

CCF/CCF-II/MDH Transmission Guides



5.20 Options Clearing Corp./ Collateral Loan Services CCF-II And MDH: OCC1/5 Function User's Guide



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5.20 OCC1 And OCC5: Function User's Guide

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1. Objectives of This Chapter

The objectives of this chapter are to:

- Give an overview of function OCC1 and OCC5
- Illustrate the formats of required records.

2. The OCC1 and OCC5 Function: Overview

This document describes how Participants can use the newly developed OCC service for transmitting OCC Release instructions to DTC.

This function is being offered over CCF, CCF-II and MDH. This is a combined user guide describing OCC1 and OCC5 for CCF, CCF-II and MDH.

Participants should familiarize themselves with the DTC document "INTERFACE CONTROL MANAGER 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.

Specifics relating to the operation, error processing and recovery or CCF, CCF-II and MDH transmissions are addressed in the ICM document

2.1 The OCC1 and OCC5 Functions

A new service in the Computer to Computer Facility (CCF) and Mainframe Dual Host (MDH) has been developed to Transmit various OCC Collateralization requests and approvals. Participant request to transfer collateral for value or a request to OCCD release to CNS. These requests are submitted by a Participant and must be approved by a pledgee and OCC for value, or approved by OCC for the release to CNS..

<u>Function Name</u>	<u>Start time</u>	<u>Cutoff time</u>
·MDH - OCC1		
OCCDIS (OCC1)	0300	1400
OCCCOLLR (Participant request shares)	0300	1100
OCCCOLLP (Pledgee approval)	0300	1300
OCCCOLLA (OCC Approval)	0300	1400
OCCCNRSRQ (Participant CNS Money)	0300	1100
OCCCNESA (OCC CNS Approval)	0300	1400

<u>Function Name</u>	<u>Start time</u>	<u>Cutoff time:</u>
·CCF - OCC5		
·CCF-II - OCC5		
OCCDIC (OCC5)	0300	1345
OCCCOLCR(Participant request shares)	0300	1045
OCCCOLCP (Pledgee approval)	0300	1245



OCCCOLCA (OCC Approval)	0300	1345
OCCCNSCQ (Participant CNS Money)	0300	1045
OCCCNSCA(OCC CNS Approval)	0300	1345

2.2 Availability

Although the DATA record formats are consistent over MDH, CCF and CCF-II, each system requires additional control records to aid in processing the data records. Following is an example of what is required as input from the user and what is returned from DTC in the response file.

<u>INPUT</u>	<u>OUTPUT</u>
MDH -- DATA Records only	See MDH User Guide
CCF -- DATA Records TRAILER Record	CCFSUM Record
CCF-II -- DATA Records TRAILER Record	CCFSUM Record or CF2ERR Record

**** Please Note:** Any DATA records in error will follow the CCFSUM record.

2.3 Holiday Processing

- 1 - All Closed - Banks, Exchange and DTC closed: (New Years Day, Presidents Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day)
OCC1 and OCC5 will not be available.
- 2 - Banks Closed, Exchange Open and DTC Open (Columbus Day, Veterans Day)
OCC1 and OCC5 will not be available.
- 3 - Banks Open, DTC Open, Exchange Closed (Good Friday)
OCC1 and OCC5 will not be available.
- 4 - Exchange Open, Banks and DTC Closed (Martin Luther King Day)
OCC1 and OCC5 will not be available.

3. File Specifications

3.1 OCC Collateral Services

- Length = 156 /header = 26 /detail =130

The input record for *OCC1 and OCC5* is defined below. This record contains a transaction header and application detail data and has a record length of 162 bytes.

NOTE: For MDH a maximum of 10 records or depending on the input record length the total number of records that can fit in a 4000 byte input block.

The Transaction header is prefixed to every application record. The field layout of the 26 byte header is defined as:

NOTE: STANDARD TRANSACTION HEADER FOR CCF,CCF-II AND MDH

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	Test/Production Indicator	Used to indicator whether the transaction is to be processed in the "Test" or "Production" environment. This is a required field. T = Test P = Production
3	6	Character	Record Type	OCCD01
9	2	Numeric	Record Suffix	Used to indicate the "Record #" on single and multiple data records within a transaction
11	2	Numeric	Version Number	Used to indicate which version (e.g.: 'latest' or 'previous' format) the data is in.
13	6	Character	User Reference #	Used by transmitting party to uniquely identify the transaction. (optional)
19	8	Character	Addressee	The entity on behalf of whom the transaction is being processed. Right justified, zero filled for numeric addressee or 'Mnnnnnnn' for non-numeric addressee.

