

NYSE Pillar Gateway FIX Protocol Specification

NYSE Arca Options

NYSE American Options

June 27, 2025
OPTIONS SPEC VERSION 3.22

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1. Introduction

This document describes the implementation of the FIX 4.2 protocol used by the NYSE Group markets via the Pillar FIX Gateway. It includes information pertaining to application communication with the following venues.

Current Market Support							
NYSE Arca Options							
NYSE American Options							

This document assumes the reader has a thorough understanding of the FIX 4.2 protocol available at http://www.fixprotocol.org/. As such, it is not intended as a guide to constructing a FIX client. Rather, it is a reference to ensure that a firm's FIX client, constructed according to the FIX 4.2 specifications, will be compatible with the Pillar FIX Gateway.

1.1 About the Pillar FIX Gateway

Pillar FIX Gateway is the application offering a single protocol for firms to transact business with one or more of the NYSE Group markets. It is a component of Pillar, an integrated trading technology platform that has been designed to reduce complexity, while enhancing consistency, performance and resiliency across the NYSE Group markets.

For more information on the Pillar trading platform and gateway rollout, please visit https://www.nyse.com/pillar.

1.2 Session Configuration by Market

Each session on the Pillar Gateway will be configured to access a single NYSE Group market. The market configuration will determine which market-specific FIX tags and values may be transacted over that session. For details on the applicability of each tag and value to the various markets, please refer to the FIX Application Layer message formats.

1.3 Failure Recovery

Each session on the Pillar Gateway is assigned two pairs of destination Pillar IP addresses, and one port number used by all four IPs. The IP/Port pairs correspond to the Pillar Primary and DR production environments.

- **Primary Production Environment** Pillar FIX Gateway users may be logged in to either the primary or backup destination IP addresses, but not both, at any given time.
 - Once logged in, a successful login attempt on the other IP address will result in a logout on the first IP.
 - In the event that the primary destination becomes unavailable, the user should attempt to log in on the secondary IP address.
 - Cancel on Disconnect will be triggered if the outage was caused by a gateway failure or when the login occurs on the secondary IP address, honoring the Cancel on Disconnect configuration for the session.
 - The sequence number on the secondary IP address will always continue from the last Application Layer message transacted on the primary IP (and vice versa). That is, Session Layer messages will not be recovered nor counted in determining the next sequence number expected from the client.

- o In the event of an intraday session restart, both Primary and Secondary destination IP addresses will be temporarily unavailable.
 - All open orders entered on the affected session will be cancelled, including GTC orders, regardless of the Cancel on Disconnect configuration for the session.
 - Upon restart:
 - If the session restart was not accompanied by a software release rollback, Application
 Layer messages transacted on the affected session prior to the outage will be
 recoverable, and the sequence number will continue from the last Application Layer
 message transacted. That is, Session Layer messages will not be recovered.
 - If the session restart was accompanied by a software release rollback, messages transacted on the affected session prior to the outage will not be recoverable. Sequence numbers will start with 1.
- **DR Production Environment** In the event that the Pillar Primary Production environment becomes unavailable, Pillar FIX Gateway users may log in to the DR IP addresses configured for their sessions.
 - All open orders will be cancelled automatically, regardless of whether the user attempts to log back in or not and regardless of the Cancel on Disconnect configuration for the session.
 - o UROUTs will not be sent for the orders.
 - Messages transacted on the affected session prior to the outage will not be recoverable. Sequence numbers will start with 1.

NYSE Pillar Risk Mitigation

In the event a matching engine enters an unexpected state, the Pillar Risk Mitigation process will be triggered.

- Gateway users will receive unsolicited cancels on all live orders on the impacted matching engine, including GTC, MOO, LOO, CUBE with a reason code '168 – Pillar Risk Mitigation'.
- The impacted matching engine will initiate an automatic recovery during which period new orders will be rejected with a reason code '76 System not available'.
- Once the resumption is complete, users will need to resubmit GTC, MOO, LOO and CUBE orders.

1.4 Contact Us

The NYSE Group Market Support teams have a centralized phone number. Through this number, clients are able to reach all support contacts for Trading, Technical, Market Data and Client Relationship Services.

+1 212-896-2830

Follow the prompts for menu options.

1.5 Data Types

A data type and length are provided for each FIX tag in this specification in the "Data Type" column of the message format tables. These length values represent systemic limits enforced by the Pillar FIX Gateway. All values entered by firms are subject to additional validations, as indicated in the "Values" column of the tables.

Firms should not null pad a FIX tag to equal the systemic limit. Instead, each tag should be populated with the natural length of the intended value.

For FIX tags with data type Price[16], the maximum acceptable length is 16 characters including the decimal point. The maximum number of digits allowed to the right of the decimal is 8 (including significant digits and any trailing 0s).

1.6 Mapping Orders and Executions to Pillar Market Data

The NYSE Pillar FIX Gateway provides order and deal identifiers as unique 8-byte integers (unsigned Little Endian), represented as strings up to 20 characters in the following outgoing message types.

FIX Message Type	FIX Tag(s) for Mapping
MsgType 8 – Execution Report	OrderID[37], DealID[9483]
MsgType 9 – Cancel, Cancel/Replace Reject	OrderID[37]

To correlate the OrderID and TradeID values provided in the Pillar FIX Gateway with Pillar Market Data:

- The full 8 bytes of the gateway "OrderID" correspond to the 'OrderID' field in Pillar Market Data.
- Bytes 5 through 8 of the gateway "DealID" correspond to the 'TradeID' field in Pillar Market Data.
 - o In all feeds, the MarketID and SystemID are provided in the Symbol Index Mapping, and these values are static for the trading day.
 - The table below shows the data structure of the 8-byte DealID value provided in the Pillar FIX Gateway
 as it maps to Pillar Market Data. This table assumes the client byte ordering is Little Endian. If the client
 byte ordering is Big Endian, the byte order is reversed.

Pillar Market Data Field Name	Offset	Size (Bytes)	Format	Description
Reserved	0	1	Binary	0
SystemID	1	1	Binary	Unique ID of the originating Pillar symbol partition. This value is found in the Symbol Index Mapping message's ID field.
MarketID	2	2	Binary	ID of the Originating market in the Symbol Index Mapping.
TradeID	4	4	Binary	Public TradeID as it will appear in Pillar Market Data products.

For more information, please refer to the Pillar Market Data Common Client Specification at https://www.nyse.com/market-data/real-time.

2. Trading Services

2.1 Self-Trade Prevention

NYSE Group offers a Self-Trade Prevention (STP) service. This service is designed to allow firms to better manage their order/quote flow and prevent unintended executions with themselves.

