.			
34	MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419 only. Valid entries are bA , bB , bR , bX , b0 , b1 , b2 , b3 , b4 , b5 , b6 , b7 , b8 , and b9 .			

Field Name	Level	Mode	Picture	Displacement
35	MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419, 3890 and 3694. This code performs a cross check with forms that have a MICR Type Code. These forms are 0124, 0128, 0132, 0134, and 0136.			
	MICR Type Code 1 is for a 1419. Valid entries are Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8 and b9 .			
	MICR Type Code 2 is for a 3890. Valid entries are 11 – 16, 21 – 26, 31 – 36, 41 – 46, 51 – 56, 61 – 66, bX, Xb and XX .			
	MICR Type Code 3 is for a 3694. Valid entries are: 01 through 24, bX, Xb and XX .			
36	Special Codes. The field is validated against the codes specified in the Edit Control. Each code is validated against each position in the field.			
37	Codes, default 0. Edit for valid codes and if nothing entered, default to zero.			
38	Codes, no missing test. Edit for valid codes and if nothing entered, bypass the missing entry test.			
39	Language. Verify the entry against the language code.			
40	A/N Upper, no spaces. Require entry for alphanumeric, upper case. If no entry, an error.			
41	Numeric, no missing test. Edit for numeric and if nothing entered, bypass the missing entry test.			
42	Range, no missing test. The field is validated against the ranges specified in the Edit Control and if nothing is entered, bypass the missing test.			
43	Compare low, no missing test. The value must be less than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
44	Compare high, no missing test. The value must be greater than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
45	Product Code. Verification is performed by reading MICM Record 2023.			
46	Officer/Employee. Verification is performed by reading MICM Record 0242.			
MIAMW-ELGTH	09	B	9(02)	139 140
Field Length. The input length of the field. Valid entries are 01 – 79 .				
MIAMW-UPDATE	09	C	X(01)	141 141
Field Update Code. Code allows or disallows the changing of data to this field. Valid entries are:				
N Field cannot be changed.				
P Protect from change. Field is entered for new but cannot be changed.				
Y Change data by moving new data into field.				
MIAMW-DATEFCD	09	C	X(01)	142 142
Date Format Code. Controls the format of dates that must be entered as MMDDYY or MMDDYYYY and changes them to YYYYJJJ or YYYYMMDD, depending on the Date Format Code value. It also is used for special handling codes. Valid date entries are:				
b Not a date field.				
C ISO format.				
J Julian format.				

Field Name	Level	Mode	Picture	Displacement	
MIAMW-ECONTROL	09	G		143	162
Edit Control. Used in conjunction with the Field Edit Code for specifying codes and ranges. When it is used for codes place a period (.) after the last entry unless the entire Edit Control area is used. Refer to Field Edit Code when data is needed in this field.					
MIAMW-ECTLLOW	11	C	X(10)	143	152
Edit Control Low. When the Field Edit Code is used as a range, place the low value into this field. This field is also used to store the key to MICM Record 7001 when the Field Edit Code is set to 20 . The first three positions are used for the MICM Record 7001 Record ID and the next three positions are used for the MICM Record 7001 Field Number.					
MIAMW-ECTLHIGH	11	C	X(10)	153	162
Edit Control High. When the Field Edit Code is used as a range, place the high value into this field.					
MIAMW-ECTLONE	09	C	X(01)	143	162
REDEFINES MIAMW-ECONTROL. OCCURS 20 TIMES. Edit Control.					
MIAMW-ENDEFAULT	09	C	X(01)	163	163
Non-default. This code indicates if the Non-default ‘\’ character is valid for this field. Valid entries are:					
N Non-default character is not valid for this field.					
Y Non-default character is valid for this field.					
MIAMW-EFLDID	09	C	X(01)	164	164
Field Identification Code. Indicates what type of data is in the field. It is used for special processing and/or security checking. Valid entries are:					
A Currency Amount.					
B Date International Edit.					
C Currency Code.					
D Currency Decimal.					
E Employee.					
H Escheat.					
M MICR Type.					
O Dormant.					
P Postal Code.					
S State.					
T RCIF Type.					
U Status.					
V Province.					
X Product Code.					
Y City.					
Z ZIP Code.					
0 IQ HDT Message Definition Data Change Flag. The help name is used to define the record and field number of the associated field (e.g., <i>Frrrrnnna</i> , where: <i>rrr</i> is the AMT record code, <i>fff</i> is the AMT field number, and <i>a</i> is the AMT application code.					

Field Name	Level	Mode	Picture	Displacement
1	CIFAC Data Change Flag. For IQ HDT message definitions, this identifies the Data Change Flag for :MICNT:-CIFAC.			
2	Func Data Change Flag. For IQ HDT message definitions, this identifies the Data Change Flag for :MICNT:-FUNC.			
3	Message Indicator. b No message text. Corresponding record occurrence was changed, added or deleted. E Error Message. Corresponding record occurrence was not changed, added or deleted. I Information Message. Corresponding record occurrence was changed, added or deleted.			
4	Message Text. The error number appended with its MICM Record 2011 message text or any message text set by the function module.			
5	Number of Occurrences. The number of occurrences returned from a browse request or the number of occurrences to process in the request message. (e.g., the function program maximum number of occurrences for a browse request may be 100 but the client may only be requesting 50).			
6	End of File and/or End of Institution Indicator. Valid entries are: b Not at end. E End of file. I End of institution.			
7	Select Key Element. The Help Name field will contain the field number of the corresponding record field coded as Rrrrfffa where rrr is the AMT record code, fff is the AMT field number and a is the AMT application code.			
8	IQ HDT Data Change Group. The help name is used to define the length of the data change area and number of times it occurs (e.g., Dnnn000b, where nnn is the number of Data Change Flags within the group and 000 is the number of occurrences for the group).			
9	IQ HDT Record Part. Record parts are additional AMT definitions that make up the function message. Indicates where the record part is located in the message. The Help Name contains the AMT record part key (e.g., Rrrr000a, where rrr is the record code, 000 is the number of occurrences of the AMT record where 000 indicates one record, and a is the application code used to form a key to another AMT record).			
MIAMW-RECORDINFO	07	G		165 168
Record Information. This group defines the data attributes specific to the Data Base Record.				
MIAMW-RDISPLACE	09	B	9(04)	165 166
Record Field Displacement. Position in the record that the field starts in.				
MIAMW-RLGTH	09	B	9(02)	167 168
Record Field Length. Number of positions used in the record. Valid entries are 01 – 79.				
MIAMW-CARDINFO	07	G		169 172
Card Information.				

Field Name	Level	Mode	Picture	Displacement
MIAMW-CNBR	09	B	9(02)	169 170
Card Number. Card number which contains the field. Valid entries are 00 – 98 . Reserved for future use.				
MIAMW-CDISPLACE	09	B	9(02)	171 172
Card Displacement. Card column that the field starts in. Valid entries are 01 – 80 . The sum of Card Displacement plus Field Length minus 1 cannot be greater than 80. Reserved for future use.				
MIAMW-PRINTINFO	07	G		173 184
Print Information. Defines the data attributes specific for printing the Master File report.				
MIAMW-PFORMATCD	09	P	9(02)	173 174
Print Format Code. Defines how the field appears when entered. Valid entries are:				
01	Alphanumeric.			
02	ZIP Code: 99999-9999- if value of Field Length is greater than 5, 99999- if the value of Field Length is less than 6.			
03	Dollars and Cents: Z,ZZZ,ZZZ,ZZZ,ZZZ,ZZZ.99- Decimal position are shown in the position determined by the Decimal Position field.			
04	Rate: ZZZZZZZZZZZZZZZZ.999- Decimal position are shown in the position determined by the Decimal Position field.			
05	Number: ZZZ,ZZZ,ZZZ,ZZZ,ZZZ,ZZ9-			
06	Telephone Number: 999/999-9999-			
07	Transit Number: 9999-9999-			
08	Date 6 positions: 99-99-99-			
09	Date 8 positions: 99-99-9999-			
10	Leading zero suppressed: ZZZZZZZZZZZZZZZZZ9-			
11	Numeric: 999999999999999999-			
12	Date 6 positions: 99 99 99-			
13	Date 8 positions: 99 99 9999-			
14	Date 6 positions: 99/99/99-			
15	Date 8 positions: 99/99/9999-			
16	Time: 99:99:99-			
17	Social Security Number: 99-999-9999-			
18	Telephone Number: (999)999-9999-			
19	Time: 99:99:9999			
20	Tax Identification Number: 99-9999999-			
21	Zero suppress, left justify for alpha field.			
22	Account Edit (MICM Record 2023).			
MIAMW-PLINENBR	09	B	9(02)	175 176
Print Line Number. Line number where the field is to be printed. Valid entries are 01 – 99 , but cannot be greater than the Number of Print Lines.				
MIAMW-PDISPLACE	09	B	9(03)	177 178
Print Displacement. Starting position on the report line that field is printed. Valid entries are 000 – 132 . The sum of Print Displacement plus Print Field Length minus 1 cannot be greater than 132.				

Field Name	Level	Mode	Picture	Displacement	
MIAMW-PLGTH	09	B	9(03)	179	180
Print Field Length. Length of the field on the report, including all editing characters. Valid entries are 001 – 132.					
MIAMW-PHEADLINENBR	09	B	9(02)	181	182
Print Heading Line Number. Line number where the field heading is printed. Valid entries are 01 – 99, but cannot be greater than the Number of Print Lines.					
MIAMW-PHEADDISPLACE	09	B	9(03)	183	184
Print Heading Displacement. Starting position on the report where the field heading is printed. Valid entries are 000 – 132. Standard starting columns are 1, 32, 65, and 98.					
MIAMW-HELPNAME	07	G		185	192
Help Name. Field-level help name used to override the standard help name. It is used by Merge Mapping for designating the help panel and for the translate function. The standard name format must be used: Position 1 – Prefix (standard is H). Position 2-4 – Record Code. Position 5-7 – Field Number Position 8 – Application Code. Field Identification Code 0. Indicates a Data Change Flag. The help name is used to define the record and field number of the associated field (e.g., <i>Frrrrnnna</i> , where <i>rrr</i> is the record code, <i>fff</i> is the field number, and <i>a</i> is the application code). Field Identification Code 7. Indicates a Select Key element. The Help Name field will contain the field number of corresponding record field coded as <i>Rrrrrfffa</i> , where <i>rrr</i> is the AMTrecord code, <i>fff</i> is the AMT field number and <i>a</i> is the AMT application code.: Field Identification Code 8. Indicates a Data Change Group. The help name is used to define the length of the data change area and number of times it occurs (e.g., <i>Dnnnnoooab</i> , where <i>nnn</i> is the number of data change flags within the group and <i>ooo</i> is the number of occurrences for the group.) Field Identification Code 9. Indicates a Record Part. The Help Name contains the AMT record part key. (e.g., <i>Rrrrrooa</i> , where <i>rrr</i> is the AMT record code, <i>ooo</i> is the number of occurrences of the AMTrecord where 000 indicates one record, and <i>a</i> is the application code used to form a key to another AMT record).					
MIAMW-HPREFIX	09	C	X(01)	185	185
Help Name Prefix. First position of the help used to designate that it is a help panel. Valid entry is H .					
MIAMW-HRECCD	09	C	X(03)	186	188
Help Name Record Code. Application Management Table record code that appears in positions 2 – 4 of the Help Name.					
MIAMW-HFLDNBR	09	C	X(03)	189	191
Help Name Field Number. Application Management Table field number that appears in positions 5 – 7 of the Help Name.					

Field Name	Level	Mode	Picture	Displacement	
MIAMW-HAPPLCD	09	C	X(01)	192	192
Help Name Application Code. Application Management Table application code that appears in position 8 of the Help Name.					
MIAMW-PLITLGTH	07	B	9(02)	193	194
Print Field Literal Length. The length of the field literal. Valid entries are 00 – 15 .					
MIAMW-CFLAG	07	C	X(01)	195	195
Field Changed Flag. Valid entries are:					
b Field was not changed.					
Y Field was changed.					

MI-BKUPFIL – MICM Backup File

The Backup File is a tape file containing a mirror image of the MICM Master File, Application Management Table and/or Table File. This file is used for backup purposes and for reorganization of the MICM Master File, Application Management Table, and Table File.

File Statistics

File Type	Tape		
External Name	MIBKUP		
Record Name	Library Name	Record Length	
MI-BKUPREC	MISV000	0051-6095 Bytes	

MI-BKUPREC – MICM Backup Record

MI-BKUPREC has the same format as MI-MASTREC (Variable Length Master Record). Refer to MI-MASTREC for the field descriptions.

MI-CRDBFIL – Institution Control Card Input File

The Institution Control Card Input Record contains all of the user-generated input to the MICM Institution Control Record. This file is used in 2 places by the system. First, it is used by the File Create program (MIC020), to create the Institution Record containing the System Header Record during installation. Second, it is used by the Institution Control Record Update program (MID020), to update the Institution Control Record by adding, changing, and deleting institution records.

File Statistics

File Type External Name	Card MICRDB		
Record Name	Library Name	Record Length	
MI-FM01REC	MIS005	0080 Bytes	

MI-FM01REC – Institution Control Card Input Record

The Institution Control Input Record contains information to be processed against the Institution File Key when adding, changing or deleting. The information for this record is entered on the Institution Control input form as described in the Application Forms chapter of MICM *Procedures Guide 2*. The Institution Control Input Record contains the processing dates, the processing option and the report print density for MICM.

Field Name	Level	Mode	Picture	Displacement	
MI-FM01REC Institution Control Input Record.	01	R		1	80
MI01-KEY Key Data.	03	G		1	25
MI01-SYSNBR System Number. Valid entry is 00 , indicating MICM.	05	N	9(02)	1	2
MI01-BKNBR Institution Number.	05	N	9(04)	3	6
FILLER Not used.	05	C	X(15)	7	21
MI01-FORMNBR Form Number. Valid entries are: 00 New institution. 01 Change to existing institution. 02 Delete institution.	05	N	9(02)	22	23

Field Name	Level	Mode	Picture	Displacement	
MI01-CRDNBR Card Number. The only valid card number is 00 .	05	N	9(02)	24	25
MI01-DATA Card Data.	03	G		26	80
MI01-CURDT Current Date. Format is MMDDYYYY.	05	N	9(08)	26	33
MI01-LPROC DT Last Process Date. Date on which processing last occurred. This date is vital to the system and is used in various calculations where updating is necessary. Format is MMDDYYYY.	05	N	9(08)	34	41
MI01-NPROC DTS Next Process Date. Next scheduled processing date for the system or institution. Format is MMDDYYYY.	05	N	9(08)	42	49
MI01-NPROC DTA Next Actual Processing Date. Date on which the system or institution is actually being processed. This date cannot agree with the next scheduled process day because of a holiday. Format is MMDDYYYY.	05	N	9(08)	50	57
MI01-PROCWK Process Week Information. Contains a code for each day of the week, Sunday through Saturday.	05	G		58	64
MI01-PWDAY OCCURS 7. Process Week. These 7 entries correspond to a particular day of the week. The first entry represents Sunday while the last entry represents Saturday. Each entry is coded to indicate if the system or institution processes on that day, and if not, whether the institution is open or closed. Valid entries are: b Open and processing. C Closed, no processing. N Open, no processing.	07	C	X(01)	58	64
MI01-PROCOP Process Option. Process option code indicates whether to process before or after a holiday. This applies only to the Institution Control Record, Institution 000. Valid entries are: A Process after a holiday (not used by any of the Infopoint systems). B Process before a holiday (Infopoint applications only process before a holiday).	05	C	X(01)	65	65
MI01-INCH Report print density indicates if reports are printed at 6 or 8 lines to the inch. This applies only to the Institution Control Record, Institution 000. Valid entries are: 6 Print at 6 lines per inch. 8 Print at 8 lines per inch.	05	C	X(01)	66	66

Field Name	Level	Mode	Picture	Displacement	
MI01-SELECT Reserved for future use.	05	C	X(01)	67	67
FILLER Not used.	05	C	X(13)	68	80

MI-CRDCFIL – MICM Card Input File

The MICM Card Input File contains all of the user-generated input to the MICM Master File. This file is used in 2 places by the system. First, it is used by the File Create program (MIC100) to create the MICM File containing the system header record during installation. Second, it is used by the Card Input program (MID090) as input to the system. The information for this file is entered on the input forms described in the Application Forms chapter of MICM *Procedures Guide 2*.

File Statistics

File Type	Card	
External Name	MICRDC	
Record Name	Library Name	Record Length
MI-CRDCREC	None	0080 Bytes

MI-CRDCREC – MICM Card Input Record

The MICM Card Input Record contains the actual input layouts of the individual forms. Card 00 always contains the key information.

Field Name	Level	Mode	Picture	Displacement
MI-CRDCREC	01	R		1 80

This record contains the card image for all MICM batch input forms.

MI-CRDMFIL – MICM Table Maintenance Card File

This is the card image for input to the Table File Maintenance program (MIR061).

File Statistics

File Type	Disk	
External Name	MICRDM	
Record Name	Library Name	Record Length
MI-CRDMREC	MIS009	0080 Bytes

MICM Merged Card Input Record

The Card Records contain the actual input layouts of the individual forms. Card 00 always contains the key information.

Field Name	Level	Mode	Picture	Displacement	
MI-CRDMREC This record contains the card image for all MICM batch input forms.	01	R		1	80
MICT-KRECNBR MICM Record Number.	03	C	X(04)	1	4
MICT-FLDKEY Field Key.	03	G		5	10
MICT-FLDNBR Field Number. Unique number assigned to this field.	05	C	X(03)	5	7
MICT-FLDSTACKNBR Field Stack Number. Unique number assigned to this field when there is more than 1 field with the same Field Number.	05	C	X(03)	8	10
MICT-FUNCTION Function. This field is used with Card Type '0'. Valid entries are: A Add new record. D Delete record. R Replace record. 1 Continuation of current Card Type.	03	C	X(01)	11	11
MICT-CARDTYPE Card Type. Valid entries are: 0 Card 0 data. 1 Card 1 data. 2 Card 2 data.	03	C	X(01)	12	12

Field Name	Level	Mode	Picture	Displacement	
MICT-DATA0 Card 0 Data.	03	G		13	80
MICT-KEYTYPE Key Type. Key type on the master record. This refers to the contents of the 36 bytes in the key following the region number. Valid entries are: <ol style="list-style-type: none"> 1 All 36 blanks. 2 First 8 alphanumeric, next 2 binary, last 26 blanks. Use for MICM Record 0982 only. 3 All 36 alphanumeric. 4 First 8 binary, next 2 alphanumeric, last 26 blanks. 5 First 8 binary, next 2 alphanumeric, last 26 blanks. 6 First 4 binary, next 6 alphanumeric, last 26 blanks. 7 First 8 binary, next 4 binary, last 26 blanks. 	05	C	X(01)	13	13
MICT-NBRCARDS Number of Cards. Total number of cards required for entering all of the information contained on this form. Valid entries are 01 – 98 .	05	C	X(02)	14	15
MICT-CARDSREQ Cards Required. Number of cards required to accept the set. This field is used with the New Set Edit field.	05	C	X(02)	16	17
MICT-NEWSETEDIT New Set Edit. Identifies which cards of the set are required when entering for a new record. Valid entries are: <ol style="list-style-type: none"> 1 All cards must be present. 2 The minimum of Card Number 01 must be present. 3 The minimum of 1 card with a card number greater than 00 must be present. 4 All cards required must be present. 	05	C	X(01)	18	18
MICT-VALIDMODEL Valid Model. Indicates whether this form can be used for modeling. This field is used in IQ HDT message definitions to indicate if the function module specified in the user program name is written according to standards. Valid entries are: <ol style="list-style-type: none"> N Cannot be used for modeling. For IQ HDT message definitions, the function module is not written according to standards. Y Can be used for modeling. For IQ HDT message definitions, the function module is written according to standards. 	05	C	X(01)	19	19
MICT-VALIDEFFDT Valid Effective Date. Indicates whether this form can have an effective date. Valid entries are: <ol style="list-style-type: none"> N Cannot have an effective date. Y Can have an effective date. 	05	C	X(01)	20	20

Field Name	Level	Mode	Picture	Displacement	
MICT-VALIDREGION	05	C	X(01)	21	21
Valid Region. Indicates whether this form can have a region entered. Valid entries are: N Cannot have a region entered. Y Must have a region entered.					
MICT-BKNBREDIT	05	C	X(01)	22	22
Institution Number Edit. Indicates edit options for the institution to have an effective date. Valid entries are: O Use the operator's institution number. X Institution 000 (all zeros in the Institution Number). Y Use the operator's institution number and place 00 in the seventh and eighth positions of the routing transit number in the key. Z Use the institution number entered on the panel (used for MICM Form 0000).					
MICT-FILLER	05	C	X(01)	23	23
Not used.					
MICT-PAGECNT	05	C	X(02)	24	25
Page Count. Indicates how many input panels are required to enter all of the information for this form.					
MICT-NBRPLINES	05	C	X(02)	26	27
Number of Print Lines. Indicates to the master list program how many lines it needs to print the information for this form. Valid entries are 01 – 99 .					
MICT-FORMNAME	05	C	X(30)	28	57
Form Name. Description of form.					
FILLER	05	C	X(15)	58	72
Not used.					
MICT-CMS-SEQNBR0	05	C	X(08)	73	80
CMS Sequence Number.					
MICT-DATA1	03	G		13	80
REDEFINES MICT-DATA0. Card 1 Data.					
MICT-ENTRY	05	G		13	54
Field Table Entry.					
MICT-FLDNAME	07	C	X(12)	13	24
Field Name. Short name of the field. The name appears on the input panel and printed reports.					
MICT-FLDSTACKLGTH	07	C	X(01)	25	25
Field Stack Length. Number of card positions used to contain the field stack number when the field stack number is greater than zero. The field stack number starts with the maintenance card, card number 99, after the field number.					

Field Name	Level	Mode	Picture	Displacement
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MICT-ENTRYTYPE	07	C	X(01)	26 26
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Field Entry Type. Indicates special attributes for this field. Valid entries are:

- H** Field contains the heading information only used by program MIR100.
- I** Field is internally set and is not governed by the table except for printing purposes.
- K** Field is contained in the key area.
- N** Normal field.
- R** Field is reserved.
- S** Field is the status field used for maintenance.

MICT-DECIMAL	07	C	X(01)	27 27
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Decimal Position. Position of the assumed decimal point. (e.g., Number 11111.222 MIT-DECIMAL value is 3.)

MICT-EDITINFO	07	G		28 54
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Edit Information. This group contains information on how to edit this field.

MICT-ENONDEFAULT	09	C	X(01)	28 28
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Non-default. Indicates if the Non-default '\ ' character is valid for this field. Valid entries are:

- N** Non-default character is not valid for this field.
- Y** Non-default character is valid for this field.

MICT-EFORMATCD	09	C	X(01)	29 29
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Edit Format Code. Defines the format of the field on the Master Record Valid entries are:

- 1** Alphanumeric.
- 2** Numeric display.
- 3** Numeric packed decimal.
- 4** Numeric binary.
- 5** Encrypted.

MICT-ECD	09	C	X(02)	30 31
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Edit Code. Indicates what type of edit to perform on this field. Valid entries are:

- 01** No edit. Field can contain any characters.
- 02** Alphanumeric spaces allowed. Field can contain characters 'a' – 'z', 'A' – 'Z', '0' – '9' and blanks.
- 03** Alphanumeric spaces not allowed. Field can contain characters 'a' – 'z', 'A' – 'Z' and '0' – '9'.
- 04** Numeric. Field can contain characters '0' – '9', '+0' – '+9' and '-0' – '-9'.
- 05** Numeric or spaces. Field can contain characters '0' – '9', '+0' – '+9', '-0' – '-9' or –all blanks.
- 06** Numeric default zeros. Field can contain characters '0' – '9', '+0' – '+9', '-0' – '-9'. If this field is not entered or contains blanks, it is zero filled.
- 07** Range. The field is validated against the ranges specified in the Edit Control.
- 08** Range default zeros. If field is not entered the field is zero filled. If the field is entered it is validated against the ranges specified in the Edit Control.
- 09** Range spaces OK. If field is blanks it is accepted. If it is not blanks it is validated against the ranges specified in the Edit Control.
- 10** Codes. The field is validated against the codes specified in the Edit Control.
- 11** Compare low. The value must be less than the value specified in the Edit Control.

Field Name	Level	Mode	Picture	Displacement
12	Compare high.	The value must be greater than the value specified in the Edit Control.		
13	Date.	Standard date edit.		
14	Date.	Standard date edit with zero being valid.		
15	Date.	Standard date edit. Default is the current date from Institution Control File.		
16	Date.	Standard date edit with date not greater than current date on the Institution Control File.		
17	Date.	Standard date edit with date not less than current date on the Institution Control File.		
18	Date.	Standard date edit with date less than current date on the Institution Control File.		
19	Date.	Standard date edit with date greater than the current date on the Institution Control File.		
20	Verification done with the use of MICM Record 7001.	The Edit Control Low field can be used to override the key used to access the MICM Record 7001 table.		
21	Verification done with the use of MICM Record 7001.	There must be a field with a 'T' in the Field ID (EFLDID) present within the same record. If the code is a 'R' on the data base then the sequence numbers 001 through 499 are used. If the code on the data is a 'C', then sequence numbers 501 through 999 are used. If the code is not a 'R' or 'C', then all sequence numbers are used.		
22	Verify state.	Uses the standard routine SRP049 (Verify State Abbreviation), which is a 2-byte test.		
23	Holiday.	The year 1900 is purged and the standard date edit is performed.		
24	Verify ZIP code.	The ZIP code verified by checking it with the State Abbreviation. A State Abbreviation field with an edit code of 22 must be present within the same record. If there is more than one State Abbreviation the Field Number of State Abbreviation to be used with this ZIP code must be in the first 3 positions of Edit Control Field.		
25	Verify province for Canada.	A State Abbreviation field with an edit code of '28' must be present within the same record.		
26	Verify branch.	Verification is performed by reading MICM Record 2001.		
27	Special codes.	The field is validated against the codes specified in the Edit Control then a search is made for all other fields that have an Edit Code of '27'. If one is found then the data from that field is compared to this field, and if it is equal it is an error. If either field contains a space then compare is not performed and the edit is accepted.		
28	Verify country.	Uses the standard routine SRP052 – Verify Country Abbreviations, which is a 2-byte test.		
29	Foreign address.	Edits foreign address fields (MICM batch only).		
30	Special 2004.	Edits a 4-character field as 4 separate fields. Refer to the API Records chapter of <i>Reference Guide 2</i> under MICM Record 2004 for a complete description.		
31	Date.	Date is filled by the application.		
32	Date.	Standard date edit where date must be equal to zeros or greater than the current date on the Institution Control File.		
33	Alphanumeric, right justify and zero fill.	Blanks are valid.		
34	MICR sorter pockets.	Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419 only. Valid entries are bA , bB , bR , bX , b0 , b1 , b2 , b3 , b4 , b5 , b6 , b7 , b8 , and b9 .		

Field Name	Level	Mode	Picture	Displacement	
35	<p>MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419, 3890 and 3694. This code performs a cross check with forms that have a MICR Type Code. These forms are 0124, 0128, 0132, 0134, and 0136.</p> <p>MICR Type Code 1 is for a 1419. Valid entries are Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8 and b9.</p> <p>MICR Type Code 2 is for a 3890. Valid entries are 11 – 16, 21 – 26, 31 – 36, 41 – 46, 51 – 56, 61 – 66, bX, Xb and XX.</p> <p>MICR Type Code 3 is for a 3694. Valid entries are: 01 through 24, bX, Xb and XX.</p>				
36	Special Codes. The field is validated against the codes specified in the Edit Control. Each code is validated against each position in the field.				
37	Codes, default 0. Edit for valid codes and if nothing entered, default to zero.				
38	Codes, no missing test. Edit for valid codes and if nothing entered, bypass the missing entry test.				
39	Language. Verify the entry against the language code.				
40	A/N Upper, no spaces. Require entry for alphanumeric, upper case. If no entry, an error.				
41	Numeric, no missing test. Edit for numeric and if nothing entered, bypass the missing entry test.				
42	Range, no missing test. The field is validated against the ranges specified in the Edit Control and if nothing is entered, bypass the missing est.				
43	Compare low, no missing test. The value must be less than the value specified in the Edit Control and if nothing is entered, bypass the missing test.				
44	Compare high, no missing test. The value must be greater than the value specified in the Edit Control and if nothing is entered, bypass the missing test.				
45	Product Code. Verification is performed by reading MICM Record 2023.				
46	Officer/Employee. Verification is performed by reading MICM Record 0242.				
MICT-ELGTH	09	C	X(02)	32	33
Field Length. Input length of this field. Valid entries are 01 – 63 .					
MICT-EMAINCONT	09	C	X(01)	34	34
Maintenance Continues. Indicates whether to continue with the next entry when maintenance is performed for this field. Valid entries are:					
N Do not continue with next entry.					
Y Continue with next entry.					
MICT-ECONTROL	09	G		35	54
Edit Control. Area used in conjunction with the Field Edit Code for specifying codes and ranges. When it is used for codes, place a period '.' after the last entry unless the entire Edit Control area is used. Refer to Field Edit Code when data is needed in this field.					
MICT-ECTLOW	11	C	X(10)	35	44
Edit Control Low. When the Field Edit Code is for a range, place the low value into this field. This field is also used to store the key to MICM Record 7001 when the Field Edit Code is set to 20; the first three positions are used for the MICM Record 7001 Record ID and the next three positions are used for the MICM Record 7001 Field Number.					

Field Name	Level	Mode	Picture	Displacement	
MICT-ECTLHIGH Edit Control High. When the Field Edit Code is for a range, place the high value into this field.	11	C	X(10)	45	54
MICT-ECTLONE REDEFINES MICT-ECONTROL. OCCURS 20 TIMES.	09	C	X(01)	35	54
FILLER Not used.	05	C	X(18)	55	72
MICT-CMS-SEQNBR1 CMS Sequence Number.	05	C	X(08)	73	80
MICT-DATA2 REDEFINES MICT-DATA0. Card 2 Data.	03	G		13	80
MICT-ENTRY2 Field Entry 2. Field entries from the third table record for the panel/form being processed.	05	G		13	49
MICT-CARDINFO Card Information.	07	G		13	16
MICT-CNBR Card Number. The card number that this field is in. Valid entries are 00 – 98 .	09	C	X(02)	13	14
MICT-CDISPLACE Card Displacement. Card column that this field starts in. Valid entries are 01 – 80 . The Card Displacement plus the Field Length minus 1 cannot be greater than 80.	09	C	X(02)	15	16
MICT-RECORDINFO Record Information. Defines the data attributes specific to the MICM Master Record.	07	G		17	23
MICT-RINDICATOR Record Indicator. Indicates which record this field is on when there is more than 1 record on the master file with the same form number. Valid entries are: 1 First record. Also used when there is only 1 record. 1 - 9 Records 2 – 10.	09	C	X(01)	17	17
MICT-RDISPLACE Record Field Displacement. Position in the record that this field starts in. Valid entries are 0001 – 4096 . The Record Field Displacement plus the Record Field Length minus 1 cannot be greater than 4096.	09	C	X(04)	18	21
MICT-RLGTH Record Field Length. Number of positions used in the record. Valid entries are 01 – 63 .	09	C	X(02)	22	23
MICT-SCREENINFO Panel Information. Defines the data attributes specific to the panels.	07	G		24	34

Field Name	Level	Mode	Picture	Displacement	
MICT-SMAPNBR	09	C	X(02)	24	25
Panel Map Number. Panel map number where this field appears. Valid entries are 01 – 11 .					
MICT-SPAGENBR	09	C	X(02)	26	27
Panel Page Number. Panel page number where this field appears. Value must be greater than 00 but not greater than the page count.					
MICT-SDISPLACE	09	C	X(04)	28	31
Panel Displacement. Panel position number where this number appears. Valid entries are 0000 – 0161 depending on the Map Name:					
0000 – 0030 MIV2002.					
0000 – 0032 MIV2010.					
0000 – 0039 MIV2005.					
0000 – 0052 MIV2001.					
0000 – 0053 MIV2011.					
0000 – 0054 MIV2007.					
0000 – 0063 MIV2006.					
0000 – 0071 MIV2008.					
0000 – 0082 MIV2003.					
0000 – 0104 MIV2004.					
0000 – 0161 MIV2009.					
MICT-SREQUIRED	09	C	X(01)	32	32
Panel Required. Indicates that this field must be entered. Slash (/) is placed on new panel for this field. Valid entries are:					
N Panel is not required to be entered, but can be entered.					
P Protect from change. Field is entered for new but cannot be changed.					
Y Panel is required to be entered.					
MICT-SFORMATCD	09	C	X(02)	33	34
Panel Format Code. Defines how the field appears when entered. Valid entries are:					
01 Alphanumeric.					
02 Numeric left justify.					
03 Numeric leading zeros.					
04 Numeric. Suppress leading zeros.					
MICT-PRINTINFO	07	G		35	49
Print Information. Defines the data attributes specific for printing the Master File reports.					

Field Name	Level	Mode	Picture	Displacement
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MICT-PFORMATCD	09	C	X(02)	35 36
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Print Format Code. Defines how the field appears when entered. Valid entries are:

- 01 Alphanumeric.
- 02 ZIP Code: 99999-9999
- 03 Dollars and Cents: ZZZ,ZZZ,ZZZ,ZZZ.99-
- 04 Rate: ZZZZZZZZZ,ZZZ.99999
- 05 Number: ZZZZZZ,ZZZ,ZZZ,ZZ9-
- 06 Telephone Number: 999/999-9999
- 07 Transit Number: 9999-9999
- 08 Date 6 positions: 99-99-99
- 09 Date 8 positions: 99-99-9999
- 10 Leading zero suppressed: ZZZZZZZZZZZZZZZ9
- 11 Numeric: 9999999999999999
- 12 Customer Alpha Name Key: XXXXXX-9999
- 13 Asterisk Fill: ****

MICT-PLINENBR	09	C	X(02)	37 38
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Print Line Number. Line number where this field is to be printed. Valid entries are **01 – 99**, but cannot be greater than the Number of Print Lines.

MICT-PDISPLACE	09	C	X(03)	39 41
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Print Displacement. Starting position on the report line that field is printed. Valid entries are **000 – 132**. The Print Displacement plus the Print Field Length minus 1 cannot be greater than 132.

MICT-PLGTH	09	C	X(03)	42 44
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Print Field Length. Length of the field on the report, and must include all editing characters. Valid entries are **001 – 132**.

MICT-PHEADLINENBR	09	C	X(02)	45 46
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Print Heading Line Number. Line number where this field heading is printed. Valid entries are **01 – 99**, but cannot be greater than the Number of Print Lines.

MICT-PHEADDISPLACE	09	C	X(03)	47 49
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Print Heading Displacement. Starting position on the report where the field heading is printed. Valid entries are **000 – 120**.

FILLER	05	C	X(23)	50 72
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Not used.

MICT-CMS-SEQNBR2	05	C	X(08)	73 80
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CMS Sequence Number.

MI-CRDOFIL – Card Image File

The Card Image File contains all of the input to the MICM Card Input Program (MID090) that had '00' in columns 1 and 2. This file is the input to the Maintenance Cards Edit program (MID100).

File Statistics

File Type	Disk		
External Name	MICRDO		
Record Name		Library Name	Record Length
MI-CRDOREC		None	0164 Bytes

MI-DSKIFIL – Disk Input File

The Disk Input File contains all of the user generated input to the MICM Master File. This file is used in 2 places by the system. First, it is used by the File Create program (MIC100) to create the MICM File containing the System Header Record during installation. Second, it is used by the Card Input program (MID090) as input to the system. The information for this file is entered on the forms described in the Application Forms chapter of MICM *Procedures Guide 2*.

File Statistics

File Type	Disk	
External Name	MIDSKI	
Record Name	Library Name	Record Length
MI-DSKIREC	None	0080 Bytes

MI-EDITFIL – Edited Card Image File

The Maintenance Cards Edit program (MID100) creates the Edited Card Image File from the valid system input. Invalid data not posted by the file maintenance program is not written to this file. Rejected data must be corrected and the input re-entered in the Card Input program (MID090) to be written to this file.

File Statistics

File Type	Disk		
External Name	MIEDIT		
Record Name		Library Name	Record Length
MI-EDITREC		None	0080 Bytes

MI-HDTSFIL – Maintenance History Daily Transaction File

This file is used as input to the Maintenance History Merge program (MID400).

File Statistics

File Type External Name	Disk MIHDTS
Record Name MI-HDTSREC	Library Name MISHDTS
	Record Length 0224 Bytes

MI-HDTSREC – Maintenance History Daily Transaction Record

The following record description shows the format of the Maintenance History Daily Transaction Record.

