

Enhanced US Options Trade-By-Trade Execution Detail Specification

FILE NAMING CONVENTION

Historical

- 1 file per trade date per day for each exchange
- {Exchange}_TBT_YYYY-MM-DD.zip (zipped CSV)
{Exchange} is C1 for now, with BZX, C2, and EDGX planned for future release.

Subscriptions

- 1 file per trade date per day for each exchange
- Schedule: Delivered after midnight US Eastern Time (T+1 delivery only), typically between 00:30AM to 01:30AM U.S. EST the next morning
- {Exchange}_TBT_YYYY-MM-DD.zip (Zipped CSV)
{Exchange} is C1 for now, with BZX, C2, and EDGX planned for future release.

FIELDS

#	Column Name	Type	Description	Note
1	transact_time	datetime	Timestamp when the trade was processed and booked in the electronic system	
2	trading_dt	datetime	Trade/market date assigned to the execution	May differ from the calendar date of transact_time around midnight due to GTH
3	floor_action_ts	datetime	Timestamp when the trade was agreed upon on the trading floor	A trade is “late” when the difference between transact_time and floor_action_ts is >= 90 seconds
4	underlying	string	Underlying symbol	
5	osi_root	string	OSI root	
6	expire_date	datetime	Option expiration	
7	call_put_flag	string	‘C’ Call, ‘P’ Put	
8	strike_price	numeric	Strike price of option	
9	size	numeric	Trade size	
10	price	numeric	Trade price	
11	nbbo_bid	numeric	The best (highest) bid price across all U.S. options exchanges at the time of the trade (National Best Bid)	
12	nbbo_ask	numeric	The best (lowest) ask price across all U.S. options exchanges at the time of the trade (National Best Ask)	
13	bbo_bid	numeric	The best bid price on the executing exchange at the time of the trade (Book Best Bid)	
14	bbo_ask	numeric	The best ask price on the executing exchange at the time of the trade (Book Best Ask)	

15	side	string	'B' Buy, 'S' Sell	
16	open_close	string	'O' Open, 'C' Close	
17	capacity	string	Trade origin: MarketMaker, Customer, ProCustomer, BrokerDealer, Firm	
18	trade_type	string	Indicates the type of trade and how it executed	
19	exec_id	string	The execution ID linking the simple buy and sell orders; will be populated for both simple and complex trades	
20	complex_exec_id	string	The execution ID linking all of the buy and sell legs for a complex-to-complex trade	
21	session	string	Indicates the actual trading session in which the trade executed (e.g., RTH, GTH, Curb).	
22	trading_segment	numeric	Indicates the session segment for the given trade date (e.g. 1 = prior-evening/overnight segment, 2 = daytime segment). Combine with session to form composite labels like GTH1, RTH2, etc.).	

TRADE BUCKETING LOGIC

The volume for each option series will be bucketed by Origin using the mapping of Trade Origin/Capacity Code to Origin listed below:

Origin	Trade Origin/Capacity Code
Firm	F, L, J
Broker-Dealer	B
Market Maker	M, N
Customer	C
Pro-Customer	U

ORIGIN/CAPACITY CODE TYPES

Code	Capacity Type
B	For the account of a Broker or Dealer, including a Foreign Broker-Dealer
C	For the account of a Public Customer
F	For an OCC clearing member firm proprietary account
J	For a joint back-office account
L	For the account of a non-Trading Permit Holder affiliate
M	For the account of Market-Maker
N	For the account of a Market-Maker on another options exchange
U	For the account of a Professional