STP Firm Identifier - STP may be enforced using one of two alternative firm identifiers:

- MPID based STP two orders/quotes with the same MPID (OnBehalfOfCompID) + OnBehalfOfSubID (optional sub identifier) will be prevented from trading with each other.
- ClientID based STP two orders/quotes with the same ClientID, an identifier registered with the Exchange, will be prevented from trading with each other regardless of whether the MPIDs are same or different. Firms may opt in to using the ClientID STP functionality by requesting it as a session level default. The default will be echoed back on order acknowledgements via unsolicited FIX tag ClientID[109]. To request this functionality, please contact Client Relationship Services at CRS@nyse.com.
- The above identifiers are mutually exclusive. An order/quote with a ClientID will always be allowed to trade with an order/quote that does not have a ClientID, even if they are from the same MPID.

STP Types:

- STP Cancel Newest An incoming order/quote marked with this designation will not execute against opposite
 side resting interest that is also marked with any of the STP Types. Instead, the incoming or repriced
 order/quote will be automatically cancelled back to the originator. The resting order/quote remains on the
 order book.
- STP Cancel Oldest An incoming order/quote marked with this designation will not execute against opposite side resting interest that is also marked with any of the STP Types. Instead, the resting orders/quotes will be automatically cancelled back to the originator. The incoming order/quote will then continue to auto execute or be placed on the order book.
- STP Cancel Both An incoming order/quote marked with this designation will not execute against opposite side resting interest that is also marked with any of the STP Types. Instead, both the incoming and the resting order/quote will be cancelled back automatically.

2.2 Message Throttling

Inbound messages from a given session are throttled at a rate of 500 messages per rolling 100 milliseconds (including all Session and Application Layer message types). A session becomes throttled when the message count reaches a value of 500 during the time window. A session becomes un-throttled when there are no messages to read from the firm.

Throttled messages are queued and processed in time sequence as the message read rate allows. Gap Fill Requests will be processed without impact to processing of inbound messages. However, responses to inbound application messages (acknowledgements, execution reports, etc.) will be sequenced after a Gap Fill Request that is in process.

2.3 Denial of Service Restrictions

Pillar maintains a running counter of log in attempts and session level rejects on a per SenderCompID/Target IP address basis over the course of a trading day. If either of the counters reaches 100, the SenderCompID/Target IP will go into Denial of Service Mode. Upon entering this mode Pillar will:

- Reset counters for the SenderCompID/Target IP to zero
- Cancel orders based on customer cancel on disconnect settings for the SenderCompID
- Disconnect the SenderCompID and refuse connection attempts to that specific TargetIP for 60 seconds

2.4 GTC Restatement Messages

NYSE Arca Options and NYSE American Options provide unsolicited messages for prior day Good Till Cancel (GTC) orders over the session that originally entered the order.

- GTC Loading a GTC Restatement Ack, identified with ExecType[150] = D (Restatement) and ExecRestatementReason[378] = 1 (GT renewal/restatement), is published for each prior day GTC order as it loaded for the day. In the event a prior day GTC order is canceled overnight due to underlying corporate action, delisting, etc. an unsolicited order reject will be published.
- **Done for Day** at the market's Done for Day time, a Done for Day message (*OrdStatus[39]* = 3 with *Text[58]* = R104: Done for Day) will be sent for each GTC order with remaining leaves quantity.
- **Series Expiration** at the market's Done for Day time, an unsolicited cancel message (*OrdStatus*[39] = 4 with *Text*[58] = R246: Series Expired) will be sent for each GTC order cancelled due to series expiration.

3. FIX Header & Trailer

All FIX messages sent and received via the Pillar FIX Gateway must include a Header and Trailer as defined below.

3.1 Header

Tag	Field Name	Data Type	Req'd	Values	
FIX-8	BeginString	String[8]	Υ	(ALWAYS FIRST FIELD IN MESSAGE)	
				FIX.4.2	
FIX-9	BodyLength	Int[6]	Υ	(ALWAYS SECOND FIELD IN MESSAGE)	
				Message length, in bytes, forward to the <i>CheckSum</i> field.	
FIX-35	MsgType	String[3]	Υ	(ALWAYS THIRD FIELD IN MESSAGE)	
				A = Logon	
				0 = Heartbeat	
				1 = Test Request	
				2 = Resend Request	
				3 = Session Layer Reject	
				4 = Sequence Reset	
				5 = Logout	
				D = New Order Single	
				F = Order Cancel Request	
				G = Order Cancel/Replace Request	
				8 = Execution Report	
				9 = Order Cancel Reject	
FIX-34	MsgSeqNum	Int[20]	Υ	Last sequence number processed. First message sent has	
				sequence of 1.	
FIX-43	PossDupFlag	Boolean	С	Y = Yes	
				N = No	
FIX-49	SenderCompID	String[32]	Υ	Incoming Messages from Firm: Agreed upon Connection	
				identifier set between the Exchange and the entering firm.	

Tag	Field Name	Data Type	Req'd	Values
				Outgoing Messages from Exchange: Market Identifier Code (MIC) of the sending Exchange. ARCO = NYSE Arca Options AMXO = NYSE American Options
FIX-50	SenderSubID	String[32]	С	Incoming Messages from Firm: This value represents a Market Maker (including LMM, Primary Specialist, Specialist and e-Specialist), agreed upon between the firm and the Exchange. MMID must be specified when <i>CustomerOrFirm[204]</i> is identified as Market Maker or Away Market Maker, and will be rejected if populated for any other CustomerOrFirm value. Outgoing Messages from Exchange: Set to the value of the original <i>SenderCompID</i> on the incoming message from the firm. On drop copy sessions, represents the <i>SenderCompID</i> of the order entry session which originated the message.
FIX-52	SendingTime	UTC Timestamp [27]	Y	Time of message transmission on Incoming Messages from Firms & Outgoing messages from Exchange. UTC time, in Milliseconds - YYYYMMDD-HH:MM:SS.mmm
FIX-56	TargetCompID	String[32]	Y	Incoming Messages from Firm: Market Identifier Code (MIC) of target Exchange. ARCO = NYSE Arca Options AMXO = NYSE American Options Outgoing Messages from Exchange: Agreed upon connection identifier set between the Exchange and the entering firm.
FIX-57	TargetSubID	String[32]	С	On Incoming Messages from Firm: Not valid for orders entered on NYSE Arca Options and NYSE American Options. On Outgoing Messages from Exchange: If provided on the incoming message from the firm (in SenderSubID), will be populated with the Market Maker ID (MMID). This value represents a Market Maker (including LMM, Primary Specialist, Specialist and e-Specialist), agreed upon between the firm and the Exchange.
FIX-97	PossResend	Boolean	С	Y = Yes N = No
FIX-115	OnBehalfOfCo mpID	String[4]	С	Incoming Messages from Firm: Firm Identifier – MPID. Required on all Application Layer message types. If provided on a Session Layer message type, the value will not be validated. Outgoing Messages from Exchange: If provided on the incoming message from the firm (in <i>DeliverToCompID</i>), will be populated with the Options Market Maker MPID for Directed MM Order or Market Maker MPID for PFOF.
FIX-116	OnBehalfOfSubl D	String[4]	N	Incoming Messages from Firm to Exchange Matching Engine: Customer defined when sending to Matching engine—identifies specific entity/trading desk of the firm.

