

# MQ TRANSMISSION USER GUIDES

## 20.02 MQ PAYMENT ORDER OUTPUT (FOR SPO, PPO AND ACATS PO)

JUNE 2, 2022

© 2022 DTCC. All rights reserved. DTCC, DTCC (Stylized), ADVANCING FINANCIAL MARKETS. TOGETHER, and the Interlocker graphic are registered and unregistered trademarks of The Depository Trust & Clearing Corporation.

The services described herein are provided under the “DTCC” brand name by certain affiliates of The Depository Trust & Clearing Corporation (“DTCC”). DTCC itself does not provide such services. Each of these affiliates is a separate legal entity, subject to the laws and regulations of the particular country or countries in which such entity operates. Please see [www.dtcc.com](http://www.dtcc.com) for more information on DTCC, its affiliates and the services they offer.

**Doc Date:** JUNE 2, 2022

**Publication Code:** SET 159

**Service:** Settlement/CF2/MQ Transmission Guides

**Title:** 20.02 MQ Payment Order Output (For SPO, PPO AND ACATS PO)

# TABLE OF CONTENTS

---

<b>I. Overview .....</b>	<b>4</b>
<b>II. MQ Message Header .....</b>	<b>5</b>
<b>III. MQ SPO Output.....</b>	<b>6</b>
<b>IV. MQ PPO Output .....</b>	<b>10</b>
<b>V. MQ ACAT Payment Order .....</b>	<b>13</b>
<b>VI. Release Notes .....</b>	<b>17</b>

# I. OVERVIEW

---

MQ Payment Order Output provides clients their Security Payment Order (SPO), Premium Payment Order (PPO) and ACAT Payment Order transactions that have been processed by DTC's Settlement system during the business day.

The types of Payment Order data available are:

Payment Order (PO) Types SPO '078', PPO '082' and ACATS Payment Order '079'.

Each record corresponds to a Payment Order transaction which has updated a client's account balance.

## II. MQ MESSAGE HEADER

The fields starting in positions 01-74 make up the MQ message header. Following this MQ-header will be the standard Message Delivery header (20 bytes) followed by the application data (starting in position 95).

Position	Length	Field Name	Field Description
01	02	Message Type	'A1' for original messages 'R2' for replayed messages
03	02	Version Number	Currently must be "01"
05	06	Timestamp	When message sent by DTCC(HHMMSS)
11	08	User ID	User ID of message receiver
19	02	Box#	Box# associated with message
21	23	Reserved	Reserved for future use
44	01	Response Code	For replay only 'A' = Accepted 'R' = Rejected
45	02	Reason Code	For replay only
47	08	Control File Number	Control File ID Control Number (YYYYDDDS)
55	04	Message Count	Currently set to '0001'
59	08	Total Length of all messages (including the length field)	Length of message(s) following the header
67	08	Length of following message (including length field)	Length of each message(s) including this field
75	02	Filler	For DTC internal use only
77	01	Filler	Value space
78	08	DEST-PARTIC-ACCOUNT	Individual Participant # or Group User #
86	02	DEST-SYMBOL	Destination Symbol-Numeric
88	01	Filler	Value '-'
89	06	DEST-ACCOUNT-SEQ-#	Sequence of the transaction unique for each account destination

## III. MQ SPO OUTPUT

The following is the record format of an SPO transaction.

The fields starting in positions 01-74 make up the MQ message header. Following this MQ-header will be the standard Message Delivery header (20 bytes) followed by the application data (starting in position 95).

Refer to the [MQ Message Header](#) section for more information.

Field Name	Pos	Len	Field Attributes
TYPE-OF-08-RESPONSE	95	01	Value 'P' (PO data)
DTC-SYS-ORIGIN-CODE	96	01	DTC system origination Values: 2 = CF2 3 = PTS 4 = ID 5 = MQ 0 = Other
DTC-SYS-ACTIVITY-CODE	97	03	Value '078' (Security Payment Order)
SPO-OUT-PAYEE-NUMBER	100	08	Participant number of the payee
SPO-OUT-COPY-IND	108	01	Values: Space = Original copy (Payor) 'Q' = Duplicate copy (Payor) 'E' = Original copy (Payee)
Filler	109	01	Value space
SPO-OUT-CUSIP-NUMBER	110	09	CUSIP number
SPO-OUT-PAYOR-NUMBER	119	08	Participant number of the payor
Filler	127	02	Value spaces
SPO-OUT-SHARE-QUANTITY	129	07	Share quantity
Filler	136	02	Value spaces
SPO-OUT-MONEY-AMOUNT	138	12	Dollars and cents value of the payment (decimal point assumed). PIC 9(10)V9(2)
Filler	150	02	Value spaces