Field Name	Level	Mode	Picture	Displacement	
MI-HDTSREC Maintenance History Daily Transaction Record.	01	R		1	224
MIHDTS-GRP-KEY Maintenance History Key Data.	03	G		1	84
MIHDTS-INST Institution Number.	03	N	9(04)	1	4
MIHDTS-MANAGER Manager Code.	05	N	9(02)	5	6
MIHDTS-APPL Application Code.	05	N	X(03)	7	9
MIHDTS-RECKEY Record Key. Key of the record that was maintained.	05	C	X(52)	10	61
MIHDTS-DATE Maintenance Date. Format is YYYYMMDD.	05	N	9(08)	62	69
MIHDTS-TIME Maintenance Time. Format is HHMMSS.	05	N	9(06)	70	75
MIHDTS-TIEBR Tie Breaker. Used to make the key unique.	05	N	9(05)	76	80
MIHDTS-RECID Record ID. Contains an application-defined code which distinguishes this record and its order in the file. When this optional field is not used, it must contain spaces.	05	C	X(04)	81	84

Field Name	Level	Mode	Picture	Displacement	
MIHDTS-GRP-DATA Maintenance History Daily Transaction Group Area.	03	G	X(03)	85	224
MIHDTS-AMT-KEY Application Management File Key. When this optional field is not used, it must contain spaces.	05	G		85	89
MIHDTS-RECCD Record Code.	07	C	X(03)	85	87
MIHDTS-APPLCD Application Code.	07	C	X(02)	88	89
MIHDTS-FLDNBR Field Number. Number assigned to the database field within this record. When this optional field is not used, it must contain zero.	05	P	9(03)	90	91
MIHDTS-NAME Field Name. Short name of the field.	05	C	X(15)	92	106
MIHDTS-2NDKEY Second Key. Contains the key information related to the Record ID field (MIHDTS-RECID).	05	C	X(25)	107	131
MIHDTS-OPERAID Operator ID. Identification of the operator or name of the program that performed this maintenance.	05	C	X(08)	132	139
MIHDTS-USER User Area. User-defined.	05	C	X(04)	140	143
MIHDTS-BEFORE Before Information. Information before maintenance was performed. If this information is for a new or deleted record, it can contain any text (e.g., short name).	05	C	X(40)	144	183
MIHDTS-AFTER After Information. Information after maintenance is performed. If this information is for a new or deleted record, it can contain any text (e.g., short name).	05	C	X(40)	184	223
MIHDTS-TYPE Maintenance Function Code. Valid entries are: A Add. D Delete. M Maintenance.	05	C	X(01)	224	224

MI-HSTSFIL – Maintenance History Sequential File

The Maintenance History Sequential File is copied to the Maintenance History Record.

File Statistics

File Type	Disk	
External Name	MIHSTS	
Record Name	Library Name	Record Length
MI-HSTSREC	MISHSTS	0248 Bytes

MI-HSTSTEC – Maintenance History Sequential Record

The following record description shows the format of the Maintenance History Sequential Record.

Field Name	Level	Mode	Picture	Displacement	
MI-HSTSREC Maintenance History Sequential Record.	01	R		1	248
MIHSTS-GRP-KEY Maintenance History Key Data.	03	G		1	84
MIHSTS-INST Institution Number.	03	N	9(04)	1	4
MIHSTS-MANAGER Manager Code.	05	N	9(02)	5	6
MIHSTS-APPLREC Application Code.	05	N	X(03)	7	9
MIHSTS-RECKEY Record Key. Key of the record that was maintained.	05	C	X(52)	10	61
MIHSTS-DATE Maintenance Date. Format is YYYYMMDD. This date is stored by subtracting 99999999 (e.g., 19950228 is stored as 8004977J). This is done to place the most recent maintenance record first. To convert the date back to its original value, add 99999999 to it.	05	NS	S9(08)	62	69
MIHSTS-TIME Maintenance Time. Format is HHMMSS.	05	N	9(06)	70	75
MIHSTS-TIEBR Tie Breaker. Used to make the key unique.	05	N	9(05)	76	80

Field Name	Level	Mode	Picture	Displacement	
MIHSTS-RECID Record ID. Contains an application-defined code which distinguishes the record and its order in the file. When this optional field is not used, it must contain spaces.	05	N	9(04)	81	84
MIHSTS-AUDIT-STAMP Audit Stamp.	03	G		85	108
MIHSTS-UPD-DATE Audit Update Date. Date the last record was updated.	05	PS	S9(09)	85	89
MIHSTS-UPD-TIME Audit Update Time. Time the last record was updated.	05	PS	S9(09)	90	94
MIHSTS-UPD-USER Audit Update User.	05	C	X(08)	95	102
MIHSTS-UPD-ORG Audit Update Organization.	05	C	X(06)	103	108
MIHSTS-GRP-DATA Maintenance History Group Area.	03	G	X(03)	109	248
MIHSTS-AMT-KEY Application Management File Key. When this optional field is not used, it must contain spaces.	05	G		109	113
MIHSTS-RECCD Record Code.	07	C	X(03)	109	111
MIHSTS-APPLCD Application Code.	07	C	X(02)	112	113
MIHSTS-FLDNBR Field Number. Number assigned to the database field within the record. When this optional field is not used, it must contain zero.	05	P	9(03)	114	115
MIHSTS-NAME Field Name. Short name of the field.	05	C	X(15)	116	130
MIHSTS-2NDKEY Second Key. Contains the key information related to the Record ID field (MIHST-RECID).	05	C	X(25)	131	155
MIHSTS-OPERAID Operator ID. Identification of the operator or name of the program that performed the maintenance.	05	C	X(08)	156	163
MIHSTS-USER User Area. User-defined.	05	C	X(04)	164	167

Field Name	Level	Mode	Picture	Displacement	
MIHSTS-BEFORE	05	C	X(40)	168	207
Before Information. Information before maintenance was performed. If this information is for a new or deleted record, it can contain any text (e.g., short name).					
MIHSTS-AFTER	05	C	X(40)	208	247
After Information. Information after maintenance is performed. If this information is for a new or deleted record, it can contain any text (e.g., short name).					
MIHSTS-TYPE	05	C	X(01)	248	248
Maintenance Function Code. Valid entries are:					
A Add.					
D Delete.					
M Maintenance.					

MI-LOGGFIL – Log File

All online activity, except inquiries, is written to this file. The Log File is used as input for printing the online reports and for recovery purposes. During recovery or reporting the log file is accessed using called input/output routines.

Information which is used to create this file is passed from the control program and the panel programs, using the log area, to the log module. The log module is the only program or module which writes records to this file.

File Statistics

File Type	Disk	
Access Method	VSAM, Entry-sequence Data Set	
External Name	MILOGG	
Record Name	Library Name	Record Length
SL-LOGGREC (4.0)	SLS106	0307 Bytes
SL-LOGGREC (3.0)	SLS006	0200 Bytes

SL-LOGRREC – Log File Record (4.0)

The following description shows the format of SL-LOGRREC. Copybook is SLS106.

Field Name	Level	Mode	Picture	Displacement	
SL-LOGRREC Log Record Data.	01	R		1	307
LOGR-RBA Relative Byte Address of Record.	03	B	9(08)	1	4
LOGR-SYSNBR System Number.	03	N	9(02)	5	6
LOGR-BKNBR Institution Number.	03	PS	S9(04)	7	8
LOGR-TIME Time of Transaction. Format is HHMMSS.	03	PS	S9(07)	9	12
LOGR-TRMID Terminal Identification.	03	C	X(04)	13	16
LOGR-KEY Key. Key can vary according to the transaction being processed.	03	G		17	147

Field Name	Level	Mode	Picture	Displacement	
LOGR-KEYA General Reporting Information.	05	G		17	41
LOGR-DATE Transaction Date. Format is YYYYDDD.	07	PS	S9(07)	17	20
LOGR-OPERID Operator Identification.	07	C	X(08)	21	28
LOGR-RPTNBR Report Number.	07	B	S9(04)	29	30
LOGR-FORMNBR Form Number.	07	N	9(04)	31	34
LOGR-CRDNBR Card Number.	07	N	9(03)	35	37
LOGR-FLDNBR Field Number.	07	P	9(04)	38	40
LOGR-FLDSEQ Field Sequence Number.	07	C	X(01)	41	41
LOGR-KEYB Detail Key Data. This area varies by system and transaction.	05	G		42	147
LOGR-CUST1KEY Customer Key.	07	G		42	57
LOGR-SURNAME First 6 Letters of Customer Last Name.	09	C	X(06)	42	47
LOGR-INITONE First Character of Customer First Name.	09	C	X(01)	48	48
LOGR-INITTWO First Character of Customer Middle Name.	09	C	X(01)	49	49
LOGR-TIEBRKR Tie Breaker. Used to ensure customer name is unique.	09	N	9(04)	50	53
LOGR-DTMAINT Date of Last Maintenance. To be used by Infopoint CIF customers.	09	PS	S9(07)	54	57
LOGR-ACCTDATA REDEFINES LOGR-CUST1KEY. Account information.	07	G		42	57

Field Name	Level	Mode	Picture	Displacement	
LOGR-ACCOUNT Account Number.	09	B	9(18)	42	49
LOGR-MNTDT Date of Last Maintenance.	09	PS	S9(07)	50	53
FILLER Not used.	09	C	X(04)	54	57
LOGR-BRANCH Branch Number.	07	PS	S9(05)	58	60
LOGR-TYPE Account Type or Control Group.	07	PS	S9(03)	61	62
LOGR-IFCUST1 Customer Key.	07	C	X(12)	63	74
LOGR-IFSHORT Customer's Short Name.	07	C	X(20)	75	94
FILLER Not used.	07	C	X(53)	95	147
LOGR-DATA Log Record Data Area.	03	G		148	307
LOGR-DATAFROM Old Data for Maintenance Transactions.	05	C	X(80)	148	227
LOGR-DATAFROMR REDEFINES LOGR-DATAFROM.	05	G		148	227
LOGR-DATAFROM9 Further redefinition of LOGR-DATAFROM. Used for numeric data.	07	N	S9(18)	148	165
LOGR-DATATO New Data for Maintenance Transactions.	05	C	X(80)	228	307
LOGR-DATATOR REDEFINES LOGR-DATATO.	05	G		228	307
LOGR-DATATO9 Further redefinition of LOGR-DATATO. Used for numeric data.	07	N	S9(18)	228	245

SL-LOGRREC – Log File Record (3.0)

The following description shows the format of SL-LOGRREC. Copybook is SLS006.

Field Name	Level	Mode	Picture	Displacement	
SL-LOGRREC Log File Record.	01	R		1	200
LOGR-RBA Relative Byte Address of Record.	03	B	9(08)	1	4
LOGR-SYSNBR System Number.	03	N	9(02)	5	6
LOGR-BKNBR Institution Number.	03	PS	S9(03)	7	8
LOGR-KEY Key. Key can vary according to the transaction being processed.	03	G		9	24
LOGR-ACCOUNT Account Number.	05	B	9(18)	9	16
LOGR-MNTDT Date of Last Maintenance.	05	PS	S9(07)	17	20
LOGR-DTMAINT Date of Last Maintenance. To be used by Infopoint CIF customers.	05	PS	S9(07)	21	24
LOGR-BRANCH Branch Number.	03	PS	S9(05)	25	27
LOGR-TYPE Account Type or Control Group.	03	PS	S9(03)	28	29
LOGR-MISCKEY Miscellaneous Key Information.	03	G		30	94
LOGR-OFFICER Officer Code.	05	C	X(09)	30	38
LOGR-ADES Account Designation Code.	05	C	X(01)	39	39
LOGR-IFCUST1 Customer Key.	05	C	X(12)	40	51
LOGR-NSDATA REDEFINES LOGR-IFCUST1.	05	G		40	51

Field Name	Level	Mode	Picture	Displacement	
LOGR-AMT Amount.	07	PS	S9(11)V99	40	46
LOGR-EFFCDT Effective Date.	07	PS	S9(07)	47	50
LOGR-DRCR Debit/Credit Code.	07	C	X(01)	51	51
LOGR-IFSHORT Customer's Short Name.	05	C	X(20)	52	71
LOGR-MISCDATA REDEFINES LOGR-IFSHORT.	05	G		52	71
LOGR-APPL Application.	07	C	X(03)	52	54
LOGR-SHORT Short Name.	07	C	X(15)	55	69
LOGR-NSITC Transaction Code.	07	B	S9(04)	70	71
LOGR-IDCODE Preauthorized Transfer Record Identification Code.	05	C	X(05)	72	76
LOGR-SEQNBRX REDEFINES LOGR-IDCODE.	05	G		72	76
LOGR-SEQNBR Stop/Hold Sequence Number.	07	B	S9(04)	72	73
LOGR-RESEQ Indicator set by online programs to determine if stops or holds for an account need to be referenced when recovering.	07	C	X(01)	74	74
FILLER Not used. Valid entry is b .	07	C	X(02)	75	76
LOGR-CTLACC Control Account.	05	C	X(09)	77	85
FILLER Not used. Valid entry is b .	05	C	X(09)	86	94

Field Name	Level	Mode	Picture	Displacement	
LOGR-DATE Transaction Date. Format is YYYYDDD.	03	PS	S9(07)	95	98
LOGR-OPERID Operator Identification.	03	C	X(04)	99	102
LOGR-TIME Time of Transaction. Format is HHMMSS.	03	PS	S9(07)	103	106
LOGR-TRMID Terminal Identification.	03	C	X(04)	107	110
LOGR-RPTNBR Report Number.	03	B	S9(04)	111	112
LOGR-FORMNBR Form Number.	03	N	9(03)	113	115
LOGR-CRDNBR Card Number.	03	N	9(02)	116	117
LOGR-FLDNBR Field Number.	03	P	9(03)	118	119
LOGR-FLDSEQ Field Sequence Number.	03	C	X(01)	120	120
LOGR-DATA Log Record Data Area.	03	C	X(80)	121	200
LOGR-DATAR REDEFINES LOGR-DATA.	03	G		121	200
LOGR-DATA9 Further redefinition of LOGR-DATA to handle numeric characters for reporting.	05	N	S9(18)	121	138

MI-MASTFIL – MICM Master File

This file is only used for applications that have not converted to API records. It is not used by MICM. This Master File contains both information that is referenced by various Infopoint applications and information that is used only by the individual system for which it was established.

Since this system is organized as a VSAM file, each record must have a unique identifying key. The key of every record contains the institution number, record number, region number, effective date, model indicator and record indicator. The remaining portion of the key depends on the type of data contained on the record. This variable key data can be in 1 of 4 basic formats. The alpha-name-key format is used for customer information records. Most numeric information is stored in a binary format while other types of key data are stored as character data. The fourth type of key is stored in a format containing both binary and character data.

The 2 MICM Master Record formats give the basic key formats and explain the fields of the MICM Master File up to the point where the individual record formats begin. The MICM Master File is divided into multiple copybooks, with each record defined as an individual copybook. Each record/copybook corresponds to the RECDATA portion of the MASTREC Record (variable or fixed). Since each MICM Record uses only 1 key format, the key format used is included with each record format. This key portion and BYTEOCCURS (1 to 51 bytes) is included for documentation purposes only and is not part of the actual MICM Record copybook.

File Statistics

File Type	Disk		
Access Method	VSAM, Key-sequence Data Set		
Key Length	0048 Bytes		
Key Displacement	0000 Bytes		
External Name	MIMAST		
Record Name	Library Name	Record Length	
MI-MASTREC	MISF000	4096 Bytes	
MI-MASTREC	MISV000	52 to 4096 Bytes	

MI-MASTREC – Fixed Length Master Record

The MI-MASTREC record contains the information which is common to multiple Infopoint applications, and is accessed by these various systems during processing. This fixed format is used for online and batch access of the MICM Master File.

The different records accessed through this record have multiple formats of fixed length information. Each of the different formats are assigned a unique record number. All of these records consist of the key (48 bytes), status (1 byte), BYTEOCCURS (2 bytes) and the data (1 to 4045 bytes).

Field Name	Level	Mode	Picture	Displacement	
MI-MASTREC Master Record.	01	R		1	4096
MIM-KEY Key Data.	03	G		1	48
MIM-BK Institution Number.	05	B	S9(04)	1	2
MIM-REC Record Number.	05	B	S9(04)	3	4
MIM-REGION Pricing Region.	05	PS	S9(03)	5	6
MIM-KEY1 Alpha-name Key.	05	G		7	42
MIM-SURNAME First 6 letters of the customer's last name.	07	C	X(06)	7	12
MIM-INITONE First initial of the customer's first name.	07	C	X(01)	13	13
MIM-INITTWO First initial of the customer's middle name.	07	C	X(01)	14	14
MIM-TIEBRKR Number used to differentiate between customers with the same alpha-name-key.	07	B	S9(04)	15	16
FILLER Not used.	07	C	X(26)	17	42
MIM-KEY2 REDEFINES MIM-KEY1.	05	G		7	42
MIM-KEYNBR Numeric Key Data.	07	B	S9(18)	7	14

Field Name	Level	Mode	Picture	Displacement	
MIM-KEYSP Valid entry is b .	07	C	X(02)	15	16
FILLER Not used.	07	C	X(26)	17	42
MIM-KEY3 REDEFINES MIM-KEY1.	05	G		7	42
MIM-KEY3X10 Contains the first 10 bytes of alphanumeric key data.	07	C	X(10)	7	16
MIM-KEY3X26 Contains the next 26 bytes of alphanumeric key data.	07	C	X(26)	17	42
MIM-KEY5 REDEFINES MIM-KEY1.	05	G		7	42
MIM-KEY5ACCT Contains various numeric key data.	07	B	S9(18)	7	14
MIM-KEY5DES Contains alphanumeric key data.	07	C	X(01)	15	15
MIM-KEY5SP Valid entry is b .	07	C	X(01)	16	16
FILLER Not used.	07	C	X(26)	17	42
MIM-KEY6 REDEFINES MIM-KEY1.	05	G		7	42
MIM-KEY6BIN Contains numeric key data.	07	B	S9(09)	7	10
MIM-KEY6AN Contains alphanumeric key data.	07	C	X(06)	11	16
FILLER Not used.	07	C	X(26)	17	42
MIM-KEY7 REDEFINES MIM-KEY1.	05	G		7	42

Field Name	Level	Mode	Picture	Displacement	
MIM-KEY7BIN18 Contains numeric key data.	07	B	S9(18)	7	14
MIM-KEY7BIN04 Contains numeric key data.	07	B	S9(04)	15	16
FILLER Not used. Valid entry is b .	07	C	X(26)	17	42
MIM-EFFDT Effective Date. Stored as a negative Julian date.	05	B	S9(08)	43	46
MIM-MODEL Model Indicator.	05	C	X(01)	47	47
MIM-INDR Record Indicator. Used to distinguish between multiple records having the same key. The first record of a group always has an indicator of a b . Additional records, if present, have a numeric indicator beginning with 1.	05	C	X	48	48
MIM-STATUS Record Status. Valid entries are: b Active record. D Inactive record.	03	C	X	49	49
MIM-BYTEOCCURS Number of bytes of data used for individual records.	03	B	S9(04)	50	51
MIM-RECDATA Record Data. Varies by record.	03	C	X(4045)	52	4096

MI-MASTREC – Variable Length Master Record

This record contains the information which is common to multiple Infopoint systems. This information is accessed by these various systems during processing. The variable length format is usually used by the I/O module when reading or writing MICM Master File records.

The different records accessed through this record have multiple formats of fixed length information. Each of the different formats are assigned a unique record number. All of these records consist of the key (48 bytes), status (1 byte), BYTEOCCURS (2 bytes) and the data (1 to 4045 bytes).

Field Name	Level	Mode	Picture	Displacement	
MI-MASTREC Master Record.	01	R		1	V
MIV-KEY Key Data.	03	G		1	48
MIV-BK Institution Number.	05	B	S9(04)	1	2
MIV-REC Record Number.	05	B	S9(04)	3	4
MIV-REGION Pricing Region.	05	PS	S9(03)	5	6
MIV-KEY1 Alpha-name Key.	05	G		7	42
MIV-SURNAME First 6 letters of the customer's last name.	07	C	X(06)	7	12
MIV-INITONE First initial of the customer's first name.	07	C	X(01)	13	13
MIV-INITTWO First initial of the customer's middle name.	07	C	X(01)	14	14
MIV-TIEBRKR Number used to differentiate between customers with the same alpha-name-key.	07	B	S9(04)	15	16
FILLER Not used. Valid entry is b .	07	C	X(26)	17	42
MIV-KEY2 REDEFINES MIV-KEY1.	05	G		7	42

Field Name	Level	Mode	Picture	Displacement	
MIV-KEYNBR Numeric Key Data.	07	B	S9(18)	7	14
MIV-KEYSP Valid entry is b .	07	C	X(02)	15	16
FILLER Not used. Valid entry is b .	07	C	X(26)	17	42
MIV-KEY3 REDEFINES MIV-KEY1.	05	G		7	42
MIV-KEY3X10 Contains the first 10 bytes of alphanumeric key data.	07	C	X(10)	7	16
MIV-KEY3X26 Contains the next 26 bytes of alphanumeric key data.	07	C	X(26)	17	42
MIV-KEY5 REDEFINES MIV-KEY1.	05	G		7	42
MIV-KEY5ACCT Contains various numeric key data.	07	B	S9(18)	7	14
MIV-KEY5DES Contains alphanumeric key data.	07	C	X(01)	15	15
MIV-KEY5SP Valid entry is b .	07	C	X(01)	16	16
FILLER Not used. Valid entry is b .	07	C	X(26)	17	42
MIV-KEY6 REDEFINES MIV-KEY1.	05	G		7	42
MIV-KEY6BIN Contains numeric key data.	07	B	S9(09)	7	10
MIV-KEY6AN Contains alphanumeric key data.	07	C	X(06)	11	16
FILLER Not used. Valid entry is b .	07	C	X(26)	17	42

Field Name	Level	Mode	Picture	Displacement	
MIV-KEY7 REDEFINES MIV-KEY1.	05	G		7	42
MIV-KEY7BIN18 Contains numeric key data.	07	B	S9(18)	7	14
MIV-KEY7BIN04 Contains numeric key data.	07	B	S9(04)	15	16
FILLER Not used. Valid entry is b .	07	C	X(26)	17	42
MIV-EFFDT Effective Date.	05	B	S9(08)	43	46
MIV-MODEL Model Indicator.	05	C	X(01)	47	47
MIV-INDR Record Indicator. Used to distinguish between multiple records having the same key. The first record of a group always has an indicator of a b . Additional records, if present, have a numeric indicator beginning with 1.	05	C	X	48	48
MIV-STATUS Record Status. Valid entries are: b Active record. D Inactive record.	03	C	X	49	49
MIV-BYTEOCCURS Number of bytes of data used for individual records.	03	B	S9(04)	50	51
MIV-RECDATA Record Data. Varies by record.	03	G		52	V
MIV-BYTE OCCURS 0 TO 4045 DEPENDING ON MIV-BYTEOCCURS.	05	C	X(01)	52	V

MI-MERGFIL – Merge File

The Merge File is the file that is merged with the backup during the reload process. This file is an exact copy of the MICM File and is used for merging 2 common files together. If the system header record is found on file, it is bypassed.

File Statistics

File Type	Tape		
External Name	MIMERG		
Record Name	Library Name	Record Length	
MI-MERGREC	MISV000	0127-4096 Bytes	

MI-MERGREC – Merge Record

Format is identical to the variable length MICM Master Record.

MI-MMPCFIL – Merge Mapping Card File

This file is used by MIL720, MIR720, and MIR721. Copybook name is MISMMPC.

File Statistics

File Type External Name	Card MIMMPC
Record Name MI-MMPCREC	Library Name MISV000
	Record Length 0080 Bytes

MI-MMPCRECORD – Merge Mapping Card Record

Field Name	Level	Mode	Picture	Displacement
MIMMPC-RECORD Merge Mapping Card Record.	01	R		1 80
MIMMPC-SYSTEM System Number. Valid entry is 00.	03	C	X(02)	1 2
MIMMPC-FUNCTION Function. Function code needs only to be in the Card Type 0. A Add new record. D Delete record. R Replace record.	03	C	X(01)	3 3
MIMMPC-GRP-KEY Card KEY.	03	G		4 18
MIMMPC-LANGUAGE Language Code. Valid entries are defined on MICM Record 2022 (Valid Language Code Table Record). Codes that can be used are indicated with 'Y' in the Usage field.	05	C	X(02)	4 5
MIMMPC-KPANELNAME Panel Name.	05	C	X(08)	6 13
MIMMPC-KRECCD Record Code.	05	C	X(03)	14 16
MIMMPC-KAPPLCD Application Code.	05	C	X(02)	17 18
MIMMPC-KACCUMCD Map Type Code.	05	C	X(01)	19 19

Field Name	Level	Mode	Picture	Displacement	
MIMMPC-KLINENBR Line Number.	05	C	X(02)	20	21
MIMMPC-KLINENBR9 REDEFINES MIMMPC-KLINENBR.	05	N	9(02)	20	21
MIMMPC-CARDTYPE Card Type. Valid entries are 0, 1 , and 2 .	03	C	X(01)	22	22
FILLER Not used. Blank filled.	03	C	X(01)	23	23
MIMMPC-FLD-OCR Field Occurrence Number. Valid entry is 00 for Card Types 0 and 1. Valid entries are 01 – 24 for Card Type 2.	03	C	X(02)	24	25
MIMMPC-FLD-OCR9 REDEFINES MIMMPC-FLD-OCR.	03	N	9(02)	24	25
MIMMPC-CARD0 Card 0 Data.	03	G		26	80
MIMMPC-LATTRIBUTE Line Attribute.	05	C	X(01)	26	26
MIMMPC-LAREA Line Area. Merge map line. First 40 positions.	05	C	X(40)	27	66
FILLER Not used. Blank filled.	05	C	X(06)	67	72
MIMMPC-CMS-SEQ CMS Sequence Number.	05	C	X(08)	73	80
MIMMPC-CARD1 REDEFINES MIMMPC-CARD0. Card 0 Data.	03	G		26	80
MIMMPC-LAREA2 Line Area 2. Merge map line. Last 39 positions.	05	C	X(39)	26	64
FILLER Not used. Blank filled.	05	C	X(08)	65	72
MIMMPC-CMS-SEQ1 CMS Sequence Number.	05	C	X(08)	73	80

Field Name	Level	Mode	Picture	Displacement	
MIMMPC-CARD2 REDEFINES MIMMPC-CARD0. Card 2 Data.	03	G		26	80
MIMMPC-LFLDNBR Field Number.	05	C	X(03)	26	28
MIMMPC-LPOS Line Position.	05	C	X(02)	29	30
MIMMPC-LLGTH Line Length.	05	C	X(02)	31	32
MIMMPC-LPFORMAT Line Print Format Code.	05	C	X(02)	33	34
MIMMPC-LATTR Accumulator Attribute.	05	C	X(01)	35	35
MIMMPC-LACCUM Application Accumulator.	05	C	X(02)	36	37
MIMMPC-LGACCUM Grand Totals Accumulator.	05	C	X(02)	38	39
FILLER Not used. Blank filled.	05	C	X(33)	40	72
MIMMPC-CMS-SEQ2 CMS Sequence Number.	05	C	X(08)	73	80

MI-RPTJFIL – Report File

All online activity, except inquiries, is reported using this file. The Log File is used to create the Report File.

File Statistics

File Type External Name	Disk MIRPTJ
Record Name MI-RPTJREC	Library Name MISRPTJ
	Record Length 0330 Bytes

MI-RPTJREC – Report Record

Field Name	Level	Mode	Picture	Displacement	
MI-RPTJREC MICM Report Record.	01	R		1	330
MIRJ-CONSTANTDATA	03	G		1	31
MIRJ-BKNBR Institution Number.	05	PS	S9(04)	1	3
MIRJ-RPTNBR Report Number.	05	B	S9(04)	4	5
MIRJ-DATE Transaction Date. Format is YYYYDDD.	05	PS	S9(07)	6	9
MIRJ-TIME Transaction Time. Format is HHMMSS.	05	PS	S9(07)	10	13
MIRJ-OPERID Operator ID.	05	C	X(08)	14	21
MIRJ-TRMID Terminal ID.	05	C	X(04)	22	25
MIRJ-CRDNBR Card Number.	05	N	9(03)	26	28
MIRJ-FLDNBR Field Number.	05	P	9(03)	29	30
MIRJ-FLDSTACKNBR Field Stack Number.	05	P	9(03)	31	32

Field Name	Level	Mode	Picture	Displacement	
MIRJ-CARDKEY Card Key.	03	G		33	89
MIRJ-SYSNBR System Number.	05	N	9(02)	33	34
MIRJ-FORMNBR Form Number.	05	N	9(04)	35	38
MIRJ-KRDNBR Card Number.	05	N	9(02)	39	40
MIRJ-KEYB Record Key.	05	G		41	89
MIRJ-KBKNBR Institution Number.	07	N	9(03)	41	44
MIRJ-REGION Region.	07	N	9(03)	45	47
MIRJ-KEYVAR Variable Key Data.	07	C	X(36)	48	83
MIRJ-EFFDT Effective Date.	07	N	9(06)	84	89
MIRJ-MODEL Model Number.	07	C	X(01)	90	90
MIRJ-SIGN-KEY REDEFINES MIRJ-KEYB.	05	G		41	89
MIRJ-BRANCH Branch Number.	07	PS	S9(05)	41	43
MIRJ-TYPE Account Type or Control Group.	07	PS	S9(03)	44	45
MIRJ-IFSHORT Operator's Name.	07	C	X(20)	46	65
FILLER Not used. Blank filled.	07	C	X(25)	66	90
MIRJ-DATA Maintenance Data.	03	G		91	250

Field Name	Level	Mode	Picture	Displacement	
MIRJ-DATAFROM Old Field Information.	05	C	X(80)	91	170
MIRJ-DATATO New Field Information.	05	C	X(80)	171	250
MIRJ-SORTKEY Sort Key.	03	G		251	323
MIRJ-RFORMX Report Form Code.	05	C	X(02)	251	252
MIRJ-RHOLDCOX Holding Company.	05	G		253	255
MIRJ-RHOLDCO Holding Company.	07	PS	S9(04)	253	255
MIRJ-RBKNBRX Institution Number.	05	G		256	258
MIRJ-RBKNBR Institution Number.	07	PS	S9(04)	256	258
MIRJ-RRPTNBRX Report Number.	05	G		259	260
MIRJ-RRPTNBR Report Number.	07	B	S9(04)	259	260
MIRJ-RDATE Transaction Date.	05	PS	S9(07)	261	264
MIRJ-RFORMNBRX Form Number.	05	G		265	268
MIRJ-RFORMNBR Form Number.	07	N	9(04)	265	268
MIRJ-RTIME Transaction Time.	05	PS	S9(07)	269	272
MIRJ-RCARDNBRX Card Number.	05	G		273	274
MIRJ-RCARDNBR Card Number.	07	N	9(02)	273	274

Field Name	Level	Mode	Picture	Displacement	
MIRJ-RKEY Key Data.	05	C	X(49)	275	323
MIRJ-RFLDNBRX Field Number.	05	G		324	325
MIRJ-RFLDNBR Field Number.	07	P	9(03)	324	325
MIRJ-RPTKEYT Input Sequence Number/Fiche Code.	03	G		326	329
MIRJ-RSEQX Input Sequence Number.	05	G		326	329
MIRJ-RSEQ Input Sequence Number.	07	B	S9(09)	326	329
MIRJ-RRPTPFC Print Fiche Code.	05	C	X(01)	330	330

MI-SORTFIL – Sort Work File

This file is used as the Work File by the programs that contain a COBOL sort. The format depends on what data is being sorted.

File Statistics

File Type	Disk		
External Name	SORTWK1		
Record Name	Library Name	Record Length	
MI-SORTREC	None	Variable	

MI-TABLFIL – Table File

This is a variable length record, ranging from 0128 to 4080 bytes, depending on the number of table entries. There also can be up to 5 records per record number. This allows up to 265 table entries per panel/form or MICM Master File Record.

File Statistics

File Type	Disk		
Access Method	VSAM, Key-sequence Data Set		
Key Length	0005 Bytes		
Key Displacement	0000 Bytes		
External Name	MITABL		
Record Name	Library Name	Record Length	
MI-TABLREC	MIS007	0128-4080 Bytes	
MI-LTBLREC	MIS008	4080 Bytes	

MI-TABLREC – Table Record

The following gives the record description for the MICM Table Record. The record length varies from 128 to 4080 bytes, depending on the number of table entries (1-90). There can be up to 3 records per Record Number. This allows up to 265 table entries per panel/form or MICM Master Record. Detailed definitions of these sets of tables follow the record definition.

Field Name	Level	Mode	Picture	Displacement	
MI-TABLREC Table Record.	01	R		1	V
MIT-KEY Table Record Key.	03	G		1	5
MIT-KRECNBR MICM Record Number.	05	P	9(04)	1	3
MIT-KSEQNBR Record Sequence Number. Sequence numbers greater than zero are used to accommodate data that do not fit in 1 record.	05	P	9(03)	4	5
MIT-DATA Record Data.	03	G		6	V
MIT-FORMNAME Form Name. Description of form.	05	C	X(30)	6	35

Field Name	Level	Mode	Picture	Displacement	
MIT-KEYTYPE	05	N	9(01)	36	36
Key Type. Key type on the master record. This refers to the contents of the 36 bytes in the key following the region number. Valid entries are:					
1 All 36 blanks.					
2 First 8 alphanumeric, next 2 binary, last 26 blanks. Use for MICM Record 0982 only.					
3 All 36 alphanumeric.					
4 First 8 binary, next 2 alphanumeric, last 26 blanks.					
5 First 8 binary, next 2 alphanumeric, last 26 blanks.					
6 First 4 binary, next 6 alphanumeric, last 26 blanks.					
7 First 8 binary, next 4 binary, last 26 blanks.					
MIT-NBRCARDS	05	P	9(02)	37	38
Number of Cards. Total number of cards required for entering all of the information contained on this form. Valid entries are 01 – 98 .					
MIT-CARDSREQ	05	P	9(02)	39	40
Cards Required. Number of cards required to accept the set. This field is used with the New Set Edit field.					
MIT-NEWSETEDIT	05	C	X(01)	41	41
New Set Edit. Identifies which cards of the set are required when entering for a new record. Valid entries are:					
b All cards must be present.					
1 The minimum of Card Number 01 must be present.					
2 The minimum of 1 card with a card number greater than 00 must be present.					
3 All Cards Required must be present.					
MIT-VALIDMODEL	05	C	X(01)	42	42
Valid Model. Indicates whether this form can be used for modeling. This field is used in IQ HDT message definitions to indicate if the function module specified in User Program Name is written according to standards. Valid entries are:					
N Cannot be used for modeling. For IQ HDT message definitions, the function module is not written according to standards.					
Y Can be used for modeling. For IQ HDT message definitions, the function module is written according to standards.					
MIT-VALIDEFFDT	05	C	X(01)	43	43
Valid Effective Date. Indicates whether this form can have an effective date. Valid entries are:					
N Cannot have an effective date.					
Y Must have an effective date.					
MIT-VALIDREGION	05	C	X(01)	44	44
Valid Region. Indicates whether this form can have a region entered. Valid entries are:					
N Cannot have a region entered.					
Y Can have a region entered.					

Field Name	Level	Mode	Picture	Displacement	
MIT-BKNBREDIT	05	C	X(01)	45	45
Institution Number Edit. Indicates edit options for the institution region entered. Valid entries are:					
O Use the operator's institution number.					
X All zeros in the institution number.					
Y Use the operator's institution number and place 00 in the seventh and eighth positions of the routing transit number in the key.					
Z Use the institution number entered on the panel (used for MICM Form 0000).					
MIT-FILLER	05	C	X(01)	46	46
Not used.					
MIT-PAGECNT	05	P	9(02)	47	48
Page Count. Indicates how many input panels are required to enter all of the information for this form.					
MIT-NBRPLINES	05	P	9(02)	49	50
Number of Print Lines. Indicates to the master list program how many lines are required to print the information for this form. Valid entries are 01 – 99 .					
MIT-ENTRYCNT	05	B	9(02)	51	52
Field Table Entry Count. This is the total number of Field Table Entries on this Table Record. If the value is less than 53 it is assumed that this is the last Table Record for this form. If the value is 53 , the next Table Record must be read to know if there are any more entries.					
MIT-ENTRY	05	G		53	V
OCCURS 1 TO 53 TIMES, DEPENDING ON MIT-ENTRYCNT. Field Table Entry. This table contains the detail information about each individual field on this form. If more than 53 field table entries are needed, the Record Sequence is increased by 1 and the next 4 records are used for the remaining information.					
MIT-FLDNBR	07	P	9(03)	53	54
Field Number. Unique number assigned to this field.					
MIT-FLDSTACKNBR	07	P	9(03)	55	56
Field Stack Number. Unique number assigned to this field when there is more than 1 field with the same Field Number.					
MIT-FLDNAME	07	C	X(12)	57	68
Field Name. Short name of the field. The name appears on the input panel and printed reports.					
MIT-FLDSTACKLGTH	07	P	9(01)	69	69
Field Stack Length. Number of card positions used to contain the field stack number when the field stack number is greater than zero. The field stack number starts with the maintenance card, card number 99, after the field number.					

Field Name	Level	Mode	Picture	Displacement	
MIT-ENTRYTYPE	07	C	X(01)	70	70
Field Entry Type. Indicates special attributes for this field. Valid entries are:					
H Field contains the heading information only used by program MIR100.					
I Field is internally set and is not governed by the table except for printing purposes.					
K Field is contained in the key area.					
N Normal field.					
R Field is reserved.					
S Field is the status field used for maintenance.					
MIT-DECIMAL	07	P	9(01)	71	71
Decimal Position. Position of the assumed decimal point. (e.g., Number 11111.222 MIT-DECIMAL value is 3.)					
MIT-EDITINFO	07	G		72	98
Edit Information. This group contains information on how to edit this field.					
MIT-ENONDEFAULT	09	C	X(01)	72	72
Non-default. Indicates if the Non-default character '\ ' is valid for this field. Valid entries are:					
N Non-default character is not valid for this field.					
Y Non-default character is valid for this field.					
MIT-EFORMATCD	09	N	9(01)	73	73
Edit Format Code. Defines the format of the field on the Master Record. Valid entries are:					
1 Alphanumeric.					
2 Numeric display.					
3 Numeric packed decimal.					
4 Numeric binary.					
5 Encrypted.					
MIT-ECD	09	P	9(02)	74	75
Edit Code. Indicates what type of edit to perform on this field. Valid entries are:					
01 No edit. Field can contain any characters.					
02 Alphanumeric spaces allowed. Field can contain characters 'a' - 'z', 'A' - 'Z', '0' - '9' and blanks.					
03 Alphanumeric spaces not allowed. Field can contain characters 'a' - 'z', 'A' - 'Z' and '0' - '9'.					
04 Numeric. Field can contain characters '0' - '9', '+0' - '+9' and '-0' - '-9'.					
05 Numeric or spaces. Field can contain characters '0' - '9', '+0' - '+9', '-0' - '-9' or -all blanks.					
06 Numeric default zeros. Field can contain characters '0' - '9', '+0' - '+9', '-0' - '-9'. If this field is not entered or contains blanks, it is zero filled.					
07 Range. The field is validated against the ranges specified in the Edit Control.					
08 Range default zeros. If field is not entered the field is zero filled. If the field is entered it is validated against the ranges specified in the Edit Control.					
09 Range spaces OK. If field is blanks it is accepted. If it is not blanks it is validated against the ranges specified in the Edit Control.					
10 Codes. The field is validated against the codes specified in the Edit Control.					

