



## **CCF/CCF-II/MDH Transmission Guides**

# **16.10 CMR1/5: Function User's Guide**



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## 16.10 CMR1/5: Function User's Guide

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## 1.0 Introduction

The CMO Rates system is being developed to receive CMO rates and factors information which is sent to DTC by CMO banks. This information will be saved in the DTC's Announcement database to be used later by various systems.

This function is being offered over CCF, CCF-II and MDH. This is a combined User's Guide describing the CMR application for CCF, CCF-II and MDH.

Users should familiarize themselves with the DTC document *Interface Control Management CCF, CCF-II and MDH User's Guide for Transaction Input*. This ICM document describes new standards for transaction processing using DTC's automated systems.

### 1.1 CMR Function Description

A new service in the Computer to Computer Facility (CCF) and Mainframe Dual Host (MDH) has been developed.

The function names associated with each interface are as follows:

- 1. MDH - CMR1 available from 7:00 a.m. through 8:00 p.m. (Eastern Time)
- 1. CCF - CMR5 available from 7:00 a.m. through 8:00 p.m. (Eastern Time)
- 1. CCF-II - CMR5 available from 7:00 a.m. through 8:00 p.m. (Eastern Time)

A User may access the CMR system to transmit details of CMO cash rates to DTC.

When using the CMR system, the User will transmit these detail records to DTC. DTC will then response to the User with any errors that have been detected in the transmission.

After the transmission completes, DTC will edit the input transmission file. DTC responds with a Single Summary Total Record which provides totals for the User's details. In addition, if any editing errors were detected amongst the User's transmitted details, DTC responds with records that detail the detected errors.



## 2.0 CMO Rate Transactions

The two record types which appear in the transaction file are listed below, along with the basic rules for their processing.

Each record which appears in the transaction files must begin with a 26-byte prefix which describes the record to follow.

1. **CMO Rates Detail Data Record:** Contains detailed information regarding each CMR transaction. This CMR data record is mandatory for each CMR transmission sent by the User. The data record type is "CMRRTE".
2. **Transmission Trailer Record:** contains control information for all CMR details in the transmission. The CMR Trailer Record Type is "CMRTLRL". The CMR "CMRTLRL" record must be included as the LAST record of the CMR transmission; however, it is NOT to be included in record count tabulations. Totals appearing in the CMR Trailer Record will be verified by DTC.



## 2.1 CMR Transmission Data Record Formats

### 2.1.a Transaction Record Header

Transaction Header (1 of 1)				
Position	Length	Format	Field Name	Field Description
1	1	Character	Feedback Indicator	Used to indicate if any errors were encountered during processing. This field is to be left blank on input.
2	1	Character	Production/Test Indicator	Used to indicate whether the INDICATOR transaction is to be processed in the "Test" or "Production" environment. <b>This is a required field.</b> T = Test P = Production.
3	6	Character	Record Type	Value "CMR RTE".
9	2	Character	Record Suffix	Used to indicate the "Record #" on a single and multiple data records within a transaction. Default is "01" in this application.
11	2	Character	Version Number	Used to indicate which version (e.g.: latest or previous format) the data is in. Default is "01".
13	6	Character	User Reference Number	Used by transmitting party to uniquely identify the transaction (optional).
19	8	Character	Addressee	The entity on behalf of whom the transaction is processed. Right aligned, zero filled for full numeric addresses or "Mnnnnnnn" for non-full numeric addressees.



## 2.2 CMR Transaction Data Record (Record Type “CMR RTE”)

CMR Transaction Data Record Type “CMR RTE” (1 of 2)				
Position	Length	Format	Field Name	Field Description
<b>Transaction Header</b>				
1	1	Character	Feedback Indicator	Used to indicate if any errors were encountered during processing. This field is to be left blank on input.
2	1	Character	Production/Test Indicator	Used to indicate whether the INDICATOR transaction is to be processed in the “Test” or “Production” environment. <b>This is a required field.</b> T = Test P = Production.
3	6	Character	Record Type	Value “CMR RTE”.
9	2	Character	Record Suffix	Used to indicate the “Record #” on a single and multiple data records within a transaction. Default is “01” in this application.
11	2	Character	Version Number	Used to indicate which version (e.g.: latest or previous format) the data is in. Default is “01”.
13	6	Character	User Reference Number	Used by transmitting party to uniquely identify the transaction (optional).
19	8	Character	Addressee	The entity on behalf of whom the transaction is processed. Right aligned, zero filled for full numeric addresses or “Mnnnnnnn” for non-full numeric addressees.
27	9	Character	Bank ABA Number	<b>Required.</b> Identifies the sending bank.
36	9	Character	CUSIP	<b>Required.</b> CUSIP ID.