Field Name	Pos	Len	Field Attributes
SPO-OUT-REASON-CODE	152	02	<p>Reason code:</p> <p>'S0' = Mark to market/stock loan</p> <p>'S1' = Mark to market/stock loan reclaim</p> <p>'S2' = Due bill redemptions</p> <p>'S3' = Due bill redemptions reclaim</p> <p>'S4' = Mark to market/fail</p> <p>'S5' = Mark to market/fail reclaim</p> <p>'S6' = Buy in/pair off</p> <p>'S7' = Buy in/pair off reclaim</p> <p>'S8' = Fail pair off</p> <p>'S9' = Fail pair off reclaim</p> <hr/> <p><b>Note:</b></p> <p><i>The following 10 fields correspond exactly to the 10 fields above. The only difference is that the following codes are internally generated within DTC and may not be used by a participant in a '05' data transmission block to DTC.</i></p> <hr/> <p>'SA' = Mark to market/stock loan</p> <p>'SB' = Mark to market/stock loan reclaim</p> <p>'SC' = Due bill redemptions</p> <p>'SD' = Due bill redemptions/reclaim</p> <p>'SE' = Mark to market/fail Note: Use for SFT Payment Differentials.</p> <p>'SF' = Mark to market/fail reclaim</p> <p>'SG' = Buy in/pair off</p> <p>'SH' = Buy in/pair off reclaim</p> <p>'SI' = Fail pair off</p> <p>'SJ' = Fail pair off reclaim</p>
SPO-OUT- NEW-PRICE	154	07	<p>New price (\$/¢) of share value (decimal point is assumed).</p> <p>PIC 9(5)V9(2)</p>
Filler	161	02	Value spaces
SPO-OUT-OLD-PRICE	163	07	<p>Old price (\$/¢) of share value (decimal point is assumed).</p> <p>PIC 9(5)V9(2)</p>
Filler	170	02	Value spaces
SPO-OUT-ADJUSTMENTS	172	10	<p>Adjustment figure (\$/¢) (decimal point is assumed).</p> <p>PIC 9(8)V9(2)</p>
Filler	182	02	Value spaces

Field Name	Pos	Len	Field Attributes
SPO-OUT-CONTRACT-DATE	184	06	Contract date (MMDDYY format)
SPO-OUT-PAYEE-REP-NAME	190	30	Representative's name of the payee
SPO-OUT-PAYEE-REP-PHONE	220	10	Representative's phone number of the payee
SPO-OUT-PAYOR-REP-NAME	230	30	Representative's name of the payor
SPO-OUT-PAYOR-REP-PHONE	260	10	Representative's phone number of the payor
SPO-OUT-COMMENTS	270	60	Comments
SPO-OUT-SETTLEMENT-DATE	330	06	Settlement Date-MMDDYY format
SPO-OUT-PAYABLE-DATE	336	06	Payable Date-MMDDYY format
SPO-OUT-RECORD-DATE	342	06	Record Date-MMDDYY format
SPO-OUT-CUSIP-DESC	348	20	CUSIP description
SPO-OUT-TIME-STAMP	368	06	Time at which the SPO was processed at DTC in HHMMSS format
Filler	374	1	Value space
SPO-OUT-DTC-RBN-REC#	375	8	Pointer to this record on the DTC Central ATP data base
Filler	383	13	Value spaces
SPO-OUT-MUNI/BOND-IND	396	01	Muni or regular bond indicator values: 'B' = Regular bond 'M' = Muni bond ' ' = Stock (non-bond)
SPO-OUT-ATP-STATUS	397	01	Values: 'M' = Make 'P' = Pending (SDFS only) 'E' = Error
SPO-OUT-SDFS-IND	398	01	Same Day Funds System CUSIP involved. Values: 'S' = SDFS 'C' = Commercial paper (SubI=525) 'M' = Medium term note (SubI=530) ' ' = Non-SDFS
Filler	399	01	Value space
SPO-OUT-SHARE-PTY-NEW	400	09	Share quantity (new format where 1 = 1 for all issues)
Filler	409	02	Value space