Field Name	Level	Mode	Picture	Displacement
11	Compare low.	The value must be less than the value specified in the Edit Control.		
12	Compare high.	The value must be greater than the value specified in the Edit Control.		
13	Date.	Standard date edit.		
14	Date.	Standard date edit with zero being valid.		
15	Date.	Standard date edit. Default is the current date from Institution Control File.		
16	Date.	Standard date edit with date not greater than current date on the Institution Control File.		
17	Date.	Standard date edit with date not less than current date on the Institution Control File.		
18	Date.	Standard date edit with date less than current date on the Institution Control File.		
19	Date.	Standard date edit with date greater than the current date on the Institution Control File.		
20	Verification done with the use of MICM Record 7001.	The Edit Control Low field can be used to override the key used to access the MICM Record 7001 table.		
21	Verification done with the use of MICM Record 7001.	There must be a field with a 'T' in the Field ID (EFLDID) present within the same record. If the code is a 'R' on the data base then the sequence numbers 001 through 499 are used. If the code on the data is a 'C', then sequence numbers 501 through 999 are used. If the code is not a 'R' or 'C', then all sequence numbers are used.		
22	Verify state.	Uses the standard routine SRP049 (Verify State Abbreviation), which is a 2-byte test.		
23	Holiday.	The year 1900 is purged and the standard date edit is performed.		
24	Verify ZIP code.	The ZIP code verified by checking it with the State Abbreviation. A State Abbreviation field with an edit code of 22 must be present within the same record. If there is more than one State Abbreviation the Field Number of State Abbreviation to be used with this ZIP code must be in the first 3 positions of Edit Control Field.		
25	Verify province for Canada.	A State Abbreviation field with an edit code of '28' must be present within the same record.		
26	Verify branch.	Verification is performed by reading MICM Record 2001.		
27	Special codes.	The field is validated against the codes specified in the Edit Control then a search is made for all other fields that have an Edit Code of '27'. If one is found then the data from that field is compared to this field, and if it is equal it is an error. If either field contains a space then compare is not performed and the edit is accepted.		
28	Verify country.	Uses the standard routine SRP052 – Verify Country Abbreviations, which is a 2-byte test.		
29	Foreign address.	Edits foreign address fields (MICM batch only).		
30	Special 2004.	Edits a 4-character field as 4 separate fields. Refer to the API Records chapter of <i>Reference Guide 2</i> under MICM Record 2004 for a complete description.		
31	Date.	Date is filled by the application.		
32	Date.	Standard date edit where date must be equal to zeros or greater than the current date on the Institution Control File.		
33	Alphanumeric, right justify and zero fill.	Blanks are valid.		
34	MICR sorter pockets.	Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419 only. Valid entries are bA , bB , bR , bX , b0 , b1 , b2 , b3 , b4 , b5 , b6 , b7 , b8 , and b9 .		

MIT-ELGTH	09	B	9(02)	76	77
Field Length. Input length of this field. Valid entries are 01 – 63 .					
MIT-EMAINTCONT	09	C	X(01)	78	78
Maintenance Continues. Indicates whether or not to continue with the next entry when maintenance is performed for this field. Valid entries are:					

MIT-ECONTROL	09	G	79	98
<p>Edit Control. This is the area used in conjunction with the Field Edit Code for specifying codes and ranges. When it is used for codes, place a period after the last entry unless the entire Edit Control area is used. Refer to the Field Edit Code when data is needed in this field.</p>				

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Field Name	Level	Mode	Picture	Displacement	
MIT-ECTLHIGH	11	C	X(10)	89	98
Edit Control High. When the Field Edit Code is for a range, place the high value into this field.					
MIT-ECTLONE	09	C	20	79	98
REDEFINES MIT-ECONTROL. OCCURS 20 TIMES. Valid entries are:					
34 Special edit for the Operator Record Authorization Profile Record.					
35 All codes in the Table are valid for any position in the field.					
MIT-CARDINFO	07	G		99	102
Card Information.					
MIT-CNBR	09	P	9(02)	99	100
Card Number. Card number that this field is in. Valid entries are 00 – 98 .					
MIT-CDISPLACE	09	B	9(02)	101	102
Card Displacement. Card column that this field starts in. Valid entries are 01 – 80 . The Card Displacement plus the Field Length minus 1 cannot be greater than 80.					
MIT-RECORDINFO	07	G		103	107
Record Information. This group defines the data attributes specific to the MICM Master Record.					
MIT-RINDICATOR	09	C	X(01)	103	103
Record Indicator. Indicates which record this field is on when there is more than 1 record on the master file with the same form number. Valid entries are:					
1 First record. Also used when there is only 1 record.					
1-9 Records 2 – 10.					
MIT-RDISPLACE	09	B	9(04)	104	105
Record Field Displacement. Position in the record that this field starts in. Valid entries are 0001 – 4096 . The Record Field Displacement plus the Record Field Length minus 1 cannot be greater than 4096.					
MIT-RLGTH	09	B	9(02)	106	107
Record Field Length. Number of positions used in the record. Valid entries are 01 – 63 .					
MIT-SCREENINFO	07	G		108	116
Panel Information. This group defines the data attributes specific the panels.					
MIT-SMAPNBR	09	P	9(02)	108	109
Screen Map Number. Screen map number where this field appears. Valid entries are 01 – 11 .					
MIT-SPAGENBR	09	P	9(02)	110	111
Screen Page Number. Screen page number where this field appears. Value must be greater than 00 but not greater than the page count.					

Field Name	Level	Mode	Picture	Displacement	
MIT-SDISPLACE	09	B	9(04)	112	113
Screen Displacement. Screen position number where this number appears. Valid entries are 0000 – 0161 , depending on the Map Name:					
0000 – 0030	MIV2002.				
0000 – 0032	MIV2010.				
0000 – 0039	MIV2005.				
0000 – 0052	MIV2001.				
0000 – 0053	MIV2011.				
0000 – 0054	MIV2007.				
0000 – 0063	MIV2006.				
0000 – 0071	MIV2008.				
0000 – 0082	MIV2003.				
0000 – 0104	MIV2004.				
0000 – 0161	MIV2009.				
MIT-SREQUIRED	09	C	X(01)	114	114
Field Required. Indicates that this field must be entered. Slash (/) is placed on new panel for this field. Valid entries are:					
N	Field is not required to be entered, but can be entered.				
P	Protect from change. Field is entered for new but cannot be changed.				
Y	Field is required to be entered.				
MIT-SFORMATCD	09	P	9(02)	115	116
Panel Format Code. Defines how the field appears when entered. Valid entries are:					
01	Alphanumeric.				
02	Numeric left justify.				
03	Numeric leading zeros.				
04	Numeric. Suppress leading zeros.				
MIT-PRINTINFO	07	G		117	128
Print Information. Defines the data attributes specific for printing the Master File reports.					
MIT-PFORMATCD	09	P	9(02)	117	118
Print Format Code. Defines how the field appears when entered. Valid entries are:					
01	Alphanumeric.				
02	ZIP Code: 99999-9999.				
03	Dollars and Cents: <i>ZZZ,ZZZ,ZZZ,ZZZ.99-</i> .				
04	Rate: <i>ZZZZZZZZZZ,ZZZ.99999.</i>				
05	Number: <i>ZZZZZZ,ZZZ,ZZZ,ZZ9-</i> .				
06	Telephone Number: 999/999-9999.				
07	Transit Number: 9999-9999.				

MI-LTBLREC – I/O Table Record

The following gives the record description for the MICM I/O Table Record. This record format is generally used by the I/O module. The record length is fixed at 4080 bytes allowing a maximum of 90 table entries (1-90). There can be up to 3 records per Record Number. This allows up to 265 table entries per panel/form or MICM Master Record. Detailed definitions of these sets of tables follow the record definition.

Field Name	Level	Mode	Picture	Displacement	
MI-LTBLREC Table Record.	01	R		1	4080
MILT-KEY Table Record Key.	03	G		1	5
MILT-KRECNBR MICM Record Number.	05	P	9(04)	1	3
MILT-KSEQNBR Record Sequence Number. Sequence numbers greater than zero are used to accommodate data that does not fit in 1 record.	05	P	9(03)	4	5
MILT-DATA Record Data.	03	G		6	4080
MILT-FORMNAME Form Name. Description of the form.	05	C	X(30)	6	35
MILT-KEYTYPE Key Type. Key type on the master record. This refers to the contents of the 36 bytes in the key following the region number. Valid entries are: 1 All 36 blanks. 2 First 8 alphanumeric, next 2 binary, last 26 blanks. Use for MICM Record 0982 only. 3 All 36 alphanumeric. 4 First 8 binary, next 2 alphanumeric, last 26 blanks. 5 First 8 binary, next 2 alphanumeric, last 26 blanks. 6 First 4 binary, next 6 alphanumeric, last 26 blanks. 7 First 8 binary, next 4 binary, last 26 blanks.	05	N	9(01)	36	36
MILT-NBRCARDS Number of Cards. Total number of cards required for entering all of the information contained on this form. Valid entries are 01 – 98 .	05	P	9(02)	37	38
MILT-CARDSREQ Cards Required. Number of cards required to accept the set. This field is used with the New Set Edit field.	05	P	9(02)	39	40

Field Name	Level	Mode	Picture	Displacement	
MILT-NEWSETEDIT	05	C	X(01)	41	41
New Set Edit. Identifies which cards of the set are required when entering for a new record. Valid entries are:					
<ul style="list-style-type: none"> b All cards must be present. 1 The minimum of Card Number 01 must be present. 2 The minimum of 1 card with a card number greater than 00 must be present. 3 All Cards Required must be present. 					
MILT-VALIDMODEL	05	C	X(01)	42	42
Valid Model. Indicates whether this form can be used for modeling. This field is used in IQ HDT message definitions to indicate if the function module specified in the user program name is written according to standards. Valid entries are:					
<ul style="list-style-type: none"> N Cannot be used for modeling. For IQ HDT message definitions, the function module is not written according to standards. Y Can be used for modeling. For IQ HDT message definitions, the function module is written according to standards. 					
MILT-VALIDEFFDT	05	C	X(01)	43	43
Valid Effective Date. Indicates whether this form can have an effective date. Valid entries are:					
<ul style="list-style-type: none"> N Cannot have an effective date. Y Must have an effective date. 					
MILT-VALIDREGION	05	C	X(01)	44	44
Valid Region. Indicates whether this form can have a region entered. Valid entries are:					
<ul style="list-style-type: none"> N Cannot have a region entered. Y Can have a region entered. 					
MILT-BKNBREDIT	05	C	X(01)	45	45
Institution Number Edit. Indicates edit options for the institution region entered. Valid entries are:					
<ul style="list-style-type: none"> O Use the operator's institution number. X All zeros in the institution number. Y Use the operator's institution number and place 00 in the seventh and eighth positions of the routing transit number in the key. Z Use the institution number entered on the panel (used for MICM Panel 0000). 					
MILT-FILLER	05	C	X(01)	46	46
Not used.					
MILT-PAGECNT	05	P	9(02)	47	48
Page Count. Number indicates how many input panels are required to enter all of the information for this form.					
MILT-NBRPLINES	05	P	9(02)	49	50
Number of Print Lines. Number indicates to the master list program how many lines it needs to print the information for this form. Valid entries are 01 – 99 .					

Field Name	Level	Mode	Picture	Displacement	
MILT-ENTRYCNT	05	B	9(02)	51	52
Field Table Entry Count. Total number of Field Table Entries on this Table Record. If the value is less than 53 , it is assumed that this is the last Table Record for this form. If the value is 53 , then the next Table Record must be read to know if there are any more entries.					
MILT-ENTRYA	05	C	X(4028)	53	4080
Field table entries.					
MILT-ENTRY	05	G		53	4080
REDEFINES MILT-ENTRYA, OCCURS 53 TIMES. Field Table Entry. This table contains the detail information about each individual field on this form. If more than 53 field table entries are needed, the Record Sequence is increased by 1 and the next 4 records are used for the remaining information.					
MILT-FLDNBR	07	P	9(03)	53	54
Field Number. Unique number assigned to this field.					
MILT-FLDSTACKNBR	07	P	9(03)	55	56
Field Stack Number. Unique number assigned to this field when there is more than 1 field with the same field number.					
MILT-FLDNAME	07	C	X(12)	57	68
Field Name. Short name of the field. The name appears on the input panel and printed reports.					
MILT-FLDSTACKLGTH	07	P	9(01)	69	69
Field Stack Length. Number of card positions used to contain the field stack number when the field stack number is greater than zero. The field stack number starts with the maintenance card, card number 99, after the field number.					
MILT-ENTRYTYPE	07	C	X(01)	70	70
Field Entry Type. Indicates special attributes for this field. Valid entries are:					
H Field contains the heading information only used by program MIR100.					
I Field is internally set and is not governed by the table except for printing purposes.					
K Field is contained in the key area.					
N Normal field.					
R Field is reserved.					
S Field is the status field used for maintenance.					
MILT-DECIMAL	07	P	9(01)	71	71
Decimal Position. Position of the assumed decimal point. (e.g., Number 11111.222 MIT-DECIMAL value is 3.)					
MILT-EDITINFO	07	G		72	98
Edit Information. This group contains information on how to edit this field.					
MILT-ENONDEFAULT	09	C	X(01)	72	72
Non-default. Indicates if the Non-default '\ ' character is valid for this field. Valid entries are:					

Field Name	Level	Mode	Picture	Displacement	
N	Non-default character is not valid for this field.				
Y	Non-default character is valid for this field.				
MILT-EFORMATCD	09	N	9(01)	73	73
Edit Format Code. Defines the format of the field on the Master Record. Valid entries are:					
1	Alphanumeric.				
2	Numeric display.				
3	Numeric packed decimal.				
4	Numeric binary.				
5	Encrypted.				
MILT-ECD	09	P	9(02)	74	75
Edit Code. Indicates what type of edit to perform on this field. Valid entries are:					
01	No edit. Field can contain any characters.				
02	Alphanumeric Spaces Allowed. Field can contain characters 'a' – 'z', 'A' – 'Z', '0' – '9' and blanks.				
03	Alphanumeric Spaces Not Allowed. Field can contain characters 'a' – 'z', 'A' – 'Z' and '0' – '9'.				
04	Numeric. Field can contain characters 0 – 9, '+0' – '+9' and '-0' – '-9'.				
05	Numeric Or Spaces. Field can contain characters '0' – '9', '+0' – '+9', '-0' – '-9' or all blanks.				
06	Numeric Default Zeros. Field can contain characters '0' – '9', '+0' – '9', '-0' – '-9'. If this field is not entered or contains blanks, is filled with zeros.				
07	Range. The field is validated against the ranges specified in the Edit Control.				
08	Range Default Zeros. If field is not entered the field is zero filled. If the field is entered it is validated against the ranges specified in the Edit Control.				
09	Range Spaces OK. If field is blanks it is accepted. If it is not blanks it is validated against the ranges specified in the Edit Control.				
10	Codes. The field is validated against the codes specified in the Edit Control.				
11	Compare Low. The value must be less than the value specified in the Edit Control.				
12	Compare High. The value must be greater than the value specified in the Edit Control.				
13	Date. Standard date edit.				
14	Date. Standard date edit with zero being valid.				
15	Date. Standard date edit. Default is the current date from Institution Control File.				
16	Date. Standard date edit with date not greater than current date on the Institution Control File.				
17	Date. Standard date edit with date not less than current date on the Institution Control File.				
18	Date. Standard date edit with date less than current date on the Institution Control File.				
19	Date. Standard date edit with date greater than the current date on the Institution Control File.				
20	Verification done with the used of MICM Record 7001. The Edit Control Low field can be used to override the key used to access the MICM Record 7001 table.				
21	Verification done with the use of MICM Record 7001. There must be a field with a 'T' in the Field ID (EFLDID) present within the same record. If the code is a 'R' on the data base then the sequence numbers 001 through 499 are used. If the code on the data is a 'C', then sequence numbers 501 through 999 are used. If the code is not a 'R' or 'C', then all sequence numbers are used.				
23	Holiday. The year 1900 is purged and the Standard date edit is performed.				

Field Name	Level	Mode	Picture	Displacement
24	Special Routine for MICM Form 0605. If Alternate Earn Credit Balance Required 2 is greater than zero then is must be greater than the Alternate Earn Credit Balance Required 1.			
25	Special Numeric 7th 8th. Test is for an 8 position number where the number must be numeric and the 7th and 8th positions from the left must be zeros.			
26	Verify Branch. Verification is performed by reading MICM Record 2001.			
27	Special Codes. The field is validated against the codes specified in the Edit Control then a search is made for all other fields that have an Edit Code of '27'. If one is found then the data from that field is compared to this field, and if it is equal it is an error. If either field contains a space then a compare is not performed and the edit is accepted.			
28	Verify Country. Uses the standard routine SRP052, Verify Country Abbreviations, which is a 2-byte test.			
29	Foreign Address. Edits foreign address fields (batch only).			
30	Special 2004. Edits a 4-character field as 4 separate fields. Refer to the API Records chapter of <i>Reference Guide 2</i> under MICM Record 2004 for a complete description.			
31	Date. Date is filled by the application.			
32	Date. Standard date edit where date must be equal to zeros or greater than the current date on the Institution Control File.			
33	Alphanumeric, right justify and zero fill. Blanks are valid.			
34	MICR Sorter Pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8, and b9 .			
35	MICR Sorter Pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419, 3890 and 3694. This code performs a cross check with forms that have a MICR Type Code. These forms are 0124, 0128, 0132, 0134, and 0136. MICR Type Code 1 is for a 1419. Valid entries are Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8 and b9 . MICR Type Code 2 is for a 3890. Valid entries are 11 – 16, 21 – 26, 31 – 36, 41 – 46, 51 – 56, 61 – 66, bX, Xb and XX . MICR Type Code 3 is for a 3694. Valid entries are: 01 through 24, bX, Xb and XX .			
36	Special Codes. The field is validated against the codes specified in the Edit Control. Each code is validated against each position in the field.			
37	Codes, default 0. Edit for valid codes and if nothing entered, default to zero.			
38	Codes, no missing test. Edit for valid codes and if nothing entered, bypass the missing entry test.			
39	Language. Verify the entry against the language code.			
40	A/N Upper, no spaces. Require entry for alphanumeric, upper case. If no entry, an error.			
41	Numeric, no missing test. Edit for numeric and if nothing entered, bypass the missing entry test.			
42	Range, no missing test. The field is validated against the ranges specified in the Edit Control and if nothing is entered, bypass the missing est.			
43	Compare low, no missing test. The value must be less than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
44	Compare high, no missing test. The value must be greater than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
45	Product Code. Verification is performed by reading MICM Record 2023.			
46	Officer/Employee. Verification is performed by reading MICM Record 0242.			

Field Name	Level	Mode	Picture	Displacement	
MILT-ELGTH Field Length. Input length of this field. Valid entries are 01 – 63 .	09	B	9(02)	76	77
MILT-EMAINTCONT Maintenance Continues. Indicates that when maintenance is performed for this field, whether to continue with the next entry. Valid entries are: N Do not continue with next entry. Y Continue with next entry. 34 Special edit for Operator Record Authorization Profile Record. 35 All codes in the Table are valid for any position in the field.	09	C	X(01)	78	78
MILT-ECONTROL Edit Control. This is the area used in conjunction with the Field Edit Code for specifying codes and ranges. When used for codes, place a period after the last entry unless the entire Edit Control area is used. Refer to Field Edit Code when data is needed in this field.	09	G		79	98
MILT-ECTLLOW Edit Control Low. When the Field Edit Code is for a range, place the low value into this field. This field is also used to store the key to MICM Record 7001 when the Field ID Code is set to 20 . The first three positions are used for the MICM Record 7001 Record ID and the next three positions are used for the MICM Record 7001 Field Number.	11	C	X(10)	79	88
MILT-ECTLHIGH Edit Control High. When the Field Edit Code is for a range, place the high value into this field.	11	C	X(10)	89	98
MILT-ECTLONE REDEFINES MILT-ECONTROL, PICTURE X(01).	09	C	20	79	79
MILT-CARDINFO Card Information.	07	G		99	102
MILT-CNBR Card Number. Card number that this field is in. Valid entries are 00 – 98 .	09	P	9(02)	99	100
MILT-CDISPLACE Card Displacement. Card column that this field starts in. Valid entries are 01 – 80 . The Card Displacement plus the Field Length minus 1 cannot be greater than 80.	09	B	9(02)	101	102
MILT-RECORDINFO Record Information. This group defines the data attributes specific to the MICM Master Record.	07	G		103	107
MILT-RINDICATOR Record Indicator. Indicates which record this field is on when there is more than 1 record on the master file with the same form number. Valid entries are: b First record. Also used when there is only 1 record. 1 – 9 Records 2 – 10.	09	C	X(01)	103	103

Field Name	Level	Mode	Picture	Displacement	
MILT-RDISPLACE	09	B	9(04)	104	105
Record Field Displacement. Position in the record that this field starts in. Valid entries are 0001 – 4096 . The Record Field Displacement plus the Record Field Length minus 1 cannot be greater than 4096.					
MILT-RLGTH	09	B	9(02)	106	107
Record Field Length. Number of positions used in the record. Valid entries are 01 – 63 .					
MILT-SCREENINFO	07	G		108	116
Screen Information. This group defines the data attributes specific to the screens.					
MILT-SMAPNBR	09	P	9(02)	108	109
Screen Map Number. Screen map number where this field appears. Valid entries are 01 – 11 .					
MILT-SPAGENBR	09	P	9(02)	110	111
Screen Page Number. Screen page number where this field appears. Entries must be greater than 00 but not greater than the page count.					
MILT-SDISPLACE	09	B	9(04)	112	113
Screen Displacement. Screen position number where this number appears. Valid entries are 0000 – 0161 depending on the Map Name:					
0000 – 0030 MIV2002.					
0000 – 0032 MIV2010.					
0000 – 0039 MIV2005.					
0000 – 0052 MIV2001.					
0000 – 0053 MIV2011.					
0000 – 0054 MIV2007.					
0000 – 0063 MIV2006.					
0000 – 0071 MIV2008.					
0000 – 0082 MIV2003.					
0000 – 0104 MIV2004.					
0000 – 0161 MIV2009.					
MILT-SREQUIRED	09	C	X(01)	114	114
Field Required. Indicates that this field must be entered. Slash (/) is placed on new panel for this field. Valid entries are:					
N Field is not required to be entered, but can be entered.					
P Protect from change. Field is entered for new but cannot be changed.					
Y Field is required to be entered.					
MILT-SFORMATCD	09	P	9(02)	115	116
Screen Format Code. Defines how the field appears when entered. Valid entries are:					
01 Alphanumeric.					
02 Numeric left justify.					
03 Numeric leading zeros.					
04 Numeric. Suppress leading zeros.					

Field Name	Level	Mode	Picture	Displacement	
MILT-PRINTINFO	07	G		117	128
Print Information. This group defines the data attributes specific for printing the Master File reports.					
MILT-PFORMATCD	09	P	9(02)	117	118
Print Format Code. Code defines how the field appears when entered. Slash (/) is placed on new panel for this field. Valid entries are:					
01	Alphanumeric.				
02	ZIP Code: 99999-9999.				
03	Dollars and Cents: ZZZ,ZZZ,ZZZ,ZZZ.99-.				
04	Rate: ZZZZZZZZZ,ZZZ.99999.				
05	Number: ZZZZZZ,ZZZ,ZZZ,ZZ9-.				
06	Telephone Number: 999/999-9999.				
07	Transit Number: 9999-9999.				
08	Date 6 positions: 99-99-99.				
09	Date 8 positions: 99-99-9999.				
10	Leading zero suppressed: ZZZZZZZZZZZZZZZZZ9.				
11	Numeric: 9999999999999999.				
12	Customer Alpha Name Key: XXXXXX-9999.				
13	Asterisk Fill: ***.				
MILT-PLINENBR	09	P	9(02)	119	120
Print Line Number. Line number where this field is to be printed. Valid entries are 01 – 99, but cannot be greater than the Number of Print Lines.					
MILT-PDISPLACE	09	B	9(03)	121	122
Print Displacement. Starting position on the report line that field is printed. Valid entries are 000 – 132. The Print Displacement plus the Print Field Length minus 1 cannot be greater than 132.					
MILT-PLGTH	09	B	9(03)	123	124
Print Field Length. Length of the field on the report, and must include all editing characters. Valid entries are 001 – 132.					
MILT-PHEADLINENBR	09	P	9(02)	125	126
Print Heading Line Number. Line number where this field heading is printed. Valid entries are 01 – 99, but not greater than the Number of Print Lines.					
MILT-PHEADDISPLACE	09	B	9(03)	127	128
Print Heading Displacement. Starting position on the report where the field heading is printed. Valid entries are 000 – 120.					

MI-TAPIFIL – Tape Input File

The MICM Tape Input File contains all of the user-generated input to the MICM Master File. Optionally used by the Card Input Program (MID090) as input to the application. The information for this file is entered on the input forms described in the Application Forms chapter of MICM *Procedures Guide 2*.

File Statistics

File Type	Tape		
External Name	MITAPI		
Record Name	Library Name	Record Length	
MI-CARDREC	None	0080 Bytes	

MI-TICKFIL – Tickler File

This file is created by program MIC210 (Name and Address Conversion) to be used in the conversion of the Deposits or Time Investment application. The tickler file consists of the account designation, the institution number, the account number, and the primary customer key. The application being converted reads and compares the institution and account information against its own application Master File. If the same account is found in the master, the primary customer key from the tickler file is then copied into the application's primary customer key which links it to the customer's name and address record on the MICM Master File.

File Statistics

File Type	Tape		
External Name	MITICK		
Record Name	Library Name	Record Length	
MI-TICKREC	None	0022 Bytes	

Table and Work Area Descriptions

BMS-ATTRIBUTES – Map Attributes

The following are standard Basic Mapping Support (BMS) attribute values for Infopoint online applications. Each attribute's properties can be found within the last 4 positions of its field name. The values for these codes are as follows:

Position	Value
1	P Protected. U Unprotected.
2	A Alphanumeric. N Numeric.
3	R Regular. H High. O Dark/Off.
4	M Modified. U Unmodified.

The following record layout shows the format of the attributes. Copybook is SLS004.

Field Name	Level	Mode	Picture	Displacement	
BMS-ATTRIBUTES Basic Mapping Support Attributes Area.	01	R		1	24
BMS-PARM BMS Attribute. Valid entry is / (slash symbol).	03	C	X(01)	1	1
BMS-UARM BMS Attribute. Valid entry is A.	03	C	X(01)	2	2
BMS-UAHM BMS Attribute. Valid entry is I.	03	C	X(01)	3	3
BMS-UNRM BMS Attribute. Valid entry is J.	03	C	X(01)	4	4
BMS-UNHM BMS Attribute. Valid entry is R.	03	C	X(01)	5	5
BMS-PNRM BMS Attribute. Valid entry is 1.	03	C	X(01)	6	6
BMS-PAHM BMS Attribute. Valid entry is Z.	03	C	X(01)	7	7

Field Name	Level	Mode	Picture	Displacement	
BMS-PNHM BMS Attribute. Valid entry is 9 .	03	C	X(01)	8	8
BMS-PAOM BMS Attribute. Valid entry is _ (underline symbol).	03	C	X(01)	9	9
BMS-UAOM BMS Attribute. Valid entry is ((left parenthesis symbol).	03	C	X(01)	10	10
BMS-PNOM BMS Attribute. Valid entry is " (quotation symbol).	03	C	X(01)	11	11
BMS-UNOM BMS Attribute. Valid entry is) (right parenthesis symbol).	03	C	X(01)	12	12
BMS-PARU BMS Attribute. Valid entry is – (dash symbol).	03	C	X(01)	13	13
BMS-UARU BMS Attribute. Valid entry is ␣ (blank symbol).	03	C	X(01)	14	14
BMS-UAHU BMS Attribute. Valid entry is H .	03	C	X(01)	15	15
BMS-UNRU BMS Attribute. Valid entry is & (ampersand symbol).	03	C	X(01)	16	16
BMS-UNHU BMS Attribute. Valid entry is Q .	03	C	X(01)	17	17
BMS-PNRU BMS Attribute. Valid entry is 4 .	03	C	X(01)	18	18
BMS-PNHU BMS Attribute. Valid entry is 8 .	03	C	X(01)	19	19
BMS-PAHU BMS Attribute. Valid entry is Y .	03	C	X(01)	20	20
BMS-PAOU BMS Attribute. Valid entry is % (percent symbol).	03	C	X(01)	21	21
BMS-UAOU BMS Attribute. Valid entry is < (less than symbol).	03	C	X(01)	22	22

Field Name	Level	Mode	Picture	Displacement	
BMS-PNOU BMS Attribute. Valid entry is @ (at symbol).	03	C	X(01)	23	23
BMS-UNOU BMS Attribute. Valid entry is * (asterisk symbol).	03	C	X(01)	24	24

DFHCOMMAREA – Communication Area (5.1)

The DFHCOMMAREA is a communication area which is passed from the control program to the panel program. The information contained in this area depends on the panel program requirements to process the information entered through the panel.

The following description shows the format of DFHCOMMAREA which is 3584 bytes long. Copybook is SLS111.

Field Name	Level	Mode	Picture	Displacement	
DFHCOMMAREA Communication Area.	01	R		1	8096
COM-RETURN Return Code.	03	C	X(01)	1	1
COM-PROGID Program Identification.	03	C	X(08)	2	9
COM-EXTID External Transaction Code.	03	C	X(04)	10	13
COM-INTID Internal Transaction Code.	03	C	X(04)	14	17
COM-ABORT Abort Code.	03	B	S9(04)	18	19
COM-SECEMP Employee Information Security Code.	03	C	X(01)	20	20
COM-SECDRM Dormant Security Code.	03	C	X(01)	21	21
COM-SECAPPL Application Security Code. Limits access by application. Valid entries are:	03	C	X(01)	22	22

- b** No security required.
- C** Credit Line.
- D** Demand Deposit.
- S** Savings.
- 1** Demand Deposit and Savings.
- 2** Demand Deposit and Credit Line.
- 3** Savings and Credit Line.
- 4** Demand Deposit, Savings and Credit Line.

Field Name	Level	Mode	Picture	Displacement	
COM-SECFUNC	03	C	X(01)	23	23
Function. Indicates what functions the operator is allowed to perform. Codes M and N are only functional when the function code is included as part of the key. Refer to the entry edit codes and their respective key parameters. Valid entries are: B Create new records and maintain existing records. I Inquiry only. M Maintain existing records. N Create new records.					
COM-OPERID Operator Identification Code.	03	C	X(08)	24	31
COM-MODELID Operator ID. Used as a profile for panel and field security.	03	C	X(08)	32	39
COM-PROFILE REDEFINES MODELID.	03	C	X(08)	32	39
COM-UPDATE Inquiry or Maintenance Control Code.	03	C	X(01)	40	40
COM-APPL Application Code.	03	N	9(02)	41	42
COM-ACCOUNT Account Number. Used when processing an Infopoint account. If the application requires a 25-character, alphanumeric account number, the field COM-ACCOUNTALPHA is used.	03	B	9(18)	43	50
COM-AUTOTR External transaction code of the module that the current module automatically transfers to when the current module is finished executing.	03	C	X(04)	51	54
COM-BKNBR Institution Number.	03	N	9(04)	55	58
COM-INST REDEFINES COM-BKNBR.	03	N	9(04)	55	58
FILLER REDEFINES COM-PRIBKNBR.	03	C	X(02)	59	60
COM-BRANCH Branch Number.	03	N	9(05)	61	65

Field Name	Level	Mode	Picture	Displacement	
COM-FUNC Function Code. Used to determine if the transaction is new or maintenance. Valid entries are: M Maintenance. N New.	03	C	X(01)	66	66
COM-BKNAME Institution Name and Address Information.	03	C	X(45)	67	111
COM-INSTNAME REDEFINES COM-BKNAME.	03	C	X(45)	67	111
COM-DATE Entry Date. Format is MMDDYYYY.	03	B	S9(09)	112	115
COM-NPROCDA Next Processing Date. Format is YYYYDDD.	03	PS	S9(07)	116	119
COM-CIFAC Application Code.	03	C	X(03)	120	122
COM-EIBAREA1 EIB Area. Used as needed by the online program.	03	G		123	171
COM-EIBTIME EIB Time. Format is 0HHMMSS.	05	PS	S9(07)	123	126
COM-EIBDATE EIB Date. Format is 00YYDDD.	05	PS	S9(07)	127	130
COM-EIBTRNID EIB Transaction Identifier.	05	C	X(04)	131	134
COM-EIBTASKN EIB Task Number.	05	PS	S9(07)	135	138
COM-EIBTRMID EIB Terminal Identifier.	05	C	X(04)	139	142
COM-EIBCPOSN EIB Cursor Position.	05	B	S9(04)	143	144
COM-EIBCALEN EIB COMMAREA Length.	05	B	S9(04)	145	146
COM-EIBAID	05	C	X(01)	147	147

Field Name	Level	Mode	Picture	Displacement	
EIB Attention Identifier.					
COM-EIBFN EIB Function Code.	05	C	X(02)	148	149
COM-EIBRCODE EIB Response Code.	05	C	X(06)	150	155
COM-EIBDS EIB Data Set Name.	05	C	X(08)	156	163
COM-EIBREQID EIB Request Identifier.	05	C	X(08)	164	171
COM-NEXTKEY Key of item to be processed next.	03	G		172	249
COM-NXEXTID Next external transaction to be processed.	05	C	X(04)	172	175
COM-NXDATA Next Transaction Key Data.	05	C	X(72)	176	247
COM-PFKEY Reserved for future use.	05	C	X(02)	248	249
COM-NBR Work Area for a Number. It is being used to control the menu.	03	B	S9(04)	250	251
COM-ABTRACEX Abort Trace.	03	G		252	253
COM-ABTRACE Abort Trace Number.	05	B	S9(04)	252	253
COM-ABFUNCTION Abort Function Code.	03	C	X(01)	254	254
FILLER Not used.	03	C	X(04)	255	258
COM-MENUOPT Menu Options Code.	03	C	X(01)	259	259
COM-MORGSGON Mortgage Signon. Indicates whether the operator has access to mortgage transactions.	03	C	X(01)	260	260

Field Name	Level	Mode	Picture	Displacement	
COM-FILEOPTS File Options.	03	G		261	285
COM-FILEOPT OCCURS 25 TIMES. File Option.	05	C	X(01)	261	285
COM-REGION Pricing Region. Operator's pricing region as defined in the MICM Operator Record.	03	N	9(03)	286	288
COM-ACCOUNTALPHA Alphanumeric Account. 25-character, alphanumeric account number used by various applications when required.	03	C	X(25)	289	313
COM-KCUSTOMER Relationship CIF Customer Key. The Infopoint Relationship CIF application places customer key information in this field whenever the information is available.	03	C	X(21)	314	334
COM-KCLASS Account Class.	03	N	9(03)	335	337
COM-TYPEX Account Type Information.	03	G		338	340
COM-TYPE User-defined Account Type. Valid entries are 001 – 999 .	05	N	9(03)	338	340
COM-EFFDATEJ Effective Julian Date.	03	PS	S9(07)	341	344
COM-EFFDATEC Effective Calendar Date.	03	PS	S9(09)	345	349
COM-CUSTNAME1 Customer Name 1. Identifies the name of the first customer being processed. Used by the Relationship CIF application.	03	C	X(40)	350	389
COM-CUSTTIEBRK1X Customer Tie Breaker 1 Information.	03	G		390	393
COM-CUSTTIEBRK1 Customer Tie Breaker 1. Identifies the name tie breaker of the first customer being processed. Used by the Relationship CIF application.	05	N	9(04)	390	393
COM-CUSTNAME2	03	C	X(40)	394	433

Field Name	Level	Mode	Picture	Displacement	
Customer Name 2. Identifies the name of the second customer being processed. Used by the Relationship CIF application.					
COM-CUSTTIEBRK2X	03	G		434	437
Customer Tie Breaker 2 Information.					
COM-CUSTTIEBRK2	05	N	9(04)	434	437
Customer Tie Breaker 2. Identifies the name tie breaker of the second customer being processed. Used by the Relationship CIF application.					
COM-CUST-MAINT-TYPE	03	N	9(03)	438	440
Customer Maintenance Type. Defines the specific maintenance that is being performed within the Work Unit. Used by the Relationship CIF application.					
COM-CUST-USE-CD	03	C	X(01)	441	441
Address Use Code. Defines the address use code being used within the Work Unit. Used by the Relationship CIF application.					
COM-CUST-REL	03	N	9(03)	442	444
Customer Relationship. Indicates which account-to-customer relationship is being accessed within the Work Unit. Used by the Relationship CIF application.					
COM-CUST-TYPE1	03	C	X(01)	445	445
Customer Type 1. Identifies the type of the first customer being processed. Used by the Relationship CIF application.					
COM-CUST-TYPE2	03	C	X(01)	446	446
Customer Type 2. Identifies the type of the second customer being processed. Used by the Relationship CIF application.					
FILLER	03	C	X(07)	447	453
Not used.					
COM-PRIBKNBR	03	N	9(04)	454	457
Not used.					
COM-PRIBKNBRR	03	C	X(04)	454	457
REDEFINES COM-PRIBKNBR.					
COM-PRIINST	03	N	9(04)	454	457
REDEFINES COM-PRIBKNBR.					
COM-PRIINSTR	03	C	X(04)	454	457
REDEFINES COM-PRIBKNBR.					
COM-RTRANID	03	C	X(04)	458	461

Field Name	Level	Mode	Picture	Displacement	
Next Transaction Code Executed. The next CICS transaction to be executed when the operator presses any function key on the terminal.					
COM-MAPPERINDR	03	C	X(01)	462	462
Mapper Indicator. Valid entries are:					
A Indicates 3.0 COM-AREA format.					
C Indicates 3.0 COM-AREA format.					
M Indicates 5.0 COM-AREA format.					
3 Indicates 3.0 COM-AREA format.					
COM-WORKAREA50	03	G		463	4048
Work Area. Group area for MICM 5.0 COMMAREA fields.					
COM-SECALT	05	C	X(01)	463	463
Used to indicate if the Operator Dialogue Record was found on the Alternate Institution. Valid entries are:					
b Use Institution 000.					
Y Use the Alternate Institution Number to retrieve the Operator Dialogue Record.					
COM-BKPGRMID	05	C	X(08)	464	471
Breakaway Program ID. Contains blanks or the program name that initiated breakaway maintenance. If this field contains a value other than spaces, the F10 key is not considered valid.					
COM-EXTERNALID	05	C	X(08)	472	479
The 8 position Panel ID currently executing.					
COM-BICR	05	G		480	879
Group control area for API control blocks.					
COM-PAN	07	C	X(100)	480	579
Mapper PAN Area. Each panel program loads from this area, if not equal to spaces. Before exiting the program, the BICRPAN is reloaded into the COMMAREA. If the COMMAREA is equal to spaces, then the application panel program must perform an INIT.					
COM-PSB	07	C	X(100)	580	679
Mapper PSB Area. Each panel program loads from this area, if not equal to spaces. Before exiting the program, the BICRPSB is reloaded into the COMMAREA. If the COMMAREA is equal to spaces, then the application panel program must perform an INIT.					
COM-SRB	07	G		680	879
Mapper SRB Area. Each panel program loads from this area, if not equal to spaces. Before exiting the program, the BICRSRB is reloaded into the COMMAREA. If the COMMAREA is equal to spaces, then the application panel program must perform an INIT.					
COM-SRBTAG	09	C	X(08)	680	687
Valid entry is BSRB .					

