



IEX OPTIONS COMMON SPECIFICATION

Version 1.06

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OVERVIEW

IEX Options LLC (“IEX Options”) is a wholly owned subsidiary of IEX Group, Inc. that operates an options exchange trading system (the “System”). The System is designed to offer an electronic limit order book for transacting listed options.

This document defines the IEX Options messages that are common to the IEX Options DEEP and IEX Options TOPS feeds:

- **Underlying Reference Data** – Provides reference information about the underlying assets for options, including identifiers and pricing attributes necessary for market participants.
- **Symbol Mapping** – Supplies a mapping between underlying symbol to options series. A given options series is uniquely identified by its Instrument ID. This message also includes information about the Trading Ring that the instrument is traded on.
- **Instrument Clear** – Signals a full clear of the displayed book for a given Instrument ID.
- **Trading Status** – Communicates real-time updates about the trading state of an options instrument, such as trading halts, resumptions, or regulatory interruptions.
- **Options Auction Summary** – Delivers final summary data following an options auction, including matched quantities and price outcomes.
- **Options Auction Width Update** – Provides notification in the event that the allowable width for the Opening or Re-Opening process is changed.
- **Liquidity Event Notification** – Communicates the occurrence of a liquidity event, such as a Step-Up Mechanism (SUM).
- **Liquidity Event Execution** – Reports executions resulting from liquidity events. A single event may generate multiple execution messages, each detailing price, quantity, and execution identifiers.
- **Liquidity Event Cancel** – Informs participants when a liquidity event has been canceled or concluded without full execution. Reasons for cancelation may include order cancelation or modification, NBBO movement, or partial fills with remaining quantities removed..

Architecture

IEX Options market data feeds are comprised of a series of sequenced messages. Each message is variable in length based on the message type. IEX reserves the right to add message types and grow the length of any messages without notice. Subscribers should develop their decoders to deal with unknown message types and messages that grow beyond the expected length. Messages will only be extended to add additional fields to the end of a message. The messages that make up the data feed are delivered using a lower-level protocol that takes care of sequencing and delivery guarantees. See the *IEX Options Market Data Transport Protocol* document for more details.



Encoding

IEX Options direct feeds utilize the [FIX Trading Community's Simple Binary Encoding \(SBE\)](#) to specify message encoding.

The feed is always encoded in Little Endian byte order.

Data Types

Primitive Types

For more information on primitive type encoding, see the [SBE specification](#).

Type	Length (bytes)	Description	Value Range	Null Value
CHAR	1	ASCII Character	0(NUL) to 127(DEL)	0
STRING(<i>n</i>)	<i>n</i>	Array of CHARs, right padded with NULL characters.	Array of 0(NUL) to 127(DEL)	0
INT8	1	Signed Integer	-127 to 127	-128
INT16	2	Signed Integer	-32767 to 32767	-32768
INT32	4	Signed Integer	$-2^{31} + 1$ to $2^{31} - 1$	-2^{31}
INT64	8	Signed Integer	$-2^{63} + 1$ to $2^{63} - 1$	-2^{63}
UINT8	1	Unsigned Integer	0 to 254	255
UINT16	2	Unsigned Integer	0 to 65534	65535
UINT32	4	Unsigned Integer	0 to $2^{32} - 2$	$2^{32} - 1$
UINT64	8	Unsigned Integer	0 to $2^{63} - 1$	$2^{64} - 1$



SBE Header

SBE includes a header for each message. The SBE header is followed by the SBE body for the message.

Field	Offset	Length	Type	Description
Block Length	0	2	UINT16	The number of bytes in the message body (does not include the header bytes)
Template ID	2	2	UINT16	Identifier of the message template (ie. the message type)
Schema ID	4	2	UINT16	The identifier of a message schema NOTE: SchemaID=10000 for all messages on IEX Options DEEP and IEX Options TOPS
Version	6	2	UINT16	The version number of the message schema that was used to encode the message

Price8

Prices are fixed-point scale decimal, encoded as a signed long (INT64) mantissa and a constant exponent of -8.