3.2 OCC Detail Record Format for Input:



Position	Length	Format	Field Name	Field Description
27	2	Character	Record Type	Must contain one of the following values. '01' – Valued Pledge '02' – OCC CNS release '03' – Pledgee approval '04' – OCC Valued Pledge approval '05' – OCC CNS Release approval
29	8	Character	Pledgor	The Participant number of the pledgor submitting the transaction. Required for all types.
37	8	Character	Pledgee	The Pledgee number who is approving the loan amount. Required for all value transactions.
45	9	Character	CUSIP	The number identifying the security. Required for all types.
54	9	Character	Share quantity	The number of securities to be moved or released to CNS. Required for all types.
63	8	Character	Loan Date	The loan date of the original pledge to OCC for OCC/CNS or the new loan date for OCC value. Format: CCYYMMDD. Required for all types.
71	10	Character	Loan Value (whole)	For OCCD for value only. The whole number portion of the value of the pledge. The maximum acceptable loan value is 9,999,999,999. This is not applicable for position moves to CNS
81	2	Character	Loan Value (decimal)	The decimal number portion of the value of the pledge. This is required for OCCD for value. This is not applicable for position moves to CNS
83	1	Character	Pledge Purpose	Must be a 1 for value and N/A for CNS. Required for all types.
84	1	Character	Release Type	The reason for the release request: '3' = OCC CNS release Required for OCC CNS release request.
85	1	Character	Hypothecation Code	Indicates to the Pledgee the person(s) for whom this transaction is pledged: '1' = Each security in the pledge is carried for the account of one or more customers. '2' = All Securities in the pledge are carried for the account of a single customer.

Position	Length	Format	Field Name	Field Description
				<p>'3' = No securities in the pledge are carried for the account of any customers. '7' = Used for Repo Accounts '8' = Used for Repo Accounts '9' = Used for Repo Accounts</p> <p>Required only for all types.</p>
86	1	Character	Prevent Pend Indicator	<p>Indicates if securities can be pended. 'P' = Prevent pending for this transaction. ' ' = (Space) Allow this transaction to be pended.</p> <p>Require for all types.</p>
87	1	Character	CNS Indicator	<p>Indicates if securities should be made eligible for CNS processing: '1' = CNS processing desired. ' ' = (Space) No CNS processing.</p> <p>Required for all types.</p>
88	1	Character	IPO Indicator	N/A
89	1	Character	Approved / Rejected Ind.	<p>Approval or Reject: 'A' = Approve request 'R' = Reject request</p> <p>Required for Pledgee/OCC approvals</p>
90	8	Character	OCC Participant number	The Participant number of the OCC member. If it matches the pledgor participant number, this transaction is a 'two party request'. Required only for Options Release of Deposit Request.
98	3	Character	OCC number	OCC Participant number 981 required for Options release of deposit request.
101	3	Character	OCC 3 rd party	<p>OCC Third Party member</p> <p>Required for all types.</p>
104	1	Character	OCC Entry type	<p>Suggested values are: 'S' = specific 'V' = Value</p> <p>Required for all types.</p>



Position	Length	Format	Field Name	Field Description
105	1	Character	OCC Account Type	Suggested values are: 'C' = Customer 'F' = Firm Required for all types.
106	1	Character	OCC Put or Call	Applicable for only options release of deposit request. If specified, must be 'P' (put) or 'C' (call). Required for all types.
107	6	Character	OCC trade symbol	Security trading symbol. Required for all types.
113	2	Character x(02)	OCC Expiration Month	Must be a valid calendar month. Format: MM. Required for all types.
115	1	Character x(01)	OCC Expiration Year	Required for all types.
116	3	Character x(03)	OCC Exercise Price	Price, a maximum of 999 can be entered. Required for all types.
119	1	Character x(01)	OCC Fraction	The one character fraction indicator as an eighth of a dollar. (i.e. 4 is equivalent to \$.50) Applicable only for Options Release of Deposit request: If entered, must be between 0-7. Required for all types.
120	12	Character x(12)	Cross Reference Number	Twelve character cross-reference number. Required for all types.
132	16	Character x(16)	Customer Account Number	The customer account number; to a maximum of 16 characters. Applicable only for Options Release of Deposit request. Required for all types.
148	9	Character	Filler	

3.3 Message Types

There are two possible sources of messages:

The CCF/CCF-II Response File is returned to the user immediately upon completion of the transmission. This is also known as a "Front End Error".

An application reject also known as a "Back End Reject".