Field Name	Level	Mode	Picture	Displacement	
FILLER Not used. Blank filled.	09	C	X(53)	688	740
COM-SRBMDB API Message Debugging Block.	09	C	X(100)	741	840
FILLER Not used.	09	C	X(39)	841	879
COM-GENPANEL Panel name specified in the transaction security parameter. This is used to invoke Application Management.	05	C	X(08)	880	887
COM-HELPPANEL Panel-level Help Name. Panel name used for panel-level help information.	05	C	X(08)	888	895
COM-HELPSW Panel-level Help Switch. Valid entries are: N Help has not been invoked. Y Help has been invoked.	05	C	X(01)	896	896
COM-WKUPOSITION Work Unit Position. This field contains the current position of the transaction in use for a Work Unit. SSL100 initializes this field to zeros for non-Work Unit transactions. SSL100 initializes this field to a value of 01, or the value of the fast path selection for Work Unit transactions. The application panel programs are responsible for incrementing and decrementing this field. If a Work Unit is terminated, the Panel Program moves zeros to this field.	05	N	9(02)	897	898
COM-WKUNAME Work Unit Name. Name of the Work Unit. This field contains spaces for non-Work Unit transactions.	05	C	X(08)	899	906
COM-WKUCOUNT Work Unit Count. Total number of transactions included in the Work Unit that are permitted for the operator.	05	N	9(02)	907	908
COM-WKUTABLE OCCURS 20 TIMES. Work Unit Table.	05	G		909	1248
COM-WKUTRANSID Work Unit Transaction ID. External transaction name associated with a transaction defined as a Work Unit. Only transactions can be defined to a Work Unit.	07	C	X(08)	909	916
COM-WKUFUNCTION Work Unit Function. Override function defined in the MICM Work Unit Definition Record for this transaction. If this field is blank, then the function from the prior transaction is used.	07	C	X(01)	917	917

Field Name	Level	Mode	Picture	Displacement	
COM-WKUKEYPARM	07	N	9(03)	918	920
Work Unit Key Parameter. Key parameter from MICM Record 4002.					
COM-WKUAPPL	07	C	X(02)	921	922
Optional Application Code associated with the Work Unit Transaction ID. If present, the Application Code must match the COM-APPL ID or else the Work Unit Transaction ID is bypassed.					
COM-WKUDIALOG	07	C	X(02)	923	924
Optional Dialogue Code associated with the Work Unit Transaction ID. If present, the Application Code must match the COM-DIALOGUE field or else the Work Unit Transaction ID is bypassed.					
COM-WKURESTART	07	C	X(01)	925	925
This field controls the automatic restarting of a work unit when Enter key or F8 is pressed while on the associated Work Unit Transaction ID.					
COM-WHURESTART				926	948
OCCURS 20 TIMES. Restart Flag. This flag indicates whether or not to return to the first panel of the work unit after processing this panel. Valid entries are:					
<ul style="list-style-type: none"> b Do not return to the first work unit position. Return to the menu. L Restart work unit without resetting the time stamp information. (Invalid value for first transaction is a work unit). N This value stops the paging backwards from this transaction as well as invoking the 'begin' function. (F2 and F7 are prohibited for this entry). R Restart Work Unit and build next key. Processes through work unit and builds the next key, continuing in a browse mode. X Return to the first Work Unit transaction. (Invalid value for the first transaction.) Processes through the work unit and stops at the work unit key panel. 					
COM-TSQWKKEY	05	C	X(08)	1249	1256
TSQ Area Name. Each application panel program checks this field for a value other than spaces. The TSQ Area Name is used if it is applicable to the panel program. If it is not applicable, the panel program deletes it.					
COM-TSQWKMANAGER	05	C	X(03)	1257	1259
TSQ Alpha Manager Code. Alpha manager code that wrote the TSQ. Duplicate record names can exist between applications. This field is utilized in conjunction with the COM-TSQWKKEY field by the panel programs to determine if the TSQ should be used or deleted.					

Field Name	Level	Mode	Picture	Displacement	
COM-END	05	C	X(01)	1260	1260
Recurring Panels Control. Used by the Verify, Build, and Validate Function Keys and the Close Transaction routines to control forward and backward scrolling on panels that display more than one panel of information. If the transaction does not have recurring panels, COM-END needs to be set to E for the Exclude Recurring option.					
Note: The Control program sets this field to E . Transactions that process recurring panels must set COM-END as follows:					
B Both following and prior panels. (There are prior panels and more panels to display).					
E End recurring panel processing (initial value). Final exit of transaction displaying recurring panels, only one recurring panel, or has no recurring panels.					
F Following panel. (There are no prior panels. Set for first recurring panel).					
P Prior panel. (There are no more panels. Set for the last recurring panel).					
COM-FIELDSECGRP	05	C	X(30)	1261	1290
Field and application group area used by panel programs.					
COM-FIELDSECRDF	05	G		1261	1290
REDEFINES COM-FIELDSECGRP.					
COM-FIELDSEC	07	G		1261	1290
OCCURS 6 TIMES. Field and application security occurrences.					
COM-FLDSECAPPLID	09	N	9(02)	1261	1262
Specific application for which security apply. Information is from Operator Dialogue record.					
COM-FLDSECPAR	09	N	9(03)	1263	1265
Not used.					
COM-APPLSEC1	05	C	X(02)	1291	1292
Application Security 1. Provides an operator security level for the Financial Control System (FCS). Used to extend the FCS institution Retro Transaction Indicator and Retro Number of Days fields to the operator level. Valid entries are:					
b Retro dates are allowed as defined by the FCS institution Retro Transaction Indicator and Retro Number of Days fields.					
01 Retro dates from the first day of last year up to the current processing date are allowed.					
02 Retro dates from the first day of the current processing month up to the current processing date are allowed.					
COM-APPLSEC2	05	C	X(02)	1293	1294
Application Security 2. Provides an operator security level for FCS. It is used to define an operator manager level. Valid entries are:					
b Non-manager level operator. This operator only has inquiry access to batches entered by other operators.					
01 Manager level operator. This operator may add, change, delete, and release batches entered by any other operator.					

Field Name	Level	Mode	Picture	Displacement	
COM-APPLSEC3 Application Security 3.	05	C	X(02)	1295	1296
COM-APPLSEC4 Application Security 4.	05	C	X(02)	1297	1298
COM-APPLSEC5 Application Security 5.	05	C	X(02)	1299	1300
COM-ABPROGID Function module that initiated the abort.	05	C	X(08)	1301	1308
COM-ABEIBFN Contains a code that identifies the last CICS command to be issued by the task. It is updated when the requested function is completed.	05	C	X(02)	1309	1310
COM-ABEIBRCODE Contains the CICS response code returned after the function requested by the last CICS command to be issued by the task has been completed.	05	C	X(06)	1311	1316
COM-MENU ID of the menu last displayed to the operator.	05	C	X(08)	1317	1324
COM-DIALOGROUT This field is loaded by panel programs to allow application-defined routines for work units. It is used in conjunction the Dialogue fields on MICM Record 4000.	05	C	X(02)	1325	1326
COM-ABTYPE Abort Type. This field is loaded by function modules to indicate a file error occurred that prevents further processing.	05	C	X(01)	1327	1327
COM-SSDATASET SS File Data Set Name. This field is loaded at operator sign-on from MICM Record 2014 to indicate the user has created an SS File data set.	05	C	X(06)	1328	1333
COM-TRANSTART Transaction Start Time. Time the work unit was initiated. If Work Unit processing is not in use, this contains the time the panel was initiated.	05	PS	S9(07)	1334	1337
COM-APPLSEQ Application Sequence Number. This field is available for application-specific reporting requirements.	05	PS	S9(05)	1338	1340
COM-WKUPOSITION-LAST Work Unit Position. Last position of the Work Unit.	05	N	9(02)	1341	1342

Field Name	Level	Mode	Picture	Displacement	
COM-SSHELPSET SSFILE Help Data set Name.	05	C	X(06)	1343	1348
COM-AMMICM Application Management for MICM. This field is set to 'Y' when the MICM Master record is defined to the Application Management File.	05	C	X(01)	1349	1349
COM-AMPANELS Application Management Panels for MICM. Contains the number of panels for a MICM panel.	05	N	9(02)	1350	1351
COM-NEXTTRAN Next Transaction. Next transaction to perform during transaction chaining.	05	C	X(08)	1352	1359
COM-TSQWKKEY2 Temporary Storage Key 2. Each application panel program checks this field for a value other than spaces. The TSQ Area Name is used if it is applicable to the panel program. If it is not applicable, the panel program deletes it.	05	C	X(08)	1360	1367
COM-WKUSECFUNCG Function. Indicates what functions the operator is allowed to perform. Codes M and N are only functional when the function code is included as part of the key. Refer to the entry edit codes and their respective key parameters. Valid entries are: B Create new records and maintain existing records. I Inquiry only. M Maintain existing records. N Create new records.	05	G		1368	1387
COM-WKUSECFUNC OCCURS 20 TIMES.	07	C	X(01)	1368	1387
COM-301-50S Institution Option.	05	G		1388	1392
COM-301-50 Institution Option 1.	07	C	X(01)	1388	1388
COM-301-51 Institution Option 2.	07	C	X(01)	1389	1389
COM-301-52 Institution Option 3.	07	C	X(01)	1390	1390
COM-301-53 Institution Option 4.	07	C	X(01)	1391	1391

Field Name	Level	Mode	Picture	Displacement	
COM-301-54 Institution Option 5.	07	C	X(01)	1392	1392
COM-INST-OPTS REDEFINES COM-301-50S.	05	G		1388	1392
COM-INST-OPT-1 Institution Option 1.	07	C	X(01)	1388	1388
COM-INST-OPT-2 Institution Option 2.	07	C	X(01)	1389	1389
COM-INST-OPT-3 Institution Option 3.	07	C	X(01)	1390	1390
COM-INST-OPT-4 Institution Option 4.	07	C	X(01)	1391	1391
COM-INST-OPT-5 Institution Option 5.	07	C	X(01)	1392	1392
COM-CTLPGRM-ROUTER Control Program Router.	05	C	X(01)	1393	1393
COM-OST-USER Temporary Storage User Area Indicator. A 256-position user area.	05	C	X(01)	1394	1394
COM-DATE-SEQ Date Sequence.	05	C	X(01)	1395	1395
COM-DATE-DELIM Date Delimiter.	05	C	X(01)	1396	1396
COM-TIME-DELIM Time Delimiter.	05	C	X(01)	1397	1397
COM-TIME-FORMAT Time Format.	05	C	X(01)	1398	1398
COM-USE-CURNCODE User Currency Code.	05	C	X(01)	1399	1399
COM-CURN-CODE Currency Code.	05	C	X(04)	1400	1403

Field Name	Level	Mode	Picture	Displacement	
COM-AMOUNT-OPT Amount Option.	05	C	X(01)	1404	1404
COM-LANG Language Code. Valid entries are defined on MICM Record 2022 (Valid Language Code Table Record). Codes that can be used are indicated with 'Y' in the Usage field.	05	C	X(02)	1405	1406
COM-CURN-DECIMAL Currency Decimal.	05	N	9(01)	1407	1407
COM-CURN-SEPARATOR Currency Separator.	05	C	X(01)	1408	1408
COM-CURN-DELIMITER Currency Delimiter.	05	C	X(01)	1409	1409
COM-ABMSG Additional Message. Additional message to be displayed on the abort panel.	05	C	X(79)	1410	1488
COM-CICSUSER-ID CICS User ID.	05	C	X(08)	1489	1496
COM-REC-PROFILE Record Profile.	05	C	X(08)	1497	1504
COM-INST2 Institution 2.	05	N	S9(04)	1505	1508
COM-FILEOPTS2 File Option 2.	05	G		1509	1533
COM-FILEOPT2 OCCURS 25 TIMES.	07	N	X(01)	1509	1533
COM-MSGNBRG Message Number.	05	G		1534	1540
COM-MANGER Message Code. Identifies system-defined message code. The message is defined by the manager.	07	N	9(02)	1534	1535
COM-MSGNBR Internal Application Number. The application number for which this information applies. This application number is the internal number used by Infopoint. This number cannot be altered by the user. Valid entries are 00 – 99 .	07	C	X(05)	1536	1540

Field Name	Level	Mode	Picture	Displacement	
COM-SECURITY-FUNC Security Function.	05	C	X(01)	1541	1541
COM-RETURN-SYSID Return System ID.	05	C	X(04)	1542	1545
COM-TASKID Task ID.	05	C	X(04)	1546	1549
COM-RETURN-TRANSID Return Transaction ID.	05	C	X(04)	1550	1553
COM-GEN-PGRMID Program ID.	05	C	X(08)	1554	1561
COM-K-PDB-ADDR Key Panel Data Block Address. Set by MIL740.	05	B	S9(09)	1562	1565
COM-K-PDA-ADDR Key Panel Data Area Address. Set by MIL740.	05	B	S9(09)	1566	1569
COM-PDB-ADDR Panel Data Area Address. Set by MIL740.	05	B	S9(09)	1570	1573
COM-PDA-ADDR Panel Data Area Address. Set by MIL740.	05	B	S9(09)	1574	1577
COM-PF-ADDR Program Function Key Address. Set by MIL740.	05	B	S9(09)	1578	1581
COM-GEN-RETURN Generic Return Code. Set to zero when COM-RETURN is set to zero. Set by MIL740.	05	C	X(01)	1582	1582
COM-GEN-RTN Generic Routine Code. Valid entries are K , indicating Key panel, and R , indicating Processing Data panel.	05	C	X(01)	1583	1583
COM-GEN-ERROR Generic Error. Valid entry is E, indicating error detected by applications' program	05	C	X(01)	1584	1584
COM-ADD-IND Add Indicator. Indicates if the operator is allowed to change records. Valid entries are: N Cannot add records. Y Can add records.	05	C	X(01)	1585	1585

Field Name	Level	Mode	Picture	Displacement	
COM-DELETE-IND	05	C	X(01)	1586	1586
Delete Indicator. Indicates if the operator is allowed to delete record. Valid entries are:					
N Cannot delete records.					
Y Can delete records.					
COM-INQUIRY-IND	05	C	X(01)	1587	1587
Inquiry Indicator. Indicates if operator is allowed to inquire on records. Valid entries are:					
N Cannot inquire records.					
Y Can inquire records.					
COM-CHANGE-IND	05	C	X(01)	1588	1588
Change Indicator. Indicates if the operator is allowed to change records. Valid entries are:					
N Cannot change records.					
Y Can change records.					
COM-MISC-IND	05	C	X(01)	1589	1589
Miscellaneous Indicator. Valid entries are:					
N Error overrides are not allowed.					
Y Error overrides are allowed.					
COM-REPORT-IND	05	C	X(01)	1590	1590
Report Indicator. Valid entries are:					
N Standard report writer/no high volume.					
Y Use report writer/high volume.					
COM-BROWSE	05	C	X(01)	1591	1591
Browse Flag. Valid entry is B , indicating that MICM program is in the browse mode.					
COM-INVALID-PF	05	C	X(01)	1592	1592
Invalid Program Function. Valid entry is Y , indicating an incorrect function key was pressed.					
COM-NEXTKEY-EXT	05	C	X(52)	1593	1644
Next Key Extension. Used when keys are longer than 78 positions.					
COM-RPT-PROFILE-ID	05	C	X(08)	1645	1652
Report Profile ID.					
COM-OPT-PROFILE-ID	05	C	X(08)	1653	1660
Optional Profile ID.					
COM-COST-CNTR	05	P	9(15)	1661	1675
Cost Center.					
COM-HIER-ENTRY	05	C	X(20)	1676	1695
Hierarchy Entry.					

Field Name	Level	Mode	Picture	Displacement	
COM-AMT-TYPE Amount Type.	05	C	X(05)	1696	1700
COM-APPL-NBR Application Number.	05	N	9(04)	1701	1704
COM-BATCH-DATE Batch Date.	05	N	9(08)	1705	1712
COM-BATCH-NBR Batch Number.	05	N	9(04)	1713	1716
COM-BATCH-SEQ Batch Sequence.	05	N	9(09)	1717	1725
COM-BATCH-SEQ-IND Batch Sequence Indicator.	05	C	X(01)	1726	1726
COM-BATCH-TYPE Batch Type.	05	C	X(02)	1727	1728
COM-CHART-NBR Chart Number.	05	N	9(04)	1729	1732
COM-COMMENT-NBR Comment Number.	05	N	9(04)	1733	1736
COM-DIST-CODE Distribution Code.	05	C	X(10)	1737	1746
COM-DOC-NBR Document Number.	05	C	X(15)	1747	1761
COM-DRCT-OFFS-IND Direct Officer Indicator.	05	C	X(01)	1762	1762
COM-EFFECTIVE-DATE Effective Date.	05	N	9(08)	1763	1770
COM-FISCAL-YEAR Fiscal Year.	05	N	9(04)	1771	1774
COM-FUNC-CODE Function Code.	05	N	9(15)	1775	1789

Field Name	Level	Mode	Picture	Displacement	
COM-GLACCT-LVL General Ledger Account Level.	05	N	9(02)	1790	1791
COM-GLACCT-NBR General Ledger Account Number.	05	N	9(15)	1792	1806
COM-GLACCT-TYPE General Ledger Account type.	05	C	X(02)	1807	1808
COM-GROUP-ID Group Identification.	05	C	X(08)	1809	1816
COM-HIER-NBR Hierarchy Number.	05	N	9(04)	1817	1820
COM-HIGH-GLACCT-NBR High General Ledger Account Number.	05	N	9(15)	1821	1835
COM-ITEM-NBR Item Number.	05	N	9(09)	1836	1844
COM-PARM-SET-NBR Parameter Set Number.	05	N	9(04)	1845	1848
COM-PRAT-COST-CNTR Proration Cost Center.	05	N	9(15)	1849	1863
COM-PRAT-GLACCT-NBR Proration General Ledger Account Number.	05	N	9(15)	1864	1878
COM-PRAT-INST-NBR Proration Institution Number.	05	N	9(04)	1879	1882
COM-PROFILE-ID Profile Identification.	05	C	X(08)	1883	1890
COM-RESP-PERSON-ID Responsible Person Identification.	05	C	X(08)	1891	1898
COM-RPT-DATE Report Date.	05	N	9(08)	1899	1906
COM-RPT-LINE-NBR Report Line Number.	05	N	9(04)	1907	1910

Field Name	Level	Mode	Picture	Displacement	
COM-RPT-NBR Report Number.	05	N	9(03)	1911	1913
COM-RPT-PAGE-NBR Report Page Number.	05	N	9(09)	1914	1922
COM-RPT-TYPE Report Type.	05	C	X(01)	1923	1923
COM-SRCE-BRCH-DEPT Source Branch Department.	05	C	X(15)	1924	1938
COM-SRCE-GLACCT-NBR Source General Ledger Account Number.	05	C	X(15)	1939	1953
COM-SRCE-INST-NBR Source Institution Number.	05	C	X(08)	1954	1961
COM-SRCE-SUBL Source Subledger Account Number.	05	C	X(15)	1962	1976
COM-SRCE-TRAN-CODE Source Transaction Code.	05	C	X(08)	1977	1984
COM-SRCE-TRAN-TYPE Source Transaction Type.	05	C	X(08)	1985	1992
COM-SUBL-ACCT-LVL Subledger Account Level.	05	N	9(02)	1993	1994
COM-SUBL-ACCT-NBR Subledger Account Number.	05	N	9(15)	1995	2009
COM-SUBL-NBR Subledger Number.	05	N	9(02)	2010	2011
COM-UNIQUE-SEQ-NBR Unique Sequence Number.	05	N	9(09)	2012	2020
COM-OLDKEYG Last COM-NEXT Key.	05	G		2021	2060
COM-OLDKEY Last COM-NEXT Key Position 1 – 78.	07	C	X(78)	2021	2098

Field Name	Level	Mode	Picture	Displacement	
COM-OLDKEY-EXT Last COM-NEXT Key Position 79 – 137.	07	C	X(62)	2099	2160
COM-AMWKU-POSITION AMT Processing Work Unit Position.	05	P	9(02)	2161	2162
COM-AMPANELS-POSITION AMT Processing AMT Panel Position.	05	P	9(02)	2163	2164
COM-AMRFIRST-TIME AMT Processing First Time Indicator.	05	C	X(01)	2165	2165
COM-AMGEN-PANELSG OCCURS 20 TIMES.	05	G		2166	2285
COM-AMGEN-PANELS OCCURS 20 TIMES.	07	C	X(06)	2166	2285
COM-BACK-PANELS AMT Processing Panel Names for Work Unit.	05	C	X(01)	2286	2286
COM-GEN-PANELK Panel Processor Key Panel Name.	05	C	X(08)	2287	2294
COM-PF-FLAG OCCURS 24 TIMES.	05	C	X(01)	2295	2318
COM-NEXTWKU-KEY Next Work Unit Key	05	C	X(130)	2319	2448
COM-BICRPAN-ADDR Address of the Panel Control Block in programs MIL740.	05	B	S9(08)	2449	2452
COM-LAST-EIBAID Last 2370 function key.	05	C	X(01)	2453	2453
COM-WINDOW-NAME Help Window Name.	05	C	X(08)	2454	2461
COM-FIRSTWKU-KEY First Work Unit Key.	05	C	X(130)	2462	2591
COM-GROUP Group Option. This is the Group profile from the operator record.	05	C	X(08)	2592	2599

Field Name	Level	Mode	Picture	Displacement	
COM-GEN-SKIP Generic program work unit skip. When this field is set to 'S' it will cause program MIL740 to go to the next transaction in the work unit.	05	C	X(01)	2600	2600
COM-FCL-EFF-PROC-DATE Financial Control System's processing data.	05	N	9(08)	2601	2608
COM-ABEIBRESP CICS command response code at the time of the issuer abort.	05	B	9(08)	2609	2612
COM-ABEIBRESP2 CICS command response two code at the time of the issuer abort.	05	B	9(08)	2613	2616
COM-PRODCODE Product Code.	05	C	X(06)	2617	2622
COM-740LINKED	05	C	X(01)	2623	2623
FILLER Not used.	05	C	X(1425)	2624	4048
COM-WORKAREA Additional Work Area.	03	C	X(4048)	4049	8096

LS-SCRNAREA – Standard Screen Heading Area (Old)

The same first 2 lines are used at the top of all panels. The first line consists of the transaction code, key information, and an area to designate the selection of the function keys for those terminals that do not have function keys. In certain programs, special options can be chosen by using the function keys. A detailed explanation of their use is found in the Procedures chapter of *Procedures Guide 2*.

The second line contains the institution number and name, internal transaction identification, operator identification, and date.

The following is the record layout used to define these 2 lines for Infopoint panels. Copybook is SLS005.

Note: Used only by programs processing through the old Control Program (S0L100).

Field Name	Level	Mode	Picture	Displacement	
LS-SCRNAREA Standard working storage panel heading area.	01	R		1	179
FILLER Reserved for CICS.	03	C	X(12)	1	12
LSS-NEXTKEYL Field length of the next key area.	03	B	S9(04)	13	14
LSS-NEXTKEYA Attribute byte of the next key area.	03	C	X(01)	15	15
LSS-NEXTKEY Next key to be processed using F4.	03	G		16	52
LSS-EXTID External Transaction.	05	C	X(04)	16	19
LSS-DELIM1 Delimiter character which separates the key information.	05	C	X(01)	20	20
LSS-DATA Transaction Key Area.	05	C	X(32)	21	52
LSS-KEY01 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '1'.	05	G		21	52
LSS-IFCUSTLN First 6 letters of the customer's last name.	07	C	X(06)	21	26
LSS-DELIM12 Delimiter character which separates the key information.	07	C	X(01)	27	27

Field Name	Level	Mode	Picture	Displacement	
LSS-IFCUSTFI Customer's First Initial.	07	C	X(01)	28	28
LSS-DELIM13 Delimiter character which separates the key information.	07	C	X(01)	29	29
LSS-IFCUSTMI Customer's Middle Initial.	07	C	X(01)	30	30
LSS-DELIM14 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-IFCUSTBRK Customer Key Tie Breaker.	07	N	9(04)	32	35
LSS-DELIM15 Delimiter character which separates the key information.	07	C	X(01)	36	36
LSS-KEY02 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '2'.	05	G		21	52
FILLER Field names in LSS-KEY11 are used to put data in this area.	07	C	X(02)	21	22
LSS-KEYACT Account Number.	07	N	9(10)	23	32
LSS-DELIM33 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-KEYAPL Account Application Code.	07	C	X(03)	34	36
LSS-DELIM34 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-KEY03 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '3'.	05	G		21	52
LSS-KEYACCT Account Number.	07	N	9(10)	21	30
LSS-DELIM22 Delimiter character which separates the key information.	07	C	X(01)	31	31

Field Name	Level	Mode	Picture	Displacement	
LSS-KEYAPPL Account Application Code.	07	C	X(03)	32	34
LSS-DELIM23 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-KEY04 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '4'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(15)	21	35
LSS-KEY4BR Branch Number.	07	N	9(05)	36	40
LSS-DELIM44 Delimiter character which separates the key information.	07	C	X(01)	41	41
LSS-KEY4TYPE Account Type.	07	N	9(03)	42	44
LSS-DELIM45 Delimiter character which separates the key information.	07	C	X(01)	45	45
LSS-KEY05 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '5'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(15)	21	35
LSS-KEYSEQ Stop/Hold Sequence Number.	07	N	9(04)	36	39
LSS-DELIM54 Delimiter character which separates the key information.	07	C	X(01)	40	40
LSS-KEY06 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '6'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(15)	21	35
LSS-KEYID Record identification code of a preauthorized transfer record.	07	C	X(05)	36	40

Field Name	Level	Mode	Picture	Displacement	
LSS-DELIM64 Delimiter character which separates the key information.	07	C	X(01)	41	41
LSS-KEY08 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '8'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(11)	21	31
LSS-KEY8BR Branch Number.	07	N	9(05)	32	36
LSS-DELIM83 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-KEY8TYPE Account Type.	07	N	9(03)	38	40
LSS-DELIM84 Delimiter character which separates the key information.	07	C	X(01)	41	41
LSS-KEY11 REDEFINES LSS-DATA. Used when a transaction key contains as entry edit code of '11'.	05	G		21	52
LSS-FUNC Function Code.	07	C	X(01)	21	21
LSS-DELIM112 Delimiter.	07	C	X(01)	22	22
LSS-KEY12 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '12'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(02)	21	22
LSS-CSLASTNM Customer Last Name.	07	C	X(06)	23	28
LSS-DELIM123 Delimiter character which separates the key information.	07	C	X(01)	29	29
LSS-CSFIRSTNM Customer First Name.	07	C	X(03)	30	32

Field Name	Level	Mode	Picture	Displacement	
LSS-DELIM124 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-CSMIDINIT Customer Middle Name Initial.	07	C	X(01)	34	34
LSS-DELIM125 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-CSTIEBRKR Customer Tie Breaker.	07	N	9(04)	36	39
LSS-DELIM126 Delimiter character which separates the key information.	07	C	X(01)	40	40
LSS-KEY13 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '13'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(02)	21	22
LSS-AFACCOUNT AIF Account Number.	07	N	9(18)	23	40
LSS-DELIM133 Delimiter character which separates the key information.	07	C	X(01)	41	41
LSS-AFAPPL AIF Application Code.	07	C	X(03)	42	44
LSS-DELIM134 Delimiter character which separates the key information.	07	C	X(01)	45	45
LSS-KEY14 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '14'.	05	G		21	52
LSS-CSLNM CIF Customer Last Name.	07	C	X(06)	21	26
LSS-DELIM142 Delimiter character which separates the key information.	07	C	X(01)	27	27
LSS-CSFNM CIF Customer First Name.	07	C	X(03)	28	30

Field Name	Level	Mode	Picture	Displacement	
LSS-DELIM143 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-CSMI CIF Customer Middle Name Initial.	07	C	X(01)	32	32
LSS-DELIM144 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-CSTIE CIF Customer Tie Breaker.	07	N	9(04)	34	37
LSS-DELIM145 Delimiter character which separates the key information.	07	C	X(01)	38	38
LSS-KEY15 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '15'.	05	G		21	52
LSS-ACCT15 Key 15 Account Number.	07	N	9(18)	21	38
LSS-DELIM152 Delimiter character which separates the key information.	07	C	X(01)	39	39
LSS-APPL15 Key 15 Application Code.	07	C	X(03)	40	42
LSS-DELIM153 Delimiter character which separates the key information.	07	C	X(01)	43	43
LSS-KEY18 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '18'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(02)	21	22
LSS-FORM Form Number.	07	C	X(03)	23	25
LSS-DELIM183 Delimiter character which separates the key information.	07	C	X(01)	26	26
LSS-SEARCH Search Code. Key or browse.	07	C	X(01)	27	27

Field Name	Level	Mode	Picture	Displacement	
LSS-DELIM184 Delimiter character which separates the key information.	07	C	X(01)	28	28
LSS-KEY19 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '19'.	05	G		21	52
LSS-BATNBR Batch Number.	07	N	9(09)	21	29
LSS-DELIM192 Delimiter Character.	07	C	X(01)	30	30
LSS-KEY30 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '30'.	05	G		21	52
LSS-OFF30 Key 30 Officer Code.	07	C	X(09)	21	29
LSS-DELIM302 Delimiter character which separates the key information.	07	C	X(01)	30	30
LSS-ACCT30 Key 30 Account Number.	07	N	9(18)	31	48
LSS-DELIM303 Delimiter character which separates the key information.	07	C	X(01)	49	49
LSS-KEY32 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '32'.	05	G		21	52
FILLER Not used. Blank filled.	07	C	X(02)	21	22
LSS-OFF32 KEY 32 Officer Code.	07	C	X(09)	23	31
LSS-DELIM323 Delimiter Character.	07	C	X(01)	32	32
LSS-KEY33 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '33'.	05	G		21	52
LSS-33FUNC Function Code.	07	C	X(01)	21	21

Field Name	Level	Mode	Picture	Displacement	
LSS-33DEL2 Delimiter which separates the key information.	07	C	X(01)	22	22
LSS-33ACCT Account Number.	07	N	9(16)	23	38
LSS-33DEL3 Delimiter which separates the key information.	07	C	X(01)	39	39
LSS-33APPL Application Code.	07	C	X(03)	40	42
LSS-33DEL4 Delimiter which separates the key information.	07	C	X(01)	43	43
LSS-OFF33 Key 33 Officer Code.	07	C	X(09)	44	52
LSS-KEY35 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '35'.	05	G		21	52
FILLER Field names from previous keys are used.	07	C	X(15)	21	35
LSS-TRSEQ35 Transaction Sequence Number.	07	N	9(09)	36	44
LSS-DELIM354 Delimiter character which separates the key information.	07	C	X(01)	45	45
LSS-KEY37 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '37'.	05	G		21	52
FILLER Not used. Blank filled.	07	C	X(02)	21	22
LSS-BATCHN KEY 37 Batch Number.	07	N	9(09)	23	31
LSS-DELIM373 Delimiter Character.	07	C	X(01)	32	32
LSS-KEY38 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '38'.	05	G		21	52

Field Name	Level	Mode	Picture	Displacement	
LSS-38FUNC Function Code.	07	C	X(01)	21	21
LSS-38DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-38CUST Customer Number.	07	N	9(10)	23	32
LSS-38DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-38BRANCH Institution Branch Number.	07	N	9(05)	34	38
LSS-38DEL4 Delimiter character which separates the key information.	07	C	X(01)	39	39
FILLER Not used.	07	C	X(13)	40	52
LSS-KEY39 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '39'.	05	G		21	52
LSS-39CUST Customer Number.	07	N	9(10)	21	30
LSS-39DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
FILLER Not used.	07	C	X(21)	32	52
LSS-KEY40 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '40'.	05	G		21	52
LSS-40FUNC Function Code.	07	C	X(01)	21	21
LSS-40DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-40ACCT Account Number.	07	N	9(10)	23	32

Field Name	Level	Mode	Picture	Displacement	
LSS-40DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-40BRANCH Institution Branch Number.	07	N	9(05)	34	38
LSS-40DEL4 Delimiter character which separates the key information.	07	C	X(01)	39	39
LSS-40TYPE Account Type.	07	N	9(03)	40	42
LSS-40DEL5 Delimiter character which separates the key information.	07	C	X(01)	43	43
FILLER Not used.	07	C	X(09)	44	52
LSS-KEY41 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '41'.	05	G		21	52
LSS-41FUNC Function Code.	07	C	X(01)	21	21
LSS-41DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-41ACCT Account Number.	07	N	9(10)	23	32
LSS-41DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
FILLER Not used.	07	C	X(19)	34	52
LSS-KEY42 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '42'.	05	G		21	52
LSS-42FUNC Function Code.	07	C	X(01)	21	21
LSS-42DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22

Field Name	Level	Mode	Picture	Displacement	
LSS-42CUST Customer Number.	07	N	9(10)	23	32
LSS-42DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
FILLER Not used.	07	C	X(19)	34	52
LSS-KEY43 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '43'.	05	G		21	52
LSS-43FUNC Function Code.	07	C	X(01)	21	21
LSS-43DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-43ACCT Account Number.	07	N	9(10)	23	32
LSS-43DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-43APPL Application Code.	07	C	X(03)	34	36
LSS-43DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-43BRANCH Institution Branch Number.	07	N	9(05)	38	42
LSS-43DEL5 Delimiter character which separates the key information.	07	C	X(01)	43	43
LSS-43TYPE Account Type.	07	N	9(03)	44	46
LSS-43DEL6 Delimiter character which separates the key information.	07	C	X(01)	47	47
FILLER Not used.	07	C	X(05)	48	52

Field Name	Level	Mode	Picture	Displacement	
LSS-KEY44 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '44'.	05	G		21	52
LSS-44ACCT Account Number.	07	N	9(10)	21	30
LSS-44DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-44DATE History or transaction history date. Format is MMY.	07	N	9(04)	32	35
LSS-44DEL3 Delimiter character which separates the key information.	07	C	X(01)	36	36
FILLER Not used.	07	C	X(16)	37	52
LSS-KEY45 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '45'.	05	G		21	52
LSS-45ACCT Account Number.	07	N	9(10)	21	30
LSS-45DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-45APPL Application Code.	07	C	X(03)	32	34
LSS-45DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-45DATE History or transaction history date. Format is MMY.	07	N	9(04)	36	39
LSS-45DEL4 Delimiter character which separates the key information.	07	C	X(01)	40	40
FILLER Not used.	07	C	X(12)	41	52
LSS-KEY46 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '46'.	05	G		21	52

Field Name	Level	Mode	Picture	Displacement	
LSS-46ACCT Account Number.	07	N	9(10)	21	30
LSS-46DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-46APPL Application Code.	07	C	X(03)	32	34
LSS-46DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-46DATE History or transaction history date. Format is MMYYY.	07	N	9(04)	36	39
LSS-46DEL4 Delimiter character which separates the key information.	07	C	X(01)	40	40
LSS-46SVCD Service code which identifies the service being provided.	07	N	9(03)	41	43
LSS-46DEL5 Delimiter character which separates the key information.	07	C	X(01)	44	44
FILLER Not used.	07	C	X(08)	45	52
LSS-KEY47 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '47'.	05	G		21	52
LSS-47FUNC Function Code.	07	C	X(01)	21	21
LSS-47DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-47APPL Application Code.	07	C	X(03)	23	25
LSS-47DEL3 Delimiter character which separates the key information.	07	C	X(01)	26	26
FILLER Not used.	07	C	X(26)	27	52

Field Name	Level	Mode	Picture	Displacement	
LSS-KEY48 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '48'.	05	G		21	52
LSS-48FUNC Function Code.	07	C	X(01)	21	21
LSS-48DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-48ACCT Account Number.	07	N	9(10)	23	32
LSS-48DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-48APPL Application Code.	07	C	X(03)	34	36
LSS-48DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-48TYPE Account Type.	07	N	9(03)	38	40
LSS-48DEL5 Delimiter character which separates the key information.	07	C	X(01)	41	41
FILLER Not used.	07	C	X(11)	42	52
LSS-KEY49 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '49'.	05	G		21	52
LSS-49ACCT Account Number.	07	N	9(10)	21	30
LSS-49DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-49APPL Application Code.	07	C	X(03)	32	34
LSS-49DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35