Tag	Field Name	Data Type	Req'd	Values	
				Outgoing messages from Exchange Matching Engine: If provided on the incoming message from the firm, will be populated with the specific entity/trading desk of the firm.	
FIX-122	OrigSendingTim e	UTC Timestamp [27]	N	Original time of message transmission when transmitting orders as the result of a resend request.	
				UTC time, in Milliseconds - YYYYMMDD-HH:MM:SS.mmm	
FIX-128	DeliverToCompl D	String[5]	С	Incoming Messages from Firm: Options MarketMaker MPID for Directed MM Order or Market Maker MPID for PFOF. If there is a default setup and the field is left blank, default will be used.	
				To skip default setup, use "0".	
				Only supported for American Options DOMM and American Options PFOF.	
				Outgoing Messages from Exchange: Firm Identifier – MPID. Required on all Application Layer message types.	

3.2 Trailer

Tag	Field Name	Data Type	Req'd	Values
FIX-10	CheckSum	String[6]	Υ	(ALWAYS LAST FIELD IN MESSAGE; Always unencrypted)
				Three-byte, simple checksum that serves, with the trailing <soh>, as the end-of-message delimiter.</soh>

4. FIX Session Layer

This section describes the protocol for the initiation, operation, and termination of FIX sessions with the Pillar FIX Gateway. TCP/IP is the required transmission protocol, and FIX 4.2 is the required application protocol supplemented by certain custom tags and values as defined in this specification. The Pillar FIX Gateway will reject a message with any tags that are not defined for the given message type in this specification.

4.1 Pillar FIX Session Layer Handling

The Pillar FIX Gateway validates and handles inbound Session Layer messages according to the following rules:

- MsgSeqNum as expected all messages with a sequence number equal to the expected value will be accepted
 and processed in full, provided they pass basic message type format validations. This includes both Session and
 Application Layer messages, regardless of the PossDup or GapFillFlag values indicated on the inbound message.
- **MsgSeqNum** greater than expected in general, upon receipt of a message with a sequence number greater than the expected value, Pillar FIX Gateway will neither accept nor process the message and will not increment the expected client-side sequence number. The gateway will respond with a Resend Request with *BeginSeqNo* = the expected value, and *EndSeqNo* = 0 (infinity).

However, there are two cases with special handling:

- Login Request with MsgSeqNum greater than expected Pillar FIX Gateway will send a Logon Response, immediately followed by the Resend Request.
- Resend Request with MsgSeqNum greater than expected Pillar FIX Gateway will process the request, provided it passes basic message type format validations. The requested messages will be retransmitted to the client.
- Sequence Reset with GapFillFlag set to N, or not set Pillar FIX Gateway will accept and process the
 request, provided it passes basic message type format validations. The expected client-side sequence
 number will be adjusted according to the NewSeqNo specified in the Sequence Reset message, as long
 as the requested number is higher than the next expected value.
- MsgSeqNum less than expected in general, upon receipt of a message with a sequence number less than the
 expected value, Pillar FIX Gateway will respond with a Session-Level Reject message, then close the TCP
 connection. The expected client-side sequence number will not be incremented.
 However, there are two cases with special handling:
 - Any Message with PossDup set to Y Pillar FIX Gateway will silently ignore the message.
 - Sequence Reset with GapFillFlag set to N, or not set Pillar FIX Gateway will accept and process the
 request, provided it passes basic message type format validations. The expected client-side sequence
 number will be adjusted according to the NewSeqNo specified in the Sequence Reset message, as long
 as the requested number is higher than the next expected value.

4.2 Logon

This single message format is used as either a Logon Request or Logon Response depending on the message direction:

Usage	Description	Direction
Logon Request	Request to establish a FIX session.	Client to Gateway
Logon Response	Confirmation a FIX session has been established successfully.	Gateway to Client

The Pillar FIX Gateway authenticates the Logon Request by checking the *SenderCompID[49]* against the *Username[553]* and *Password[554]*. If either the Username or Password does not match the previously agreed value for that *SenderCompID*, the Pillar FIX Gateway will send a Logout Message[35=5] with *SessionStatus[1409=5]*, then close the TCP connection. If the Logon Request is authenticated, the Pillar FIX Gateway will respond with a confirmation Logon Response.

The format for the Logon Request message is below:

Tag	Field Name	Data Type	Req'd	Descript	ion		Values		
	Standard Header		Υ	MsgType	MsgType[35] = A				
FIX- 98	EncryptMethod	Int[1]	Υ	Must be	Must be 0 (No encryption).				
FIX- 108	HeartBtInt	Int[2]	Υ	The Hear	rtbeat interval in seco	onds.	1-60		
FIX- 95	RawDataLength	Int[1]	С	Length o present.	f <i>RawData[96].</i> Must	be included if RawData[96] is	4		
FIX- 96	RawData	String[4]	С	but alwa	Session configuration settings. Optional on the Logon request, but always included in the Logon response. If included, all positions must be populated. Valid values:				
				Positio n	Description	Valid Values	Byte2: 0-1 Byte3:		
				1	Cancel on Disconnect	0 = Cancel on Disconnect Disabled 1 = Enable Cancel on Disconnect; Cancel – Day; (This will cancel all orders for the Session EXCEPT at the Opening, GTX and Good Till Cancel*) 2 = Enable Cancel on Disconnect. Cancel – ALL orders for the Session* *Exclusions – The following orders are always excluded from cancellation during a Cancel on Disconnect event: - Immediate or Cancel (IOC) orders (this covers all Cross	T,N,O,C Byte4: 4-8 (NYSE American Options only) or 0 (All Markets)		