3.4 CCF and CCF-II Response File

After the end of a transmission, DTC returns a Response File containing two types of computer-readable records to the Participant. Users are responsible for appropriate processing of these computer-readable records, using them to determine which transactions have been accepted or rejected, along with other information regarding the status of the transmission.

The two record types that appear within the Response File are described below:

Summary Total Record: (called "CCFSUM" in the record type field of the transaction record) contains summary information regarding the entire transmission, including totals for accepted and rejected transactions. The Summary Total Record will always be the first record in the Response File.

Application Data Records: are returned to the user in response to any edit errors detected within the transmission. Error records, if any, will follow the Summary Total Record in the response file. This type of edit reject is also known as a "Front End Reject".

3.5 Back End Rejects

These messages will be created when an input transaction, which has been accepted by the front-end editing module is rejected later by the application processing program.

Back-end rejects will be queued back to the message queue associated with the password that was used to transmit the input transaction initially. The length and format of an output message is different for each application. However all messages will have a ? in the first byte to distinguish a "Back End Reject".

3.6 Machine Readable Output Header Record Length = 26

Position	Length	Format	Field Name	Field Description
1	1	Character	Feedback Indicator	Used to indicate if any errors were encountered during processing. This field will contain a value of “*”.
2	1	Character	Test/Production Indicator	Used to indicate transaction being processed in the "Production" environment. This will contain value of “P”.
3	6	Character	Record Type	“OCCMR ”
9	2	Numeric	Record Suffix	“01”
11	2	Numeric	Version Number	“01”
13	6	Character	User Reference #	Used by transmitting party to uniquely identify the transaction. (Will be spaces)
19	8	Character	OCC Addressee	Filler

3.7 Machine Readable Output Detail Record Length = 246

Position	Length	Format	Field Name	Field Description
27	8	Character	Processing Date	Current date
35	2	Character	Release Request Type	‘01’ = OCCMRO-MONEY-REQ ‘02’ = OCCMRO-SHARES-REQ ‘03’ = OCCMRO-PLEDGEE-APP ‘04’ = OCCMRO-OCC-APP-MON ‘05’ = OCCMRO-APP-SHARE
37	6	Character	Time of Notice	Format: HHMMSS
43	8	Character	Pledgee bank	The DTC Pledgee number.
51	8	Character	Associated	The Pledgee’s Associated Participant number



Position	Length	Format	Field Name	Field Description
			Participant	
59	8	Character	Pledgor	The DTC Participant number of the Pledgor submitting the transaction.
67	8	Character	Loan Date	The load date
75	12	Character	CUSIP	The number identifying the security
87	20	Character	CUSIP description	Description of the security.
107	13	Numeric	Quantity	Number of shares.
120	14	Numeric	Unit Price	Unit Price Format: 9(07)V9(07)
134	13	Numeric	Market Value	Quantity * Unit Price
147	13	Numeric	Loan Value Amount	The value of the transaction.
160	1	Character	Release Type Indicator	Reason for release: '1' – Delivery '2' – Substitution '3' – Decrease '4' – Release of excess
161	1	Character	Approval /reject indicator	Required for Pledgee / OCC approvals
162	1	Character	CNS indicator	Indicates if securities should be made eligible for CNS processing. '1' – CNS processing desired ' ' - (space) No CNS processing
163	1	Character	Prevent Pend Indicator	Indicates if securities can be pended. 'P' – Prevent pending for this transaction ' ' - (space) Allow the transaction to be pended
164	8	Character	OCC Account	OCC Account number. Required for all types.
172	9	Character	Federal Reserve ABA Number	Will contain spaces
181	20	Character	Federal Reserve ABA	Will contain spaces



Position	Length	Format	Field Name	Field Description
			Description	
201	2	Character	Federal Reserve Purpose Indicator	'01' – Discount '02' – Treasury Tax & Loan '03' – Circular 176 Public Purpose '04' – Book Entry Daylight Over '05' – Overdrafts Will contain spaces
203	1	Character	Security Federal Fund Indicator	Always set to an 'S'.
204	1	Character	Originating Source	The source of transaction. '2' – CCF '3' – PTS '5' – MDH '0' – Other
205	3	Character	Sub Issue Type	Sub Issue Type of CUSIP.
208	8	Character	Maturity Date	Date on which the issuer of a debt security is obligated to repay the principal amount or face value of a security. Format: MMDDCCYY
216	3	Character	Third Party	For OCC Releases only
219	1	Character	Filler	For OCC Releases only Value '/'
220	1	Character	Entry Type	For OCC Releases only. 'S' – Specific 'V' – Value ' ' - Space
221	1	Character	Filler	For OCC Releases only Value '/'
222	1	Character	Account Type	For OCC Releases only. 'C' – Customer 'F' – Firm ' ' - Space
223	1	Character	Filler	For OCC Releases only Value '/'
224	1	Character	Put or Call Indicator	For OCC Releases only. 'P' – Put



