

NYSE AMERICAN OPTIONS / NYSE ARCA OPTIONS GEMS BATCH / ONLINE EXTRACT LAYOUT (700 BYTES)

Field#	Field Name	Length	Position	Туре	OCC field (if available)	Field Description
1	Extract Number	10	1	N*	NA	Transmission Sequence Number
2	OCC Sequence Number	10	11	N*	Exchange Matched Trade Clearing Sequence Number	Uniquely identifies the trade in OCC; it is assigned by the Exchange.
3	Event ID	32	21	A/N	NA	Uniquely identifies an executed order. It is assigned by the Exchange.
4	Execution ID	20	53	A/N	NA	Uniquely identifies a trade (execution of buy and sell orders). It is assigned by the Exchange.
5	Original Execution ID	20	73	A/N	NA	Allows multiple adjustments on 1 trade or re-allocation to be grouped.
6	Exchange Code	2	93	A/N	NA	Exchange identifier. 02 = AMERICAN; 04 = ARCA
7	Entry Date	26	95	N	Activity date (MMDDYYYY only)	The date the trade was entered or adjusted in GEMS. Format: YYYY-MM-DD HH:MM:SS.SSSSS** (See note below relative to PTAs***)
8	Trade Date	26	121	N	As Of Date + Execution Time	The as-of date in which the trade is assumed to be in effect. Format: YYYY-MM-DD HH:MM:SS.SSSSS** (See note below relative to PTAs***)
9	Action Type	1	147	А	NA	Status of the trade: A = Added Clearing Record D = Deleted Clearing Record (only available for Online Extract and not Batch Extract).
10	Security Symbol	15	148	A/N	Symbol (6 chars only)	Underlying Security.
11	Expiration Date	8	163	N	Expiration Year, Expiration Month, Expiration Day	The date when the Option expires. Format: YYYYMMDD
12	Call Put	1	171	A	Call/Put Code	An alphabetic field that identifies the type of transaction. C = Call P = Put



Field#	Field Name	Length	Position	Туре	OCC field (if available)	Field Description
13	Strike Price	9	172	N*	Strike Price Dollar, Strike Price Decimal	The strike price of the option. The dollar amount occupies the first five positions and the decimal amount the next 4 positions. Format: \$\$\$\$
14	Buy/Sell Indicator	1	181	N	NA	The side of the trade. 1 = Buy 2 = Sell Fix Tag 54
15	Original Amount	10	182	N*	NA	Number of contracts ordered.
16	Trade Volume	10	192	N*	Trade Quantity	Number of contracts traded.
17	Premium	18	202	N*	Trade Price Dollar, Trade Price Decimal	Price of the option traded. Format: \$\$\$\$\$\$\$\$\$\$dddddddd
18	Open Close	1	220	A	Open/Close Code	Position as either open or closed. C = Close O = Open
19	Executing TPID	8	221	A/N	NA	The firm acronym assigned by the Exchange.
20	Clearing TPID	8	229	A/N	NA	The clearing firm acronym assigned by the Exchange.
21	Executing Firm Symbol	6	237	A/N	NA	Firm's billing symbol
22	Clearing Firm Symbol	6	243	A/N	NA	Clearing firm's billing symbol
23	OCC Clearing Number	5	249	N*	Sell or Buy Side Clearing Member	OCC clearing number for the firm through which the trade clears.
24	Executing Domain	32	254	A/N	NA	Firm buying or selling the option.
25	MM Account ID	4	286	A/N	Sell or Buy Side Account Number	The local or away exchange market maker/specialist or provided by the firms.
26	Floor Broker	10	290	A/N	Sell or Buy Side Executing Broker	Individual (Floor broker) who executes the trade on the trading floor.
27	СМТА	5	300	A/N	Sell or Buy Side CMTA Give- up Clearing Member	OCC clearing number on whose behalf the trade was executed.
28	Optional Data	32	305	A/N	Sell or Buy side Optional Data (16 chars only)	Information provided by the firm and passed to the OCC. Fix Tag 526.

Page **3** of **6**

Field#	Field Name	Length	Position	Туре	OCC field (if available)	Field Description
29	Customer/Firm Capacity	1	337	A	NA	The trading capacity provided: 0 = Customer 1 = Firm 2 = Broker Dealer (BD) 3 = Market Maker (MM) 8 = Professional customer Fix Tag 204
30	Execution Type	1	338	A	NA	How the trade was executed: B = Liquidity Adding Trade (Resting Order) C = Manual Trade Add - GEMS F = Liquidity Removing Trade (Non-resting Order) H = MM Side of Open Outcry Trade S = Floor Broker – Single Leg Trade Y = Floor Broker – Multi-Leg Trade X = OX Crossing Trade M = Complex Orders Stock + Options O = Opening Auction Trade T = Complex Orders Options Only
31	Cross Type	1	339	А	NA	F = Facilitation S = Sollicitation P = PI Auction Q = QCC
32	Exposed/Covered	1	340	А	NA	E = Exposed C = Covered
33	Account Type	1	341	А	Sell or Buy Side Account Type	Clearing account type. C = Cust F = Firm M = MM
34	Client Order ID	50	342	A/N	Sell or Buy Side Branch Sequence (20 chars only)	Order ID assigned by the firm and sent to the Exchange for execution. Fix Tag 11
35	Customer ID	50	392	A/N	Sell or Buy Side – Account Number (10 chars only)	Customer data that is a pass-through to the exchange. Customers pass it via Fix Tag 1.
36	Related TPID	8	442	A/N	NA	TPID of the representing firm. For a Floor Broker trade, this will be the TPID of the Floor Broker firm.
37	Non-ATP/OTP Market Maker Indicator	1	450	A/N	NA	Space = Cust/Firm (not Market Maker) A = Away MM (non-ATP/OTP MM Symbol) L = Local MM (ATP/OTP MM Symbol)