Type Name	Length	Type	Description
Mantissa	8	INT64	The fixed-point decimal representation of the price

Note: The exponent is marked presence="constant" in the SBE schema and is not transmitted over the wire.

MPVType

MPVType describes the minimum price variation for an instrument.

MPVType is a 1-byte INT8 value.

Value	Name
0	All Penny
1	Penny / Nickel
2	Nickel / Dime

OptionType

OptionType describes whether this option is a Put or Call.

OptionType is a 1-byte INT8 value.

Value	Name
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0	Put
1	Call

BooleanType

Boolean values are not defined specifically in SBE.

The schema defines a BooleanType which represents a numeric value with True = 1 and False = 0.

TradingStatusType

TradingStatusType represents the current trading state of an instrument on IEX Options.

TradingStatusType is a 1-byte INT8 value.

Value	Name
0	Halted
1	Pre-Opening
2	Opening Process
3	Continuous Trading
4	Re-Opening Process
5	Suspended
6	Queueing

AuctionType

AuctionType describes whether this is an opening or halt re-opening auction.

AuctionType is a 1-byte INT8 value.

Value	Name
0	Opening
1	Halt Re-Opening

LiquidityEventType

LiquidityEventType describes the type of liquidity event.

LiquidityEventType is a 1-byte INT8 value.

Value	Name
0	Step Up Mechanism (SUM)



SideType

SideType describes the side the order is on: either bid (buy) or offer (sell).

SideType is a 1-byte INT8 value.

Value	Name
1	Buy
2	Sell

CapacityType

CapacityType of the order. Used for SUMed orders.

CapacityType is a 1-byte INT8 value.

Value	Name
0	Customer
1	Firm
2	Broker/Dealer
3	Market Maker
4	Away Market Maker
5	Prof Customer
6	Not Disclosed

CustIndType

CustIndType indicates Priority Customer capacity, if applicable, of the order.

CustIndType is a 1-byte INT8 value.

Value	Name
0	Customer
1	Non-Customer (incl. Professional Customers)

ModFlagType

ModFlagType indicates whether an order maintains or resets priority after a modification.

ModFlagType is a 1-byte INT8 value.

Value	Name
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0	Reset Priority
1	Maintain Priority

ORPType

ORPType indicates whether an order has ORP protection enabled.

ORPType is a 1-byte INT8 value.

Value	Name
0	ORP Protection Enabled
1	ORP Protection Disabled

CloseIndicatorType

CloseIndicatorType is used to notify when trading and order acceptance for all instruments belonging to the Underlying Symbol specified has concluded for the trading day. CloseIndicatorType will be set to 0 when the initial Underlying Ref Data message is published at Start of Day.

CloseIndicatorType is a 1-byte INT8 value.

Value	Name
0	Default
1	Underlying Closed



Timestamp Relationships

Timestamps establish a total ordering of a happened-before relationship within the IEX Trading System. Within a Channel ID, if Message A has a lower Timestamp than Message B, then the event causing Message A happened before (i.e., preceded) the event causing Message B. Messages with the same Timestamp (regardless of Message Type or Instrument ID) were caused by the same event and may be interpreted to have happened simultaneously and atomically within the IEX Trading System.

IEX Options Market Data Feed Infrastructure

IEX Options leverages a multi-ring architecture intended to maximize performance at scale. This architecture includes multiple Trading Rings from which market data will be published. Trading Rings also house the various Matching Units on which tradeable series (Instrument IDs) are maintained. A given Instrument ID is on a single Matching Unit, which is in a single Trading Ring. Additionally, all Instrument IDs sharing the same underlying symbol will be deployed in the same Trading Ring.



NETWORK DETAILS

Note that network details are subject to change. Please contact IEX Market Operations by emailing optionsmktops@iextrading.com or calling [646 343 2004](tel:6463432004) for the most up-to-date network details available.