Position	Length	Format	Field Name	Field Description
				<i>'C' – Call</i> <i>' ' - Space</i>
<i>225</i>	<i>1</i>	<i>Character</i>	<i>Filler</i>	<i>For OCC Releases only</i> <i>Value '/'</i>
<i>226</i>	<i>6</i>	<i>Character</i>	<i>Trade Symbol</i>	<i>For OCC Releases only</i>
<i>232</i>	<i>1</i>	<i>Character</i>	<i>Filler</i>	<i>For OCC Releases only</i> <i>Value '/'</i>
<i>233</i>	<i>2</i>	<i>Character</i>	<i>Expiration</i> <i>Month</i>	<i>For OCC Releases only</i>
<i>235</i>	<i>1</i>	<i>Character</i>	<i>Filler</i>	<i>For OCC Releases only</i> <i>Value '/'</i>
<i>236</i>	<i>1</i>	<i>Character</i>	<i>Expiration Year</i>	<i>For OCC Releases only</i>
<i>237</i>	<i>1</i>	<i>Character</i>	<i>Filler</i>	<i>For OCC Releases only</i> <i>Value '/'</i>
<i>238</i>	<i>3</i>	<i>Character</i>	<i>Exercise Price</i>	<i>For OCC Releases only</i>
<i>241</i>	<i>1</i>	<i>Character</i>	<i>Filler</i>	<i>For OCC Releases only</i> <i>Value '/'</i>
<i>242</i>	<i>1</i>	<i>Character</i>	<i>Fraction</i>	<i>For OCC Releases only</i>
<i>243</i>	<i>1</i>	<i>Character</i>	<i>Filler</i>	<i>For OCC Releases only</i> <i>Value '/'</i>
<i>244</i>	<i>12</i>	<i>Character</i>	<i>Cross Reference</i> <i>Number</i>	<i>For OCC Releases only</i>
<i>256</i>	<i>16</i>	<i>Character</i>	<i>Customer</i> <i>Account</i> <i>Number</i>	<i>For OCC Releases only</i>



4. List of Error Codes for ICM Input Function

×101	- DTC APPLICATION ERROR: CONTACT DTC
×103	- INVALID SIGNON ID
×104	- USER ALREADY LOGGED ON
×105	- INVALID PASSWORD
×107	- INVALID FUNCTION - NOT CCF FUNCTION
×108	- USER NOT ELIGIBLE FOR CCF FUNCTION
×109	- FUNCTION NOT AVAILABLE, PAST CUTOFF TIME
×110	- CCF FUNCTION TEMPORARY UNAVAILABLE – QUIESCED
×111	- DUPLICATE TRANID
×112	- INVALID RECORD LENGTH USED FOR FUNCTION REQUESTED
×113	- FUNCTION UNAVAILABLE - FILES MAY BE UNAVAILABLE
×121	- FUNCTION UNAVAILABLE - CCFUSER MAY BE UNAVAILABLE
×123	- SYNTAX ERROR IN THE REQUEST
×124	- LOGICAL ERROR IN THE REQUEST
×224	- PARTID DOES NOT MATCH SIGNON IN THE PASSWORD RECORD
×230	- INVALID FORMAT OF PASSWORD RECORD
×240	- INVALID FORMAT OF SIGNON OR TRAN-ID IN PSWD RECORD
×334	- FUNCTION REQUESTED DOES NOT MATCH FUNCTION IN PSWD REC
×340	- INVALID LENGTH OF LRCL PARM
×350	- LRCL IS NOT NUMERIC
×360	- LRCL IS ZERO
×370	- LRCL < 121 (SUM REC)
	LRCL MUST BE EQUAL TO OR GREATER THAN SUMMARY REC'
×390	- INPUT LRECL LENGTH IS ZERO FOR RJE
×720	- INPUT FILE INCOMPATIBLE FOR RJE INPUT



·820	- INPUT FILE EMPTY
·900	- DTC INTERNAL ERROR - CONTACT DTC
·902	- ERROR WITH CALL TO CCFUSER - CONTACT DTC
·903	- CCF-II REBLOCK PROBLEM FOR RJE USERS
·904	- OUTPUT FILE INCOMPATIBLE FOR RJE USERS

4.1 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 OCCD transaction. This error list describes both the Field Identifier and the Error Code. These codes are defined in the DTF files:

ICMFLD for Field Identifiers

ICMERR for Error Codes

NOTE: Refer to the Interface Control Management document for specifics relating to the way errors are returned to your system. The following table lists the application errors, which were detected by DTC.