Tag	Field Name	Data Type	Req'd	Descripti		Values	
						Orders - CUBE, QCC, Customer to Customer)	
						- GTC	
						- Open Outcry orders	
						Note: Cancel on Disconnect may only be "upgraded" through Logon. If Cancel on Disconnect is Disabled by default, the Logon message can Enable it (setting = 1 or 2). If the default configuration value = 1, the Logon Request can be used to set the configuration = 2.	
						A change in configuration from 2 to 1 or to 0 is not allowed through the Logon Request. To make these changes, the firm must contact NYSE Group Market Support.	
				2	Subscription to Order Priority Update Acknowledgements	0 = Not subscribed to receive the unsolicited "Order Priority Update Ack" message or unsolicited "Repricing Ack" message on the Session.	
						1 = Receive unsolicited "Order Priority Update Ack" message on the Session (for Reserve Order replenishment)	
						2 = Receive unsolicited "Order Priority Update Ack" message AND unsolicited "Repricing Ack" message on the Session.	
				3	Self-Trade Prevention	Session level default for the STP value on Order and Cancel/Replace requests entered on the session and destined for Pillar matching engine.	
						Note: if the STP value is set on an individual Order or Cancel/Replace Request, that value will override this session level default.	
						T = No Self Trade Prevention	

Tag	Field Name	Data Type	Req'd	Descripti	on		Values
						N = Cancel Newest O (letter O) = Cancel Oldest	
				4	BOLD Designation (NYSE American Options only)	C = Cancel Both Session level default for the BOLD setting on all Order and Cancel/Replace requests entered on the session.	
						Note: if the BOLD value is set on an individual Order or Cancel/Replace Request, that value will override this session level default.	
						0 = Not Applicable/Do Not Change My Default 4 = BOLD - Expose order info only 5 = BOLD - Expose order info and Capacity only 6 = BOLD - Expose order info and Participant ID only 7 = BOLD - Expose order info, Capacity and Participant ID 8 = No BOLD Designation defaulting	
				Cancel or Update A Trade Pre only.	n Disconnect AND Red ack" message on the S evention AND BOLD r	el all orders for the Session for ceive unsolicited "Order Priority Session AND Cancel Both for Self outable orders with Order info	
				use the c configura session o	lient defaults. If Tag 9 ation for the client wi	96 is included, the default II be overridden for the single tact NYSE Group Market Support to	
FIX- 141	ResetSeqNum Flag	Boolean	N	Indicates		ession should reset sequence	N
FIX- 553	Username	String[16]	Υ			with NYSE Group – SenderCompID.	String[16]
FIX- 554	Password	String[32]	Υ		d agreed in advance wequest but omitted fro	vith NYSE Group. Required on om Logon response.	String[32]
	Standard Trailer		Υ				

The format for the successful Logon Response message is below:

Tag	Field Name	Data Type	Pog'd	Descript	ion		Values			
Tag	Standard	Data Type	Y	MsgType			values			
	Header			,,,,,,						
FIX- 58	Text	String[40]	N	Text asso	ext associated with Logon Response					
FIX-	NextExpected	Int[20]	Υ	Next Ms	lext MsgSeqNum[34] expected by Pillar					
789	MsgSeqNum						MsgSeqNum[3 4] expected by			
FIX-	EncryptMethod	In+[1]	Υ	Must be	O (No openintion	1	Pillar 0			
98					0 (No encryption		-			
FIX- 108	HeartBtInt	Int[2]	Υ	The Hear	tbeat interval in	seconds.	1-60			
FIX-	RawDataLength	Int[1]	С	Length o	f RawData[96]. N	Must be included if RawData[96] is	4			
95				present.						
FIX-	RawData	String[4]	С		J	ings. Optional on the Logon request,	Byte1: 0-2			
96					-	e Logon response. If included, all	Duto 2 : 0 1			
				Positio	must be populate Description	Valid Values	Byte2: 0-1			
				n	Description	Valid Values	Byte3:			
							T,N,O,C			
				1	Cancel on Disconnect	0 = Cancel on Disconnect Disabled				
					Disconnect	1 = Enable Cancel on Disconnect;	Byte4: 4-8			
						Cancel – Day	(NYSE			
						(This will cancel all orders for the	American			
						Session EXCEPT at the Opening, GTX	Options only) or 0 (All			
						and Good Til Cancel *)	Markets)			
						2 = Enable Cancel on Disconnect.				
						Cancel – ALL orders for the Session*				
						*Exclusions – The following orders are				
						always excluded from cancellation during a Cancel on Disconnect event:				
						- Immediate or Cancel (IOC) orders				
						(this covers all Cross Orders - CUBE,				
						QCC, Customer to Customer)				
						- GTC				
						- Open Outcry orders				
						Note: Cancel on Disconnect may only				
						be "upgraded" through Logon. If				
						Cancel on Disconnect is Disabled by				
						default, the Logon message can Enable it (setting = 1 or 2). If the				
						default configuration value = 1, the				
	<u> </u>		l			acidant configuration value - 1, the				

Tag	Field Name	Data Type	Req'd	Descripti	on		Values
						Logon Request can be used to set the configuration = 2.	
						A change in configuration from 2 to 1 or to 0 is not allowed through the Logon Request. To make these changes, the firm must contact NYSE Group Market Support.	
				2	Subscription to Order Priority Update Acknowledgem ents	0 = Not subscribed to receive the unsolicited "Order Priority Update Ack" message or unsolicited "Repricing Ack" message on the Session.	
						1 = Receive unsolicited "Order Priority Update Ack" message on the Session (for Reserve Order replenishment)	
						2 = Receive unsolicited "Order Priority Update Ack" message AND unsolicited "Repricing Ack" message on the Session.	
				3	Self Trade Prevention	Session level default for the STP value on all Order and Cancel/Replace requests entered on the session and destined for Pillar matching engine.	
						Note: if the STP value is set on an individual Order or Cancel/Replace Request, that value will override this session level default.	
						T = No Self Trade Prevention N = Cancel Newest O (letter O) = Cancel Oldest C = Cancel Both	
				4	BOLD Designation (NYSE American	Session level default BOLD setting on all Order and Cancel/Replace requests entered on the session.	
					Options only)	Note: if the BOLD value is set on an individual Order or Cancel/Replace Request, that value will override this session level default.	
						0 = Not Applicable/Do Not Change My Default 4 = BOLD - Expose order info only 5 = BOLD - Expose order info and Capacity only	

