

# DTCC

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## SETTLEMENT

### 20.16-MQ RAD OUTPUT FUNCTION USER GUIDE

NOVEMBER 26, 2018



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# DOCUMENT HISTORY

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03/01/2013 Added Settlement Matching detail (pages 4 & 6).

08/01/2013 Updated Settlement Matching dates (pages 4 & 6) and added "Transaction Type Indicator" 4 (page 6).

11/30/2018 Removed formatting and references to old changes

# CONTENTS

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<b>Document History .....</b>	<b>iv</b>
<b>Introduction to Receiver Authorized Delivery .....</b>	<b>6</b>
Cutoff Times .....	6
Rad Output Transaction .....	7

# INTRODUCTION TO RECEIVER AUTHORIZED DELIVERY

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RAD allows you to review and either approve or cancel incoming deliveries before they are processed so you can avoid reclamations.

You can route the following transaction types through RAD:

- Deliver Orders (DOs)
- Payment Orders (POs)
- Valued pledges
- Valued releases

## Cutoff Times

RAD output is generated real-time when a transaction is sent to RAD. For ID trades and NDOs (night deliver orders), transactions are sent to RAD in the night cycle.

For day transactions, the cutoff times are:

- Valued MMI Issuances—2:45 p.m.
- Valued DO/PO/Pledges—3:30 p.m.
- DO to Settling Bank—5:00 p.m.
- Free DOs—6:15 p.m.

# RAD OUTPUT TRANSACTION

This output provides the user with notification messages for transactions subject to RAD processing.

The First 74 bytes of the transaction comprises the MQ header. The next 20 bytes comprises the Message prefix. The remaining bytes comprise the actual data transaction.

Field name	Pos	Length	Field Attributes
Message Header	1-74	74	74 byte MQ Header. See MQ User Guide.
Filler	75	1	VALUE SPACE
Message Flag	76	1	'O': current day original message  'R': current day reprint  'U': current day requested out-of- sequence  'Y': prior day
Filler	77	1	Value space
DESTINATION PARTICIPANT ACCOUNT	78	8	Individual Participant Number or Group User Number
DESTINATION-SYMBOL	86	2	DESTINATION Symbol-Numeric
Filler	88	1	Value '-'
DESTINATION ACCOUNT SEQUENCE NUMBER	89	6	Sequence number of the transaction –unique for each account destination
TYPE-OF-08-RESPONSE	95	1	Value 'R' (RAD Data)
RAD-ORIGIN-CODE	96	1	DTC System Origination Codes:  - 2 = CCF  - 3 = PTS/PBS/Settlement Web  - 4 = ID  - 5 = MQH  - 0 = Other
DELIVERING PARTICIPANT NUMBER	97	8	Delivering Participant Number
Filler	105	2	Value Spaces

Field name	Pos	Length	Field Attributes
CUSIP NUMBER	107	9	CUSIP Number
Filler	116	1	Value space
RECEIVING PARTICIPANT NUMBER	117	8	Receiving Participant Number
RAD AUTH. RECORD TYPE	125	1	Type of RAD processing:  'R' = Regular RAD  'M' = MMI Index-to-Principal RAD
Intended Delivery Date	126	5	The date the transaction is scheduled for processing. 'Julian' date format.
Settlement Date	131	5	The intended settlement date of the transaction. 'Julian' date format.
Filler	136	1	DTC use only--reserved for future use
DOLLAR AMOUNT	137	13	Dollars and cents value of the trade PIC 9(11)V9(2)
RAD-VERSION-CONTROL (Formerly : 'filler')	150	01	Value ' ' = current format
RAD-DLV-RCV-INDICATOR	151	1	Value 'D' or 'R'.
REASON-CODE	152	3	Reason Code
RAD SEQUENCE NUMBER	155	8	Unique sequence number, assigned by DTC, identifying this item.
RAD INPUT SOURCE ID	163	4	Input source of the original RAD transaction.
RAD PROCESSING PERIOD	167	2	Possible values:  P1 = Valued DO (Non-Settling Bank) P2 = Valued DO (Settling Bank) P3 = Free DO