IEX Options Test Facility Feeds Unicast and Multicast IPv4

Ring #	Realtime DEEP	Realtime TOPS	Snapshot DEEP	Snapshot TOPS	Retransmission DEEP	Retransmission TOPS
Source IP Subnet: 172.87.250.32/28						
AS 26581						
RP: 172.87.250.49						
Trading 1	233.103.213.10:3001, 233.103.213.20:3003	233.103.213.11:3002, 233.103.213.21:3004	233.103.213.12:3005, 233.103.213.22:3007	233.103.213.13:3006, 233.103.213.23:3008	233.103.213.14:3009, 233.103.213.24:3011	233.103.213.15:3010, 233.103.213.25:3012



IEX Options Production Environment A Feeds Unicast & Multicast IPv4

Ring d #	Realtime DEEP	Realtime TOPS	Snapshot DEEP	Snapshot TOPS	Retrans DEEP	Retrans TOPS	Network Source
AS: 26015							
RP: 172.87.250.52/32							
10	233.101.159.1:30 001-30003	233.101.159.17:4 0001-40003	233.101.159.33:3 1001-31003	233.101.159.49: 41001-41003	233.101.159.65:32001- 32003	233.101.159.81:42001- 42003	172.87.249.144/28
11	233.101.159.2:30 001-30003	233.101.159.18:4 0001-40003	233.101.159.34: 31001-31003	233.101.159.50: 41001-41003	233.101.159.66: 32001- 32003	233.101.159.82:42001- 42003	172.87.249.0/28
12	233.101.159.3:30 001-30003	233.101.159.19:4 0001-40003	233.101.159.35:3 1001-31003	233.101.159.51: 41001-41003	233.101.159.67: 32001- 32003	233.101.159.83:42001- 42003	172.87.249.16/28
13	233.101.159.4:30 001-30003	233.101.159.20:4 0001-40003	233.101.159.36:3 1001-31003	233.101.159.52: 41001-41003	233.101.159.68: 32001- 32003	233.101.159.84:42001- 42003	172.87.249.32/28
14	233.101.159.5:30 001-30003	233.101.159.21:4 0001-40003	233.101.159.37:3 1001-31003	233.101.159.53: 41001-41003	233.101.159.69: 32001- 32003	233.101.159.85:42001- 42003	172.87.249.48/28
15	233.101.159.6:30 001-30003	233.101.159.22:4 0001-40003	233.101.159.38:3 1001-31003	233.101.159.54: 41001-41003	233.101.159.70: 32001- 32003	233.101.159.86:42001- 42003	172.87.249.64/28
16	233.101.159.7:30 001-30003	233.101.159.23:4 0001-40003	233.101.159.39:3 1001-31003	233.101.159.55: 41001-41003	233.101.159.71: 32001- 32003	233.101.159.87:42001- 42003	172.87.249.80/28
17	233.101.159.8:30 001-30003	233.101.159.24:4 0001-40003	233.101.159.40: 31001-31003	233.101.159.56: 41001-41003	233.101.159.72: 32001- 32003	233.101.159.88:42001- 42003	172.87.249.96/28
18	233.101.159.9:30 001-30003	233.101.159.25:4 0001-40003	233.101.159.41:3 1001-31003	233.101.159.57: 41001-41003	233.101.159.73: 32001- 32003	233.101.159.89:42001- 42003	172.87.249.112/28
19	233.101.159.10 :30001-30003	233.101.159.26:4 0001-40003	233.101.159.42:3 1001-31003	233.101.159.58: 41001-41003	233.101.159.74: 32001- 32003	233.101.159.90:42001- 42003	172.87.249.128/28