Tag	Field Name	Data Type	Req'd	Description	Values
				6 = BOLD - Expose order info and Participant ID only 7 = BOLD - Expose order info, Capacity and Participant ID 8 = No BOLD Designation defaulting Example: Tag 96 = 11C4: Cancel all orders for the Session for Cancel on Disconnect AND Receive unsolicited "Order Priority Update Ack" message on the Session AND Cancel Both for Self Trade Prevention AND BOLD routable orders with Order info only.	
FIX- 553	Username	String[16]	Υ	Username agreed in advance with NYSE Group – SenderCompID.	String[16]
FIX- 1409	SessionStatus	Int[1]	N	Status of FIX Session.	0 (Session Active)
	Standard Trailer		Υ		

4.3 Logout

This single message format is used for different purposes depending on the message direction and SessionStatus[1409] value:

Usage	Description	Direction	SessionStatus[1409]
Logout Request	Client request to the Pillar FIX Gateway to terminate a FIX session.	Client to Pillar	n/a
Logout Response	The Pillar FIX Gateway response to a client Logout Request indicating the client may terminate the session.	Pillar to Client	0 = Session active
Unsolicited Logout	The Pillar FIX Gateway has terminated the FIX session.	Pillar to Client	4 = Session logout complete
Logon Reject	The Pillar FIX Gateway has rejected the client Logon Request.	Pillar to Client	5 = Invalid username or password

The format for the Logout message is below:

Tag	Field Name	Data Type	Req'd	Description	Values
	Standard Header		Υ	MsgType[35] = 5	
FIX-1409	SessionStatus	Int[1]	N	Current status of the FIX session provided to indicate the message usage. The Pillar FIX Gateway will ignore this field if received from the client on a Logout message.	0 = Session Active 4 = Session logout complete 5 = Invalid username or password
FIX-58	Text	String[40]	N	Logout description.	String[100]

Tag	Field Name	Data Type	Req'd	Description	Values
FIX-789	NextExpected MsgSeqNum	Int[20]	Υ	Next MsgSeqNum[34] expected by Pillar	Next <i>MsgSeqNum[34]</i> expected by Pillar
	Standard Trailer		Υ		

4.4 Heartbeat and Test Request

The client must send a Heartbeat message [35=0] if the interval specified in the Logon Message *HeartBtInt*[108] passes without the client sending any messages. If *HeartBtInt* seconds pass without the Pillar FIX Gateway receiving any messages from the client, the Pillar FIX Gateway will send a Test Request [35=1] to solicit a Heartbeat from the client. If an additional *HeartBtInt* seconds pass without receiving any messages, the Pillar FIX Gateway will send a logout and close the TCP connection.

It is recommended that the client implements similar monitoring for messages received from the Pillar FIX Gateway.

The Heartbeat message format is below:

Tag	Field Name	Data Type	Req'd	Description	Values
	Standard Header		Υ	MsgType[35] = 0	
FIX-112	TestReqId	String[20]	С	Required when the Heartbeat is in response to a Test Request. Must be the same value as in the Test Request that solicited the Heartbeat.	String[20]
	Standard Trailer		Υ		

The Test Request message format is below:

Tag	Field Name	Data Type	Req'd	Description	Values
	Standard Header		Υ	MsgType[35] = 1	
FIX-112	TestReqID	String[20]	Υ	Identifier included in Test Request message to be returned in resulting Heartbeat.	String[20]
	Standard Trailer		Υ		

4.5 Message Retransmission

If Pillar receives a *MsgSeqNum*[34] higher than expected, Pillar will disregard or process the message, and may issue a Resend Request, as described in the "Pillar FIX Session Layer Handling" section of this specification.

Clients may issue a Resend Request to Pillar. In response, Pillar will retransmit Application Layer messages only. Pillar will never retransmit any Session Layer messages (including Session-Level Rejects).

The format for the Resend Request message is below:

Tag	Field Name	Data Type	Req'd	Description	Values
	Standard Header		Υ	MsgType[35] = 2	

Tag	Field Name	Data Type	Req'd	Description	Values
FIX-7	BeginSeqNo	Int[20]	Υ	The message sequence number of the first message in the range of messages to be re-sent.	1-18446744073709551615
FIX-16	EndSeqNo	Int[20]	Υ	The message sequence number of the last message in the range of messages to be re-sent. If the request is for all the messages since the BeginSeqNo, set EndSeqNo to 0.	0-18446744073709551615
	Standard Trailer		Υ		

Note: Pillar will ignore the contents of *PossResend*[97] beyond basic message integrity validations and will treat all messages with *PossResend* = *Y* as new messages.

4.6 Sequence Reset

The client may send Pillar a Sequence Reset message to advance the next expected *MsgSeqNum*[34] Pillar should expect from the client:

Tag	Field Name	Data Type	Req'd	Description	Values
	Standard Header		Υ	MsgType[35] = 4	
FIX-123	GapFillFlag	Boolean	Υ	Indicates the mode in which the message is to be interpreted:	
				Y = Gap Fill Reset (MsgSeqNum[34] validated)	Υ
				N = Sequence Reset (MsgSeqNum[34] ignored)	N
FIX-36	NewSeqNo	Int[20]	Y	The new valid sequence number	1-18446744073709551615
	Standard Trailer		Υ		

4.7 Session-Level Rejects

Pillar generates a Session-Level Reject upon receipt of a message containing a session-level rule violation (e.g. a required FIX tag is missing). Error details are contained in SessionRejectReason[373] and Text[58], while the tag causing the error (if applicable) is identified in RefTagID[371].

The Session-Level Reject message format is below:

Tag	Field Name	Data Type	Req'd	Description	Values
	Standard Header		Υ	MsgType[35] = 3	
FIX-45	RefSeqNum	Int[20]	Υ	The sequence number of the rejected message.	1-18446744073709551615
FIX-373	SessionRejectRea	Int[2]	N	A code, which identifies the reason for the session level reject. Valid values: 0 = Invalid Tag Number 1 = Required Tag Missing 2 = Tag Not Defined For This Message Type 3 = Undefined Tag 4 = Tag specified without a value 5 = Value is incorrect (out of range) for this tag 6 = Incorrect data format for value 7 = Decryption problem 8 = Signature problem 9 = CompID problem (SenderCompID, TargetCompID, or both) 10 = SendingTime accuracy problem 11 = Invalid MsgType 13 = Tag Appears More than Once (non-repeating group tags only) 14 = Tag specified out of required order 15 = Repeating group fields out of order 99 = Other	0 1 2 3 4 5 6 7 8 9 10 11 13
FIX-371	RefTagld	Int[9]	N	The tag number of the FIX field being referenced.	1 - 99999999
FIX-372	RefMsgType	String[2]	N	The <i>MsgType</i> of the FIX message being referenced.	String[2]
FIX-58	Text	String[40]	N	Reject text, which identifies the reason for the rejected message. Text is limited to 40 characters.	String[100]
FIX-789	NextExpected MsgSeqNum	Int[20]	Υ	Next MsgSeqNum[34] expected by Pillar	Next MsgSeqNum[34] expected by Pillar
	Standard Trailer		Υ		

5. FIX Application Layer

This section describes the FIX Application messages currently supported by the Pillar FIX Gateway. Only the message types represented here will be accepted.