4.2 Error Message List

FIELD IDENTIFIER	ERROR IDENTIFIER	DESCRIPTION



FIELD IDENTIFIER	ERROR IDENTIFIER	DESCRIPTION
GABN	9AAA	Transaction type not valid (invalid function)
GABN	9AC0	Record not found on database
GABN	9ABB	Not Found – not available to request
CAHJ	IABE	Not eligible to submit
CAHJ	9AAA	Invalid
CAHJ	9ACK	Globally locked
CAHJ	9ABE	Required
GACR	IABE	Not eligible to submit
GACR	9AAA	Invalid
GACR	9ABE	Required
HAFF	IABE	Not eligible to submit
HAFF	9AAA	Invalid
HAFF	9ABE	Required
HAFF	9ADW	Invalid associated Participant – required for collateralization
HAFF	9ACN	Frozen
HAFF	9ABT	Must be equal to spaces
DABB	9AAA	Invalid
DABB	9ABE	Required
DABB	9ACA	Exceeds participant's available position to collateralize
DABB	9AGK	Equals zero
GAAA	IAA6	Security ID not entered
GAAA	9AAA	Invalid
GAAA	9ABE	Required
GAAA	9AAM	Not available to be requested
DAGG	9AAA	Invalid
DAGG	9ABE	Required
DAGG	9ABT	Must be equal to spaces
JCCC	9AAA	Must be equal to spaces
EAA4	9ABE	Required
EAA4	9AAA	Invalid
JCCC	9AAA	Must be equal to spaces
HAFF	9ABM	Pledgee not found on info tables
GAAA	9AAY	Cusip SDFS ineligible
GAAA	9AAW	Cusip SDFS chilled



FIELD IDENTIFIER	ERROR IDENTIFIER	DESCRIPTION
GAAA	9ACS	Cusip not MMI
GAAA	9ACQ	Cusip MMI frozen
GAAA	9ADX	Cusip not IPO
GAAA	9ADZ	Cusip exceeds maximum preferred commercial paper limit
GAAA	IAER	Cusip is a baby bond (invalid for CNS)
DABB	9ADZ	Quantity exceeds maximum preferred commercial paper lim
BADB	IAES	Loan date must not be greater than today's date

5. CCF and CCF-II Tape Backup Procedure

If for any reason a user is unable to submit a transmission via CCF-II, or CCF the following steps should be taken:

- 1) Contact DTC's Network Operation Department (212) 240-1569. Notify them that you are unable to transmit your data and that you will be sending an ICM backup tape containing your data.
- 2) The user should prepare a magnetic tape containing his transactions. This magnetic tape must be in the format specified in this function user guide. CCF Users must add a CCF-II Password to the input dataset for processing.
- 3) Each tape must arrive at DTC with the CCF/CCF-II Backup Procedure form (see next page) attached with all information supplied.
- 4) The user should send this tape to DTC's Production Control Department at 55 Water Street, on the second sub-level (2SL). DTC will submit the transaction from the magnetic tape and return the tape containing the transactions to the user.

Participants that, in an emergency, will not be able to deliver a magnetic tape to DTC before the appropriate Cutoff Time, are responsible for making other arrangements for backup in case of modem or telephone equipment failures.

Participants should realize that when using CCF-II to submit transactions to DTC, they are bound by computer and data communications equipment availability at their site. DTC can not afford to delay its entire processing cycle in order to accommodate equipment failures at any participant site. It is strongly suggested that all users maintain redundant CCF-II equipment (computers, communication controllers, modems, telephone lines, etc.).

IN NO EVENT will DTC accept ANY responsibility for a participant's inability to submit transactions.



CCF and CCF-II Backup Procedure Form

CCF/CCF-II Backup Procedure job = CCFICMB1

Date: _____

Participant/Sign-on Number _____

Participant/User Name _____

Participant Contact _____

Phone Number: () _____

Scheduler Overrides

DFUNC _____ (Transaction name eg. TRAC or AFFC)

PARTID _____ (Participant Number)

LRECL _____ (Input Record Length)

LRCL _____ (Output Record Length)

TRANID _____ (Transmission Number)

Example: CCFICMB1,DFUNC=TRAC,PARTID=9999,LRECL=807,LRCL=847,TRANID=0001



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