Field#	Field Name	Length	Position	Туре	OCC field (if available)	Field Description
37A	Liquidity Flag	1	451	А	NA	A = Add Liquidity; R = Remove Liquidity. O = Opening Auction, X = Routed Order, Blank = Floor Trade, P = BOLD Adding****, F = BOLD Removing ****
37B	Time in Force	1	452	A/N	NA	0 = Day; 1 = GTC; 3 = IOC, 5 = GTX
37C	Complex Trade ID	20	453	N	NA	Complex Trade Id that can be used to group all legs of the single complex order execution.
37D	Cabinet Trade Indicator	3	473	А	828	CAB - Designates that a trade is a cabinet trade
37E	Global Execution ID	20	476	N	1003	Trade ID assigned by the exchange that can be used to identify all transactions relating to an original order.
37F	Filler	54	496			Filler
38	Contra Clearing TPID	8	550	A/N	NA	The contra clearing firm acronym assigned by the Exchange.
39	Contra OCC Number	5	558	N*	Sell or Buy Side Clearing Member	The Contra clearing firm OCC number.
40	Contra MM Account ID	4	563	A/N	Sell or Buy Side Account Id	The local or away exchange market maker/specialist on the contra side
41	Contra Floor Broker	10	567	A/N	Sell or Buy Side Executing Broker	The individual buying or selling the trade.
42	Contra Executing TPID	8	577	А	NA	The contra firm acronym assigned by the Exchange.
43	Contra Executing Domain	32	585	A/N	NA	The firm buying/selling a trade.
44	Contra Execution Type	1	617	A	NA	How the trade was executed: B = Liquidity Adding Trade (Resting Order) C = Manual Trade Add - GEMS F = Liquidity Removing Trade (Non-resting Order) H = MM Side of Open Outcry Trade S = Floor Broker - Single Leg Trade Y = Floor Broker - Multi-Leg Trade Y = OX Crossing Trade M = Complex Orders Stock + Options O = Opening Auction Trade T = Complex Orders Options Only



Field#	Field Name	Length	Position	Туре	OCC field (if available)	Field Description
45	Contra Customer/Firm Capacity	1	618	A	NA	The trading capacity provided: 0 = Customer 1 = Firm 2 = Broker Dealer (BD) 3 = Market Maker (MM) 8 = Professional customer Fix Tag 204
46	Contra Open/Close	1	619	А	Open/Close	Position as either open or closed. C = Close O = Open
47	Contra Account Type	1	620	А	Sell or Buy Side Account Type	Clearing account type. C = Customer F = Firm M = MM
48	Contra Routed Exchange Code	1	621	A	NA	$\begin{array}{l} A = AMERICAN \\ B = BOX \\ C = CBOE \\ E = EDGX \\ H = ISE2 \\ I = ISE \\ J = MERCURY \\ M = MIAX \\ Q = NDQ \\ R = MIAX Pearl \\ T = NASD \\ P = ARCA \\ W = C2 \\ X = PHLX \\ Z = BATS \end{array}$
49	Contra Liquidity Flag	1	622	A	NA	A = Add Liquidity; R = Remove Liquidity O = Opening Auction, X = Routed Order, Blank = Floor Trade, P = BOLD Adding****, F = BOLD Removing ****
49A	Contra Time In Force	1	623	A/N	NA	0 = Day; 1 = GTC; 3 = IOC, 5 = GTX
49B	Contra Cross Type	1	624	A	NA	F = Facilitation S = Sollicitation P = PI Auction Q = QCC
49C	Contra Covered/Exposed	1	625	А	NA	C = Covered: E = Exposed

Ice	NYSE

F	-ield#	Field Name	Length	Position	Туре	OCC field (if available)	Field Description
4	9D	Filler	75	626	А	NA	Filler

* Note that where applicable, numeric fields will be padded with zeroes

** GEMS will ultimately carry microseconds following planned upgrades to upstream systems – until then these will be padded with zeroes.

*** Note that trades resulting from Post Trade Allocation messages (PTAs) via FIX for CUBE orders will reflect the time of the Post Trade Allocation <u>not</u> the original execution time. Firms needing to match off the PTAs with their original executions can utilize the Original Execution ID (Field #5) for that purpose.

**** AMERICAN Only