Order, Cancel, and Cancel/Replace acknowledgments will be returned with all tags submitted on the original request.

5.1 New Order - Single

This message is used to send a New Order to the NYSE Pillar Trading Engine.

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Υ	<i>MsgType[35]</i> = D	Yes	Yes
FIX-1	Account	String[16]	N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. For NYSE Arca & NYSE American Options - up to 16 characters will be echoed back on gateway response messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.	Yes	Yes
FIX-11	ClOrdID	String[20]	Y	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm. Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the ClOrdID provided is unique among all orders sent for the full length of the trading day by the given SenderCompID + MPID. Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	SUI	ican
Tag	rielu ivallie	Data Type	neq u	values	Arca Options	American Options
FIX-18	ExecInst	Char[1]	С	d = Tracking Order		
				f = ISO	f	f
				B = OK to Cross		
				E = DNI		
				F = DNR		
				G = All or None		
				R = Primary Peg		
				P = Market Peg		
				M = MPL (Midpoint Liquidity)		
				N = Non-displayed (Retail Price Improvement and		
				Limit-Non Displayed orders)		
				y = Trade-at ISO		
				L = Last Sale Peg		
FIX-38	OrderQty	Qty[9]	Υ	1 - 999,999	Yes	Yes
FIX-40	OrdType	Char[1]	Υ	1 = Market	1	1
				2 = Limit	2	2
				3 = Stop	3	3
				4 = Stop Limit	4	4
				7 = Inside Limit		
				9 = AutoMatch Limit		
			_	P = Pegged		
FIX-44	Price	Price[16]	С	0.01-9,999.99	Yes	Yes
FIX-54	Side	Char[1]	Υ	1 = Buy	1	1
				2 = Sell 5 = Sell Short	2	2
				6 = Sell Short Exempt 8 = Cross		
				9 = Cross Short		
				A = Cross Short Exempt		
FIX-55	Symbol	String[16]	Υ	Valid Options OSI Root symbol.	Yes	Yes
FIX-59	TimeInForce	Char[1]	Y	0 = Day	0	0
111/-33	Timelin orce	Char[1]	'	1 = GTC	1	1
				2 = At the Opening	2	2
				3 = IOC	3	3
				4 = FOK		
				5 = GTX		5
				6 = GTD		
				7 = On Close		
FIX-60	TransactTime	UTC	N	On Incoming Messages from Firm: Customer	Yes	Yes
		Timestam		application time.		
		p[27]				
				On Outgoing Message from Exchange: Exchange		
				application time.		
				UTC time, in Milliseconds		
				YYYYMMDD-HH:MM:SS.mmm		
FIX-77	OpenClose	Char[1]	Υ	Indicates status of Client's position in the Option		
	1 .		1	1		I

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				O = Open	0	O C
FIX-99	StopPx	Price[16]	С	C = Close Trigger price for Stop or Stop limit order 0.01 - 9,999.99	Yes	Yes
FIX-110	MinQty	Qty[5]	N	Must be ≤ <i>OrderQty</i>	No	No
FIX-111	MaxFloor	Qty[5]	С	1 - 999,999	Yes	Yes
FIX-167	SecurityType	String[4]	Y	Identifies type of Options Instrument OPT = Single leg Option MLEG = Complex Option	ОРТ	ОРТ
FIX-200	MaturityMon thYear	String[6]	Y	Month and year of maturity. Part of Options series identifier YYYYMM	Yes	Yes
FIX-201	PutOrCall	Char[1]	Υ	Put or Call indicator. Part of Options series identifier. 0 = Put 1 = Call	0	0
FIX-202	StrikePrice	Price[16]	Y	Strike price of the option. Part of Options series identifier. 0.000001 - 999,999,999.999999	Yes	Yes
FIX-204	CustomerOrFi rm	Char[1]	Y	Capacity of the order 0 = Customer 1 = Firm 2 = Broker 3 = Market maker 4 = Away Market Maker 8 = Prof customer	0 1 2 3 4	0 1 2 3 4 8
FIX-205	MaturityDay	String[2]	Υ	Maturity day. Part of Options series identifier. DD	Yes	Yes
FIX-386	NoTradingSes sions	Int[1]	Y	1	1	1
→ FIX-336	TradingSessio nID	Char[1]	Y	1 = Early Trading Session 2 = Core Trading Session 3 = Late Trading Session 4 = Early & Core Trading Sessions 5 = Core & Late Trading Sessions 6 = Early, Core, & Late Trading Sessions Note: for symbols trading on NYSE, all values that include Core designation (Core, Early/Core, Core/Late, and Early/Core/Late) will be allowed, if the order type supports the combination on other Pillar markets. However, for each of those values, Pillar will honor the applicable trading sessions included in the instruction based on Tape (B/C symbols - Early and Core; A symbols - Core only), and ignore the other trading sessions specified in the instruction (Tape B/C symbols - Late; Tape A symbols - Early and Late)	2	2

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-439	ClearingFirm	String[5]	N	Clearing number of CMTA.	Yes	Yes
				Numeric characters only, no preceding zeros.		
FIX-440	ClearingAcco unt	String[5]	N	Clearing number, if other than the default Clearing Number for the MPID.	Yes	Yes
				If not specified, the default clearing number		
				associated with the MPID will be sent back on		
				response messages.		
				Numeric characters only, no preceding zeros.		
FIX-526	OptionalData	String[16]	N	Clearing Optional Data	Yes	Yes
				Customer defined up to 16 characters; only		
				printable ASCII characters		
				allowed, excluding comma, semicolon, pipe delimiter,		
				"at" symbol, greater than/less than, ampersand (&)		
FIV 7020	CalfTradaTus	Char[1]	N	and single/double quotation mark.0 (number 0) = Use current Session Configuration STP	0	0
FIX-7928	SelfTradeTyp e	Char[1]	IN .	setting for the SenderCompID*	0	0
				T = No Self Trade Prevention	Т	Т
				N = Cancel Newest	N	N
				O (letter O)= Cancel Oldest	0	0
				C = Cancel Both	С	С
				D = Cancel Decrement		
				*If 0 is specified, the explicit value (T,N,O,C,D)		
				configured for the session will be sent back on		
				response messages.		
FIX-9303	RoutingInst	Char[1]	С	C = Complex Only (non-legging Complex Order)		
				N = Non-routable	N	N
				R = Routable	R	R
				D = Directed (Primary Only) S = Directed + Routable (PO+S)		
				1 = Primary Market until 9:45		
				2 = Primary Market after 3:55		
				3 = BOTH Primary Market until 9:45 AND Primary		
				Market after 3:55		
				8 = Minimum Fill (must be entered with <i>MinQty</i> tag		
				populated with a non-zero value)		