Field Name	Level	Mode	Picture	Displacement	
LSS-49FUNC Function Code.	07	C	X(01)	36	36
LSS-49DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-49BRANCH History or transaction history date. Format is MMY Y.	07	N	9(05)	38	42
LSS-49DEL5 Delimiter character which separates the key information.	07	C	X(01)	43	43
LSS-49TYPE Account Type.	07	N	9(03)	44	46
LSS-49DEL6 Delimiter character which separates the key information.	07	C	X(01)	47	47
FILLER Not used.	07	C	X(05)	48	52
LSS-KEY50 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '50'.	05	G		21	52
LSS-50ACCT Account Number.	07	N	9(10)	21	30
LSS-50DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-50APPL Application Code.	07	C	X(03)	32	34
LSS-50DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-50FUNC Function Code.	07	C	X(01)	36	36
LSS-50DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-50DATE History or transaction history date. Format is MMY Y.	07	N	9(04)	38	41

Field Name	Level	Mode	Picture	Displacement	
LSS-50DEL5 Delimiter character which separates the key information.	07	C	X(01)	42	42
LSS-50SCRN Screen.	07	N	9(02)	43	44
LSS-50DEL6 Delimiter character which separates the key information.	07	C	X(01)	45	45
LSS-50TYPE Account Type.	07	N	9(03)	46	48
LSS-50DEL7 Delimiter character which separates the key information.	07	C	X(01)	49	49
FILLER Not used.	07	C	X(03)	50	52
LSS-KEY51 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '51'.	05	G		21	52
LSS-51ACCT Account Number.	07	N	9(10)	21	30
LSS-51DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-51APPL Application Code.	07	C	X(03)	32	34
LSS-51DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-51FUNC Function Code.	07	C	X(01)	36	36
LSS-51DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-51TYPE Account Type.	07	N	9(03)	38	40
LSS-51DEL5 Delimiter character which separates the key information.	07	C	X(01)	41	41

Field Name	Level	Mode	Picture	Displacement	
LSS-51PLIST Price List.	07	N	9(02)	42	43
LSS-51DEL6 Delimiter character which separates the key information.	07	C	X(01)	44	44
LSS-51SVCD Service code which identifies the service being provided.	07	N	9(03)	45	47
LSS-51DEL7 Delimiter character which separates the key information.	07	C	X(01)	48	48
FILLER Not used.	07	C	X(04)	49	52
LSS-KEY52 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '52'.	05	G		21	52
LSS-52ACCT Account Number.	07	N	9(10)	21	30
LSS-52DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-52APPL Application Code.	07	C	X(03)	32	34
LSS-52DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-52FUNC Function Code.	07	C	X(01)	36	36
LSS-52DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-52TC Transaction Code.	07	C	X(01)	38	38
LSS-52DEL5 Delimiter character which separates the key information.	07	C	X(01)	39	39
FILLER Not used.	07	C	X(13)	40	52

Field Name	Level	Mode	Picture	Displacement	
LSS-KEY53 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '53'.	05	G		21	52
LSS-53APPL Application Code.	07	C	X(03)	21	23
LSS-53DEL2 Delimiter character which separates the key information.	07	C	X(01)	24	24
FILLER Not used.	07	C	X(28)	25	52
LSS-KEY54 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '54'.	05	G		21	52
LSS-54ACCT Account Number.	07	N	9(10)	21	30
LSS-54DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-54APPL Application Code.	07	C	X(03)	32	34
LSS-54DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
FILLER Not used.	07	C	X(17)	36	52
LSS-KEY55 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '55'.	05	G		21	52
LSS-55FUNC Function Code.	07	C	X(01)	21	21
LSS-55DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-55RTNBR Routing and Transit Number.	07	N	9(09)	23	31
LSS-55DEL3 Delimiter character which separates the key information.	07	C	X(01)	32	32

Field Name	Level	Mode	Picture	Displacement	
LSS-55SEQNBR Sequence Number.	07	N	9(04)	33	36
LSS-55DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
FILLER Not used.	07	C	X(15)	38	52
LSS-KEY56 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '56'.	05	G		21	52
LSS-56OFFICER Officer Code.	07	C	X(09)	21	29
LSS-56DEL2 Delimiter character which separates the key information.	07	C	X(01)	30	30
LSS-56ACCT Account Number.	07	N	9(10)	31	40
LSS-56DEL3 Delimiter character which separates the key information.	07	C	X(01)	41	41
LSS-56APPL Application Code.	07	C	X(03)	42	44
LSS-56DEL4 Delimiter character which separates the key information.	07	C	X(01)	45	45
FILLER Not used.	07	C	X(07)	46	52
LSS-KEY57 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '57'.	05	G		21	52
LSS-57APPL Application Code.	07	C	X(03)	21	23
LSS-57DEL2 Delimiter character which separates the key information.	07	C	X(01)	24	24
LSS-57CTLACC Control Access Code.	07	C	X(09)	25	33

Field Name	Level	Mode	Picture	Displacement	
LSS-57DEL3 Delimiter character which separates the key information.	07	C	X(01)	34	34
FILLER Not used.	07	C	X(18)	35	52
LSS-KEY58 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '58'.	05	G		21	52
LSS-58ACCT Account Number.	07	N	9(10)	21	30
LSS-58DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
LSS-58APPL Application Code.	07	C	X(03)	32	34
LSS-58DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-58DATE Date. Month/year (MMYY) format.	07	N	9(04)	36	39
LSS-58DEL4 Delimiter character which separates the key information.	07	C	X(01)	40	40
LSS-58SVCD4 Service code which identifies the service being performed.	07	N	9(04)	41	44
LSS-58DEL5 Delimiter character which separates the key information.	07	C	X(01)	45	45
FILLER Not used.	07	C	X(07)	46	52
LSS-KEY59 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '59'.	05	G		21	52
LSS-59ACCT Account Number.	07	N	9(10)	21	30
LSS-59DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31

Field Name	Level	Mode	Picture	Displacement	
LSS-59APPL Application Code.	07	C	X(03)	32	34
LSS-59DEL3 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-59FUNC Function Code.	07	C	X(01)	36	36
LSS-59DEL4 Delimiter character which separates the key information.	07	C	X(01)	37	37
LSS-59TYPE Account Type.	07	N	9(03)	38	40
LSS-59DEL5 Delimiter character which separates the key information.	07	C	X(01)	41	41
LSS-59PLIST Price List Code.	07	N	9(02)	42	43
LSS-59DEL6 Delimiter character which separates the key information.	07	C	X(01)	44	44
LSS-59SVCD4 Service code which identifies the service being performed.	07	N	9(04)	45	48
LSS-59DEL7 Delimiter character which separates the key information.	07	C	X(01)	49	49
FILLER Not used.	07	C	X(03)	50	52
LSS-KEY60 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '60'.	05	G		21	52
LSS-60FUNC Function Code.	07	C	X(01)	21	21
LSS-60DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-60BRANCH Branch Number.	07	N	9(03)	23	25

Field Name	Level	Mode	Picture	Displacement	
LSS-60DEL3 Delimiter character which separates the key information.	07	C	X(01)	26	26
LSS-60CLASS Class Code.	07	N	9(03)	27	29
LSS-60DEL4 Delimiter character which separates the key information.	07	C	X(01)	30	30
LSS-60LOAN Loan Number.	07	N	9(11)	31	41
LSS-60DEL5 Delimiter character which separates the key information.	07	C	X(01)	42	42
FILLER Not used.	07	C	X(10)	43	52
LSS-KEY61 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '61'.	05	G		21	52
LSS-61NAME Customer Name.	07	C	X(14)	21	34
LSS-61DEL2 Delimiter character which separates the key information.	07	C	X(01)	35	35
FILLER Not used.	07	C	X(17)	36	52
LSS-KEY62 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '62'.	05	G		21	52
LSS-62FUNC Function Code.	07	C	X(01)	21	21
LSS-62DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-62BATCH Batch Number.	07	N	9(03)	23	25
LSS-62DEL3 Delimiter character which separates the key information.	07	C	X(01)	26	26

Field Name	Level	Mode	Picture	Displacement	
LSS-62TRANS Transaction Code.	07	N	9(05)	27	31
LSS-62DEL4 Delimiter character which separates the key information.	07	C	X(01)	32	32
LSS-62BRANCH Branch Number.	07	N	9(03)	33	35
LSS-62DEL5 Delimiter character which separates the key information.	07	C	X(01)	36	36
LSS-62DATE Date. Format is MMDDYY.	07	N	9(06)	37	42
LSS-62DEL6 Delimiter character which separates the key information.	07	C	X(01)	43	43
LSS-62SEQNBR Sequence Number.	07	N	9(09)	44	52
LSS-KEY63 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '63'.	05	G		21	52
LSS-63DEALER Dealer Number.	07	N	9(05)	21	25
LSS-63DEL2 Delimiter character which separates the key information.	07	C	X(01)	26	26
FILLER Not used.	07	C	X(26)	27	52
LSS-KEY64 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '64'.	05	G		21	52
LSS-64FUNC Function Code.	07	C	X(01)	21	21
LSS-64DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-64BRANCH Branch Number.	07	N	9(04)	23	26

Field Name	Level	Mode	Picture	Displacement	
LSS-64DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
LSS-64ACCT Account Number.	07	N	9(07)	28	34
LSS-64DEL4 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-64COMMTMNT Commitment Number.	07	N	9(03)	36	38
LSS-64DEL5 Delimiter character which separates the key information.	07	C	X(01)	39	39
LSS-64NOTE Note Number.	07	N	9(06)	40	45
LSS-64DEL6 Delimiter character which separates the key information.	07	C	X(01)	46	46
LSS-64PARTCPTN Participation Number.	07	N	9(03)	47	49
LSS-64DEL7 Delimiter character which separates the key information.	07	C	X(01)	50	50
FILLER Not used.	07	C	X(02)	51	52
LSS-KEY65 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '65'.	05	G		21	52
LSS-65FUNC Function Code.	07	C	X(01)	21	21
LSS-65DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-65BRANCH Branch Number.	07	N	9(04)	23	26
LSS-65DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27

Field Name	Level	Mode	Picture	Displacement	
LSS-65ACCT Account Number.	07	N	9(07)	28	34
LSS-65DEL4 Delimiter character which separates the key information.	07	C	X(01)	35	35
FILLER Not used.	07	C	X(17)	36	52
LSS-KEY66 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '66'.	05	G		21	52
LSS-66FUNC Function Code.	07	C	X(01)	21	21
LSS-66DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-66BRANCH Branch Number.	07	N	9(04)	23	26
LSS-66DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
LSS-66ACCT Account Number.	07	N	9(07)	28	34
LSS-66DEL4 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-66COMMTMNT Commitment Number.	07	N	9(03)	36	38
LSS-66DEL5 Delimiter character which separates the key information.	07	C	X(01)	39	39
FILLER Not used.	07	C	X(13)	40	52
LSS-KEY67 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '67'.	05	G		21	52
LSS-67FUNC Function Code.	07	C	X(01)	21	21

Field Name	Level	Mode	Picture	Displacement	
LSS-67DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-67BRANCH Branch Number.	07	N	9(04)	23	26
LSS-67DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
LSS-67ACCT Account Number.	07	N	9(07)	28	34
LSS-67DEL4 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-67COMMTMNT Commitment Number.	07	N	9(03)	36	38
LSS-67DEL5 Delimiter character which separates the key information.	07	C	X(01)	39	39
LSS-67NOTE Note Number.	07	N	9(06)	40	45
LSS-67DEL6 Delimiter character which separates the key information.	07	C	X(01)	46	46
FILLER Not used.	07	C	X(06)	47	52
LSS-KEY68 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '68'.	05	G		21	52
LSS-68FUNC Function Code.	07	C	X(01)	21	21
LSS-68DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-68BRANCH Branch Number.	07	N	9(04)	23	26
LSS-68DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27

Field Name	Level	Mode	Picture	Displacement	
LSS-68ACCT Account Number.	07	N	9(07)	28	34
LSS-68DEL4 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-68COMMTMNT Commitment Number.	07	N	9(03)	36	38
LSS-68DEL5 Delimiter character which separates the key information.	07	C	X(01)	39	39
LSS-68NOTE Note Number.	07	N	9(06)	40	45
LSS-68DEL6 Delimiter character which separates the key information.	07	C	X(01)	46	46
LSS-68ENTRY Entry Number.	07	N	9(03)	47	49
LSS-68DEL7 Delimiter character which separates the key information.	07	C	X(01)	50	50
FILLER Not used.	07	C	X(02)	51	52
LSS-KEY69 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '69'.	05	G		21	52
LSS-69FUNC Function Code.	07	C	X(01)	21	21
LSS-69DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-69BRANCH Branch Number.	07	N	9(04)	23	26
LSS-69DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
LSS-69ACCT Account Number.	07	N	9(07)	28	34

Field Name	Level	Mode	Picture	Displacement	
LSS-69DEL4 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-69COMMTMNT Commitment Number.	07	N	9(03)	36	38
LSS-69DEL5 Delimiter character which separates the key information.	07	C	X(01)	39	39
LSS-69NOTE Note Number.	07	N	9(06)	40	45
LSS-69DEL6 Delimiter character which separates the key information.	07	C	X(01)	46	46
LSS-69BATCH Batch Number.	07	N	9(05)	47	51
LSS-69DEL7 Delimiter character which separates the key information.	07	C	X(01)	52	52
LSS-KEY70 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '70'.	05	G		21	52
LSS-70FUNC Function Code.	07	C	X(01)	21	21
LSS-70DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-70BANK Institution Number.	07	N	9(04)	23	26
LSS-70DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
FILLER Not used.	07	C	X(25)	28	52
LSS-KEY71 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '71'.	05	G		21	52
LSS-71FUNC Function Code.	07	C	X(01)	21	21

Field Name	Level	Mode	Picture	Displacement	
LSS-71DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-71OFFICER Officer Code.	07	C	X(09)	23	31
LSS-71DEL3 Delimiter character which separates the key information.	07	C	X(01)	32	32
FILLER Not used.	07	C	X(20)	33	52
LSS-KEY72 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '72'.	05	G		21	52
LSS-72FUNC Function Code.	07	C	X(01)	21	21
LSS-72DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-72PROPERTY Property Identification Code.	07	C	X(10)	23	32
LSS-72DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-72BRANCH Branch Number.	07	N	9(04)	34	37
LSS-72DEL4 Delimiter character which separates the key information.	07	C	X(01)	38	38
FILLER Not used.	07	C	X(14)	39	52
LSS-KEY73 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '73'.	05	G		21	52
LSS-73FUNC Function Code.	07	C	X(01)	21	21
LSS-73DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22

Field Name	Level	Mode	Picture	Displacement	
LSS-73BRANCH Branch Number.	07	N	9(04)	23	26
LSS-73DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
FILLER Not used.	07	C	X(25)	28	52
LSS-KEY74 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '74'.	05	G		21	52
LSS-74FUNC Function Code.	07	C	X(01)	21	21
LSS-74DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-74GROUPID Group Number. User-defined identifier for grouping batches.	07	C	X(04)	23	26
LSS-74DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
FILLER Not used.	07	C	X(25)	28	52
LSS-KEY75 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '75'.	05	G		21	52
LSS-75FUNC Function Code.	07	C	X(01)	21	21
LSS-75DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-75BATCH Batch Number.	07	N	9(05)	23	27
LSS-75DEL3 Delimiter character which separates the key information.	07	C	X(01)	28	28
FILLER Not used.	07	C	X(24)	29	52

Field Name	Level	Mode	Picture	Displacement	
LSS-KEY76 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '76'.	05	G		21	52
LSS-76FUNC Function Code.	07	C	X(01)	21	21
LSS-76DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-76BRANCH Branch Number.	07	N	9(04)	23	26
LSS-76DEL3 Delimiter character which separates the key information.	07	C	X(01)	27	27
LSS-76ACCT Account Number.	07	N	9(07)	28	34
LSS-76DEL4 Delimiter character which separates the key information.	07	C	X(01)	35	35
LSS-76MONTH Month.	07	N	9(02)	36	37
LSS-76DEL5 Delimiter character which separates the key information.	07	C	X(01)	38	38
LSS-76YEAR Year.	07	N	9(02)	39	40
LSS-76DEL6 Delimiter character which separates the key information.	07	C	X(01)	41	41
FILLER Not used.	07	C	X(11)	42	52
LSS-KEY77 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '77'.	05	G		21	52
LSS-77BRANCH Branch Number.	07	N	9(03)	21	23
LSS-77DEL2 Delimiter character which separates the key information.	07	C	X(01)	24	24

Field Name	Level	Mode	Picture	Displacement	
FILLER Not used.	07	C	X(28)	25	52
LSS-KEY78 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '78'.	05	G		21	52
LSS-78CLASS Class Number.	07	N	9(03)	21	23
LSS-78DEL2 Delimiter character which separates the key information.	07	C	X(01)	24	24
FILLER Not used.	07	C	X(28)	25	52
LSS-KEY79 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '79'.	05	G		21	52
LSS-79FUNC Function Code.	07	C	X(01)	21	21
LSS-79DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-79EMPLYRNBR Employer Number.	07	N	9(10)	23	32
LSS-79DEL3 Delimiter character which separates the key information.	07	C	X(01)	33	33
LSS-79BRANCH Branch Number.	07	N	9(04)	34	37
LSS-79DEL4 Delimiter character which separates the key information.	07	C	X(01)	38	38
FILLER Not used.	07	C	X(14)	39	52
LSS-KEY80 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '80'.	05	G		21	52
LSS-80EMPLYRNBR Employer Number.	07	N	9(10)	21	30

Field Name	Level	Mode	Picture	Displacement	
LSS-80DEL2 Delimiter character which separates the key information.	07	C	X(01)	31	31
FILLER Not used.	07	C	X(21)	32	52
LSS-KEY81 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '81'.	05	G		21	52
LSS-81FUNC Function Code.	07	C	X(01)	21	21
LSS-81DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-81BRANCH Branch Number.	07	N	9(03)	23	25
LSS-81DEL3 Delimiter character which separates the key information.	07	C	X(01)	26	26
LSS-81CLASS Class Number.	07	N	9(03)	27	29
LSS-81DEL4 Delimiter character which separates the key information.	07	C	X(01)	30	30
LSS-81LOAN Loan Number.	07	N	9(11)	31	41
LSS-81DEL5 Delimiter character which separates the key information.	07	C	X(01)	42	42
LSS-81ADDRTP Address Type.	07	C	X(01)	43	43
LSS-81DEL6 Delimiter character which separates the key information.	07	C	X(01)	44	44
LSS-81SEQNBR Sequence Number.	07	N	9(04)	45	48
LSS-81DEL7 Delimiter character which separates the key information.	07	C	X(01)	49	49

Field Name	Level	Mode	Picture	Displacement	
FILLER Not used.	07	C	X(03)	50	52
LSS-KEY82 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '82'.	05	G		21	52
LSS-82FUNC Function Code.	07	C	X(01)	21	21
LSS-82DEL2 Delimiter character which separates the key information.	07	C	X(01)	22	22
LSS-82ACCT Account Number.	07	N	9(16)	23	38
LSS-82DEL3 Delimiter character which separates the key information.	07	C	X(01)	39	39
LSS-82APPL Application Code.	07	C	X(03)	40	42
LSS-82DEL4 Delimiter character which separates the key information.	07	C	X(01)	43	43
LSS-82TYPE Type Number.	07	N	9(03)	44	46
LSS-82DEL5 Delimiter character which separates the key information.	07	C	X(01)	47	47
FILLER Not used.	07	C	X(05)	48	52
LSS-KEY83 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '83'.	05	G		21	52
LSS-83FUNC Function Code.	07	C	X(01)	21	21
LSS-83DEL2 Delimiter character that separates the key information.	07	C	X(01)	22	22
LSS-83RATEP Rate Plan.	07	C	X(04)	23	26

Field Name	Level	Mode	Picture	Displacement	
LSS-83DEL3 Delimiter character that separates the key information.	07	C	X(01)	27	27
FILLER Not used.	07	C	X(25)	28	52
LSS-KEY84 REDEFINES LSS-DATA. Used when a transaction key contains an entry edit code of '84'.	05	G		21	52
LSS-84BRANCH Branch Number.	07	N	9(05)	21	25
LSS-84DEL2 Delimiter which separates the key information.	07	C	X(01)	26	26
LSS-84ENDPOINT Endpoint Number.	07	N	9(05)	27	31
LSS-84DEL3 Delimiter which separates the key information.	07	C	X(01)	32	32
FILLER Not used.	07	C	X(20)	33	52
LSS-PFKEYL Field Length of the Function Key.	03	B	S9(04)	53	54
LSS-PFKEYA Attribute byte of the Function Key.	03	C	X(01)	55	55
LSS-PFKEY Program Function Key.	03	C	X(02)	56	57
LSS-MSGL Message Area Field Length.	03	B	S9(04)	58	59
LSS-MSGA Attribute byte of the message area.	03	C	X(01)	60	60
LSS-MSGX Panel Message Area.	03	G		61	98
LSS-MSG Panel Message Area. Area that appears on the panel.	05	C	X(37)	61	97

Field Name	Level	Mode	Picture	Displacement	
FILLER Not used.	05	C	X(01)	98	98
LSS-BKNBRL Field length of the Institution Number field.	03	B	S9(04)	99	100
LSS-BKNBRA Attribute byte of the Institution Number field.	03	C	X(01)	101	101
LSS-BKNBR Institution Number Field.	03	N	9(03)	102	104
LSS-BKNAMEL Field length of the Institution Name field.	03	B	S9(04)	105	106
LSS-BKNAMEA Attribute byte of the Institution Name field.	03	C	X(01)	107	107
LSS-BKNAME Institution Name Field.	03	C	X(45)	108	152
LSS-OPERIDL Field length of the Operator Identification field.	03	B	S9(04)	153	154
LSS-OPERIDA Attribute byte of the Operator Identification field.	03	C	X(01)	155	155
LSS-OPERID Operator Identification Field.	03	C	X(04)	156	159
LSS-TRANSIDL Field length of the Transaction Identification field.	03	B	S9(04)	160	161
LSS-TRANSIDA Attribute byte of the Transaction Identification field.	03	C	X(01)	162	162
LSS-TRANSID Transaction Identification Field.	03	C	X(04)	163	166
LSS-CURDATEL Field length of the Current Date field.	03	B	S9(04)	167	168
LSS-CURDATEA Attribute byte of the Current Date field.	03	C	X(01)	169	169

Field Name	Level	Mode	Picture	Displacement	
LSS-CURDATE Current Date Field.	03	C	X(10)	170	179

LS-SCRNAREA – Standard Screen Heading Area

The same first 2 lines are used at the top of all panels. The first line consists of the transaction code, key information, and an area to designate the selection of the function key for those terminals that do not have function keys. In certain programs, special options can be chosen by using the function keys. A detailed explanation of their use is found in the Procedures chapter of MICM *Procedures Guide 2*.

The second line contains the institution number and name, internal transaction identification, operator identification, and date.

The following is the record layout used to define these 2 lines for Infopoint panels. Copybook is SLS105.

Field Name	Level	Mode	Picture	Displacement	
LS-SCRNAREA Standard working storage panel heading area.	01	R		1	181
FILLER Reserved for CICS.	03	C	X(12)	1	12
LSS-NEXTKEYL Field length of the next key area.	03	B	S9(04)	13	14
LSS-NEXTKEYA Attribute byte of the next key area.	03	C	X(01)	15	15
LSS-NEXTKEY Next key to be processed using F4.	03	G		16	91
LSS-EXTID External Transaction.	05	C	X(04)	16	19
LSS-DELIM1 Delimiter character which separates the key information.	05	C	X(01)	20	20
LSS-DATA Transaction Key Area.	05	C	X(71)	21	91
LSS-PFKEYL Field Length of the Function Key field.	03	B	S9(04)	92	93

Field Name	Level	Mode	Picture	Displacement	
LSS-PFKEYA Attribute Byte of the Function Key field.	03	C	X(01)	94	94
LSS-PFKEY Program Function Key Field.	03	C	X(02)	95	96
LSS-BKNBRL Field length of the Institution Number field.	03	B	S9(04)	97	98
LSS-BKNBRA Attribute byte of the Institution Number field.	03	C	X(01)	99	99
LSS-BKNBR Institution Number Field.	03	N	9(03)	100	102
LSS-BKNAMEL Field length of the Institution Name field.	03	B	S9(04)	103	104
LSS-BKNAMEA Attribute byte of the Institution Name field.	03	C	X(01)	105	105
LSS-BKNAME Institution Name field.	03	C	X(45)	106	150
LSS-OPERIDL Field length of the Operator Identification field.	03	B	S9(04)	151	152
LSS-OPERIDA Attribute byte of the Operator Identification field.	03	C	X(01)	153	153
LSS-OPERID Operator Identification Field.	03	C	X(08)	154	161
LSS-TRANSIDL Field length of the Transaction Identification field.	03	B	S9(04)	162	163
LSS-TRANSIDA Attribute byte of the Transaction Identification field.	03	C	X(01)	164	164
LSS-TRANSID Transaction Identification Field.	03	C	X(04)	165	168
LSS-CURDATEL Field length of the Current Date field.	03	B	S9(04)	169	170

Field Name	Level	Mode	Picture	Displacement	
LSS-CURDATEA Attribute byte of the Current Date field.	03	C	X(01)	171	171
LSS-CURDATE Current Date Field.	03	C	X(10)	172	181

MIAME – Application Management User Exit Area

The copybook name is MISAME. It must be in the working storage section.

Field Name	Level	Mode	Picture	Displacement	
MIAME-WORK-AREAS Application Management User Exit Area.	03	G		1	1104
MIAME-INST Institution Number.	05	N	9(04)	1	4
MIAME-EDIT-ONLY Edit Only Indicator.	05	C	X(01)	5	5
MIAME-BATCH-OL Batch or Online Indicator.	05	C	X(01)	6	6
MIAME-CLOSE-FILE Closed File Indicator.	05	C	X(01)	7	7
MIAME-AMTTKEY Application Management Table Key.	05	G		8	12
MIAME-RECCD Record Code. Application Management Table record code. (For example, 'ASK' is the code for the MICM Ask Infopoint Record.)	07	C	X(03)	8	10
MIAME-APPLCD Application Code. Application Management Table application code. (For example, 'Mb' is the code for MICM).	07	C	X(02)	11	12
MIAME-ERRORS Error. A Y is set into this field if there are any editing errors detected.	05	C	X(01)	13	13
MIAME-ERRORINDRG Error Indicators Group.	05	G		14	1012
MIAME-ERRORINDR Error Indicators. OCCURS 999 TIMES. If the caller sets any of these indicators to an E or B, editing is bypassed for that field. Programs will set the following values when there are editing errors. E Failed edit. M Failed missing test.	07	C	X(01)	14	1012
MIAME-FOPTSUB File Option Subscript. Valid entries are 00 – 25. 00 indicates to use the null file. Entries of 01 – 25 are used to access different manager files. The character used is taken from COM-FILOPT. Refer to the Operator/Profile Record for more information.	05	B	S9(02)	1013	1014

Field Name	Level	Mode	Picture	Displacement	
MIAME-RECORD-WRITE Record Write Indicator.	05	C	X(01)	1015	1015
MIAME-LANG Language Code. Valid entries are defined on MICM Record 2022 (Valid Language Code Table Record). Codes that can be used are indicated with 'Y' in the Usage field.	05	C	X(02)	1016	1017
MIAME-DISPLAY Display Indicator.	05	C	X(01)	1018	1018
MIAME-PAN-NAME Panel Name.	05	C	X(08)	1019	1026
MIAME-WHO-LINKED Who Linked Indicator. An entry of IQ indicates that the link was from IQ.	05	C	X(02)	1027	1028
MIAME-FILLER Not used.	05	C	X(76)	1029	1104

MIAMT01 – MIL716/MIB716 Function Message Area Control Block

This block is used as the first and only parameter in the call statement. The copybook name is MISAMT01. It must be in the working storage section of a calling program that is calling MIB716. For program MIL716 it is used as the communication area in the EXEC CICS LINK command.

Field Name	Level	Mode	Picture	Displacement	
MIAMT01-EDITAREA Function Message Area Control Block.	01	R		1	18046
MIAMT01-ABORT-AREA The abort area contains both abort information form program MBL716 or MIL716, and information supplied by the caller.	03	G		1	54
MIAMT01-DATE Current Date. Contains the current date supplied by the caller. It is used with the date edit routines.	05	B	9(09)	1	4
MIAMT01-ABORT Abort Code. The abort code issued by program MBL716 or MIL716.	05	B	S9(04)	5	6
MIAMT01-ABTRACE Abort Trace Number. The program trace number issued by program MBL716 or MIL716.	05	B	S9(04)	7	8
MIAMT01-ABEIBFN Contains a code that identifies the last CICS command to be issued when an abort condition has occurred in program MIL716.	05	C	X(02)	9	10
MIAMT01-ABEIBRCODE Contains the CICS response code returned when an abort condition has occurred in program MIL716.	05	C	X(06)	11	16
MIAMT01-ABPROGID Program ID. ID of the program that initiated the abort.	05	C	X(08)	17	24
MIAMT01-FILEOPTS File Options. This field is supplied by the caller and, for online it is found in COM-FILEOPTS, and for batch is found in control cards.	05	C	X(25)	25	49
MIAMT01-LANG Language Code. Valid entries are defined on MICM Record 2022 (Valid Language Code Table Record). Codes that can be used are indicated with 'Y' in the Usage field. This field is supplied by the caller and, for online it is found in COM-LANG, and for batch is found in MICM Record 1001.	05	C	X(02)	50	51
MIAMT01-MISSING-TEST Missing Test. A Y in this field indicates that the 'field missing test' is to be performed. The missing test checks the field for spaces and if it is equal the MIAMT01-ERRORINDR (WS-FLDNBR) is set to 'M'.	05	C	X(01)	52	52

Field Name	Level	Mode	Picture	Displacement	
MIAMT01-LEADING-TEST	05	C	X(01)	53	53
Leading Test. A Y in this field indicates that the 'leading spaces test' is to be performed. The leading test, check the field for leading spaces and replaces them with zeros. This option is only performed on numeric fields.					
MIAMT01-ABORT-OPT	05	C	X(01)	54	54
Abort Option. A Y in this field indicates that the 'abort return' is to be performed. The abort return is an option in program MIB716 to return to the caller when an abort condition has occurred. The abort code is set in field MIAAMT01-ABORT.					
MIAMT01-WORK-AREAS	03	G		55	17974
Other fields.					
MIAMT01-INST	05	N	9(04)	55	58
Institution Number. This field is to be supplied by the caller.					
MIAMT01-AMTT-KEY	05	G		59	64
Record Key of the Application Management Table record. This field is to be supplied by the caller.					
MIAMT01-RECCD	07	C	X(03)	59	61
Record Code. Application Management Table record code. (For example, 'ASK' is the code for the MICM Ask Infopoint Record.)					
MIAMT01-APPLCD	07	C	X(02)	62	63
Application Code. Application Management Table application code. (For example, 'MB' is the code for MICM).					
MIAMT01-ERRORS	05	C	X(01)	64	64
A 'Y' is set into this field if there are any editing errors detected.					
MIAMT01-ERRORINDRG		G		65	1063
Error Indicators Group.					
MIAMT01-ERRORINDR	07	C	X(01)	65	1063
Error indicators occurring 999 times. If the caller sets any of these indicators to an E 'or' B', editing is by passed for that field. Programs will set the following values when there are editing errors.					
E Failed edit.					
M Failed missing test.					
MIAMT01-FLDNAMEG	03	G		1064	16048
Field Names Group. Programs MIL716 or MIB716 populate this field.					
MIAMT01-FLDNAME	03	G		1064	16048
Field Names, occurring 999 times. These are the field names defined on the Application Table.					

Field Name	Level	Mode	Picture	Displacement
MIAMT01-ECDG	05	G		16049 18046
Field Edit Codes Group. Programs MIL716 or MIB716 populate this field.				
MIAMT01-ECD	07	N	9(02)	16049 18046
Field Edit Codes. OCCURS 999 TIMES. These are the field edit codes defined on the Application Table.				

MIBEM-AREA – Event Manager Message Processor Call Block

This block is used as the first parameter in the call statement when calling program MIB780. When linking to program MIL780, the address of this call block must be in the first 4 positions of the communication area used in the EXEC CICS LINK command. The copybook name is MISBEM.

Field Name	Level	Mode	Picture	Displacement	
MIBEM-AREA Event Manager Message Processor Call Block.	01	G		1	140
MIBEM-TAG Valid entry is **MIEM** .	03	C	X(08)	1	8
MIBEM-STAT Status of Event Message Processor After a Call. Valid entries are: 00 Processing successful and event message has been formatted. 23 No fields have changed in the before/after images or no Event fields exist (AMT User Code with the code of 'E', 'N' or 'S') where found on the AMT. 98 An error has occurred in MICM processing. 99 An API error has occurred.	03	C	X(02)	9	10
MIBEM-API-STAT Application Program Interface Status Code. API Status Code when MIBEM-STAT is equal to '99'.	03	C	X(02)	11	12
MIBEM-API-RETURN Application Program Interface Return Code. API Return Code when MIBEM-STAT is equal to '99'.	03	N	9(04)	13	16
MIBEM-MICM-PROG-ID MICM Abort Program Name. Name of the program that issued the abort when MIBEM-STAT is equal to '98'.	03	C	X(08)	17	24
MIBEM-MICM-Abort MICM Abort Code. Abort codes issued by MIBEM-MICM-POOG-ID when MIBEM-STAT is equal to '98'.	03	N	9(04)	25	28
MIBEM-MICM-TRACE MICM Trace Code. Trace codes issued by MIBEM-MICM-PROG-ID when MIBEM-STAT is equal to '98'. This is used as a locator in the source code for the programmer. To locate the area of code that issued the abort, edit the program and look for WS-TRtttt where tttt is the trace number.	03	N	9(04)	29	32
MIBEM-EIB-RESP EXEC Interface Block Response Code. Number corresponding to the RESP condition that occurred at the time of the abort. These numbers are listed in the CICS <i>Application Programming Reference Guide</i> .	03	B	S9(08)	33	36
MIBEM-EIB-RESP2	03	B	S9(08)	37	40

Field Name	Level	Mode	Picture	Displacement	
EXEC Interface Block Response 2 Code. This field contains more detailed information that may help explain why the RESP condition occurred at the time of the abort. This field contains meaningful values as documented with each command to which it applies. This information is found in the CICS <i>Application Programming Reference Guide</i> .					
MIBEM-AMT-REC-ID	03	C	X(03)	41	43
Application Management Record Identification. This is the record code used to retrieve the AMT record for this request. This is field supplied by caller. If the MIBEM-AMT-APPL is blank, this field contains the API Record ID.					
MIBEM-AMT-APPL	03	C	X(02)	44	45
Application Management Application Identification. This is the application code used to retrieve the AMT record for this request. If this field is blank, the MIBEM-AMT-REC-ID field is used to contain the API Record ID and will perform a lookup to get correct MIBEM-AMT-REC-ID and MIBEM-AMT-APPL. This is field supplied by caller.					
MIBEM-FUNC	03	C	X(01)	46	46
MICM Event Message Processor Record Function. This field indicates the function to be performed and determines which images are passed to the called program. This is field supplied by caller. Valid entries are:					
A Record added. Only the before image is passed.					
D Record deleted. Only the after image is passed.					
M Record modified. Both the before and after images are passed.					
FILLER	03	C	X(78)	47	124
Reserved.					
MIBEM-NBR-FIELDS	03	N	9(04)	125	128
Number of Fields. Number of fields included in the Event Message.					
MIBEM-MESSAGE-LGTH	03	N	9(08)	129	136
Event Message Length. Length of the Event Message that was created.					
MIBEM-MESSAGE-ADDR	03	B	POINTER	137	140
Event Message Address. Storage address where the Event Message is located.					

MICM Retrieval Block

MIWLOGL-AREA – Log Retrieval Block

This block is used as the first and only parameter in the call statement. The copybook name is MIWLOGL. It must be in the working storage section of a calling program that is calling MIB700.