IEX Options Production Environment B Feeds Unicast & Multicast IPv4

RingId #	Realtime DEEP	Realtime TOPS	Snapshot DEEP	Snapshot TOPS	Retrans DEEP	Retrans TOPS	Network Source
AS: 26015							
RP: 172.87.250.60/32							
10	233.101.159.96:30001-30003	233.101.159.112:40001-40003	233.101.159.128:31001-31003	233.101.159.144:41001-41003	233.101.159.160:32001-32003	233.101.159.176:42001-42003	207.11.196.144/28
11	233.101.159.97:30001-30003	233.101.159.113:40001-40003	233.101.159.129:31001-31003	233.101.159.145:41001-41003	233.101.159.161:32001-32003	233.101.159.177:42001-42003	207.11.196.0/28
12	233.101.159.98:30001-30003	233.101.159.114:40001-40003	233.101.159.130:31001-31003	233.101.159.146:41001-41003	233.101.159.162:32001-32003	233.101.159.178:42001-42003	207.11.196.16/28
13	233.101.159.99:30001-30003	233.101.159.115:40001-40003	233.101.159.131:31001-31003	233.101.159.147:41001-41003	233.101.159.163:32001-32003	233.101.159.179:42001-42003	207.11.196.32/28
14	233.101.159.100:30001-30003	233.101.159.116:40001-40003	233.101.159.132:31001-31003	233.101.159.148:41001-41003	233.101.159.164:32001-32003	233.101.159.180:42001-42003	207.11.196.48/28
15	233.101.159.101:30001-30003	233.101.159.117:40001-40003	233.101.159.133:31001-31003	233.101.159.149:41001-41003	233.101.159.165:32001-32003	233.101.159.181:42001-42003	207.11.196.64/28
16	233.101.159.102:30001-30003	233.101.159.118:40001-40003	233.101.159.134:31001-31003	233.101.159.150:41001-41003	233.101.159.166:32001-32003	233.101.159.182:42001-42003	207.11.196.80/28
17	233.101.159.103:30001-30003	233.101.159.119:40001-40003	233.101.159.135:31001-31003	233.101.159.151:41001-41003	233.101.159.167:32001-32003	233.101.159.183:42001-42003	207.11.196.96/28
18	233.101.159.104:30001-30003	233.101.159.120:40001-40003	233.101.159.136:31001-31003	233.101.159.152:41001-41003	233.101.159.168:32001-32003	233.101.159.184:42001-42003	207.11.196.112/28
19	233.101.159.105:30001-30003	233.101.159.121:40001-40003	233.101.159.137:31001-31003	233.101.159.153:41001-41003	233.101.159.169:32001-32003	233.101.159.185:42001-42003	207.11.196.128/28



IEX Options Disaster Recovery Environment C Feeds Unicast & Multicast IPv4

RingId #	Realtime DEEP	Realtime TOPS	Snapshot DEEP	Snapshot TOPS	Retrans DEEP	Retrans TOPS	Network Source
AS 26581							
RP 172.87.250.128							
10	233.103.213.129: 30001-30003	233.103.213.137: 40001-40003	233.103.213.145: 31001-31003	233.103.213.153: 41001-41003	233.103.213.161: 32001-32003	233.103.213.169: 42001-42003	207.11.195.0/28
11	233.103.213.130: 30001-30003	233.103.213.138: 40001-40003	233.103.213.146: 31001-31003	233.103.213.154: 41001-41003	233.103.213.162: 32001-32003	233.103.213.170: 42001-42003	207.11.195.16/28
12	233.103.213.131: 30001-30003	233.103.213.139: 40001-40003	233.103.213.147: 31001-31003	233.103.213.155: 41001-41003	233.103.213.163: 32001-32003	233.103.213.171: 42001-42003	207.11.195.32/28
13	233.103.213.132: 30001-30003	233.103.213.140: 40001-40003	233.103.213.148: 31001-31003	233.103.213.156: 41001-41003	233.103.213.164: 32001-32003	233.103.213.172: 42001-42003	207.11.195.48/28



Retransmission Service Networking Details

In addition to the multicast feeds described above, members may request retransmission of previously published messages using the TCP-based IEX Options Retransmission Request Service. Details on this service are available in the [IEX Options Market Data Transport Protocol Specification](#).