LIST OF TRADE TYPES

#	Trade Types	Notes
1	AIM Agency – Simple	Agency order executed via Automated Improvement Mechanism (AIM), single-leg option.
2	AIM Contra – Simple	Contra-side order in AIM, single-leg option.
3	AIM Responder – Simple	Responder to AIM auction, single-leg option.
4	Something else trading with AIM Agency – Simple	Single-leg AIM Agency order matched with a participant other than Contra or Responder during the AIM auction.
5	AIM Agency – Complex	Agency order in AIM, multi-leg (complex) strategy.
6	AIM Contra – Complex	Contra-side order in AIM, multi-leg (complex) strategy.
7	AIM Responder – Complex	Responder to AIM auction, multi-leg (complex) strategy.
8	Something else trading with AIM Agency – Complex	Multi-leg (complex) AIM Agency order matched with a participant other than Contra or Responder during the AIM auction.
9	AIM Agency – FLEX Simple	Agency order in AIM for FLEX options, single-leg.
10	AIM Contra – FLEX Simple	Contra-side order in AIM for FLEX options, single-leg.
11	AIM Responder – FLEX Simple	Responder to AIM auction for FLEX options, single-leg.
12	AIM Agency – FLEX Complex	Agency order in AIM for FLEX options, multi-leg.
13	AIM Contra – FLEX Complex	Contra-side order in AIM for FLEX options, multi-leg.
14	AIM Responder – FLEX Complex	Responder to AIM auction for FLEX options, multi-leg.
15	SAM Agency – Simple	Agency order executed via Solicitation Auction Mechanism (SAM), single-leg.
16	SAM Contra – Simple	Contra-side order in SAM, single-leg option.
17	SAM Responder – Simple	Responder to SAM auction, single-leg option.
18	SAM Agency – Complex	Agency order in SAM, multi-leg (complex) strategy.
19	SAM Contra – Complex	Contra-side order in SAM, multi-leg (complex) strategy.
20	SAM Responder – Complex	Responder to SAM auction, multi-leg (complex) strategy.
21	SAM Agency – FLEX Simple	Agency order in SAM for FLEX options, single-leg.
22	SAM Contra – FLEX Simple	Contra-side order in SAM for FLEX options, single-leg.
23	SAM Responder – FLEX Simple	Responder to SAM auction for FLEX options, single-leg.
24	SAM Agency – FLEX Complex	Agency order in SAM for FLEX options, multi-leg.
25	SAM Contra – FLEX Complex	Contra-side order in SAM for FLEX options, multi-leg.
26	SAM Responder – FLEX Complex	Responder to SAM auction for FLEX options, multi-leg.
27	Floor Order on PAR – Simple	Single-leg order executed on the trading floor via Public Automated Routing (PAR) system.
28	Floor Order on PAR – FLEX Simple	Single-leg FLEX order executed on the trading floor via PAR system.
29	Floor Order on PAR – Complex	Multi-leg order executed on the trading floor via PAR system.
30	Floor Order on PAR – FLEX Complex	Multi-leg FLEX order executed on the trading floor via PAR system.
31	Floor Legged In – Complex	Complex order executed by legging in on the trading floor.
32	Floor Legged In – FLEX Complex	FLEX complex order executed by legging in on the trading floor.
33	MM In-crowd – Simple	Market Maker order executed in-crowd, single-leg.
34	MM In-crowd – FLEX Simple	Market Maker FLEX order executed in-crowd, single-leg.
35	MM In-crowd – Complex	Market Maker order executed in-crowd, multi-leg.
36	MM In-crowd – FLEX Complex	Market Maker FLEX order executed in-crowd, multi-leg.
37	QCC	Qualified Contingent Cross trade.
38	Compression	Trade executed as part of a compression strategy.
39	Routed	Trade routed to another exchange for execution.
40	FLEX Auction – Simple	Single-leg FLEX option executed via auction.

41	FLEX Auction – Complex	Multi-leg FLEX option executed via auction.
42	COA Initiator	Initiator of a Complex Order Auction (COA).
43	COA Responder	Responder to a Complex Order Auction (COA).
44	COA Unrelated	Trade not directly related to a COA event.
45	SUM Displayed	Displayed order in the SUM (Simple Order Matching) book.
46	SUM Response	Response to a SUM order.
47	Complex Remove	Removal of a complex order from the book.
48	Complex Add	Addition of a complex order to the book.
49	Resting Complex Legged In	Complex order legged into a resting complex order.
50	Incoming Complex Trades with Simple Legs	Complex trade with simple legs entering the book.
51	Legged In to Resting Complex	Simple legged-in trade matched to a resting complex order.
52	Contra to Legged in Complex	Contra-side trade matched to a legged-in complex order.
53	Simple Remove	Removal of a simple order from the book.
54	Simple Add	Addition of a simple order to the book.
55	Opening Cross	Trade executed during the opening cross session.
56	RFC	Request for Cross trade.
57	Provisional	Trade type not yet classified; subject to future update or review.