Field Name	Level	Mode	Picture	Displacement	
MIWLOG-AREA Log Retrieval Communication Area.	01	R		1	22442
MILOGL-REC-ID Log Record Identification. Record code of the Log Record which the Database Server uses in the I-O Request. (For example, 'OAJ0' is the code for MICM's Log.) This is a required field and must be loaded by the calling program.	03	C	X(04)	01	04
MILOGL-APPL-ID Application Identification. API application identification code. (For example, 'IPMI' is MICM's application identification code.) This is a required field and must be loaded by the calling program.	03	C	X(04)	05	08
MILOGL-ORG-ID Log Institution Number. Default for this field is zeros. If processing multiple Log files, it must contain the Institution number of the first institution for the file.	03	N		9	14
FILLER REDEFINES MILOGL-ORG-ID.	03				
MILOGL-ORG-ID-X File Suffix.	07	C	X(02)	9	10
MILOGL-ORG-INST Log Institution Number. Default for this field is zeros. If processing multiple Log files, it must contain the Institution number of the first institution for the file.	07	N	9(04)	11	14
MILOGL-PRINT-ADD Format New Records. MIB700, with the use on the MIAMTT file, produces print line images for new records (MILOGL-FUNCTION is equal to 'A'). Valid entries are: C Produce the key fields print line for changes. N Do not format new records. Y Format new records.	03	C	X(01)	15	15
MILOGL-PRINT-DELETE Format Delete Records. MIB700, with the use on the MIAMTT file, produces print line images for records deleted (MILOGL-FUNCTION is equal to 'D'). Valid entries are: N Do not format delete records. Y Format delete records.	03	C	X(01)	16	16

Field Name	Level	Mode	Picture	Displacement	
X Suppress key fields.					
MILOGL-DELIM-CHAR	03	C	X(01)	17	17
Delimiter Character. MIB700 formats the key in MILOGL-KEY-LINED and uses this value as a delimiter between the key elements.					
MILOGL-GLOBAL-CLOSE	03	C	X(01)	18	18
Global Close Indicator. When this field is set to a 'Y' and MILOGL-END is set to a 'Y', MIB700 performs a Global Close. Valid entries are N and Y.					
MILOGL-END	03	C	X(01)	19	19
End of Run Indicator. Calling program must set this indicator to a 'Y' and then call MIB700 before going to a stop run. It allows MIB700 to close its files. Valid entries are:					
H Format print lines heading only.					
N No option.					
P Format key area.					
T Set table address.					
Y End.					
MILOGL-BICRSRB	03	C	X(200)	20	219
Server Request Block. See BICRSRB for details or this area.					
MILOGL-ABCODE	03	N	9(04)	220	223
Abort Code. If the Abort code is not equal to zeros, the calling program must display the Abort Code, Abort Message area, and the Server Request Block; it also must cause the program to abort.					
MILOGL-ABORTMSG	03	C	X(100)	224	323
Abort Message. Abort message text.					
MILOGL-EOF	03	C	X(01)	324	324
End of File Indicator. MIB700 sets this indicator to 'Y' when it has completed processing all of the log records. Valid entries are N and Y.					
MILOGL-NEW-RECORD	03	C	X(01)	325	325
New Record Indicator. MIB700 sets this indicator to a 'Y' for the first return to the caller after reading a new record. If it is not the first return with the same record, it sets this indicator to 'N'.					
MILOGL-NEW-RECODE	03	C	X(01)	326	326
New Record Code.					
MILOGL-NBRPLINES	03	N	9(02)	327	328
Number of Print Lines. Number of print lines taken from the Application Management Table, field MIAMT-NBRPLINES, for this API Identification type. If using the print lines to produce a report, this is the number of lines to print.					
MILOGL-AMTT-KEY	03	G		329	383

Field Name	Level	Mode	Picture	Displacement	
Record Key of the Application Management Table record.					
MILOGL-RECCD	05	C	X(03)	329	331
Record Code. Application Management Table record code. (For example, 'ASK' is the code for the MICM Ask Infopoint Record.)					
MILOGL-APPLCD	05	C	X(02)	332	333
Application Code. Application Management Table application code. (For example, 'M' is the code for the MICM Ask Infopoint Record.)					
MILOGL-AMTT-MISSING	03	C	X(01)	334	334
Application Management Table Record Missing. MIB700 sets this indicator to a 'Y' if it could not find a record on the Application Management Table for this record. Otherwise it is set to an 'N'. The calling program can only process data from the MILOGL-BIMAGE and MILOGL-AIMAGE areas.					
MILOGL-RECNAME	03	C	X(40)	335	374
Record Name. Name is taken from the Application Management Table, field MIAMT-RECNAME.					
MILOGL-FLDNBR	03	N	9(03)	375	377
Field Number. Number assigned to the database within this record. This number is taken from the Application Management Table, field MIAMT-FLDNBR.					
MILOGL-FLDNAME	03	C	X(15)	378	392
Field Name. Name assigned to the database within this record. This name is taken from the Application Management Table, field MIAMT-FLDNAME.					
MILOGL-ENTRYTYPE	03	C	X(01)	393	393
Field Entry Type. Indicates special attributes for the field. Valid entries are:					
A Customer key accumulated value for RCIF only.					
B Customer key tie breaker for RCIF only.					
C Customer key alpha portion for RCIF only.					
D Date audit.					
E Effective date MICM key only.					
F Filler area in MICM key.					
G Region MICM key only.					
H Field contains the heading information only used by the print program.					
I Field is contained in the key area and is the institution number.					
J Date. Format is YYYYMMDD. This date is stored by subtracting 99999999. For example, 19950228 is stored as 8004977J.					
K Field is contained in the key area.					
L Record length.					
M Model MICM key only.					
N Normal field.					
O Indicator MICM only.					
Q MICM record number MICM only.					
R Field is reserved.					

Field Name	Level	Mode	Picture	Displacement	
S Field is the status field used for MICM maintenance.					
T Time audit.					
U User audit.					
X Normal field but exclude from Maintenance Journal.					
MILOGL-MANAGER Manager Code.	03	N	9(02)	394	395
MILOGL-LOGDATA Log Record Data.	03	G		396	22408
MILOGL-INST Institution Number. Institution number from the log record.	05	N	9(04)	396	399
MILOGL-DATE-AUDIT Date. Date from the log record. The format is 0YYYYMMDD.	05	N	9(09)	400	408
MILOGL-TIME-AUDIT Time. Time from the log record. The format is in 0HHMMSSss.	05	N	9(09)	409	417
MILOGL-UNIQUE Unique. Tie breaker field from the log record. This is normally zero.	05	N	9(05)	418	422
MILOGL-APPL-ID-LOG Application Identification. API application identification code. (For example, 'IPMI' is the MICM application identification code.)	05	C	X(04)	423	426
MILOGL-RECID-2-LOG Log Record Identification Code. Record code of the record retrieved from the log record. (For example, 'OAD' is the code for the MICM Operator Dialogue Record.)	05	C	X(03)	427	429
MILOGL-FUNCTION Before/ After Function Code. Before/ After function code from the log record.	05	C	X(01)	430	430
A Add Function. After image only.					
D Delete Function. Before image only.					
M Maintenance Function. Both a Before and After image.					
MILOGL-UPD-USER User. Audit user identification from the log record.	05	C	X(08)	431	438
MILOGL-RECLGTH Record Length. Length of the user record that was logged.	05	N	9(05)	439	443
MILOGL-TERMID Term ID.	05	C	X(08)	444	451

Field Name	Level	Mode	Picture	Displacement	
MILOGL-WORKID Work ID.	05	C	X(08)	452	459
MILOGL-PANELID Panel ID.	05	C	X(08)	460	467
MILOGL-TRANSTART Transaction Start Date.	05	B	S9(07)	468	471
MILOGL-APPLSEQ Sequence Number.	05	B	S9(05)	472	474
MILOGL-OLDED Old Data Edited. Contains the Before data with editing for numeric fields. Data is right justified. Editing is performed using the MIAMT-PFORMATCD field from the Application Management Table.	03	C	X(80)	475	554
MILOGL-NEWED New Data Edited. Contains the After data with editing for numeric fields. Data is right justified. Editing is performed using the MIAMT-PFORMATCD field from the Application Management Table.	03	C	X(80)	555	634
MILOGL-OLD Old Data. Contains the Before data without editing for numeric fields. Data is right justified and is in display format.	03	C	X(80)	635	714
MILOGL-NEW New Data. Contains the After data without editing for numeric fields. Data is right justified and is in display format.	03	C	X(80)	715	794
MILOGL-BIMAGE Before Image. Before record image area.	03	C	X(4096)	795	4890
MILOGL-BIMAGEK REDEFINES MILOGL-BIMAGE.	03	C	X(102)	795	896
MILOGL-AIMAGE After Image. After record image area.	03	C	X(4096)	795	8986
MILOGL-AIMAGEK REDEFINES MILOGL-AIMAGE.	03	C	X(102)	4891	4992
MILOGL-KEY-LINE Key Information Lines. Contains the record key with each field next to each other. All numeric fields are in display format with their signs removed.	03	C	X(132)	4891	8986
MILOGL-KEY-LINEO	03	C	X(132)	8987	9118

Field Name	Level	Mode	Picture	Displacement	
REDEFINES MILOGL-KEY-LINE. OCCURS 132 TIMES. Key Information Lines. Contains the record key with each key element separated by the value from MILOGL-DELM-CHAR. All numeric fields are in display format with their signs removed.					
MILOGL-KEY-LINED Key Informational Line Print Lines.	03	C	X(132)	9119	9250
MILOGL-KEY-LINEDO REDEFINES MILOGL-KEY-LINED. OCCURS 132 TIMES.	03	C	X(01)	9119	9250
MILOGL-KEY-RECORD Key information. Contains the record key in the same image as it is in the record.	03	C	X(102)	9251	9352
MILOGL-PLINES Formatted Print Area. Contains 99 print lines. The print lines are defined on the Application Management Table with the Print Information (MIAMW-PRINTINFO). If the log record is maintenance, then only key lines are formatted. The Date Audit, Time Audit, and User Audit are included with the key information. With the use of this area, a generic program can be written to produce an audit report from the log records.	03	C	X(132)	9353	22420
MILOGL-PLINE REDEFINES MILOGL-PLINES OCCURS 99 TIMES. Formatted Print Line.	05	R	X(132)	9353	22420
MILOGL-MRECNR MICM Record Number.	03	B	S9(04)	22421	22422
MILOGL-LANG Language Code. Valid entries are defined on MICM Record 2022 (Valid Language Code Table Record). Codes that can be used are indicated with 'Y' in the Usage field.	03	C	X(02)	22423	22424
MILOGL-JUST-RIGHT Right Justify Alpha. Valid entries are b , indicating no right justify or R , indicating right justify.	03	C	X(01)	22425	22425
MILOGL-DATE-SEQ Date Sequence. The date controls the formatting and validating of dates for input online and/or display of batch and online. Valid entries are: 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 4 Year, day, month. 5 Day, year, month. 6 Month, year, day. N Not used.	03	C	X(01)	22426	22426
MILOGL-DATE-DELIM	03	C	X(01)	22427	22427

Field Name	Level	Mode	Picture	Displacement	
Date Delimiter. The character used as the separator between the Year, Month, and Day fields. All characters other than 'N' are permitted as a delimiter. An 'N' indicates that the date delimiter is not used.					
MILOGL-TIME-DELIM	03	C	X(01)	22428	22428
Time Delimiter. The character to use as the separator between the Hours, Minutes, and Seconds fields. All characters other than 'N' are permitted as a delimiter. An 'N' indicates that the time delimiter is not used.					
MILOGL-TIME-FORMAT	03	C	X(01)	22429	22429
Time Format. The Time Format indicates the use of a 12 or 24 hour clock. The 12-hour clock includes an a.m. or p.m. literal. Valid entries are: 1 12-hour clock. 2 24-hour clock. N Time format is not used.					
MILOGL-USE-CURNCODE	03	C	X(01)	22430	22430
Use Currency Code. The Use Currency Code indicates if currency processing is to occur. N Currency processing will not occur. Y Currency processing will occur.					
MILOGL-CURN-CODE	03	C	X(04)	22431	22434
Local Currency Code.					
MILOGL-AMOUNT-OPT	03	C	X(01)	22435	22435
Amount Option. The Amount Option controls the formatting of amounts and rates. Valid entries are: C All amounts are to be formatted according to the options defined on MICM Record 2018. F Delimiters and separators defined at the institution or operator level are to be used for all currencies. N Amount Option is not used.					
MILOGL-CURN-DECIMAL	03	N	9(01)	22436	22436
Currency Decimal.					
MILOGL-CURN-SEPARATOR	03	C	X(01)	22437	22437
Separator Code.					
MILOGL-CURN-DELIMETER	03	C	X(01)	22438	22438
Currency Delimiter.					
MILOGL-CURN-INST	03	N	9(04)	22439	22442
Institution Number. Number used with currency routines.					

MISCNT00 – Standard Function Message Area Control Block

The following description shows the format of MISCNT00-RECORD Communication Area for MICM 5.1. The copybook is MISCNT00.

Field Name	Level	Mode	Picture	Displacement
TOTAL-RECORD Standard function message area controls block for MICM 5.1.	01	R		1 512
:MICNT:-CONTROLS	03	G		1 512
:MICNT:-APIFUNC ADD Add records. ADR Add/replace records. This request will either add a record if it is not found or replace the full contents of an existing record. Currently only used in IQ. ADU Add/update records. This request will either add a record if it is not found or update the fields that are passed within the message. Currently only used in IQ. BCH Process an existing FCS warehouse batch as indicated by the release code. BRI Browse and inquire records. BRW Browse with maintenance capability to records. CPY Copy records. DEL Delete records. EDA Verify key data and edit data fields in a single request. Currently only used in IQ. EDT Verify key data and edit data fields. EXT Extract a range of records with selection criteria. INQ Read a single record. UPD Verify key data and edit data fields. Update record if errors are not found. Note: If data errors are found this field will be changed from 'UPD' to 'EDT' to indicate that the update was not done. VKD Verify key data. VKL Verify key data and load or initialize data. VKP Verify key data and load data without initializing. Only used in the customer scan panels. RCIF only. VKS Verify key data and initialize and load data. Only used in the customer scan panels. RCIF only. VK1 Verify key data and load data. Used in the key panel of customer profiles. RCIF only.	05	C	X(03)	1 3
:MICNT:-DATE Current Date. Format is MMDDYYYY.	05	N	9(08)	4 11
:MICNT:-FUNC Record Function Code. Indicates if records are to be added. B Browse records. D Delete records M Maintenance. Used for all others. N New: Records are to be added.	05	C	X(01)	12 12

Field Name	Level	Mode	Picture	Displacement	
:MICNT:-FUNCTION Function. The last value from the function program that was in WS-FUNCTION.	05	C	X(01)	13	13
:MICNT:-RETURN Return Code. An entry of E in this field indicates that there was an error. There may be a value in the Message Number and/or Application Abort Code fields.	05	C	X(01)	14	14
:MICNT:-APPL External Application Number. The Infopoint application number, for example, 01 for Deposits.	05	N	9(02)	15	16
:MICNT:-CIFAC Application Code. Code identifying the application being processed online, example DDA for Deposits.	05	C	X(03)	17	19
:MICNT:-UPDATE Update Indicator. Indicates whether records can be changed, deleted or added. This field may change after linking to a function program. The function program read the profile transaction code and set the transaction security indicators in MICM copybook SRP079. N Records cannot be changed, deleted or added. Y Records can be changed, deleted or added.	05	C	X(01)	20	20
:MICNT:-FILEOPTS Organization ID (alias File Set Code).	05	C	X(25)	21	45
:MICNT:-OPERID Operator ID. A user-defined code which authorizes an operator to access the online systems.	05	C	X(08)	46	53
:MICNT:-MODELID Profile ID. The profile used for panel and field security.	05	C	X(08)	54	61
:MICNT:-PROFILE REDEFINES :MICNT:-MODELID.	05	C	X(08)	54	61
:MICNT:-EXTERNALID External Transaction Code. The MICM transaction code used for security.	05	C	X(08)	62	69
:MICNT:-TERMID CICS Terminal ID.	05	C	X(08)	70	77
:MICNT:-WORKID Work Unit ID.	05	C	X(08)	78	85
:MICNT:-TRANSTART Transaction Start Time. Time the work unit was initiated. If Work Unit processing is not in use, this contains the time the panel was initiated.	05	PS	S9(07)	86	89

Field Name	Level	Mode	Picture	Displacement	
:MICNT:-APPLSEQ Application Sequence Number. Available for application-specific reporting requirements.	05	PS	S9(05)	90	92
:MICNT:-SECALT Security Alternate. Used when a MICM release is no longer used and is set to space. Field remains for code compatibly.	05	C	X(01)	93	93
:MICNT:-MSGNBRG Message Number.	05	G		94	100
:MICNT:-MANGER-NBR Internal Application Number. The application number for which this information applies. The internal number used by Infopoint. This number cannot be altered by the user. Valid entries are 00 – 99 .	07	N	9(02)	94	95
:MICNT:-MSGNBRX Message Code. Identifies system-defined message code. The message is defined by the manager.	07	C	X(05)	96	100
:MICNT:-MSGNBRR REDEFINES :MICNT:-MSGNBRG.	05	G		94	100
:MICNT:-MSGNBR Numeric Version of Message Number.	07	N	9(06)	94	99
FILLER	07	C	X(01)	100	100
:MICNT:-ERRCNT Error Count. The number of edit errors found by the function program.	05	B	S9(04)	101	102
:MICNT:-GLOBAL-CLOSE Global Close. Setting this field to Y causes the function program to issue a GLOBAL CLOSE to API which does nothing.	05	C	X(01)	103	103
:MICNT:-ABORT Application Abort Code. This is part of the key to MICM Record 0404 which has three 40-characters fields containing the text for this abort.	05	N	9(04)	104	107
:MICNT:-ABTYPE Abort Type. Setting this field to Y indicates to the caller that a sysc point rollback must be issued to remove any file updates.	05	C	X(01)	108	108
:MICNT:-ABTRACE Abort Trace Number. Used as a locator in a program. Each program has defined working storage fields beginning with WS-TRnnnn for each error point. Example: For COBOL:	05	N	9(04)	109	112

Field Name	Level	Mode	Picture	Displacement
WS-TR0001 PIC 9(04) VALUE 0001.				
WS-TR0002 PIC 9(04) VALUE 0002.				
:MICNT:-ABEIBFN CICS Function Code. The code that identifies the last CICS command issued at the time of the error. Data is binary but needs be displayed as hex value because this is the how the code is displayed in the IBM manual. Example: 0A02 indicates WRITEQ TS. Its binary value is 2562.	05	C	X(02)	113 114
:MICNT:-ABEIBRCODE CICS Response Code. Code returned after the function requested by the last CICS command issued by the task has been completed. Data is binary but needs be displayed as hex value.	05	C	X(06)	115 120
:MICNT:-ABPROGID Abort Program ID. The program ID of the program that issued the abort.	05	C	X(08)	121 128
:MICNT:-SRBMDB API Message Debugging Block.	05	C	X(100)	129 228
:MICNT:-USERCNTRLS User-controlled File.	05	C	X(15)	229 243
:MICNT:-COM-CURNCD Local Currency Code.	05	C	X(04)	244 247
:MICNT:-COM-LANG Language Code.	05	C	X(02)	248 249
:MICNT:-ABEIBRESP The number corresponding to the RESP condition that occurred. Binary value.	05	B	9(08)	250 253
:MICNT:-ABEIBRESP2 More detailed information that may help explain why the RESP condition occurred. This field contains meaningful values, as documented with each command to which it applies. For requests to remote files, EIBRESP2 contains zeros. Binary value.	05	B	9(08)	254 257
:MICNT:-ABMSG Abort Message. Additional information abort.	05	C	X(79)	258 336
:MICNT:-INST-OPTS Institution Level Options. Data is populated from MICM Record 2014.	05	G		337 341
:MICNT:-INST-OPT-1 MICM Record 0211/2023 Option. This option is used to indicate if MICM Record 0211 or 2023 is to be processed at the institution level.	07	C	X(01)	337 337
Note: Refer to specific application for use. Valid entries are: b Read MICM Record 0211 or 2023 from Institution Zero.				

Field Name	Level	Mode	Picture	Displacement	
Y Read MICM Record 0211 or 2023 from specific institution.					
:MICNT:-INST-OPT-2 AMT Field Display Option. If a panel is using the field name from the Application Management Table, pressing F16 will show the AMT information in place of the field name. This option is helpful when building new panels using Application Management. Valid entries are: b Do not activate F16. Y Activate F16.	07	C	X(01)	338	338
:MICNT:-INST-OPT-3 Reserved for future use.	07	C	X(01)	339	339
:MICNT:-INST-OPT-4 Reserved for future use.	07	C	X(01)	340	340
:MICNT:-INST-OPT-5 Reserved for future use.	07	C	X(01)	341	341
:MICNT:-COM-PRODCODE Product Code.	05	C	X(06)	342	347
:MICNT:-ORG-UPD Organization Update. Indicates if the record can be updated if it belongs to an organization that is currently processing in batch. N Update not allowed, set the panel to Inquiry Only. Y Update allowed.	05	C	X(01)	348	348
:MICNT:-RESERVED Reserved for future use.	05	C	X(164)	349	512

MIW900 – Transient Data Queue Message Writer Communication Area

MIW900 is a communication area that is passed to the Transient Data Message Writer program, MIL900.

The following description shows the format of MIW900-RECORD. Copybook is MIW900.

Field Name	Level	Mode	Picture	Displacement	
MIW900-RECORD	01	R		1	1024
Cross Institution Interface/Non-Terminal Sign on Communication Area.					
MIW900-TAG-ID	03	C	X(08)	1	8
Record Identifier. Valid entry is * MIW900 *.					
MIW900-QID	03	C	X(04)	9	12
Transient Data Queue ID. The valid entry is generally a fixed value of MILG , to write to the MICM log, but can be changed by the caller to write to a different queue.					
MIW900-APPL	03	C	X(02)	13	14
Infopoint CMS Application Code. For example, MI for MICM, DP for Deposits, etc.					
MIW900-APPLREL	03	C	X(02)	15	16
Infopoint CMS Application Release Number. For example, 51 for MICM, 84 or 85 for Deposits, etc.					
MIW900-INST	03	N	9(04)	17	20
Institution Number. The institution number being processed for the message written.					
MIW900-ABORT	03	N	9(04)	21	24
Abort Code. The key to MICM Record 0404. This record contains the abort condition text. A return code of zeros indicates that there was no abort.					
MIW900-ABTRACE	03	N	9(04)	25	28
Abort Trace Code. The program trace locator code used by the programmer to locate the code line in the aborted program. To locate the code line, search for the string of WS-TRcccc, where cccc is the trace code line in the aborting program.					
MIW900-ABPROGID	03	C	X(08)	29	36
Abort Program. The module name of the program that issued the abort.					
MIW900-ABFUNCTION	03	C	X(01)	37	37
Abort Function Code. Code returned by the I/O routine at the time the abort was issued.					
b Good return.					
= Duplicate record.					
C File is closed.					
E End of file.					
F File is full.					

Field Name	Level	Mode	Picture	Displacement	
L	API error occurred during logging.				
N	Record not found.				
O	Other API error. Return code is found in DBS-STAT.				
X	Unknown return code.				
MIW900-OPERID	03	C	X(08)	38	45
Operator ID. ID of the operator executing this transaction.					
MIW900-LANG	03	C	X(02)	46	47
Language Code. The language code used to read MICM Record 2011.					
MIW900-MSGNBRG.	03	G		48	54
Message Number. This is the key to MICM Record 2011. This record shows the conditional text.					
MIW900-MANGER	05	N	9(02)	48	49
Internal Application Number. The application number for which this information applies. This application number is the internal number used by Infopoint and cannot be altered by the user. Valid entries are 00 – 99 .					
MIW900-MSGNBR	05	C	X(05)	50	54
Message Code. This part of the message number is defined by the Infopoint application.					
MIW900-TEXT-ONLY	03	C	X(01)	55	55
Text Only. When this field contains a value of Y , only the message prefix and MIW900-TEXT field will be written.					
MIW900-TEXT	03	C	X(01)	56	135
Message Text. Additional message information or only message information.					
MIW900-SRBMDB	05	C	X(100)	136	235
API Message Debugging Block.					
MIW900-ABEIBDS	03	C	X(08)	236	243
EXEC Interface Block Data Set (EIBDS). Contains last data set that was accessed at the time the message was issued.					
MIW900-ABEIBFN	03	B	X(02)	244	245
EXEC Interface Block Function Code (EIBFN). Contains a code that identifies the last CICS command issued by the task. Valid entries are found in the CICS <i>Application Programming Reference Guide</i> .					
MIW900-ABEIBRESP	03	B	9(08)	246	249
EXEC Interface Block Response (EIBRESP). Contains a number corresponding to the “RESP” condition that occurred. These numbers are listed (in decimal) for the conditions that can occur during execution of the commands described in the CICS <i>Application Programming Reference Guide</i> .					

Field Name	Level	Mode	Picture	Displacement	
MIW900-ABEIBRESP2	03	B	9(08)	250	253
EXEC Interface Block Response 2 (EIBRESP2). Contains more detailed information that may help explain why the “RESP” condition occurred. This field contains meaningful values, as documented with each command to which it applies. For requests to remote files, EIBRESP2 contains zeros. Valid entries are found the CICS <i>Application Programming Reference Guide</i> .					
MIW900-FILLER	03	C	X(711)	254	1024
Reserved for future use.					

PRINTERFIL – Print File

This Print File contains all the data to be output in various report formats. This file is used in all report-generated programs. The different record formats of the output report file are reflected in the Reports chapter of MICM *Procedures Guide 2*.

File Statistics

File Type External Name	Printer File PRINTR
Record Name PRINTERREC	Library Name SRW016
	Record Length 0133 Bytes

PRINTERREC – Print File Record

The following record description shows the format of the Print File Record.

Field Name	Level	Mode	Picture	Displacement	
PRINTERREC Print File Record.	01	R		1	133
FILLER Not used.	03	C	X(01)	1	1
PLINE1 Print Data Line.	03	C	X(132)	2	133
PLINE2 REDEFINES PLINE1.	03	G		2	133
FILLER Not used.	05	C	X(5)	2	6
P2-DATE Print Date. Format is MMDDYYYY.	05	N	99,99,9999	7	16
P2-DATER REDEFINES P2-DATE.	05	G		7	16
FILLER Not used.	07	N	99	7	8
P2-DH1 Month/Day Separator. The '-' character which separates the month and day in the report date.	07	C	X	9	9

Field Name	Level	Mode	Picture	Displacement	
FILLER Not used.	07	N	99	10	11
P2-DH2 Day/Year Separator. The '-' character which separates the day and year in the report date.	07	C	X	12	12
FILLER Not used.	07	N	9(4)	13	16
FILLER Not used.	05	C	X(22)	17	38
P2-NBR5 Institution Area.	05	G		39	43
FILLER Not used.	07	C	X(02)	39	40
P2-NBR Institution Number.	07	C	X(03)	41	43
FILLER Not used.	05	C	X(01)	44	44
P2-NAME Institution Name.	05	C	X(45)	45	89
FILLER Not used.	05	C	X(28)	90	117
P2-PAGE Page Literal. Valid entry is PAGE .	05	C	X(5)	118	122
P2-PGNBR Report Page Number.	05	C	ZZ,ZZ9	123	128
FILLER Not used.	05	C	X(05)	129	133
PLINE3 REDEFINES PLINE1.	03	G		2	133
FILLER Not used.	05	C	X(05)	2	6

Field Name	Level	Mode	Picture	Displacement	
P3-SYSTEM Infopoint Application. Title of the application to which the report applies.	05	C	X(30)	7	36
FILLER Not used.	05	C	X(08)	37	44
P3-NAME Report Title.	05	C	X(45)	45	89
FILLER Not used.	05	C	X(33)	90	122
P3-RPTNBR Report Number.	05	N	99,999	123	128
P3-RPTNBRR REDEFINES P3-RPTNBR.	05	G		123	128
FILLER Not used.	07	C	XX	123	124
P3-RH1 Report Number Separator. The '-' character used as a separator in the Report Number.	07	C	X	125	125
FILLER Not used.	07	C	XXX	126	128
FILLER Not used.	05	C	X(05)	129	133

SL-LOGAREA – MICM Log Area

The Log Area is used by every program or panel program to pass information to the log module for logging purposes. The following record description shows the format of the Log Area. Copybook is SLS103.

Field Name	Level	Mode	Picture	Displacement	
SL-LOGAREA Log Record Data.	01	R		1	302
LOGA-SYSNBR System Number.	03	N	9(02)	1	2
LOGA-BKNBR Institution Number.	03	B	S9(04)	3	4
LOGA-ABORT Abort Code.	03	B	S9(04)	5	6
LOGA-FILE Master Information and Control Manager, file suffix.	03	C	X(01)	7	7
FILLER Not used.	03	C	X(04)	8	11
LOGA-KEY Key can vary according to the transaction being processed.	03	G		12	142
LOGA-KEYA General reporting information.	05	G		12	36
LOGA-DATE Transaction Date. Format is YYYYDDD.	07	PS	S9(07)	12	15
LOGA-OPERID Operator Identification.	07	C	X(08)	16	23
LOGA-RPTNBR Report Number.	07	B	S9(04)	24	25
LOGA-FORMNBR Form Number.	07	N	9(04)	26	29
LOGA-CRDNBR Card Number.	07	N	9(03)	30	32
LOGA-FLDNBR	07	P	9(04)	33	35

Field Name Field Number.	Level	Mode	Picture	Displacement	
LOGA-FLDSEQ Field Sequence.	07	C	X(01)	36	36
LOGA-KEYB Detail Key Data. This area varies by application and transaction.	05	G		37	142
LOGA-CUST1KEY	07	G		37	52
LOGA-SURNAME Last Name.	09	C	X(06)	37	42
LOGA-INITONE First Initial.	09	C	X(01)	43	43
LOGA-INITTWO Middle Initial.	09	C	X(01)	44	44
LOGA-TIEBRKR Tie Breaker.	09	N	9(04)	45	48
LOGA-DTMAINT Date of Last Maintenance. To be used by Customer.	09	PS	S9(07)	49	52
LOGA-ACCTDATA REDEFINES LOGA-CUST1KEY. Account information.	07	G		37	52
LOGA-ACCOUNT Account number when processing a Demand Deposits transaction code.	09	B	9(18)	37	44
LOGA-MNTDT Date of Last Maintenance. To be used by Deposits.	09	PS	S9(07)	45	48
FILLER Not used when processing a Demand Deposit transaction code.	09	C	X(04)	49	52
LOGA-BRANCH Branch Number.	07	PS	S9(05)	53	55
LOGA-TYPE Account type or control group.	07	PS	S9(03)	56	57
LOGA-IFCUST1 Customer Key.	07	C	X(12)	58	69

Field Name	Level	Mode	Picture	Displacement	
LOGA-IFSHORT Customer's Short Name.	07	C	X(20)	70	89
FILLER Not used.	07	C	X(53)	90	142
LOGA-DATA Transaction Data.	03	G		143	302
LOGA-DATAFROM Old data from maintenance transactions.	05	C	X(80)	143	222
LOGA-DATAFROMR REDEFINES LOGA-DATAFROM.	05	G		143	222
LOGA-DATAFROM9 Further redefinition of LOGA-DATAFROM to handle numeric characters for reporting.	07	N	S9(18)	143	160
LOGA-DATATO New data from maintenance transactions.	05	C	X(80)	223	302
LOGA-DATATOR REDEFINES LOGA-DATATO.	05	G		223	302
LOGA-DATATO9 Further redefinition of LOGA-DATATO to handle numeric characters for reporting.	07	N	S9(18)	223	240

SL-MENUREC – Operator’s Menu Record for Infopoint Online Systems

The following is the record format of the Operator Menu Record. Copybook is SLS010.

Field Name	Level	Mode	Picture	Displacement	
SL-MENUREC Operator’s Menu Data.	01	R		1	946
SLM-SECCTL OCCURS 16 TIMES. Allows individual reference to one security control.	03	G		1	768
SLM-EXTID OCCURS 16 TIMES. External ID.	05	C	X(08)	1	104
SLM-DESC OCCURS 16 TIMES. External ID Description.	05	C	X(40)	105	768
SLM-HELPPANEL Panel Help Name.	05	C	X(08)	769	896
SLM-NAME Name of the menu that was previously displayed.	03	C	X(40)	897	936
SLM-PRV-MENU Last menu to be displayed.	03	C	X(08)	937	944
SLM-PRV-NBR Last number to be displayed.	03	B	9(04)	945	946

SLDSI-MESSAGE-IN – Host Data Transfer Function Message Incoming File

This file is used for transmission to the Host Interface Function Message through program SSL010. The following is a sample format of the file with no leading zeros or trailing spaces.

```
**EDSDS**/0205/A/H/_/0000/0000/0000/ / / / /DDM/D/
NBR-FIELDS = 0007 FIELDS-LGTH = 00072
REC-KEY =
02050000000000000010934
_____
DDM010DI0_DDM011DI0_DDM012DI0_DDM013DI _DDM014DI0_DDM015DI0_DDM016DI0__
```

File Statistics

Record Name	Library Name	Record Length
SLDSI-MESSAGE-IN	SLSDSI	0384-15360 Bytes

SLDSI-MESSAGE-IN – Host Data Transfer Function Message Incoming Record

The following record description shows the format of the Host Data Transfer Function Message Incoming Record.

Field Name	Level	Mode	Picture	Displacement	
SLDSI-MESSAGE-IN Host Data Transfer Function Message Incoming Record.	01	R		1	15360
SLDSI-CONSTANT-AREA Fixed Data Area.	03	G		1	384
SLDSI-CICS-TC CICS Transaction Code. Contains the CICS transaction code when the transaction is invoked directly.	05	N	X(04)	1	4
<ul style="list-style-type: none">■ If the transaction is invoked by a START TASK, it must contain the CICS transaction code used to perform a START TASK for returning.■ If the transaction is invoked by a START TASK and this field contains spaces, it returns to CICS after processing the transaction.■ If the transaction is invoked by a CICS LINK, this field is not used and can contain any information the caller needs.					
SLDSI-TAG ID Tag. Contains '***SLDSI***'.	05	N	X(09)	5	13
SLDSI-INST-NBR Institution Number.	05	N	9(04)	14	17

Field Name	Level	Mode	Picture	Displacement	
SLDSI-REQ-CODE Request Code. Valid entries are: A Add (new record). D Delete (remove record). E Edit only (no file updating). I Inquiry. M Maintenance (change record).	05	C	X(01)	18	18
SLDSI-ORIGINATION Request Originator. Valid entry is S , indicating for server.	05	C	X(01)	19	19
SLDSI-API-STAT Application Program Interface Status Code. Valid entry is spaces.	05	C	X(02)	20	21
SLDSI-API-RETURN Application Program Interface Return Code. Valid entry is zeros.	05	N	9(04)	22	25
SLDSI-MICM-ABORT Application Abort Code. Valid entry is zeros.	05	N	9(04)	26	29
SLDSI-MICM-TRACE Application Trace Code. Valid entry is zeros.	05	N	9(04)	30	33
SLDSI-FUNC-ERROR Error in Upload/Inquiry Message. Valid entry is space.	05	C	X(01)	34	34
SLDSI-OPER-ID Operator ID. Identification of the operator requesting maintenance or inquiry.	05	C	X(08)	35	42
SLDSI-PROG-ID Program ID. Valid entry is spaces.	05	C	X(08)	43	50
SLDSI-MSG-FORMAT Message Format Code. Valid entry is spaces. Not used.	05	C	X(01)	51	51
SLDSI-AMT-RECKEY Record Key.	05	G		52	55
SLDSI-AMT-REC-ID Application Management Record Code.	07	C	X(03)	52	54
SLDSI-AMT-APPL Application Management Application Code.	07	C	X(01)	55	55
SLDSI-ABEIBFN	05	C	X(04)	56	59

Field Name	Level	Mode	Picture	Displacement	
Exec Interface Block FN (EIBFN). Valid entry is spaces.					
SLDSI-ABEIBRCODE	05	C	X(06)	60	65
Exec Interface Block RCODE (EIBRCODE). Valid entry is spaces.					
SLDSI-ABEIBRESP	05	C	X(10)	66	75
CICS Command Response Code. Code at the time of the issued abort. Valid entry is spaces.					
SLDSI-ABEIBRESP2	05	C	X(08)	76	83
CICS Command Response Code 2. Code 2 at the time of the issued abort. Valid entry is spaces.					
SLDSI-DEBUG	05	C	X(01)	84	84
Debugging Option. Y causes the incoming and outgoing messages to be written to the Debug File.					
SLDSI-ALTINST	05	N	9(04)	85	88
Alternate Institution Number. Number of the alternate institution on which the operator's record can be found.					
SLDSI-DS-ERRORS	05	G		89	99
Alternate Institution Errors.					
SLDSI-EINST-NBR	07	C	X(01)	89	89
Alternate Institution Number Error. Valid entry is spaces.					
SLDSI-EREQ-CODE	07	C	X(01)	90	90
Request Code Error. Valid entry is spaces.					
SLDSI-EOPER-ID	07	C	X(01)	91	91
Operator ID Error. Valid entry is spaces.					
SLDSI-EMSG-FORMAT	07	C	X(01)	92	92
Message Format Error. Valid entry is spaces.					
SLDSI-EAMT-RECKEY	07	C	X(01)	93	93
Application Management Record Key Error. Valid entry is spaces.					
SLDSI-ENBR-FIELDS	07	C	X(01)	94	94
Number of Fields Error. Valid entry is spaces.					
SLDSI-EPASSWORD	07	C	X(01)	95	95
Operator's Password Error. Valid entry is spaces.					
SLDSI-ECIFAC	07	C	X(01)	96	96
CIFAC Error. Valid entry is spaces.					
SLDSI-EEDIT-OPT	07	C	X(01)	97	97

Field Name	Level	Mode	Picture	Displacement	
Edit Option Error. Valid entry is spaces.					
SLDSI-EDECIMAL-OPT Decimal Option Error. Valid entry is spaces.	07	C	X(01)	98	98
SLDSI-EEXTERNALID Security Transaction ID Error. Valid entry is spaces.	07	C	X(01)	99	99
SLDSI-MSGNBRX Application Program Message Number Area.	05	G		100	106
SLDSI-MSGNBR Application Program Message Number. Valid entry is zeros.	09	C	X(06)	100	105
FILLER Not used.	09	C	X(01)	106	106
SLDSI-CIFAC CIF Application Code. For example, DDA for Demand Deposit Accounting.	05	C	X(03)	107	109
SLDSI-USERCNTRL User Controls. User area.	05	C	X(15)	110	124
SLDSI-EXTERNALID External ID. MICM transaction security code. This code must be in the Operator Dialogue Record with the operator specified in the SLDSI-OPER-ID field.	05	C	X(08)	125	132
SLDSI-DECIMAL-OPT Decimal Option. Valid entries are: D Test for correct positioning of decimals in incoming message and place decimals in outgoing message fields. N Ignore decimals in incoming message. No decimals in outgoing message.	05	C	X(01)	133	133
SLDSI-EDIT-OPT Numeric Fields Output Edit Options. Valid entries are: D Do not suppress leading zeros and trailing spaces. N Normal numeric editing controlled by the Print Format Code on the Application Management Table. S Suppress leading zeros and trailing spaces. Fields of all zeros contain one zero, and fields of all spaces contain one space.	05	C	X(01)	134	134
SLDSI-GLOBAL-ABORT Global Abort Control. When SSL010 has been invoked with a CICS LINK, a Y indicates the caller is responsible for issuing the global abort.	05	C	X(01)	135	135
SLDSI-ALL-FLDS	05	C	X(01)	136	136

Field Name	Level	Mode	Picture	Displacement	
All Fields Option. Y causes all fields in the Function Message to be returned.					
SLDSI-TRANSTART	05	N	9(07)	137	143
Transaction Start Time. Time the work unit was initiated. If field contains zeros, EIBTIME is used.					
SLDSI-APPLSEQ	05	N	9(05)	144	148
Application Sequence Number. Available for application-specific reporting requirements. Refer to the application being processed for required information.					
SLDSI-WORKID	05	C	X(08)	149	156
Work Unit Transaction ID. External transaction name associated with this request. Refer to the application being processed for required information.					
SLDSI-API-VERB	05	N	9(03)	157	160
Application Program Interface Request Verb. Valid entry is zeros.					
SLDSI-PASSWORD	05	C	X(08)	161	168
Operator Password. User-defined password used by the application to verify an operator ID before being allowed to continue using the system. This field should only be passed the first time or if a password error is indicated.					
SLDSI-FILLER	05	C	X(105)	169	273
Not used.					
SLDSI-FIELDS-LGTH	05	N	9(05)	274	278
Fields Length. Length of this field. The value in this field plus the length of the SLDSI-CONSTANT-AREA field equals the total length of the message.					
SLDSI-NBR-FIELDS	05	N	9(04)	279	282
Number of Fields. Number of fields in the message.					
SLDSI-MSG-AREA	05	C	X(102)	283	384
Message Area. Valid entry is spaces.					
SLDSI-FIELDS	03	C	X(14976)	385	15360
Fields Area.					
SLDSI-FIELDO	03	C	X(01)	385	15360
REDEFINES SLDSI-FIELDS. OCCURS 14976 TIMES.					
SLDSI-FIELD	03	G		385	15360
REDEFINES SLDSI-FIELDS.					
SLDSI-DATA-REC-ID	05	C	X(03)	385	387
Record ID. Application Management Record ID.					