Market data subscribers will be provisioned TCP sessions by IEX Options Market Operations to submit retransmission requests. For the Production Environment, both an A and a B TCP session will be assigned, each connected to a different IP and port, as shown below. Each side is served by a primary and backup TCP endpoint for physical redundancy. Users should be prepared to fail over to the backup endpoint for a given side if the primary is unreachable.

IEX Options Production System Retransmission Request Service Endpoints:

IP Address	Source Network	Port
172.87.249.162 (Primary)	172.87.249.160/28	11377 (A-Side) 11378 (B-Side)
207.11.196.178 (Secondary)	207.11.196.176/28	11387 (A-Side) 11388 (B-Side)

When sending a retransmission request, both the feed (TOPS / DEEP) and a specific multicast channel must be specified. IEX Options Production System has 3 distinct channels per Trading Ring, as shown in the Multicast IPv4 schemes in the section above. The Channel ID specified in the request is a three-digit integer, wherein the first 2 digits are the Ring ID of the Trading Ring, and the last digit is the port. The resulting Channel ID schema for requesting retransmissions is shown below.

IEX Options Production System Retransmission Request Channel IDs:

Ring ID #	Port #	Retransmission Request Channel ID
10	DEEP: 30001 TOPS:40001	101
	DEEP: 30002 TOPS:40002	102
	DEEP: 30003 TOPS:40003	103
11	DEEP: 30001 TOPS:40001	111
	DEEP: 30002 TOPS:40002	112
	DEEP: 30003 TOPS:40003	113
12	DEEP: 30001 TOPS:40001	121
	DEEP: 30002 TOPS:40002	122



	DEEP: 30003 TOPS:40003	123
13	DEEP: 30001 TOPS:40001	131
	DEEP: 30002 TOPS:40002	132
	DEEP: 30003 TOPS:40003	133
14	DEEP: 30001 TOPS:40001	141
	DEEP: 30002 TOPS:40002	142
	DEEP: 30003 TOPS:40003	143
15	DEEP: 30001 TOPS:40001	151
	DEEP: 30002 TOPS:40002	152
	DEEP: 30003 TOPS:40003	153
16	DEEP: 30001 TOPS:40001	161
	DEEP: 30002 TOPS:40002	162
	DEEP: 30003 TOPS:40003	163
17	DEEP: 30001 TOPS:40001	171
	DEEP: 30002 TOPS:40002	172
	DEEP: 30003 TOPS:40003	173
18	DEEP: 30001 TOPS:40001	181
	DEEP: 30002 TOPS:40002	182
	DEEP: 30003 TOPS:40003	183
19	DEEP: 30001 TOPS:40001	191
	DEEP: 30002 TOPS:40002	192
	DEEP: 30003 TOPS:40003	193



Message Types

Administrative Message Types

Underlying Ref Data (Template ID = 1)

Used to provide a full start-of-day spin of all underlying symbols on which options classes are listed. The “Underlying” field in this message is referenced in the “Symbol Mapping” message that is then published for each individual series. Users should consume this message to link individual Instrument IDs to the correct MPV Group configuration dictated by the underlying symbol.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=1
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Underlying ID	16	4	UINT32	Unique identifier for this underlying
Underlying Symbol	20	16	STRING(16)	ASCII string representing the underlying symbol
Exchange Code	36	1	CHAR	The market where this symbol is listed: - A - NYSE American - F - TXSE - L - LTSE - N - NYSE - P - NYSE Arca - Q - NASDAQ - M - NYSE Texas - V - IEX - Z - CBOE BZX - ' ' - (space or 0x20) for OTC or Index based product.
MPVGroup	37	1	MPVType	Minimum price variation for the Underlying
CloseIndicator	38	1	CloseIndicatorType	Populated with “1” at end of trading day to denote that all instruments belonging to this Underlying Symbol are closed for the trading day.
Total Length = 39 Bytes				

Symbol Mapping (Template ID = 2)

Used to map an Instrument ID to its corresponding OSI symbol and underlying asset. Each Instrument ID identifies a specific option chain. Symbol Mapping messages are included in the full start-of-day spin, with one message per Instrument ID, published on the Channel ID that will carry related messages for that instrument.



Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=2
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Instrument ID	16	4	UINT32	Instrument ID of options series
OSI Symbol	20	32	STRING(32)	OSI Symbol of options series
Trading Ring	52	1	INT8	Trading Ring this instrument is traded within
Closing Only Series	53	1	BooleanType	False = Normal True = Closing Only
Underlying ID	54	4	UINT32	Underlying ID
Maturity Date	58	8	STRING(8)	Option Maturity Date - YYYYMMDD
Option Type	66	1	OptionType	Whether this option is a Put or Call
Strike Price	67	8	Price8	Strike price of this options series
ORP Enablement	75	1	ORPType	Status indicator of ORP protection enablement associated with this instrument
Total Length = 76 Bytes				

Instrument Clear (Template ID = 3)

Used in advance of a full state refresh for an instrument affected by a failure and recovery scenario. A Symbol Clear message directs a client to clear all state information for the specified series prior to receiving the state refresh.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=3
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Instrument ID	16	4	UINT32	Instrument ID of options series
Total Length = 20 Bytes				

Trading Status (Template ID = 4)

Published every time an individual option series (as identified by its Instrument ID) has a change in its trading status.

Published at daily start of trading prior to Opening Process with Trading Status = 1 (Pre-Opening). Then published at or after 9:30am ET with Trading Status = 2 (Opening Process) when Opening Process



begins for this series. Lastly, published with Trading Status = 3 (Continuous Trading) when series is opened for Continuous Trading.

In event of a regulatory halt, published with Trading Status = 0 (Halt) at time of halt. At this time, orders and quotes will still be accepted, though no trades are effected. Again published following receipt of halt conclusion in the underlying security with Trading Status = 4 (Re-Opening Process) to indicate the Re-Opening Process is being initiated for this series. When the Re-Opening Process concludes, published with Trading Status = 3 (Continuous Trading) to indicate the series has re-opened for Continuous Trading.

In the event of a trading suspension by Market Operations, published with Trading Status = 5 (Suspended). At this time, orders and quotes are canceled back and will not be accepted on the book. When the suspension is lifted, this message is published with Trading Status = 6 (Queueing) to denote orders and quotes are again being accepted, though no trades are being effected. Message will then be published with Trading Status = 2 (Opening Process) or 4 (Re-Opening Process) to indicate the Opening / Re-Opening Process is being initiated for this series. When the Opening / Re-Opening Process concludes, published with Trading Status = 3 (Continuous Trading) to indicate the series has opened / re-opened for Continuous Trading.

Note that no Trading Status update is published for individual series at the end of the trading day. Subscribers should instead use the Underlying Ref Data message with CloseIndicator = 1 to determine that trading in a series has concluded.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=4
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Instrument ID	16	4	UINT32	Instrument ID of options series
Trading Status	20	1	TradingStatusType	Current trading status for this instrument
Total Length = 21 Bytes				

Options Auction Summary (Template ID = 5)

Published at the conclusion of the Opening or Re-Opening of any options series to disseminate the results. This message will not be published for a series if the System opens on a quote.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=5
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Instrument ID	16	4	UINT32	Instrument ID of options series



Auction Summary Type	20	1	AuctionType	Whether this is an opening or halt re-opening auction.
Price	21	8	Price8	Auction price
Contracts	29	4	UINT32	Cumulative number of contracts executed during the auction match
Total Length = 33 Bytes				

Options Auction Width Update (Template ID = 6)

Applies to Opening Process and Re-Opening (un-halting) Process. Will be disseminated in the event that the maximum differential has been changed by IEX Options for the underlying specified on a per underlying basis.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=6
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Underlying ID	16	4	UINT32	Underlying ID
Quote Relief Multiplier	20	1	UINT8	Integer multiplier. Reflects the multiplier to be applied to the maximum allowable bid-ask differential for the Legal Width Quote for the Opening / Re-Opening process on instruments for the Underlying ID specified.
Total Length = 21 Bytes				