						_
Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-9416	ExtendedExec Inst	Char[1]	С	A = Add Liquidity Only (ALO) 0 = No trade against MPL 2 = No route to IOI 3 = No trade against MPL and no route to IOI 4 = Retail Order Type 1 5 = Retail Order Type 2 7 = Retail Provider 8 = Imbalance Offset C = Complex Order Auction 9 = Discretionary Peg	8	8
				D = Dark (Non-Displayed) Primary Peg I = Issuer Direct Offering (IDO) N = Add Liquidity Only (Non-Taking ALO)	N	
FIX-9448	IntroducingB adgeID	String[4]	С	Initiating Broker Badge, 1-4 numeric characters. Required on orders from NYSE Arca/American Options Floor Broker OMS to Pillar.	Yes	Yes
FIX-20001	AttributedQu ote	Char[1]	N	0 = Not Attributed (equities) / Use current session configuration BOLD setting for the SenderCompID (options) 1 = Attributed for Market Data Feeds 2 = Include in Broker Volume 3 = Attributed for Market Data Feeds, and Include in Broker Volume 4 = BOLD - Expose order info only 5 = BOLD - Expose order info and Capacity only 6 = BOLD - Expose order info and Participant ID only 7 = BOLD - Expose order info, Capacity and Participant ID		0 4 5 6 7
FIX-20002	ProactivelfLo cked	Char[1]	N	8 = Do not BOLD 0 = No locked functionality 1 = Proactive if Locked for routable orders 2 = Proactive trade non-display (Non-display remove liquidity for non-displayed orders locked by contraside ALOs)	0 1	8 0 1
FIX-20003	CancelInstea dOfReprice	Char[1]	N	0 = Not Applicable (follow default order behavior) 1 = Cancel order instead of repricing – for LULD only 2 = Cancel if doesn't set NBBO on arrival or if needs to reprice for LULD 3 = Cancel order instead of repricing for any reason 4 = Once resting, allow to reprice once, then cancel	3 4	3 4
FIX-20013	SubIDIndicat or	Char[1]	N	instead of repricing 5 = Combination of value 2 and 3 6 = Combination of value 2 and 4 When populating both OnBehalfOfSubID[116] and SelfTradeType[7928] on an order, allows the firm to specify whether the OnBehalfOfSubID should be used		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				See "Self-Trade Prevention" section of this spec for more details.		
				If also using Pillar Pre-trade Risk Controls, the OnBehalfOfSubID will be used for Risk Entity purposes regardless of the value specified in this field.		
				0 = for this order, use <i>OnBehalfOfSubID</i> (within the MPID) for STP evaluation	0	0
				1 = for this order, ignore the <i>OnBehalfOfSubID</i> for STP (conduct STP evaluation at MPID level only)	1	1
				If not specified, will be assumed as a value of 0.		
FIX-20041	AuctionID	String[20]	N	CUBE Auction identifier supplied by Pillar Market Data to allow GTX responses to target specific CUBE auctions. If provided on non-GTX responses, the order will be rejected.		Yes
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.2 New Cross Order

This message is used to send a New Cross Order to NYSE Pillar Trading Engine for the Options Markets.

Options Market Makers - when entering a cross order:

- MMID may be specified per Side of the order in GiveUpMarketMaker[20014].
- An MMID may NOT be specified in the FIX Message Header SenderSubID[50]. If entered, will be rejected.
- At least one Side of the order must have both of the following attributes:
 - o GiveUpMarketMaker = a valid MMID associated with the MPID in OnBehalfOfCompID[115]
 - CustomerOrFirm = 3 (Market Maker)

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Υ	MsgType = s	Yes	Yes
FIX-38	OrderQty	Qty[9]	Υ	1 - 999,999	Yes	Yes
FIX-55	Symbol	String[16]	Υ	Valid Options OSI Root symbol.	Yes	Yes
FIX-59	TimeInForce	Char[1]	Y	0 = Day 1 = GTC 2 = At the Opening 3 = IOC 4 = FOK	3	3

Tag	Field Name	Data Type	Req'd	Values	suc	rican
6					Arca Options	American Options
				5 = GTX		
				6 = GTD		
				7 = On Close		
FIX-60	TransactTime	UTC	N	On Incoming Messages from Firm: Customer	Yes	Yes
		Timestamp [27]		application time.		
				On Outgoing Message from Exchange: Exchange application time.		
				UTC time, in Milliseconds		
				YYYYMMDD-HH:MM:SS.mmm		
FIX-167	SecurityType	String[4]	Υ	Identifies type of Options Instrument.		
				OPT = Single leg Option	OPT	OPT
				MLEG = Complex Option		
FIX-200	MaturityMont	String[6]	Υ	Month and year of maturity. Part of Options series	Yes	Yes
	hYear	o		identifier.	1.00	
				YYYYMM		
FIX-201	PutOrCall	Char[1]	Υ	Put or Call indicator. Part of Options series		
				identifier.		
				0 = Put	0	0
				1 = Call	1	1
FIX-202	StrikePrice	Price[16]	Υ	Strike price of the option. Part of Options series	Yes	Yes
				identifier.		
				0.000001 - 999,999,999.999999		
FIX-205	MaturityDay	String[2]	Υ	Maturity day. Part of Options series identifier. DD	Yes	Yes
FIX-386	NoTradingSess ions	Int[1]	Υ	1	1	1
\rightarrow	TradingSession	Char[1]	Υ	1 = Early Trading Session		
FIX-336	ID			2 = Core Trading Session	2	2
				3 = Late Trading Session		
				4 = Early & Core Trading Sessions		
				5 = Core & Late Trading Sessions		
				6 = Early, Core, & Late Trading Sessions		
				Note: for symbols trading on NYSE, all values that		
				include Core designation (Core, Early/Core,		
				Core/Late, and Early/Core/Late) will be allowed, if		
				the order type supports the combination on other		
				Pillar markets. However, for each of those values,		
				Pillar will honor the applicable trading sessions		
				included in the instruction based on Tape (B/C		
				symbols - Early and Core; A symbols - Core only),		
				and ignore the other trading sessions specified in		
				the instruction (Tape B/C symbols - Late; Tape A		
FIX-510	CrossID	String[20]	\ \ \		Voc	Yes
i-1Λ-340	CLOSSID	String[20]	'	ornique in or the cross as assigned by the IIIII.	162	162
FIX-548	CrossID	String[20]	Υ	symbols - Early and Late) Unique ID of the Cross as assigned by the firm.	Yes	,