2.2 CMR Transaction Data Record (Record Type “CMR RTE”) (Continued)

CMR Transaction Data Record Type “CMR RTE” (2 of 2)				
Position	Length	Format	Field Name	Field Description
45	8	Character	Pay Date	<b>Required.</b> The payable date. Format MM/DD/YY.
53	14	Numeric	Paydown Factor	<b>Required.</b> Format 9(2)V9(12).
67	11	Numeric	Principal Cash Rate	Format 9(5)V9(6).
78	11	Numeric	Interest Cash Rate	Format 9(5)V9(6).
89	11	Character	Deferred Interest	Interest deferred to a later payment.
100	10	Character	Interest Coupon Rate	Stated interest rate of bond.
110	11	Character	Interest Shortfall	Interest lost due to payments.
121	14	Numeric	Previous Paydown Factor	Format 9(2)V9(12).





### 2.3 CMR Transmission Trailer Record (“CMRTLRL”)

CMR Transmission Trailer Record (“CMRTLRL”) (1 of 2)				
Position	Length	Format	Field Name	Field Description
<b>Transaction Header</b>				
1	1	Character	Feedback Indicator	Used to indicate if any errors were encountered during processing. This field is to be left blank on input.
2	1	Character	Production/Test Indicator	Used to indicate whether the INDICATOR transaction is to be processed in the “Test” or “Production” environment. <b>This is a required field.</b> T = Test Transmission P = Live (Production ) Transmission.
3	6	Character	Record Type	Value “CMRTLRL”
9	2	Character	Record Suffix	Always “01”.
11	2	Character	Version Number	Used to indicate the version number of this record layout.
13	6	Character	User Reference Number	Used by transmitting party to uniquely identify the transaction.
19	8	Character	Addressee	The entity on behalf of whom the transaction is processed. Right aligned, zero filled for full numeric addresses or “Mnnnnnnn” for non-full numeric addressees.
27	7	Numeric	Total Record Count	The total number of data records in this CMR transmission, exclusive of the Trailer Record. Must equal the DTC calculated total record count.



2.3 Transaction Record Header (Continued)

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**CMR Transmission Trailer Record (“CMRTL”)** (2 of 2)

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Position	Length	Format	Field Name	Field Description
34	13	Numeric	Total Quantity Number	The total Quantity amount in all the CMR data records received in transmission. must equal the DTC calculated total quantity amount, or zero if not applicable.
47	15	Numeric	Total Dollar Amount	The total Dollar amount in all the CMR data records received in transmission must equal the DTC calculated total quantity amount, or zero if not applicable.
62	9	Character	Bank ABA Number	<b>Required.</b> Identifies the sending Bank.

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### 3.0 CMR Response Record Output - Error Conditions

If any errors occur during processing, the following occurs:

- ! CCF/CCF-II Users receive their input record with 40 bytes of errors appended to the end of the record.
- ! MDH Users receive a 40-byte area for errors in their "06" return block.

The following describes the errors that can be received during the edit of a CMR Detail Record. This Error List describes both the Field Identifier and the Error Code. These codes are defines in the DTF files:

- ! ICMFLD for Field Identifiers.
- ! ICMERR for Error Codes.

Error Description	Error Field Code	Error Message Code
Invalid Record Type	AAAA	9AAA
Cutoff Quiesce	JAAA	9ABJ
Cutoff Invalid Function	JAAA	9AAA
Past Cutoff Time	AAAA	9AAL
Interest Rate Not Numeric	EAE5	9AAF
Principal Rate Not Numeric	EAE6	9AAF
Paydown Factor Not Numeric	FAAJ	9AAF
Previous Paydown Factor Not Numeric	FAAL	9AAF