Field Name	Level	Mode	Picture	Displacement	
SLDSI-DATA-ID	05	N	9(03)	388	390
Field Number. Field number for this field. This number is defined on the Application Management Application Table.					
SLDSI-DATA-APPL	05	C	X(01)	391	391
Application Management Application Code.					
SLDSI-DATA-ATTR	05	C	X(01)	392	392
Field Attribute. Used for communicating field status. Valid entries are:					
b Update. Update record for this field.					
I Inquiry. Request information from host.					
SLDSI-DATA-FIELD	05	C	X(80)	393	472
Field Information. Variable from 1 – 80 positions.					
SLDSI-DATA-SEP	05	C	X(01)	473	473
Field Separator. Value Hex 05. Two field separators, back-to-back, indicate the end of the message.					
SLDSI-FIELD-FILLER	05	C	X(14887)	474	15360
Not used.					

SLDSO-MESSAGE-OUT – Host Data Transfer Function Message Outgoing File

This file is used for transmission from the Host Data Interface Function Message. This file is created by program SSL010.

File Statistics

Record Name	Library Name	Record Length
SLDSO-MESSAGE-OUT	SLDSO	0384-15380 Bytes

SLDSO-MESSAGE-OUT – Host Data Transfer Function Message Outgoing Record

The following record description shows the format of the Host Data Transfer Function Message Outgoing Record.

Field Name	Level	Mode	Picture	Displacement
SLDSO-MESSAGE-OUT Host Data Transfer Function Message Outgoing.	01	R		1 15380
SLDSO-CONSTANT-AREA Fixed Data Area.	03	G		1 384
SLDSO-CICS-TC CICS Transaction Code. Field is not used during output processing and contains the same information that was in the incoming message.	05	C	X(04)	1 4
SLDSO-TAG ID Tag. Contains '***SLDSO***'.	05	N	X(09)	5 13
SLDSO-INST-NBR Institution Number.	05	N	9(04)	14 17
SLDSO-REQ-CODE Request Code. Valid entries are: A Add (New record). D Delete (Remove record). I Inquiry. M Maintenance (Change record).	05	C	X(01)	18 18
SLDSO-ORIGINATION Request Originator. Valid entry is H , indicating host.	05	C	X(01)	19 19
SLDSO-API-STAT Application Program Interface Status Code.	05	C	X(02)	20 21
SLDSO-API-RETURN	05	N	9(04)	22 25

Field Name	Level	Mode	Picture	Displacement	
Application Program Interface Return Code.					
SLDSO-MICM-ABORT	05	N	9(04)	26	29
Application Abort Code. Valid entry is 0, indicating no error.					
SLDSO-MICM-TRACE	05	N	9(04)	30	33
Application Trace Code.					
SLDSO-FUNC-ERROR	05	C	X(01)	34	34
Error in Upload/Inquiry Message. Application detected error in message.					
b No error detected.					
Y Errors in fields(s). Integrate SLDSO-DATA-ATTR(s) to determine errors.					
D Errors in incoming message. Processing was stopped before invoking the function program. Integrate SLDSO-DS-ERRORS to determine errors.					
SLDSO-OPER-ID	05	C	X(08)	35	42
Operator ID. Identification of the operator requesting maintenance or inquiry.					
SLDSO-PROG-ID	05	C	X(08)	43	50
Program ID. Identification of the program that performed the function or the name of the program that issued an abort.					
SLDSO-MSG-FORMAT	05	C	X(01)	51	51
Message Format Code. Not used.					
SLDSO-AMT-RECKEY	05	G		52	55
Record Key.					
SLDSO-AMT-REC-ID	07	C	X(03)	52	54
Application Management Record Code.					
SLDSO-AMT-APPL	07	C	X(01)	55	55
Application Management Application Code.					
SLDSO-ABEIBFN	05	C	X(04)	56	59
Exec Interface Block FM (EIBFN). Contains the value at the time of the abort.					
SLDSO-ABEIBRCODE	05	C	X(06)	60	65
Exec Interface Block RCODE (EIBRCODE). Contains the value of the first 3 bytes at the time of the abort.					
SLDSO-ABEIBRESP	05	C	X(10)	66	75
CICS Command Response Code. Code at the time of the issued abort. Valid entry is spaces.					
SLDSO-ABEIBRESP2	05	C	X(08)	76	83
CICS Command Response Code 2. Code 2 at the time of the issued abort. Valid entry is spaces.					

Field Name	Level	Mode	Picture	Displacement	
SLDSO-DEBUG Debugging Option. An entry of Y causes the incoming and outgoing messages to be written to the Debug File.	05	C	X(01)	84	84
SLDSO-ALTINST Alternate Institution Number. Number of the alternate institution in which the operator's record can be found.	05	N	9(04)	85	88
SLDSO-DS-ERRORS Alternate Institution Errors.	05	G		89	99
SLDSO-EINST-NBR Alternate Institution Number Error. Valid entry is E , indicating an error in the alternate institution number.	07	C	X(01)	89	89
SLDSO-EREQ-CODE Request Code Error. Valid entry is E , indicating an error in the request code.	07	C	X(01)	90	90
SLDSO-EOPER-ID Operator ID Error. Valid entry is E , indicating an error in the operator ID.	07	C	X(01)	91	91
SLDSO-EMSG-FORMAT Message Format Error. Valid entry is E , indicating an error in the message format code.	07	C	X(01)	92	92
SLDSO-EAMT-RECKEY Application Management Record Key error. Valid entry is E , indicating an error in the Application Management Record and/or the application management application code.	07	C	X(01)	93	93
SLDSO-ENBR-FIELDS Number of Fields Error. Valid entry is E , indicating an error in the number of fields.	07	C	X(01)	94	94
SLDSO-EPASSWORD Operator's Password Error.	07	C	X(01)	95	95
SLDSO-ECIFAC CIFAC Error. Valid entry is E , indicating an error in the CIFAC code.	07	C	X(01)	96	96
SLDSO-EEDIT-OPT Edit Option Error. Valid entry is E , indicating an error in the output edit option.	07	C	X(01)	97	97
SLDSO-EDECIMAL-OPT Decimal Option Error. Valid entry is E , indicating an error in the decimal option.	05	C	X(01)	98	98
SLDSO-EEXTERNALID Security Transaction ID Error.	07	C	X(01)	99	99

Field Name	Level	Mode	Picture	Displacement	
SLDSO-MSGNBRX Application Program Message Number Area.	05	G		100	106
SLDSO-MSGNBR Application Program Message Number. A value of zeros indicates no message.	09	C	X(06)	100	105
FILLER Not used.	09	C	X(01)	106	106
SLDSO-CIFAC CIF Application Code Used. For example, DDA , indicating Demand Deposit Accounting.	05	C	X(03)	107	109
SLDSO-USERCNTRLs User Controls Used. User area.	05	C	X(15)	110	124
SLDSO-EXTERNALID External ID Used. MICM transaction security code. This code must be in the Operator Dialogue Record with the operator specified in the SLDSO-OPER-ID field.	05	C	X(08)	125	132
SLDSO-DECIMAL-OPT Decimal Option Used. Valid entries are: D Test for correct decimal positioning in incoming message and place the decimal in outgoing message fields. N Ignore decimals in incoming message. No decimals in outgoing message.	05	C	X(01)	133	133
SLDSO-EDIT-OPT Numeric Fields Output Edit Options Used. Valid entries are: D Do not suppress leading zeros and trailing spaces. N Normal numeric editing controlled by the Print Format Code on the Application Management Table. S Suppress leading zeros and trailing spaces. Fields of all zeros contain one zero, and fields of all spaces contain one space.	05	C	X(01)	134	134
SLDSO-GLOBAL-ABORT Global Abort Control. When SSL010 was been invoked with a CICS LINK, Y indicates that the caller must issue the global abort; N indicates not to issue the global abort.	05	C	X(01)	135	135
SLDSO-ALL-FLDS All Fields Option Used. Y causes all fields in the function message to be returned.	05	C	X(01)	136	136
SLDSO-TRANSTART Transaction Start Time. Time the work unit was initiated. If field contains zeros, SSL010 uses EIBTIME.	05	N	9(07)	137	143

Field Name	Level	Mode	Picture	Displacement	
SLDSO-APPLSEQ	05	N	9(05)	144	148
Application Sequence Number. Available for application-specific reporting requirements. Refer to the application being processed for required information.					
SLDSO-WORKID	05	C	X(08)	149	156
Work Unit Transaction ID. External transaction name associated with this request. Refer to the application being processed for required information.					
SLDSO-API-VERB	05	N	9(04)	157	160
Application Program Interface Request Verb.					
SLDSO-PASSWORD	05	C	X(08)	161	168
Operator Password. User-defined password used by the application to verify an operator ID before being allowed to continue using the system. This field should only be passed the first time or if a password error is indicated.					
SLDSO-FILLER	05	C	X(105)	169	273
Not used.					
SLDSO-FIELDS-LGTH	05	N	9(05)	274	278
Fields Length. Length of SLDSO-FIELDS. The value in this field plus the length of SLDSO-CONSTANT-AREA equals the total length of the message.					
SLDSO-NBR-FIELDS	05	N	9(04)	279	282
Number of Fields. Number of fields in the message.					
SLDSO-MSG-AREA	05	C	X(102)	283	384
Message Area. Normally contains the abort message text.					
SLDSO-FIELDS	03	C	X(14976)	385	15360
Fields Area.					
SLDSO-FIELDO	03	C	X(01)	385	15360
REDEFINES SLDSO-FIELDS. OCCURS 14976 TIMES.					
SLDSO-FIELD	03	G		385	15360
REDEFINES SLDSO-FIELDS.					
SLDSO-DATA-REC-ID	05	C	X(03)	385	387
Record ID. Application Management Record ID.					
SLDSO-DATA-ID	05	N	9(03)	388	390
Field Number. Field number for this field. Number is defined on the Application Management Table.					
SLDSO-DATA-APPL	05	C	X(01)	391	391

Field Name	Level	Mode	Picture	Displacement	
Application Management Application Code.					
SLDSO-DATA-ATTR	05	C	X(01)	392	392
Field Attribute. Used for communicating field status. Valid entries are:					
E Error in field.					
I Inquiry. Request information from host.					
M Field Missing. Allows data to be passed back from the function message instead of sending back data from the original host interface message. This provides the capability for fields that were not originally sent to be returned with data set by the function program.					
SLDSO-DATA-FIELD	05	C	X(80)	393	472
Field Information. Field is a variable from 1 – 80 positions.					
SLDSO-DATA-SEP	05	C	X(01)	473	473
Field Separator. Value Hex 05. Two field separators, back-to-back, indicate the end of the message.					
SLDSO-FIELD-FILLER	05	C	X(14887)	474	15360
Not used.					

SLS140 – Cross Institution/Non-Terminal Sign on Communication Area

SLS140 is a communication area which is passed to the Change /Cross Institution Interface program, SLS140.

The following description shows the format of SLS140-RECORD. Copybook is SLS140.

Field Name	Level	Mode	Picture	Displacement	
SLS140-RECORD	01	R		1	472
Cross Institution Interface/Non-Terminal Sign on Communication Area.					
SLS140-TAG-ID	03	C	X(08)	1	8
Record Identifier. Valid entry is *SLS140*. This is a required input field.					
SLS140-SECURITY-FUNC	03	N	9(04)	9	9
Security Function. This field services a request and return field. This is a required input field. Valid entries are:					
O Sign Off. Deletes the MIOH Sign on record.					
P Perform the Non-SGON Signon. Validates the operator, operator's password, institution number, and transaction code. Also, it populates the operator record area and new fields using information found on MICM Records 1001, 2014, 2018 and MIORG. If the option for MICM in the External Security Control Table, CGSIALST, is set to external, the operator and password are validated with the external security manager (RACF, CA-TOPSECRET). A temporary storage record beginning with 'MIOH' is created to maintain signon information. This function is used when transactions do not originate from the terminal signon to MICM. After signing on with the 'P' function, if an institution change is required, the new institution number is added to the Institution Number field (SLS140-INST).					
S For Transaction Authorization. Enter the transaction code in COM-EXTERNALID or SLS140-EXTERNALID. When entering S without using the 'P' function first, the 'P' function is automatically performed first. To perform a change institution without having the password, use this function with the previous institution number in the Institution Two (SLS140-INST2) field and the new institution number in the Institution field (SLS140-INST) and set the password field to spaces (SLS140-PASSWD).					
X For Cross Institution. Enter the institution number of the second institution in the Institution Number Two field. Upon a successful completion, the Organization ID (alias File Set Codes) field will contain the second institution's file suffixes. Cross institution validates the transaction code for Institution 2 and populates the operator record area and new fields using information found on MICM Records 1001, 2014, 2018 and MIORG. The operator must sign on to MICM using the normal MICM transaction code SGON. A temporary storage record beginning with "MIOH" is created to house the MIORA profiles used by SLS150 for field/record security. When the transaction is completed, it is recommended to change the Institution Number field back to the original institution number or set to "-1" and link again to SLS140 to delete the temporary storage record beginning with 'MIOH'.					

Field Name	Level	Mode	Picture	Displacement
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Valid entries upon returning from SSL140 are:

- A** Abort in SSL140.
- B** Invalid code in SLS140-SECURITY-FUNC.
- G** Function requested was successful.
- I** Institution Not Authorized. SLS140-MSGNBRG is the key for MICM Record 2011. This message should be read and displayed.
- O** Invalid Operator. Operator not found on MICM or External Security Manager.
- P** Invalid Password. Password match not found on MICM or External Security Manager.
- T** Transaction Not Authorized. COM-MSGNBRG has the key for MICM Record 2011. This message should be read and displayed.

SLS140-INST	03	N	9(04)	10	13
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Institution Number. The institution number used at signon when using the Cross Institution 'X' function or the Institution Number to change to when signing on with the "P" function. This is a required input field.

SLS140-INST2	03	NS	9(04)	14	17
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Institution Number Two. When performing the Cross Institution function, enter the cross to institution number in this field. After completing the Cross Institution function, the caller should enter either the primary institution number of a value of -1 into this field and link to SSL140 to delete the cross institution temporary record.

SLS140-OPERID	03	C	X(08)	18	25
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Operator Identification Code. A user-defined code which authorizes an operator to access the online systems. This field is required. For transactions that do not have terminal, EIBTRMID is equal to hex zeros. This field must be unique for each operator. This is a required input field.

SLS140-PROFILE	03	C	X(08)	26	33
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Profile Identification. This field returns the ID of the profile that is used to control transaction authorization. It is the primary key to the Profile Resource Definition record.

SLS140-FILEOPTS2	03	G		34	58
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Organization ID (alias File Set Codes). This field returns the File Set Codes associated with Institution Two when performing the Cross Institution function, X.

SLS140-FILEOPT2	05	C	X(01)	34	58
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Organization ID (alias File Set Codes). OCCURS 25 TIMES.

SLS140-EXTERNALID	05	C	X(08)	59	66
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External Transaction ID. This field contains the access code of the external transaction. This is the transaction code that is used to perform transaction security. This is an input required field.

SLS140-MSGNBRG	03	G		67	73
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Message Number. This is the key to MICM Record 2011. This record shows the condition text.

Field Name	Level	Mode	Picture	Displacement	
SLS140-MANGER	05	N	9(02)	67	68
Internal Application Number. The application number for which this information applies. This application number is the internal number used by Infopoint. This number cannot be altered by the user. Valid entries are 00 – 99 .					
SLS140-MSGNBR	05	C	X(05)	69	73
Message Code. This part of the message number is defined by the Infopoint application.					
SLS140-ABORT-INFO	03	G		74	281
Abort Information. This area contains information to help the end user diagnose any CICS problems.					
SLS140-ABORT	05	B	S9(04)	74	75
Abort Code. The key to MICM Record 0404. This record contains the abort condition text. A return code of zeros indicates that there was no abort.					
SLS140-ABTRACE	05	B	S9(04)	76	77
Abort Trace Code. The program trace locator code used by the programmer to locate the code line in the aborted program. To locate the code line, search for the string of WS-TR <code>cccc</code> , where <code>cccc</code> is the trace code line in the aborting program.					
SLS140-ABPROGID	05	C	X(08)	78	85
Abort Program. The module name of the program that issued the abort.					
SLS140-ABFUNCTION	05	C	X(01)	86	86
Abort Function Code. Code returned by the I/O routine.					
b Good return.					
= Duplicate record.					
C File is closed.					
E End of file.					
F File is full.					
L API error occurred during logging.					
N Record not found.					
O Other API error. Return code is found in DBS-STAT.					
X Unknown return code.					
SLS140-ABEIBRESP	05	B	9(08)	87	90
EXEC Interface Block Response (EIBRESP). Contains a number corresponding to the RESP condition that occurred. These numbers are listed (in decimal) for the conditions that can occur during execution of the commands described in the CICS Application Programming Reference.					
SLS140-ABEIBRESP2	05	B	9(08)	91	94
EXEC Interface Block Response 2 (EIBRESP2). Contains more detailed information that may help explain why the RESP condition occurred. This field contains meaningful values, as documented with each command to which it applies. For requests to remote files, EIBRESP2 contains zeros. Values are found the CICS Application Programming Reference.					

Field Name	Level	Mode	Picture	Displacement	
SLS140-ABEIBFN	05	B	X(02)	95	96
EXEC Interface Block Function Code (EIBFN). Contains a code that identifies the last CICS command issued by the task. Valid entries are found in the CICS Application Programming Reference.					
SLS140-ABEIBRCODE	05	B	X(06)	97	102
EXEC Interface Block (EIBRCODE). Contains the CICS response code returned after the function requested by the last CICS command to be issued by the task has been completed. Valid entries are found in the CICS Application Programming Reference.					
SLS140-ABMSG	05	C	X(79)	103	180
Abort Message. Additional message to be displayed on the abort panel.					
SLS140-ORA-PROFILE	05	C	X(01)	181	181
Operator Record Authorization Profile. This field indicates if there are any Operator Record Authorization Profiles. If this field does not contain a 'Y' then do not perform any links to the Operator Record Authorization programs unless setting defaults. Valid entries are:					
N There are no Operator Record Authorization profiles. Y There are Operator Record Authorization profiles.					
SLS140-SRBMDB	05	C	X(100)	182	281
API Message Debugging Block.					
SLS140-SECURITY-INFO	03	G		282	289
Transaction Security Information.					
SLS140-UPDATE	05	C	X(01)	282	282
Record Update. Indicates if the record can be changed, added, or deleted.					
N Record can only be looked at. Y Record can be added, changed or deleted.					
SLS140-SECFUNC	05	C	X(01)	283	283
Security Function. Indicates what functions the operator is allowed to perform. Entries of M and N are only functional when the function code is included as part of the key. Refer to the entry edit codes and their respective key parameters. Valid entries are:					
B Create new records and maintain existing records. I Inquiry only. M Maintain existing records. N Create new records.					
SLS140-ADD-IND	05	C	X(01)	284	284
Add Indicator. Indicates if the operator is allowed to change records. Valid entries are:					
N Cannot add records. Y Can add records.					

Field Name	Level	Mode	Picture	Displacement	
SLS140-DELETE-IND	05	C	X(01)	285	285
Delete Indicator. Indicates if the operator is allowed to delete a record. Valid entries are: N Cannot delete records. Y Can delete records.					
SLS140-INQUIRY-IND	05	C	X(01)	286	286
Inquiry Indicator. Indicates if the operator is allowed to inquire on records. Valid entries are: N Cannot inquire records. Y Can inquire records.					
SLS140-CHANGE-IND	05	C	X(01)	287	287
Change Indicator. Indicates if the operator is allowed to change records. Valid entries are: N Cannot change records. Y Can change records.					
SLS140-MISC-IND	05	C	X(01)	288	288
Miscellaneous Indicator. Valid entries are: N Error overrides are not allowed. Y Error overrides are allowed.					
SLS140-REPORT-IND	05	C	X(01)	289	289
Report Indicator. Valid entries are: N Standard report writer/no high volume. Y Use report writer/high volume.					
SLS040GRPAREA	03	G		290	378
Operator Group Area.					
SLS140NAME	05	C	X(40)	290	329
Operator Name. Name of the operator. This field is used for reporting purposes.					
SLS140-PASSWD	05	C	X(08)	330	337
Operator Password. User-defined password used by the application to verify an operator ID before being allowed to continue using the system. Program SSL140 will always return spaces in this field. A value of hex 0102030405060708 will cause password validation to be bypassed.					
SLS140-DFAULT-INST	05	N	9(04)	338	341
Operator's Default Institution. The institution number that the operator will be signed on to when the institution number is not entered.					
SLS140-TIME	05	N	9(04)	342	345
Operator Time Limit. Time limit of terminal inactivity by an operator before the operator is automatically signed off. Format is HHMM, where HH-hours, MM-minutes. Entries must be greater than '0000' and less than '2401'.					

Field Name	Level	Mode	Picture	Displacement	
SLS140-APPLSECGRP Application Security Group. Reserved for future use.	05	G		346	355
SLS140-APPLSEC1 Application Security 01. This field provides an operator security level for the Financial Control System (FCS). It is used to extend the FCS institution Retro Transaction Indicator and Retro Number of Days fields to the operator level. Valid entries are:	07	C	X(02)	346	347
<ul style="list-style-type: none"> ↳ Retro dates are allowed as defined by the FCS institution Retro Transaction Indicator and Retro Number of Days fields. 01 Retro dates from the first day of last year up to the current processing date are allowed. 02 Retro dates from the first day of the current processing month up to the current processing date are allowed. 03 Retro dates from the first day of the current processing month up to the current processing date are allowed. Also, transactions into last month only are allowed up to 2 processing days into the current month. 					
SLS140-APPLSEC2 Application Security 02. This field provides an operator security level for the Financial Control System (FCS). It is used to define an operator manager level. Valid entries are:	07	C	X(02)	348	349
<ul style="list-style-type: none"> ↳ Non-manager Level Operator. This operator only has inquiry access to batches entered by other operators. 01 Manager Level Operator. This operator may add, change, delete, and release batches entered by any other operator. 					
SLS140-APPLSEC3 Application Security 03. Reserved for future use.	07	C	X(02)	350	351
SLS140-APPLSEC4 Application Security 04. Reserved for future use.	07	C	X(02)	352	353
SLS140-APPLSEC5 Application Security 05. Reserved for future use.	07	C	X(02)	354	355
SLS140-APPLSECRDF REDEFINES MIOPR-APPLSECGRP. Application Security Redefinition.	05	G		346	356
SLS140-APPLSECS OCCURS 5 TIMES. Application Security.	07	C	X(02)	346	356
SLS140-DATE-SEQ Date Sequence. Controls formatting and validating of dates for input and/or display. Valid entries are:	05	C	X(01)	357	357
<ul style="list-style-type: none"> N Not used. 1 Year, month, day. 2 Day, month, year. 3 Month, day, year. 					

Field Name	Level	Mode	Picture	Displacement	
4 Year, day, month.					
5 Day, year, month.					
6 Month, year, day.					
7 Day, alpha month, blank, year.					
8 Alpha month, day, blank, year.					
SLS140-DATE-DELIM	05	C	X(01)		
Date Delimiter. The character to use as the separator between the Year, Month, and Day fields. All characters other than N are permitted as a delimiter. An entry of N indicates that the Date Delimiter is not used.					
SLS140-TIME-DELIM	05	C	X(01)	358	358
Time Delimiter. The character to use as the separator between the hours, minutes, and seconds. All characters other than N are permitted as a delimiter. An entry of N indicates that the Time Delimiter is not used.					
SLS140-TIME-FORMAT	05	C	X(01)	359	359
Time Format. This indicates the use of a 12- or 24-hour clock. The 12-hour clock includes an a.m. or p.m. Valid entries are:					
N Time format is not used.					
1 12-hour clock.					
2 24-hour clock.					
SLS140-USE-CURNCODE	05	C	X(01)	360	360
Use Currency Code. Indicates if currency processing is to occur. Valid entries are:					
N No, currency processing will not occur.					
Y Currency processing will occur.					
SLS140-CURN-CODE	05	C	X(04)	361	364
Currency Code. The local currency code.					
SLS140-AMOUNT-OPT	05	C	X(01)	365	365
Amount Option. Controls the formatting of amounts and rates. Valid entries are:					
C Amounts and rates to be formatted according to the options defined on MICM Record 2018 (Currency Record).					
F Denotes that the delimiters and separators defined at the institution or operator level are to be used for all currencies.					
N Indicates that the amount option is not used.					
SLS140-LANG	05	C	X(02)	366	367
Language Code. Valid codes are defined on MICM Record 2002 (Valid Language Codes Table Record). Codes that can be used are indicated with a 'Y' in the usage field.					
SLS140-MENU-OPTION	05	C	X(01)	368	368
Menu Option. The Menu Option indicates whether to show all transactions on the menu or only the operator's menu. Valid entries are:					

Field Name	Level	Mode	Picture	Displacement
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b Show only transactions the operator is authorized to perform.				
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A Show all transactions.				
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SLS140-DISPLAY-MENU	05	C	X(01)	369	369
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Display Menu. This option is used to indicate if the menu is to be displayed. Valid entries are:

N Do not display menu. (Forces logo not to display).

Y Display menu.

Note: When transaction menu is entered, menu is displayed.

SLS140-DELAYED-MENU	05	C	X(01)	370	370
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Delayed Menu. This option indicates not to build menus at sign on time. Menu panel displays with no items on it. To build menu panels after sign on, enter transaction D MIMENU. Valid entries are:

N Delayed menu is not being used.
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Y Delayed menu is being used.

SLS140-GROUP	05	C	X(08)	371	378
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Group Option. Points to the Operator Authorization (OPA) and Operator Profile Authorization (OPP) records. When using this option, the OPA and OPP records are not used and should not be established for the Operator ID.

SLS140-FILEOPTS	03	C	X(25)	379	403
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Organization ID (alias File Set Codes). This field returns the File Set Codes associated with the Institution Number (SLS140-INST).

SLS140-FILEOPT	05	C	X(01)	379	403
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Organization ID (alias File Set Codes). OCCURS 25 TIMES.

SLS140-INST-OPTS	03	G		404	408
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Institution Level Options. Data is populated from MICM Record 2014.

SLS140-INST-OPT-1	05	C	X(01)	404	408
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MICM Record 0211/2023 Option. This option is used to indicate if MICM Record 0211 or 2023 is to be processed at the institution level.

Note: Refer to specific application for use. Valid entries are:

b Read MICM Record 0211 or 2023 from institution zero.

Y Read MICM Record 0211 or 2023 from specific institution.

SLS140-INST-OPT-2	05	C	X(01)	405	405
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AMT Field Display Option. If a panel is using the field name from the Application Management Table, pressing F16 will show the AMT information in place of the field name. This option is helpful when building new panels using Application Management. Valid entries are:

b Do not activate F16.

S Activate F16.

SLS140-INST-OPT-3	05	C	X(01)	406	406
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Field Name	Level	Mode	Picture	Displacement	
Reserved for future use.					
SLS140-INST-OPT-4 Reserved for future use.	05	C	X(01)	407	407
SLS140-INST-OPT-5 Reserved for future use.	05	C	X(01)	408	408
SLS140-DATE Current Date. Format is MMDDYYYY.	03	B	S9(09)	409	412
SLS140-NPROCDA Next Processing Date. Format is YYYYDDD.	03	PS	S9(07)	413	416
SLS140-INSTNAME Institution Name	03	C	X(45)	417	461
SLS140-FCL-EFF-PROC-DATE Financial Control System's Processing Data.	03	N	9(08)	462	469
SLS140-CURN-DECIMAL Currency Decimal. The number of digits that appear after the delimiter for amount fields. Data is from MICM Record 2018.	03	N	9(01)	470	470
SLS140-CURN-SEPARATOR Currency Separator Code. The Separator is the character that separates digits. For U.S. dollars it would be a ','. Data is from MICM Record 2018.	03	C	X(01)	471	471
SLS140-CURN-DELIMETER Currency Delimiter. The delimiter is the character that separates digits. For U.S. dollars it would be a '.'. Data is from MICM Record 2018.	03	C	X(01)	472	472

SLS150 – Record/Field Authorization Record

SLS150 is a communication record which is passed from the caller program to the Record/Field Authorization program, SSL150. The communication area to SSL150 is only a four-position area and contains the address of this record.

The following description shows the format of SLS150-RECORD. Copybook is SLS150.

Field Name	Level	Mode	Picture	Displacement	
SLS150-RECORD SSL150 Communication Record. This is the call block passed to SSL150.	01	R		1	67287
SLS150-FIXED-AREA Fix Area.	03	G		1	287
SLS150-RECID Record ID. The three-position API Record ID.	05	C	X(03)	1	3
SLS150-AMT-APPLID AMT Application ID. The one-position code assigned to an application. If the Record ID is an API Record ID, this field must be blank.	05	C	X(01)	4	4
SLS150-FILE-FUNCTION File Function. The actual I/O operation being done. A Add new record. C Change a record. D Delete a record I Inquire (look at) a record. M Change a record N Add new record.	05	C	X(01)	5	5
SLS150-EDIT Mask Data Edit. Valid entries are: N Data is not present for Mask Data processing. This code is used before sending a panel for its first display. The reason that this code would be used is to restrict any fields on the initial panel. Y Data is present for Mask Data processing.	05	C	X(01)	6	6
SLS150-COUNT Entry Count. The number of fields (SLS150-FIELD).	05	B	S9(04)	7	8
SLS150-OPERATOR-ID Operator Identification Code. A user-defined code which authorizes an operator to access the online systems.	05	C	X(08)	9	16

Field Name	Level	Mode	Picture	Displacement	
SLS150-OPERATOR-INST Institution Number. The institution number signed on to.	05	N	9(04)	17	20
SLS150-EMPLOYEE Employee Account. Valid entries are: N Not an employee account. Y Is an employee account.	05	C	X(01)	21	21
SLS150-DORMANT Dormant Account. Valid entries are: N Account is not dormant. Y Account is dormant.	05	C	X(01)	22	22
SLS150-ESCHEAT Escheat Account. Valid entries are: N Account does not have an escheat status. Y Account has an escheat status.	05	C	X(01)	23	23
SLS150-RETURN-CODE Return Code. Valid entries are: A Program aborted. E Error Message. Message Number present. The key to MICM Record 2011 is the Message Number (SLS150-MSGNBRG). G Good return.	05	C	X(01)	24	24
SLS150-RESTRICT-COUNT Restriction Count. The number of fields restricted.	05	B	S9(04)	25	26
SLS150-ABORT-INFO Abort Information. This area contains information that must be shown to the end user to diagnose problems that occur with CICS.	05	G		27	230
SLS150-ABORT Abort Code. This is the key to MICM Record 0404. This record contains text to be shown about the abort condition. A value of zeros indicates that there was not an abort.	07	N	9(04)	27	30
SLS150-ABTRACE Abort Trace Code. This is program trace locator code. This code is used by a programmer to locate the code line in the aborting program. Search for the string of WS-TRcccc, where cccc is the trace code line in the aborting program.	07	N	9(04)	31	34
SLS150-ABEIBFN EXEC interface block Function Code (EIBFN). Contains a code that identifies the last CICS command issued by the task. Valid entries are found in the CICS <i>Application Programming Reference Guide</i> .	07	C	X(02)	35	36

Field Name	Level	Mode	Picture	Displacement	
SLS150-ABEIBRCODE	07	C	X(06)	37	42
EXEC Interface Block (EIBRCODE). Contains the CICS response code returned after the function requested by the last CICS command to be issued by the task has been completed. Valid entries are found the CICS <i>Application Programming Reference Guide</i> .					
SLS150-ABPROGID	07	C	X(08)	43	50
Abort Program. The module name of the program that issued the abort.					
SLS150-ABFUNCTION	07	C	X(01)	51	51
Abort Function Code. The code returned by the I/O routine.					
b Good return. = Duplicate record C File is closed E End of file F File is closed L API error occurred during logging. N Record not found O Other API error. Return code is found in DBS-STAT. X Unknown return code.					
SLS150-SRBMDB	07	C	X(100)	52	151
API Message Debugging Block. Refer to record BICRSRB in the Runtime Components <i>Reference Guide</i> for format.					
SLS150-ABMSG	07	C	X(79)	152	230
Abort Message. Additional message to be displayed on the abort panel.					
SLS150-MSGNBRG	05	G		231	237
Message Number. This is the key to MICM Record 2011 which contains the text to be shown about the condition.					
SLS150-MANAGER	07	N	9(02)	231	232
Internal Application Number. The application number for which this information applies. This application number is the internal number used by Infopoint. This number cannot be altered by the user. Valid entries are 00 – 99 .					
SLS150-MSGNBR	07	C	X(05)	233	237
Message Code. This part of the message number is defined by the Infopoint application.					
SLS150-SET-ERROR	05	C	X(01)	238	238
Set Error Attributes Option. Valid entries are:					
N Do not set error attributes. Y Set error attributes. After Mask Data processes has completed and there are restriction on the field, will return the error attributes, emphasizes important (I) and visual error (E). Note that the Mask Data Edit (SLS150-EDIT) must be set to 'Y'.					

Field Name	Level	Mode	Picture	Displacement	
SLS150-SET-DEFAULT	05	C	X(01)	239	239
Set Default Attributes Option. Valid entries are:					
N Do not set default attributes.					
Y Set default attributes. If there is no restriction, will return the attributes, emphases normal (N) and visual input (D) if the File Function is Input (I), and emphases optional (O) and visual input (I) for all other File Function codes.					
SLS150-ABEIBRESP	05	B	9(08)	240	243
EXEC Interface Block Response (EIBRESP). Contains a number corresponding to the RESP condition that occurred. These numbers are listed (in decimal) for the conditions that can occur during execution of the commands described in the CICS <i>Application Programming Reference Guide</i> .					
SLS150-ABEIBRESP2	05	B	9(08)	244	247
EXEC Interface Block Response 2 (EIBRESP2). Contains more detailed information that may help explain why the RESP condition occurred. This field contains meaningful values, as documented with each command to which it applies. For requests to remote files, EIBRESP2 contains zeros. Valid entries are found the CICS <i>Application Programming Reference Guide</i> .					
SLS150-FILLER	05	C	X(40)	248	287
Reserved for future use.					
SLS150-GRP-FIELDS	03	G		288	67287
Group Fields.					
SLS150-FIELDS	05	G		288	67287
Fields. Variable field areas occurs from 0 to 1000 times depending on the Entry Count.					
SLS150-FIELD	07	G		288	354
Field. Field information.					
SLS150-FIELDNAME	09	C	X(15)	288	302
SQL Name. SQL Token Name of the field in the database.					
SLS150-DATA	09	C	X(50)	303	352
Field Data. Data must be in display format. When numeric data is used, leading zero must be entered. A five position numeric field would be entered as 00123. Placing low values into this field will cause the mask data processing to be bypassed for this field.					
SLS150-SET-VID	09	C	X(01)	353	353
Visual Identity. Valid entries are:					
b None. Field does not have and restriction or default setting.					
D Display. Field is protected.					
E Error. Field is unprotected.					
I Input. Field is unprotected.					

Field Name	Level	Mode	Picture	Displacement
SLS150-SET-EMP	09	C	X(01)	354 354

Emphasis Level Codes. Valid entries are:

- b** None. Field does not have and restriction or default setting.
- H** Hidden. Field is hidden from the user emphasis.
- I** Important. Field is important and deserves greater emphasis.
- N** Normal. Field is of normal importance.
- O** Optional. Field does not require user input.

SLS160-COMM-AREA – SSL160 Communication Area

The SLS160 is a communication area which is passed from the caller program to the Operator Record Authorization Security Interface program, SSL160.