Common Trading Message Types

Liquidity Event Notification (Template ID = 7)

Used to disseminate order details of a liquidity event. These events are only available for a defined period of time, known as the exposure period.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=7
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Instrument ID	16	4	UINT32	Instrument ID of options series
Event ID	20	4	UINT32	Day-specific identifier assigned to this liquidity event
Liquidity Event Type	24	1	LiquidityEventType	Type of Liquidity Event
Side	25	1	SideType	The side of this liquidity event
Price	26	8	Price8	When Auction Type = SUM, Price = NBBO price of opposite side of liquidity event at the time of entry.
Contracts	34	4	UINT32	Number of contracts available in the liquidity event.
Capacity	38	1	CapacityType	Capacity specified with the liquidity event
Participant ID	39	4	STRING(4)	Executing Broker (optional) of firm attributed to this quote
Event End Offset	43	4	UINT32	End time of event, nanosecond offset from the Time of this message.
Total Length = 47 Bytes				

Liquidity Event Execution (Template ID = 8)

Used to disseminate executions resulting from a liquidity event. Multiple Liquidity Event Executions may be published for a single Liquidity Event in the case of multiple fills.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=8
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Instrument ID	16	4	UINT32	Instrument ID of options series
Event ID	20	4	UINT32	Day-specific identifier assigned to this liquidity event
Trade ID	24	8	UINT64	Day-specific identifier assigned to this execution



Price	32	8	Price8	Trade price
Contracts	40	4	UINT32	Number of contracts traded
Total Length = 44 Bytes				

Liquidity Event Cancel (Template ID = 9)

Used to disseminate the cancellation or conclusion of a liquidity event. This can occur because of user cancelation of the original order for which the liquidity event was triggered, a user modification that changed the price or increased the original order quantity (which will trigger the publication of another Liquidity Event Notification), a fading of the NBBO, or to cancel any remaining order quantity following the liquidity event termination. Note that a Liquidity Event Cancel is not published in the event that the full order quantity of the order triggering the liquidity event is filled.

Field Name	Offset	Length	Type/Value	Description
SBE Header	0	8	SBE Header	SBE Header with SchemaID set as specified in SBE Header definition above, TemplateID=9
Time	8	8	UINT64	Number of whole nanoseconds since the Epoch (midnight January 1, 1970 UTC)
Instrument ID	16	4	UINT32	Instrument ID of options series
Event ID	20	4	UINT32	Day-specific identifier assigned to this liquidity event
Total Length = 24 Bytes				



REVISION HISTORY

Version	Date	Change
1.00	February 5, 2026	Initial publication of document.
1.01	March 23, 2026	1. Removed Time message. Renumbered TemplateIDs of all remaining messages to align. 2. Replaced “Time Offset” field (UINT32) with “Time” field (UINT64) for all Message Types. 3. Updated description of “Event End Offset” in Liquidity Event Notification message to “End time of event, nanosecond offset from the Time of this message.”
1.02	June 23 rd , 2026	1. Updated IP Addresses and Port Numbers supplied in Network Details section of document. 2. Updated SchemaID for all messages to be 10000. 3. Updated Underlying Ref Data message length to 39 bytes, Options Auction Width Update message length to 21 bytes, Liquidity Event Execution message length to 44 bytes, and Liquidity Event Cancel message length to 24 bytes.
1.03	July 17 th , 2026	1. Replaced CustIndType with CapacityType in Liquidity Event Notification message.
1.04	July 31 st , 2026	1. Updated IP Addresses and Port Numbers supplied in the Network Details section of the document for “IEX Options Production Environment A Feeds Unicast & Multicast IPv4” and “IEX Options Production Environment B Feeds Unicast & Multicast Ipv4”
1.05	August 7 th , 2026	1. Added the “Retransmission Service Networking Details” section. 2. Updated message descriptions in Overview section.
1.06	September 16 th , 2026	1. Added “F - TXSE” as an Exchange Code value in the Underlying Ref Data message.