Field name	Pos	Length	Field Attributes
ACTIVITY CODE	169	3	<p>Activity Code Values:</p> <ul style="list-style-type: none"> <li>- '014' = SPO</li> <li>- '026' = DO Delivery</li> <li>- '027' = DO Receive</li> <li>- '046' = DO Participant-IPO-acct to the same Participant-Free-acct</li> <li>- '047' = DO DLV-IPO-acct to RCV-IPO-acct.</li> <li>- '048' = DO DLV-IPO-acct to RCV-Free-acct.</li> <li>- '049' = DO DLV-Free-acct to RCV-IPO-acct.</li> <li>- '052' = Valued Pledge from IPO acct.</li> <li>- '054' = Valued Pledge</li> <li>- '055' = Valued Release-Return</li> </ul>
RAD ACTION CODE	172	1	<p>Action Code Values:</p> <ul style="list-style-type: none"> <li>- 'W' = Waiting for Approval or Cancellation</li> <li>- 'A' = Approved</li> <li>- 'R' = Cancelled by Receiver</li> <li>- 'D' = Cancelled by Deliverer</li> <li>- 'E' = Exempted by Receiver</li> </ul>



Field name	Pos	Length	Field Attributes
Transaction Type Indicator	173	1	'1'—Affirmed Institutional Transaction (ID) '2'—Future Dated Deliver Orders, e.g., NDOs '3'—Other (Same Day Transactions, e.g., DO, PO, Pledge) '4'—ID Net
COMMENTS (from original transaction)	174	307	Positions: 1–74 : Special A/C # Info.  75–79 : MQ Seq # of Original DO (if available)  80 : Space  81–307 : Delivering Participant's Remarks  If Deliver Order was generated from an Issuance Instruction:  1–57 : Special Issuance Information  58–62 : MQ Seq # of Original DO (if available)  63–307 : Remarks from Original Issuance Instruction
REASON FOR CANCEL (Line-2)	481	13	(See position 495 below)
Filler	494	1	Value Space
REASON FOR CANCEL (Line-1)	495	13	Supplied by the party who is cancelling the transaction
Filler	508	1	Value Space
RAD AUTHORIZATION DATE	509	5	'Julian' date. This field <b>must</b> be sent back on all 'approval' or 'cancellation' records.
Filler	514	1	Value Spaces
RAD-MUNI-BOND-IND	515	1	'Muni' or 'Regular' Bond Indicator values:  'B' = Regular Bond  'M' = Muni-Bond  ' ' = Stock (non-bond)
Filler	516	01	Value Spaces

Field name	Pos	Length	Field Attributes
RAD-SHARE-QTY-NEW	517	09	Share quantity (new format where 1 = 1 for all issues)
Filler	526	02	Value Spaces

RAD-SUBISSUE-TYPE	528	03	<p>Sub-Issue type for SDFS Cusips.</p> <p>Values: '000' = NOT APPLICABLE</p> <p>'030' = LMTD PARTNRSHP</p> <p>'040' = CMO-UNITS</p> <p>'041' = ABS-UNITS</p> <p>'042' = ISSUE-UNITS</p> <p>'110' = ADR</p> <p>'120' = PFD-CP</p> <p>'320' = MUNI VRDO/CP</p> <p>'330' = MUNI CP</p> <p>'340' = BEARER-ZERO CPN</p> <p>'502' = BA'S</p> <p>'504' = CD'S</p> <p>'505' = CERTIFIED MMI</p> <p>'506' = CERTIFIED MMI- PERIODIC</p> <p>'525' = CORPORATE CP</p> <p>'526' = CORP. VRDO/CP</p> <p>'530' = MTN'S (repl. By 533)</p> <p>'531' = Deposit Notes</p> <p>'532' = M/T Bank Notes</p> <p>'533' = MMI MTN's</p>
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Field name	Pos	Length	Field Attributes
			'540' = CMO  '541' = ABS  '542' = NON-CMO/ABS AMORTIZ.  '550' = S/T Bank Notes  '551' = Zero CPN./INIT PRINC  '560' = MMI DISCOUNT NOTE
RAD-CUSIP-DESC	531	20	CUSIP Description
RAD-MATURITY-DATE	551	08	Maturity date for a BOND issue. Format = CCYYMMDD
RAD-DATED-DATE	559	08	Dated-date for a BOND issue. Format = ccyymmdd
Filler	567	04	Value spaces.

## FOR MORE INFORMATION

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