The following description shows the format of SLS160-COMM-AREA. Copybook is SLS160. (SLS160A for Assembler)

Field Name	Level	Mode	Picture	Displacement	
SLS160-COMM-AREA SSL160 Communication Area. This is the call block passed to SSL160.	01	R		1	384
SLS160-TAG-ID Record Identifier. Valid entry is *SLS160*.	03	C	X(08)	1	8
SLS160-RECID Record ID. The three-position API record ID.	03	C	X(03)	9	11
SLS160-AMT-APPLID AMT Application ID. The one-position code assigned to an application. If the Record ID is an API Record ID, this field must be blank.	03	C	X(01)	12	12
SLS160-FILE-FUNCTION File Function. The actual I/O operation being done. A Add a new record. C Change a record. D Delete a record. I Inquire (look at) a record. M Change a record N Add a new record.	03	C	X(01)	13	13
SLS160-OPERATOR-ID Operator Identification Code. A user-defined code which authorizes an operator to access the online systems.	03	C	X(08)	14	21
SLS160-OPERATOR-INST Institution Number. The institution number to sign on to.	03	N	9(04)	22	25
SLS160-EDIT Mask Data Edit. Valid entries are: N Data is not present for Mask Data processing. This code is used before sending a panel for its first display. The reason that this code would be used is to restrict any fields on the initial panel. Y Date is present for Mask Data processing.	03	C	X(01)	26	26

Field Name	Level	Mode	Picture	Displacement	
SLS160-SET-ERROR	03	C	X(01)	27	27
Set Error Attributes Option. Valid entries are:					
N Do not set error attributes.					
Y Set error attributes. After Mask Data processes has completed and there are restriction on the field, will return the error attributes, emphases important (I) and visual error (E). Note that the Mask Data Edit (SLS160-EDIT) must be set to 'Y'.					
SLS160-SET-DEFAULT	03	C	X(01)	28	28
Set Default Attributes Option. Valid entries are:					
N Do not set default attributes.					
Y Set default attributes. If there is no restriction, will return the attributes, emphases normal (N) and visual input (D) if the File Function is Input (I), and emphases optional (O) and visual input (I) for all other File Function codes.					
SLS160-ABORT-INFO	03	G		29	249
Abort Information. This area contains information that must be shown to end user for diagnose problems that occurs with CICS.					
SLS160-ABORT	05	B	9(04)	29	30
Abort Code. This is the key to MICM Record 0404. MICM Record 0404 contains text to be shown about the abort condition. A value of zeros indicates that there was no abort.					
SLS160-ABTRACE	05	B	9(04)	31	32
Abort Trace Code. This is program trace locator code. This code is used by a programmer to locate the code line in the aborting program. Search for the string of WS-TRcccc, where cccc is the trace code line in the aborting program.					
SLS160-ABPROGID	05	C	X(08)	33	40
Abort Program. This is the module name of the program that issued the abort.					
SLS160-ABFUNCTION	05	C	X(01)	41	41
Abort Function Code. This is the code returned by the I/O routine.					
b Good return.					
= Duplicate record					
C File is closed					
E End of File					
F File is closed					
L API error occurred during logging.					
N Record not found					
O Other API error. Return code is found in DBS-STAT.					
X Unknown return code.					
SLS160-ABMSG	05	C	X(79)	42	120
Abort Message. Additional message to be displayed on the abort panel.					

Field Name	Level	Mode	Picture	Displacement	
SLS160-ABEIBRCODE	05	C	X(06)	121	126
EXEC Interface Block (EIBRCODE). Contains the CICS response code returned after the function requested by the last CICS command to be issued by the task has been completed. Values are found the CICS <i>Application Programming Reference Guide</i> .					
SLS160-ABEIBRESP	05	B	9(08)	127	130
EXEC Interface Block Response (EIBRESP). Contains a number corresponding to the RESP condition that occurred. These numbers are listed (in decimal) for the conditions that can occur during execution of the commands described in the CICS <i>Application Programming Reference Guide</i> .					
SLS160-ABEIBRESP2	05	B	9(08)	131	134
EXEC Interface Block Response 2 (EIBRESP2). Contains more detailed information that may help explain why the RESP condition occurred. This field contains meaningful values, as documented with each command to which it applies. For requests to remote files, EIBRESP2 contains zeros. Values are found the CICS <i>Application Programming Reference Guide</i> .					
SLS160-ABEIBFN	05	C	X(02)	135	136
EXEC Interface block Function Code (EIBFN). Contains a code that identifies the last CICS command issued by the task. Values are found the CICS <i>Application Programming Reference Guide</i> .					
SLS160-MSGNBRG	05	G		137	143
Message Number. This is the key to MICM Record 2011 which contains the text to be shown about the condition.					
SLS160-MANAGER	07	N	9(02)	137	138
Internal Application Number. The application number for which this information applies. This application number is the internal number used by Infopoint. This number cannot be altered by the user. Valid entries are 00 – 99 .					
SLS160-MSGNBR	07	C	X(05)	139	143
Message Code. This part of the message number is defined by the Infopoint application.					
SLS160-API-STAT	05	C	X(02)	144	145
Application Program Status Code. Refer to the Runtime Components <i>Reference Guide</i> for this information.					
SLS160-API-RETURN	05	N	9(04)	146	149
Application Program Return Code. The code associated with the Application Program Status code. Refer to the Runtime Components <i>Reference Guide</i> .					
SLS160-SRBMDB	05	C	X(100)	150	249
API Message Debugging Block. See copybook BICRSRB in the runtime for format.					

Field Name	Level	Mode	Picture	Displacement	
SLS160-RETURN-CODE	03	C	X(01)	250	250
Return Code. Return code from program SSL150.					
A Program Aborted.					
E Error message. Message Number present. The key to MICM Record 2011 is the Message Number (SLS160-MSGNBRG).					
G Good return.					
SLS160-RESTRICT-COUNT	03	B	S9(04)	251	252
Restriction Count. The number fields restricted.					
SLS160-MESSAGE-LGTH	03	B	9(08)	253	256
Message Length. Total length of the Response message.					
SLS160-RESPONSE-ADDR	03	B	Pointer	257	260
Response Address. Address of the Operator Record Authorization security response message. (Copybook SLS160R). The value of this field must be returned.					
SLS160-RECORD-ADDR	03	B	Pointer	261	264
Record Address. The address of the record being processed. This is a required input field.					
SLS160-SLS150-ADDR	03	B	Pointer	265	268
SLS150 Address. Address of the call block of SSL150 Record. (Copybook SLS150). The value of this field must be returned.					
SLS160-MIAMTW-ADDR	03	B	Pointer	269	272
Application Management Table Address. Address of the AMT storage area. (Copybook MIAMTW) The value of this field must be returned.					
SLS160-NEW-AMT	03	C	X(01)	273	273
New Application Management Table. Indicates the status of the Application Management Table. This field must set to a space the first time a call is made to SSL160. If the Record ID or AMT Application ID is changed, set this field to a 'Y'. Program SSL160 will always return a value of 'N'.					
b First call to SSL160.					
N Using the same AMT key as the previous call to SSL160.					
Y The Record ID or AMT Application ID changed.					
SLS160-FILLER	03	C	X(107)	274	384
Reserved for future use.					

SLS160R-RESPONSE-MESSAGE – SSL160 Response Communication Area

The SLS160R is a communication area which is passed to the caller program from the Operator Record Authorization Security Interface program, SSL160.

The following description shows the format of SLS160R-RESPONSE-MESSAGE. Copybook is SLS160R. (SLS160RA for assembler)

Field Name	Level	Mode	Picture	Displacement	
SLS160R-RESPONSE-MESSAGE SSL160 Response Area. This is the call block passed back from to SSL160.	01	R		1	26010
SLS160-FIX-AREA Fix Area.	03	G		1	10
SLS160-TAG-ID Record Identifier. Valid entry is *SLS160R.	05	C	X(08)	1	8
SLS160R-ENTRYCNT Entry Count. The number of field entries.	05	B	9(04)	9	10
SLS160R-GRP-FIELDS Group Fields.	03	G		11	26010
SLS160R-FIELDS Fields. Variable fields area occurs from 0 to 1000 times depending on the Entry Count.	05	G		11	26010
SLS160R-FIELD Field. Field information.	07	G		11	36
SLS160R-FLDNBR Field Number. Number that is assigned to the Data Base field within this record.	09	P	9(03)	11	12
SLS160R-SQLNAME SQL Name. SQL Token Name of the field in the database.	09	C	X(15)	13	27

Field Name	Level	Mode	Picture	Displacement
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SLS160R-ENTRYTYPE	09	C	X(01)	28 28
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Field Entry Type. Indicates special attributes for the field. Valid entries are:

- +** Multiple Field. I.E. (GLACCT+CNTR). This field can be bypassed.
- A** Customer key accumulated value for RCIF only.
- B** Customer key tie breaker for RCIF only.
- C** Customer key alpha portion for RCIF only.
- D** Date audit.
- E** Effective date MICM key only.
- F** Filler area in MICM key.
- G** Region MICM key only.
- H** Field contains the heading information only used by the print program.
- I** Field is contained in the key area and is the institution number.
- J** Date. Format is YYYYMMDD. This date is stored by subtracting 99999999. For example, 19950228 is stored as 8004977J.
- K** Field is contained in the key area.
- L** Record length.
- M** Model MICM key only.
- N** Normal field.
- O** Indicator MICM only.
- Q** MICM record number MICM only.
- R** Field is reserved.
- S** Field is the status field used for MICM maintenance.
- T** Time audit.
- U** User audit.
- X** Normal field but exclude from Maintenance Journal.

SLS160R-EFORMATCD	09	N	9(01)	29 29
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Edit Format Code. Defines the format of the field on the Master Record. Valid entries are:

- 1** Alphanumeric.
- 2** Numeric display signed.
- 3** Numeric packed decimal signed.
- 4** Numeric binary signed.
- 6** Numeric display.
- 7** Numeric packed decimal.
- 8** Numeric binary.

SLS160R-EFLDID	09	X	X(01)	30 30
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Field Identification Code. Indicates what type of data is in the field. It is used for special processing and/or security checking. Valid entries are:

- b** Not a special field.
- A** Currency Amount. Uses Procedure copybook SRP089 or SRP090.
- B** Date International Edit.
- C** Currency Code.
- D** Currency Decimal (Rates, Numbers and Counts). Uses Procedure copybook SRP089 or SRP090.

Field Name	Level	Mode	Picture	Displacement	
E Employee.					
F Currency Amount (Decimal Shifting). Uses Procedure copybook SRP189 or SRP190.					
G Currency Decimal (Rates, Numbers and Counts). Uses Procedure copybook SRP189 or SRP190.					
H Escheat.					
I Effective Date. (ISO Format).					
M MICR Type.					
N Account Number.					
O Dormant.					
P Postal Code.					
S State.					
T RCIF Type.					
U Status.					
V Province.					
X Product Code.					
Y City.					
Z ZIP Code.					
SLS160R-RDISPLACE	09	B	9(04)	31	32
Record Field Displacement. Position in the record in which the field starts.					
SLS160R-RLGTH	09	B	9(02)	33	34
Record Field Length. Number of positions used in the record. Valid entries are 01 – 80 .					
SLS160R-SET-VID	09	C	X(01)	35	35
Visual Identity.					
b None. Field does not have and restriction or default setting.					
D Display. Field is protected.					
E Error. Field is unprotected.					
I Input. Field is unprotected.					
SLS160R-SET-EMP	09	C	X(01)	36	36
Emphasis Level Codes.					
b None. Field does not have and restriction or default setting.					
H Hidden. Field is hidden from the user emphasis.					
I Important. Field is important and deserves greater emphasis.					
N Normal. Field is of normal importance.					
O Optional. Field does not require User input.					

WS-CIFAPPLCODES – Working Storage Application Code Table

This copybook is used by the Infopoint applications to convert alpha application codes to/from numeric application numbers (internal and external). Copybook is SLW001.

Field Name	Level	Mode	Picture	Displacement	
WS-CIFAPPLCODES Application Code Table.	01	R		1	506
FILLER Not used.	03	C	X(11)	1	11
FILLER Not used.	03	C	X(11)	12	22
FILLER Not used.	03	C	X(11)	23	33
FILLER Not used.	03	C	X(11)	34	44
FILLER Not used.	03	C	X(11)	45	55
FILLER Not used.	03	C	X(11)	56	66
FILLER Not used.	03	C	X(11)	67	77
FILLER Not used.	03	C	X(11)	78	88
FILLER Not used.	03	C	X(11)	89	99
FILLER Not used.	03	C	X(11)	100	110
FILLER Not used when processing a Demand Deposit transaction code.	03	C	X(11)	111	121
FILLER Not used.	03	C	X(11)	122	132
FILLER Reserved for CICS.	03	C	X(11)	133	143

Field Name	Level	Mode	Picture	Displacement	
FILLER Field names in LSS-KEY11 are used to put data in this area.	03	C	X(11)	144	154
FILLER Field names from previous keys are used.	03	C	X(11)	155	165
FILLER Field names from previous keys are used.	03	C	X(11)	166	176
FILLER Field names from previous keys are used.	03	C	X(11)	177	187
FILLER Field names from previous keys are used.	03	C	X(11)	188	198
FILLER Field names from previous keys are used.	03	C	X(11)	199	209
FILLER Field names from previous keys are used.	03	C	X(11)	210	220
FILLER Field names from previous keys are used.	03	C	X(11)	221	231
FILLER Not used.	03	C	X(11)	232	242
FILLER Field names from previous keys are used.	03	C	X(11)	243	253
FILLER Not used.	03	C	X(11)	254	264
FILLER Not used.	03	C	X(11)	265	275
FILLER Not used.	03	C	X(11)	276	286
FILLER Not used.	03	C	X(11)	287	297
FILLER Not used.	03	C	X(11)	298	308

Field Name	Level	Mode	Picture	Displacement	
FILLER Not used.	03	C	X(11)	309	319
FILLER Not used.	03	C	X(11)	320	330
FILLER Not used.	03	C	X(11)	331	341
FILLER Not used.	03	C	X(11)	342	352
FILLER Not used.	03	C	X(11)	353	363
FILLER Not used.	03	C	X(11)	364	374
FILLER Not used.	03	C	X(11)	375	385
FILLER Not used.	03	C	X(11)	386	396
FILLER Not used.	03	C	X(11)	397	407
FILLER Not used.	03	C	X(11)	408	418
FILLER Not used.	03	C	X(11)	419	429
FILLER Not used.	03	C	X(11)	430	440
FILLER Not used.	03	C	X(11)	441	451
FILLER Not used.	03	C	X(11)	452	462
FILLER Not used.	03	C	X(11)	463	473

Field Name	Level	Mode	Picture	Displacement	
FILLER Not used.	03	C	X(11)	474	484
FILLER Not used.	03	C	X(11)	485	495
FILLER Not used.	03	C	X(11)	496	506
WS-CIFAPPLCODESR REDEFINES WS-CIFAPPLCODES.	01	R		1	506
WS-CIFAPPLCODE OCCURS 46 TIMES. Application Code Table Record.	03	G		1	506
WS-CIFAC Application Code. Code identifying the application being processed online. User-defined. This code is the application code used by Infopoint and can be altered. Valid entries are:	05	C	X(03)	1	3
ACH Automated Clearing House.					
ANL Account Analysis.					
BND Bonds.					
CIS Customer (CIF).					
CLA Commercial Loans.					
CLL CL Collateral.					
COL Loans Common Online.					
COM Lines of Commitments.					
CRL Credit Line.					
CSH Cash transfer.					
DDA Demand Deposits.					
DFP Dealer Floorplan.					
DLR Dealer.					
DRC Debit card.					
DUP De-dupe.					
EFA Expedited Funds Availability Scheduler (EFAS).					
EMP Employer.					
GLA General Ledger.					
GRP Analysis Group Accounts.					
GSV Golden Savings.					
ILA Installment Loans.					
INT Combined Interest Reporting.					
LCR Loans Common Reporting.					
MAC Master Card credit card.					
MTG Mortgage Loans.					
NOW Deposits NOW Accounts.					
NSF Exception Administrator (Demand Deposits).					

Field Name	Level	Mode	Picture	Displacement
NSS	Exception Administrator (Savings).			
NTS	CL Notes.			
ONC	Collection Management.			
ONR	Recovery Management.			
PAR	CL Participation.			
POD	SuperMICR II.			
RCF	Relationship CIF (RCIF).			
RFC	Relationship CIF Commercial Accounts.			
RFR	Relationship CIF Retail Accounts.			
RLP	Relationship Pricing.			
SAV	Savings.			
STM	Combined Statements Reporting.			
TCD	Time Investment (customer). Used to interface with Exception Administrator (EA).			
TDA	Time Investment account (GL extract for TDOA).			
THR	Threshold.			
TIN	Tax Identification Number.			
TIS	Time Investment (account).			
TSV	Time Investment account (GL extract for Savings).			
TTS	Teller.			
VIS	VISA credit card.			
WIR	Wire transfer.			

WS-CIFAN	05	N	9(02)	4	5
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Application Number. User-defined. This application number is the number used by Infopoint and can be altered. Valid entries are:

- | | |
|----|---|
| 00 | Analysis Group Accounts. |
| 00 | Profitability group. |
| 01 | Demand Deposits. |
| 03 | Credit Line. |
| 04 | Savings. |
| 05 | Teller. |
| 06 | Account Analysis. |
| 07 | Customer (CIF). |
| 08 | Time Investment (account). |
| 09 | Time Investment (customer). |
| 10 | SuperMICR II. |
| 11 | Time Investment account (GL extract for Savings). |
| 12 | Combined Statement reporting. |
| 13 | Combined Interest Reporting. |
| 15 | Exception Administrator (Demand Deposit). |
| 16 | Exception Administrator (Savings). |
| 20 | Golden Savings. |
| 21 | Mortgage Loans. |
| 22 | VISA credit card. |
| 23 | Master Card credit card. |

Field Name	Level	Mode	Picture	Displacement
24 Debit card.				
25 Installment Loans.				
27 Commercial Loans.				
28 General Ledger.				
29 Time Investment account (GL extract for TDOA).				
30 Dealer Floorplan.				
31 Threshold.				
32 Wire transfer.				
33 Cash transaction.				
34 Expedited Funds Availability Scheduler (EFAS).				
35 Loans Common Online.				
36 Employer.				
37 Dealer.				
38 Not used.				
39 Loans Common Reporting.				
40 Lines of Commitments.				
41 Bonds.				
42 CL Notes.				
43 CL Participation.				
44 CL Collateral.				
45 Collection Management.				
46 Recovery Management.				
47 Relationship CIF.				
48 Relationship CIF Retail Accounts.				
49 Relationship CIF Commercial Accounts.				
50 Relationship Pricing.				
51 Tax Identification Number.				
52 De-dupe.				
WS-CIFSN	05	N	9(02)	6 7
System Number. Infopoint defined. These numbers cannot be altered by the user.				
WS-CIFACCT	05	C	X(01)	8 8
Asset/Liability Code. Valid entries are:				
b Not applicable.				
A Assets.				
L Liabilities.				
WS-CIFFILE	05	C	X(01)	9 9
Application file must be verified. Valid entries are:				
b File is not read for verification.				
I The file must be read to verify the key and if it is not available the operator can override it.				
N File is not read for verification.				
Y The file must be read to verify the key and if it is not available the operator cannot override it.				
WS-CIFKEYFORMAT	05	C	X(01)	10 10

Field Name	Level	Mode	Picture	Displacement
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Key Format Used. Used exclusively by Relationship CIF. Valid entries are:

- b** Normal key format.
- 1** Branch and class are required key fields.
- 2** Branch is a required key field.

WS-CIFPRODCODE	05	C	X(01)	11	11
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Product Code. One-character product code for the application. Valid entries are:

- b** No product code assigned.
- A** Customer Profitability.
- B** Combined Statement.
- C** Tracker.
- D** Deposits/Expedited Funds Availability Scheduler (EFAS).
- E** Exception Administrator.
- F** FCS.
- G** CashTran (reserved).
- H** Not used.
- I** Time Investment.
- J** Account Analysis.
- K** Not used.
- L** Installment Loans.
- M** Master Information and Control.
- N** Not used.
- O** Mortgage Loans.
- P** SuperMICR II.
- Q** Commercial Loans.
- R** Relationship CIF (RCIF).
- S** Not used.
- T** Teller.
- U** De-dupe.
- V** Lines of Commitments.
- W** Not used.
- X** Not used.
- Y** Combined Interest.
- Z** Not used.
- 0-9** Not used.

WS-CIFASIZE	01	R	S9(04)	1	3
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Maximum number of occurrences being used.

WS-KEYFORMAT	01	R	X(01)	1	1
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Key Format Field. This field is used internally by Relationship CIF. No entry is required.

WS-TABFIL – Working Storage Table File

This file is used by MID100, MID200, MIL200, MIR100 and MID350 to load the table data when processing MICM panel/form/records. Copybook is MIS010.

File Statistics

File Type External Name	Disk WSTABL
Record Name WS-TABLREC	Library Name MIS010
	Record Length 20192 Bytes

WS-TABLREC – Working Storage Table Record

Field Name	Level	Mode	Picture	Displacement	
WS-TABLREC Working Storage Table Record.	01	R		1	20192
MIWT-KEY Record Key.	03	G		1	5
MIWT-KRECNBR MICM Record Number.	05	P	9(04)	1	3
MIWT-KSEQNBR Record Sequence Number. Sequence numbers greater than zero are used to accommodate data that does not fit in 1 record.	05	P	9(03)	4	5
MIWT-DATA Record Data.	03	G		6	20187
MIWT-FORMNAME Form Name. Description of form.	05	C	X(30)	6	35
MIWT-KEYTYPE Key Type. Key type on the master record. This refers to the contents of the 36 bytes in the key following the region number. Valid entries are:	05	N	9(01)	36	36
<ol style="list-style-type: none">1 All 36 blanks.2 First 8 alphanumeric, next 2 binary, last 26 blanks. Use for MICM Record 0982 only.3 All 36 alphanumeric.4 First 8 binary, next 2 alphanumeric, last 26 blanks.5 First 8 binary, next 2 alphanumeric, last 26 blanks.6 First 4 binary, next 6 alphanumeric, last 26 blanks.7 First 8 binary, next 4 binary, last 26 blanks.					

Field Name	Level	Mode	Picture	Displacement	
MIWT-NBRCARDS	05	P	9(02)	37	38
Number of Cards. Total number of cards required for entering all of the information contained on this form. Valid entries are 01 – 98 .					
MIWT-CARDSREQ	05	P	9(02)	39	40
Cards Required. Number of cards required to accept the set. This field is used with the New Set Edit field.					
MIWT-NEWSETEDIT	05	C	X(01)	41	41
New Set Edit. Identifies which cards of the set are required when entering for a new record. Valid entries are:					
<ul style="list-style-type: none"> b All cards must be present. 1 The minimum of Card Number 01 must be present. 2 The minimum of 1 card with a card number greater than 00 must be present. 3 All cards required must be present. 					
MIWT-VALIDMODEL	05	C	X(01)	42	42
Valid Model. Indicates whether this form can be used for modeling. This field is used in IQ HDT message definitions to indicate if the function module specified in User Program Name is written according to standards. Valid entries are:					
<ul style="list-style-type: none"> N Cannot be used for modeling. For IQ HDT message definitions, the function module is not written according to standards. Y Can be used for modeling. For IQ HDT message definitions, the function module is written according to standards. 					
MIWT-VALIDEFFDT	05	C	X(01)	43	43
Valid Effective Date. Indicates whether this form can have an effective date. Valid entries are:					
<ul style="list-style-type: none"> N Cannot have an effective date. Y Can have an effective date. 					
MIWT-VALIDREGION	05	C	X(01)	44	44
Valid Region. Indicates whether this form can have a region entered. Valid entries are:					
<ul style="list-style-type: none"> N Cannot have a region entered. Y Must have a region entered. 					
MIWT-BKNBREDIT	05	C	X(01)	45	45
Institution Number Edit. Indicates edit options for the institution to have an effective date. Valid entries are:					
<ul style="list-style-type: none"> O Use the operator's institution number. X Institution 000 (all zeros in the Institution Number). Y Use the operator's institution number and place 00 in the seventh and eighth positions of the routing transit number in the key. Z Use the institution number entered on the panel (used for MICM Form 0000). 					
MIWT-FILLER	05	C	X(01)	46	46

Field Name	Level	Mode	Picture	Displacement	
Not used.					
MIWT-PAGECNT	05	P	9(02)	47	48
Page Count. Indicates how many input panels are required to enter all of the information for this form.					
MIWT-NBRPLINES	05	P	9(02)	49	50
Number of Print Lines. Indicates to the master list program how many lines it needs to print the information for this form. Valid entries are 01 – 99 .					
MIWT-ENTRYCNT	05	B	9(04)	51	52
Field Table Entry Count. Total number of Field Table Entries on this Table Record. If the value is less than 53 , it is assumed that this is the last Table Record for this form. If the value is 53 , the next Table Record must be read to know if there are any more entries.					
MIWT-ENTRYA	05	G		53	2066
Entry Area. Holds up to 265 field entries.					
MIWT-ENTRY0	07	C	X(4028)	53	4080
Field Entry 0. Field entries from the first table record for the panel/form being processed.					
MIWT-ENTRY1	07	C	X(4028)	4081	8108
Field Entry 1. Field entries from the second table record for the panel/form being processed.					
MIWT-ENTRY2	07	C	X(4028)	8109	12136
Field Entry 2. Field entries from the third table record for the panel/form being processed.					
MIWT-ENTRY3	07	C	X(4028)	12137	16164
Field Entry 3. Field entries from the fourth table record for the panel/form being processed.					
MIWT-ENTRY4	07	C	X(4028)	16165	20192
Field Entry 4. Field entries from the fifth table record for the panel/form being processed.					
MIWT-ENTRY	05	G		53	2066
REDEFINES MIWT-ENTRYA, OCCURS 265 TIMES.					
MIWT-FLDNBR	07	P	9(03)	53	54
Field Number. Unique number assigned to this field.					
MIWT-FLDSTACKNBR	07	P	9(03)	55	56
Field Stack Number. Unique number assigned to this field when there is more than 1 field with the same Field Number.					
MIWT-FLDNAME	07	C	X(12)	57	68
Field Name. Short name of the field. The name appears on the input panel and printed reports.					

Field Name	Level	Mode	Picture	Displacement	
MIWT-FLDSTACKLGTH	07	P	9(01)	69	69
Field Stack Length. Number of card positions used to contain the field stack number when the field stack number is greater than zero. The field stack number starts with the maintenance card, card number 99, after the field number.					
MIWT-ENTRYTYPE	07	C	X(01)	70	70
Field Entry Type. Indicates special attributes for this field. Valid entries are:					
H Field contains the heading information only used by program MIR100.					
I Field is internally set and is not governed by the table except for printing purposes.					
K Field is contained in the key area.					
N Normal field.					
R Field is reserved.					
S Field is the status field used for maintenance.					
MIWT-DECIMAL	07	P	9(01)	71	71
Decimal Position. Position of the assumed decimal point. (e.g., Number 1111.222 MIT-DECIMAL value is 3.)					
MIWT-EDITINFO	07	G		72	98
Edit Information. This group contains information on how to edit this field.					
MIWT-ENONDEFAULT	09	C	X(01)	72	72
Non-default. Indicates if the Non-default ‘\’ character is valid for this field. Valid entries are:					
N Non-default character is not valid for this field.					
Y Non-default character is valid for this field.					
MIWT-EFORMATCD	09	N	9(01)	73	73
Edit Format Code. Defines the format of the field on the Master Record. Valid entries are:					
1 Alphanumeric.					
2 Numeric display.					
3 Numeric packed decimal.					
4 Numeric binary.					
5 Encrypted.					
MIWT-ECD	09	P	9(02)	74	75
Edit Code. Indicates what type of edit to perform on this field. Valid entries are:					
01 No edit. Field can contain any characters.					
02 Alphanumeric spaces allowed. Field can contain characters ‘a’ – ‘z’, ‘A’ – ‘Z’, ‘0’ – ‘9’ and blanks.					
03 Alphanumeric spaces not allowed. Field can contain characters ‘a’ – ‘z’, ‘A’ – ‘Z’ and ‘0’ – ‘9’.					
04 Numeric. Field can contain characters ‘0’ – ‘9’, ‘+0’ – ‘+9’ and ‘-0’ – ‘-9’.					
05 Numeric or spaces. Field can contain characters ‘0’ – ‘9’, ‘+0’ – ‘+9’, ‘-0’ – ‘-9’ or –all blanks.					
06 Numeric default zeros. Field can contain characters ‘0’ – ‘9’, ‘+0’ – ‘+9’, ‘-0’ – ‘-9’. If this field is not entered or contains blanks, it is zero filled.					

Field Name	Level	Mode	Picture	Displacement
07	Range.	The field is validated against the ranges specified in the Edit Control.		
08	Range default zeros.	If field is not entered the field is zero filled. If the field is entered it is validated against the ranges specified in the Edit Control.		
09	Range spaces OK.	If field is blanks it is accepted. If it is not blanks it is validated against the ranges specified in the Edit Control.		
10	Codes.	The field is validated against the codes specified in the Edit Control.		
11	Compare low.	The value must be less than the value specified in the Edit Control.		
12	Compare high.	The value must be greater than the value specified in the Edit Control.		
13	Date.	Standard date edit.		
14	Date.	Standard date edit with zero being valid.		
15	Date.	Standard date edit. Default is the current date from Institution Control File.		
16	Date.	Standard date edit with date not greater than current date on the Institution Control File.		
17	Date.	Standard date edit with date not less than current date on the Institution Control File.		
18	Date.	Standard date edit with date less than current date on the Institution Control File.		
19	Date.	Standard date edit with date greater than the current date on the Institution Control File.		
20	Verification done with the use of MICM Record 7001.	The edit control low can be used to override the key used to access the MICM Record 7001 table.		
21	Verification done with the use of MICM Record 7001.	There must be a field with a 'T' in the Field ID (EFLDID) present within the same record. If the code is a 'R' on the data base then the sequence numbers 001 through 499 are used. If the code on the data is a 'C', then sequence numbers 501 through 999 are used. If the code is not a 'R' or 'C', then all sequence numbers are used.		
22	Verify state.	Uses the standard routine SRP049 (Verify State Abbreviation), which is a 2-byte test.		
23	Holiday.	The year 1900 is purged and the standard date edit is performed.		
24	Verify ZIP code.	The ZIP code verified by checking it with the State Abbreviation. A State Abbreviation field with an edit code of 22 must be present within the same record. If there is more than 1 State Abbreviation the Field Number of State Abbreviation to be used with this ZIP code must be in the first 3 positions of Edit Control Field.		
25	Verify province for Canada.	A State Abbreviation field with an edit code of '28' must be present within the same record.		
26	Verify branch.	Verification is performed by reading MICM Record 2001.		
27	Special codes.	The field is validated against the codes specified in the Edit Control then a search is made for all other fields that have an Edit Code of '27'. If one is found then the data from that field is compared to this field, and if it is equal it is an error. If either field contains a space then compare is not performed and the edit is accepted.		
28	Verify country.	Uses the standard routine SRP052 – Verify Country Abbreviations, which is a 2-byte test.		
29	Foreign address.	Edits foreign address fields (MICM batch only).		
30	Special 2004.	Edits a 4-character field as 4 separate fields. Refer to the API Records chapter of this guide under MICM Record 2004 for a complete description.		
31	Date.	Date is filled by the application.		
32	Date.	Standard date edit where date must be equal to zeros or greater than the current date		

Field Name	Level	Mode	Picture	Displacement
on the Institution Control File.				
33	Alphanumeric, right justify and zero fill. Blanks are valid.			
34	MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8, and b9 .			
35	MICR sorter pockets. Magnetic Ink Character Recognition Sorter Pocket Codes for IBM 1419, 3890 and 3694. This code performs a cross check with forms that have a MICR Type Code. These forms are 0124, 0128, 0132, 0134, and 0136.			
MICR Type Code 1 is for a 1419. Valid entries are Sorter Pocket Codes for IBM 1419 only. Valid entries are bA, bB, bR, bX, b0, b1, b2, b3, b4, b5, b6, b7, b8 and b9 .				
MICR Type Code 2 is for a 3890. Valid entries are 11 – 16, 21 – 26, 31 – 36, 41 – 46, 51 – 56, 61 – 66, bX, Xb and XX .				
MICR Type Code 3 is for a 3694. Valid entries are: 01 through 24, bX, Xb and XX .				
36	Special Codes. The field is validated against the codes specified in the Edit Control. Each code is validated against each position in the field.			
37	Codes, default 0. Edit for valid codes and if nothing entered, default to zero.			
38	Codes, no missing test. Edit for valid codes and if nothing entered, bypass the missing entry test.			
39	Language. Verify the entry against the language code.			
40	A/N Upper, no spaces. Require entry for alphanumeric, upper case. If no entry, an error.			
41	Numeric, no missing test. Edit for numeric and if nothing entered, bypass the missing entry test.			
42	Range, no missing test. The field is validated against the ranges specified in the Edit Control and if nothing is entered, bypass the missing est.			
43	Compare low, no missing test. The value must be less than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
44	Compare high, no missing test. The value must be greater than the value specified in the Edit Control and if nothing is entered, bypass the missing test.			
45	Product Code. Verification is performed by reading MICM Record 2023.			
46	Officer/Employee. Verification is performed by reading MICM Record 0242.			
MIWT-ELGTH	09	B	9(02)	76 77
Field Length. Input length of this field. Valid entries are 01 – 63 .				
MIWT-EMAINTCONT	09	C	X(01)	78 78
Maintenance Continues. Indicates whether to continue with the next entry when maintenance is performed for this field. Valid entries are:				
N Do not continue with next entry.				
Y Continue with next entry.				
MIWT-ECONTROL	09	G		79 98
Edit Control. Area used in conjunction with the Field Edit Code for specifying codes and ranges. When it is used for codes, place a period '.' after the last entry unless the entire Edit Control area is used. Refer to Field Edit Code when data is needed in this field.				

Field Name	Level	Mode	Picture	Displacement	
MIWT-ECTLOW Edit Control Low. When the Field Edit Code is for a range, place the low value into this field. This field is also used to store the key to MICM Record 7001 when the Field Edit Code is set to 20 ; the first three positions are used for the MICM Record 7001 ID and the next three positions are used for the MICM Record 7001 Field Number.	11	C	X(10)	79	88
MIWT-ECTLHIGH Edit Control High. When the Field Edit Code is for a range, place the high value into this field.	11	C	X(10)	89	98
MIWT-ECTLONE REDEFINES MIWT-ECONTROL, PICTURE X(01).	09	C	20	79	79
MIWT-CARDINFO Card Information.	07	G		99	102
MIWT-CNBR Card Number. The card number that this field is in. Valid entries are 00 – 98 .	09	P	9(02)	99	100
MIWT-CDISPLACE Card Displacement. Card column that this field starts in. Valid entries are 08 – 72 . The Card Displacement plus the Field Length minus 1 cannot be greater than 72.	09	B	9(02)	101	102
MIWT-RECORDINFO Record Information. Defines the data attributes specific to the MICM Master Record.	07	G		103	107
MIWT-RINDICATOR Record Indicator. Indicates which record this field is on when there is more than 1 record on the master file with the same form number. Valid entries are: b First record. Also used when there is only 1 record. 1 – 9 Records 2 – 10.	09	C	X(01)	103	103
MIWT-RDISPLACE Record Field Displacement. Position in the record that this field starts in. Valid entries are 0001 – 4096 . The Record Field Displacement plus the Record Field Length minus 1 cannot be greater than 4096.	09	B	9(04)	104	105
MIWT-RLGTH Record Field Length. Number of positions used in the record. Valid entries are 01 – 63 .	09	B	9(02)	106	107
MIWT-SCREENINFO Screen Information. Defines the data attributes specific to the screens.	07	G		108	116
MIWT-SMAPNBR Screen Map Number. Screen map number where this field appears. Valid entries are 01 – 11 .	09	P	9(02)	108	109

Field Name	Level	Mode	Picture	Displacement	
MIWT-SPAGENBR	09	P	9(02)	110	111
Screen Page Number. Screen page number where this field appears. Value must be greater than 00 but not greater than the page count.					
MIWT-SDISPLACE	09	B	9(04)	112	113
Screen Displacement. Screen position number where this number appears. Valid entries are 0000 – 0161 depending on the Map Name:					
0000 – 0030	MIV2002.				
0000 – 0032	MIV2010.				
0000 – 0039	MIV2005.				
0000 – 0052	MIV2001.				
0000 – 0053	MIV2011.				
0000 – 0054	MIV2007.				
0000 – 0063	MIV2006.				
0000 – 0071	MIV2008.				
0000 – 0082	MIV2003.				
0000 – 0104	MIV2004.				
0000 – 0161	MIV2009.				
MIWT-SREQUIRED	09	C	X(01)	114	114
Screen Required. Indicates that this field must be entered. Slash (/) is placed on new panel for this field. Valid entries are:					
N	Field is not required to be entered, but can be entered.				
P	Protect from change. Field is entered for new but cannot be changed.				
Y	Field is required to be entered.				
MIWT-SFORMATCD	09	P	9(02)	115	116
Screen Format Code. Defines how the field appears when entered. Valid entries are:					
01	Alphanumeric.				
02	Numeric left justify.				
03	Numeric leading zeros.				
04	Numeric. Suppress leading zeros.				
MIWT-PRINTINFO	07	G		117	128
Print Information. Defines the data attributes specific for printing the Master File reports.					
MIWT-PFORMATCD	09	P	9(02)	117	118
Print Format Code. Defines how the field appears when entered. Valid entries are:					
01	Alphanumeric.				
02	ZIP Code: 99999-9999.				
03	Dollars and Cents: ZZZ,ZZZ,ZZZ,ZZZ.99-.				
04	Rate: ZZZZZZZZZ,ZZZ.99999.				
05	Number: ZZZZZZZ,ZZZ,ZZZ,ZZ9-.				
06	Telephone Number: 999/999-9999.				

MIWT-PLINENBR	09	P	9(02)	119	120
Print Line Number. Line number where this field is to be printed. Valid entries are 01 – 99 , but cannot be greater than the Number of Print Lines.					
MIWT-PDISPLACE	09	B	9(03)	121	122
Print Displacement. Starting position on the report line that field is printed. Valid entries are 000 – 132 . The Print Displacement plus the Print Field Length minus 1 cannot be greater than 132.					
MIWT-PLGTH	09	B	9(03)	123	124
Print Field Length. Length of the field on the report, and must include all editing characters. Valid entries are 001 – 132 .					
MIWT-PHEADLINENBR	09	P	9(02)	125	126
Print Heading Line Number. Line number where this field heading is printed. Valid entries are 01 – 99 , but cannot be greater than the Number of Print Lines.					
MIWT-PHEADDISPLACE	09	B	9(03)	127	128
Print Heading Displacement. Starting position on the report where the field heading is printed. Valid entries are 000 – 120 .					

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