



**2.06 ICM Transmission Code Information  
(ICMFLD/ICMERR) via CCF and CCF-II:  
Function User's Guide**



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## 1. Objectives of This Chapter

The objectives of this chapter are to:

- Describe DTC's ICMFLD and ICMERR functions
- Illustrate required record formats

## 2. System Overview

DTC's ICMFLD and ICMERR functions, which Participants can request, are used for the transmission of ICM field and error identifier codes and descriptions.

DTC creates two files of ICM codes and descriptions daily:

- **ICMFLD:** This file contains the complete list of fields used within the ICM system. For each field, ICMFLD provides description and a unique field identifier code. Please note that each ICM function or product has its own subset of the complete set of ICM fields provided in the ICMFLD file.
- **ICMERR:** contains the complete list of errors that can occur within an ICM transmission. For each error, ICMERR provides a unique error identifier code, together with full and abbreviated descriptions of the errors. Please note that error identifier codes are not unique to any ICM fields or field identifier codes. An error may be applicable to many fields; for example, "not numeric" can apply to any field that must be submitted in numeric format.

ICM users requesting the ICMFLD and ICMERR functions receive files containing machine-readable records that they can use in order to create ICM field and error files at their sites. Such files enable users to determine fields eligible for ICM transmission to DTC and to interpret any error identifier codes that DTC returns in response.

DTC constantly updates the ICMFLD and ICMERR files and, as new ICM functions or products are implemented, adds new fields and establishes corresponding errors. Users need request these updates only when function changes are announced.



## 2.1 Availability

The ICMFLD and ICMERR functions are normally available from approximately 4:00 pm until 2:30 pm (Eastern Time) the following day.

## 2.2 Transmission Modes

The ICMFLD and ICMERR functions are available via CCF and CCF-II, DTC's data transmission facilities.

- Users communicating with DTC via CCF-II (RJE, SNA/RJE, or NDM) should read the appropriate CCF-II system user guide.
- User communicating with DTC via CCFUSER should read the CCF User Guide before reading the remainder of this document.

Additional prerequisites for a thorough understanding of this document are a familiarity with DTC operating procedures and with computer operations.

## 2.3 Available Output Files

The selection of output files that users receive depends upon the transmission mode in use:

- Users requesting ICMFLD or ICMERR via CCF receive a file containing a CCF header record followed by all the ICMFLD field identifier codes or ICMERR error identifier codes.
- Users requesting ICMFLD or ICMERR via CCF-II receive a file containing CCF-II header and trailer records, separated by ICMFLD field identifier codes or ICMERR error identifier codes.

The following sections describe the CCF Header, the CCF-II Header and Trailer records, the ICMFLD Field Identifier record, and the ICMERR Error Identifier record.



### 3. Record Formats

#### 3.1 CCF Header Record

The first record on the function file is a header record when HEADER=YES is specified as CCFDTFDB parameter. The header record, illustrated below, contains information about the creation of the file.

Position	Length	Format	Field Name	CCF Header Record Format Description
1	6	Character	Data Type Requested	<i>aaaaaa</i> 6-character data type name with which the data was requested
7	6	Character	Data Type Created	<i>aaaaaa</i> 6-character data type name with which the data was created
13	8	Character	Data Date	<i>mm/dd/yy</i>
21	8	Character	DTC Data Load Date	<i>mm/dd/yy</i>
29	8	Character	DTC Data Load Time	<i>hh:mm:ss</i>
37	2	Binary	Record Size	Size of each data record
39	4	Binary	Block Count	Number of data blocks input to CCFDTFDB
43	4	Binary	Record Count	Number of data records
47	???	Character	Filler	DTC use only; do not use



### 3.2 CCF-II Header and Trailer Record

CCF-II Header and Trailer records, described below, are identical except for the first and last fields of each record.

Position	Length	Format	Field Name	CCF-II Header and Trailer Record Format Description
1	3	Character	Record ID	HDR      Header Record TLR      Trailer Record
4	4	Character	Signon ID	Signon ID
8	6	Character	Data Type Requested	6-character data type code
14	6	Character	Data Type Created	6-character data type code
20	8	Character	Data Creation Date	<i>mm/dd/yy</i>
28	8	Character	Data Load Date	<i>mm/dd/yy</i>
36	8	Character	Data Load Time	<i>hh:mm:ss</i>
44	4	Numeric	Record Length	Record Length of Data Requested
48	8	Numeric	Record Count	Number of Data Records in File
56	4	Numeric	Segments per Data Type	Number of 80-byte records per data type requested
60	15	Character	Filler	DTC use only; do not use
75	6	Numeric	Numbering Sequence	Used as a integrity check HDR      000000 TLR      999999



### 3.3 ICMFLD Field Identifier Record

The format of the ICMFLD Field Identifier record is described below.

Position	Length	Format	Field Name	ICMFLD Field Identifier Record Format Description
<b>Positions 1 through 26 constitute the Transaction Header</b>				
1	1	Character	Feedback Indicator	* (asterisk) = an output message in the new format
2	1	Character	Production/Test Indicator	P = production system message
3	6	Character	Record Type	ICMFLD
9	2	Character	Record Suffix	01
11	2	Numeric	Version Number	01
13	6	Character	User Reference Number	Spaces
19	8	Character	Addressee ID	8-character ID of the Participant or other entity for whom the transaction was created
27	4	Character	Field Identifier Code	Unique 4-character code assigned to a field that may be used in one or more types of ICM transaction; for example, GAAA
31	74	Character	Field Description	Description associated with the field identifier code (position 27); for example, "CUSIP Number"





### 3.4 ICMERR Error Identifier Record

The format of the ICMERR Error Identifier record is described below.

Position	Length	Format	Field Name	ICMERR Error Identifier Record Format Description
<b>Positions 1 through 26 constitute the Transaction Header</b>				
1	1	Character	Feedback Indicator	* (asterisk) = an output message in the new format
2	1	Character	Production/Test Indicator	P= production system message
3	6	Character	Record Type	ICMERR
9	2	Character	Record Suffix	01
11	2	Numeric	Version Number	01
13	6	Character	User Reference Number	Spaces
19	8	Character	Addressee ID	8-character ID of the Participant or other entity for whom the transaction was created
27	4	Character	Error Identifier Code	Unique 4-character code assigned to an error that may occur in one or more types of ICM transaction; for example, 9AAO
31	74	Character	Error Description	Detailed description of the error identified by the error identifier code (position 27); for example, "Invalid CUSIP—refer to system documentation"
105	12	Character	Abbreviated Error Description	Abbreviated description of the error identified by the error identifier code (position 27); for example "INVLD CUSIP"
117	10	Character	Active Date	<i>ccyy-mm-dd</i> date when DTC established the error code
127	2	Character	Filler	DTC use only; do not use