Field Name	Pos	Len	Field Attributes
SPO-OUT-SUBISSUE-TYPE	411	03	<p>Sub-issue type for SDFS Cusips.</p> <p>Values:</p> <p>'000' = NOT APPLICABLE</p> <p>'030' = LMTD PARTNRSHP</p> <p>'040' = CMO in units</p> <p>'041' = ABS in units</p> <p>'042' = ISSUE in 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' = BAs</p> <p>'504' =CDs</p> <p>'505' = CERTFD MMI</p> <p>'506' = CTFD MMI-PER.</p> <p>'525' = CORPORATE CP</p> <p>'526' = CORP. VRDO/CP</p> <p>'530' = MTNs</p> <p>'531' = Deposit notes</p> <p>'532' = M/T bank notes</p> <p>'533' = MMI MTNs</p> <p>'540' = CMO</p> <p>'541' = ABS</p> <p>'542' = NON-CMO/ABS</p> <p>'550' = S/T bank notes</p> <p>'551' = ZERO COUPON</p> <p>'560' = DISCOUNT NOTES</p>
RAD Sequence Number	414	08	This field is the IMS TID displayed in the “non-displayable character” version. This is the current format used in RAD output.
IMS TID	422	16	This is the number generated by DTC which uniquely identifies any transaction.
Filler	438	13	Value spaces

## IV. MQ PPO OUTPUT

The following is the record format of a PPO transaction.

The fields starting in positions 01-74 make up the MQ message header. Following this MQ header will be the standard Message Delivery header (20 bytes) followed by the application data (starting in position 95). Refer to the [MQ Message Header](#) section for more information.

Field Name	Pos	Len	Field Attributes
TYPE-OF-08-RESPONSE	95	01	Value 'P' (PO data)
DTC-SYSTEM-ORIGIN-CODE	96	01	System at DTC through which the participants originally sent in the data: 2 = CF2 3 = PTS 4 = ID 5 = MQ 0 = Other
DTC-SYS-ACTIVITY-CODE	97	03	Value '082' (PPO)
PPO-OUT-PAYEE-NUMBER	100	08	Participant number of the payee
PPO-OUT-COPY-IND	108	01	Values: Space = Original copy (payor) 'Q' = Duplicate copy (payor) 'E' = Original copy (payee)
Filler	109	12	Value spaces
PPO-OUT-PAYOR-NUMBER	121	08	Participant number of the payor
Filler	129	02	Value spaces
PPO-OUT-RECEIPT-RELEASE	131	01	Values: '1' = Receipt '2' = Release
PPO-OUT-PUT-CALL	132	01	Values: '1' = Put '2' = Call
PPO-OUT-MONEY-AMOUNT	133	12	Dollar and cents value of the payment (decimal point is assumed). PIC 9(10)V9(2)
Filler	145	02	Value spaces

PPO-OUT-REASON-CODE	147	02	<p>Values:</p> <p>'P0' = Put</p> <p>'P1' = Put reclaim</p> <p>'P2' = Call</p> <p>'P3' = Call reclaim</p> <hr/> <p><b>Note:</b></p> <p>The following four fields correspond exactly to the four fields above. The only difference is that the following codes are internally generated within DTC and may not be used by a participant in a '05' data transmission block to DTC.</p> <hr/> <p>'P4' = Put</p> <p>'P5' = Put reclaim</p> <p>'P6' = Call</p> <p>'P7' = Call reclaim</p>
Filler	149	09	Value spaces
PPO-OUT-LINE-NUMBER	158	02	Line number
PPO-OUT-XREF-DATE	160	06	Cross reference date (MMDDYY format)
PPO-OUT-NUMBER-CONTRACTS	166	05	Number of contracts
PPO-OUT-SERIAL-NUMBER	171	09	Serial number
PPO-OUT-BANK-NAME	180	30	Bank name
PPO-OUT-OCC-NAME	210	20	OCC member name
Filler	230	1	Value space
PPO-OUT-DTC-RBN-REC#	231	8	Pointer to this record on the DTC Central ATP data base
Filler	239	1	Value space
PPO-OUT-PAYEE-REP-NAME	240	30	Representative's name of the payee
PPD-OUT-PAYEE-REP-PHONE	270	10	Representative's phone number of the payee
PPO-OUT-PAYOR-REP-NAME	280	30	Representative's name of the payor
PPO-OUT-PAYOR-REP-PHONE	310	10	Representative's phone number of the payor
PPO-OUT-COMMENTS	320	60	Comments
PPO-OUT-CUSIP-NO	380	09	CUSIP number
PPO-OUT-TIME-STAMP	389	06	Time that PPO was processed at DTC-HHMMSS format
Filler	395	01	Value space
PPO-OUT-MUNI-BOND-IND	396	01	Muni or regular bond indicator values:

			'B' = Regular bond 'M' = Muni bond ' ' = Stock (non-bond)
PPO-OUT-ATP-STATUS	397	01	Values: 'M' = Made 'E' = Edit Error
PPO-OUT-SDFS-IND	398	01	Same Day Funds System CUSIP involved. Values: 'S' = SDFS 'C' = Commercial paper (Subl=525) 'M' = Medium term note (Subl=530) ' ' = Non-SDFS
PPO-OUT-OPTION-SYMBOL-EXT	399	06	Option symbol extended (previously referred to as "Trading Symbol")  <b>Note:</b> This field was extended, as a result of the Options Symbology Initiative (OSI).
PPO-OUT-EXPIRATION-DATE-EXT	405	08	Contract's expiration date (YYYYMMDD) extended  <b>Note:</b> This field was extended, as a result of the Options Symbology Initiative (OSI).
PPO-OUT-EXERCISE-PRICE-EXT	413	12	Exercise price (\$/¢) of shares extended (decimal point is assumed). PIC 9(6)V9(6)  <b>Note:</b> This field was extended, as a result of the Options Symbology Initiative (OSI)
RAD Sequence Number	425	08	This field is the IMS TID displayed in the "non-displayable character" version. This is the current format used in RAD output.
IMS TID	433	16	This is the number generated by DTC which uniquely identifies any transaction.
Filler	449	2	Value space

## V. MQ ACAT PAYMENT ORDER

The following is the record format of an ACAT Payment Order transaction.

The fields starting in positions 01-74 make up the [MQ Message Header](#). Following this MQ-header will be the standard Message Delivery header (20 bytes) followed by the application data (starting in position 95).

Refer to the [MQ Message Header](#) section for more information.

Field Name	Pos	Len	Field Attributes
TYPE-OF-08-RESPONSE	95	01	Value 'P' (PO data)
DTC-SYS-ORIGIN-CODE	96	01	DTC System origination Values: 2 = CF2 3 = PTS 4 = ID S = MQ 0 =Other
DTC-SYS-ACTIVITY-CODE	97	03	Value '079' (ACAT Payment Order)
ACAT-OUT-PAYEE-NUMBER	100	08	Participant number of the payee.
ACAT-OUT-COPY-IND	108	01	Values: Space = Original copy (Payor) 'Q' = Duplicate copy (Payor) 'E' = Original copy (Payee)
Filler	109	01	Value space
ACAT-OUT-CUSIP-NUMBER	110	09	CUSIP number
ACAT-OUT-PAYOR-NUMBER	119	08	Participant number of the payor
Filler	127	01	Value spaces
ACAT-OUT-SHARE-QUANTITY	128	09	Share quantity
Filler	137	02	Value spaces
ACAT-OUT-MONEY-AMOUNT	139	12	Dollars and cents value of the payment (decimal point assumed). PIC 9(10)V9(2)
Filler	151	03	Value spaces
ACAT-OUT-REASON-CODE	154	03	Reason code: '791'
Filler	157	01	Value space
ACAT-OUT-ACT-CODE	158	01	Action code : '+' or '-'

Field Name	Pos	Len	Field Attributes
ACAT-OUT-JRNL-CODE	159	01	Journal code: 'O', 'N' or 'S'
ACAT-OUT-PEND-RSN	160	01	Reason for pend: '' = no pend 'C' = for major collateral 'O' = for minor collateral 'G' = for pledgee collateral 'D' = for minor net debit 'E' = for major net debit 'H' = for pledgee net debit 'A' = for major other NA 'B' = for minor other NA 'P' = for major other NA 'S' = for insufficient shares
Filler	161	01	Value space
ACAT-ORIGIN-SOURCE	162	04	Value 'PCAT'
ACAT-STATUS-CODE	166	01	Possible values: 'P' = pending 'M' = made 'D' = drop
ACAT-OUT-COMMENTS	167	210	Comments: pos. 12-31 = orig. rcvr. cust. # pos. 42-55 = ACAT cntl. # pos. 65-70 = asset seq. # pos. 78-79 = rs. code = A0 pos. 91-94 = orig. rcvr. corresp. pos. 107-126 = orig. dl. cust. # pos. 137-140 = original receiver pos. 152-155 = original deliverer pos. 179-187 = orig. rcvr. cust. primary soc. sec. # pos. 202-210 = orig. rcvr. cust. secondary soc. sec. #
Filler	377	01	Value space
ACAT-DUE-BILL-IND	378	01	Possible values: 'Y' = due-bill 'N' = No due-bill '' = No due-bill
ACAT-CMO-FACTOR	379	14	CMO factor Format = 9(2)V9(12)

Field Name	Pos	Len	Field Attributes
ACAT-3RD-PARTY-ID	393	06	Third party identifier
ACAT-OUT-CUSIP-DESC	399	20	CUSIP description
ACAT-PROCESS-DATE	419	08	Format = CCYYMMDD
Filler	427	1	Value space
ACAT-PROCESS-TIME	428	06	Time that transaction was processed at DTC-HHMMSS format
Filler	434	1	Value space
ACAT-OUT-DTC-RBN-REC#	435	8	Pointer to this record on the DTC Central ATP data base
Filler	443	01	Value space
ACAT-MUNI/BOND-IND	444	01	Muni or regular bond indicator values: 'B' = Regular bond 'M' = Muni bond ' ' = Stock (non-bond)
ACAT-OUT-SDFS-IND	445	01	Same Day Funds System CUSIP involved. Values: 'S' = SDFS 'C' = Commercial paper (SubI=525) 'M' = Medium term note (SubI=530) ' ' = Non-SDFS
ACAT-SUBISSUE-TYPE	446	03	Sub-issue type for SDFS Cusips. Values: '000' = NOT APPLICABLE '030' = LMTD PARTNRSHP '040' = CMO in units '041' = ABS in units '042' = ISSUE in units '110' = ADR '120' = PFD-CP '320' = MUNI VRDO/CP '330' = MUNI CP '340' = BEARER/ZERO CPN '502' = BAs '504' = CDs '505' = CERTFD MMI '506' = CTFD MMI-PER. '525' = CORPORATE CP '526' = CORP. VRDO/CP

Field Name	Pos	Len	Field Attributes
			'530' = MTNs '531' = Deposit notes '532' = M/T bank notes '533' = MMI MTNs '540' = CMO '541' = ABS '542' = NON-CMO/ABS '550' = S/T bank notes '551' = ZERO COUPON '560' = DISCOUNT NOTES
RAD Sequence Number/(IMS TID)	449	08	This field is the IMS TID displayed in the "non-displayable character" version. This is the current format used in RAD output.
Filler	457	08	Reserved for Future Use



## VI. RELEASE NOTES

---

This is the document history reflecting changes to the file.

- 06/02/2022 The following changes were made to bring this document up to current standards:
- For SFT POs, updated position 152 SPO-OUT-REASON-CODE field with the SFT Price Differential PO Reason code 'SE' - Mark to market/fail.
  - Made general updates to remove outdated references and reformat the document.
    - Removed references to MDH retired technology and updated to reflect the MQ header format used currently.
    - The fields starting in positions 01-74 make up the MQ message header. Following this MQ-header will be the standard Message Delivery header (20 bytes) followed by the application data (starting in position 95).
  - In MQ PPO Output, we redesignated several fields as filler to account for fields which are no longer used.
    - We combined positions 109, 110, 115, and 119 into a single 12 length filler field because the following fields are no longer used: PPO-OUT-TRADING-SYMBOL position 110 length 05 and PPO-OUT-EXPIRATION-DATE position 115 length 04. Position 119 length 2 is already filler. Thus, we combined all four fields into one filler field.
    - A filler field in position 149 changed from 2 to 9 in length. The following field was redesignated as filler because it is no longer used: PPO-OUT-EXERCISE-PRICE position 156 length 02. Thus, we combined position 149 and 156 into a single 9 length filler field
- 11/30/2018 Removed formatting and references to old changes.
- 08/01/2013 Amended RAD Zero dates for RAD Stage 3 (Figures 7-9 Data Response Blocks for SPO, PPO, and ACAT respectively).
- 03/01/2013 Settlement Matching Updates for RAD Stage 3 (Figures 7-9 Data Response Blocks for SPO, PPO, and ACAT respectively).
- 02/01/2010 For the Options Symbology Initiative (OSI), effective February 2010, DTC took existing filler, beginning on position 399 and ending on position 424, and used it for the extended format of the fields affected by OSI.

## FOR MORE INFORMATION

Email DTCC at:

[DTCSupport@dtcc.com](mailto:DTCSupport@dtcc.com)

or visit us on the web at:

<http://www.dtcc.com/client-center>