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				Pillar will validate that the <i>CrossID</i> is unique for the combination of <i>SenderCompID</i> + <i>OnBehalfOfCompID</i> (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the <i>CrossID</i> provided is unique among all orders sent for the full length of the trading day by the given <i>SenderCompID</i> + MPID.		
				Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
FIX-9202	SpecialOrdTyp e	Char[1]	Y	1 = DMM Open/Re-open/Close with or without Auction (AOC) - drop copy only 2 = DMM Pre-auction - drop copy only 3 = DMM After-auction - drop copy only 9 = Cabinet C = Customer to Customer Cross	С	С
				P = CUBE Price Improvement Q = QCC S = AON CUBE T = QCT (DeliverToCompID must be populated with IB Firm Identifier)	Q	P Q S
FIX-9448	IntroducingBa dgeID	String[4]	N	Initiating Broker Badge, 1-4 numeric characters. Required on orders from NYSE Arca/American Options Floor Broker OMS to Pillar.	Yes	Yes
FIX-552	NoSides	Char[1]	Υ	Number of Sides in the repeating group.	2	2
(CoveredO	de of the Cross or	<i>C)</i> is defined.		red[203] = E) must be defined first before the Covered sometimes order with "E", CUBE contra order with		
→ FIX-54	Side	Char[1]	Y	Required Tag to begin each repeating group. 1 = Buy 2 = Sell 5 = Sell Short 6 = Sell Short Exempt 8 = Cross 9 = Cross Short A = Cross Short Exempt	1 2	1 2
→ FIX-1	Account	String[16]	N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				For NYSE Arca & NYSE American Options - up to 16 characters will be echoed back on gateway response messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.		
→ FIX-11	ClOrdID	String[20]	Y	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm. Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the ClOrdID provided is unique among all orders sent for the full length of the trading day by the given SenderCompID + MPID. Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
→ FIX-40	OrdType	Char[1]	Y	1 = Market 2 = Limit 3 = Stop 4 = Stop Limit 7 = Inside Limit 9 = AutoMatch Limit P = Pegged	2	1 2
→ FIX-44	Price	Price[16]	С	0.01 - 9,999.99	Yes	Yes
→ FIX-77	OpenClose	Char[1]	Υ	Indicates status of Client's position in the Option O = Open C = Close	O C	O C
→ FIX-203	CoveredOrUnc overed	Char[1]	Y	Identifies the Exposed and Covered Side of each order in the Cross. E = Exposed C = Covered	E C	E C
→ FIX-204	CustomerOrFir m	Char[1]	Y	Capacity of the order 0 = Customer 1 = Firm 2 = Broker 3 = Market maker 4 = Away Market Maker 8 = Prof customer	0 1 2 3 4 8	0 1 2 3 4 8
→ FIX-439	ClearingFirm	String[5]	N	Clearing number of CMTA. Numeric characters only, no preceding zeros.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
→ FIX-440	ClearingAccou nt	String[5]	N	Clearing number, if other than the default Clearing Number for the MPID. If not specified, the default clearing number associated with the MPID will be sent back on response messages.	Yes	Yes
→ FIX-526	OptionalData	String[16]	N	Numeric characters only, no preceding zeros. Clearing Optional Data Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
→ FIX-20014	GiveUpMarket Maker	String[4]	N	Market Maker Identifier - MMID. If provided, the value will be used in place of FIX Tag 50.	Yes	Yes
→ FIX-20015	AllocationPct	String[2]	N	Percentage of allocation a single stop price Covered order is willing to surrender. Valid values are 0 - 100 pct. If the value provided results in a greater than standard allocation, then the max allowable quantity will be allocated. Field not applicable for QCC, Customer to Customer and CUBE orders defined as AutoMatch (market or limit) or AON.		Yes
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.3 Order Cancel Request

This message is used to cancel a single targeted order including Complex orders.

For Complex orders, the request must be entered with the *OrigClOrdID* of the complex order (no leg level details), and will cancel the entire order along with all of its legs.

• OnBehalfOfCompID[115] in the FIX Header of the Cancel Request must be populated with the same MPID that was sent on the order intended for cancellation.

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Υ	MsgType = F	Yes	Yes
FIX-11	CIOrdID	String[20]	Υ	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm. Pillar will validate that the CIOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the CIOrdID provided is unique among all orders sent for the full length of the trading day by the given SenderCompID + MPID. Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
FIX-41	OrigClOrdID	String[20]	Y	Required for single order cancellation. Represents the <i>ClOrdID</i> of the previously entered order intended for cancellation (NOT necessarily the initial order of the day). Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
FIX-54	Side	Char[1]	С	Required for single leg order cancellation. Not required for Complex orders. 1 = Buy 2 = Sell 5 = Sell Short 6 = Sell Short Exempt 8 = Cross 9 = Cross Short	1 2	1 2

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				A = Cross Short Exempt		
FIX-55	Symbol	String[16]	С	Required for single leg order cancellation. Not required for Complex orders; Valid Options OSI Root symbol.	Yes	Yes
FIX-60	TransactTime	UTC Timestamp [27]	N	On Incoming Messages from Firm: Customer application time. On Outgoing Message from Exchange: Exchange application time. UTC time, in Milliseconds YYYYMMDD-HH:MM:SS.mmm	Yes	Yes
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.4 Bulk Cancel Request

This message is used to bulk cancel multiple orders based on the combination of criteria specified in the message. FIX bulk cancel will apply to orders designated with CustomerOrFirm = Customer, Firm, Broker, Away Market Maker, and Professional Customer only.

- OnBehalfOfCompID[115] in the FIX Header must be populated with a valid MPID configured for use on that session.
- OnBehalfOfSubID[116] will be added to the bulk cancellation criteria, when populated.
- SenderSubID[50] is not a valid field for the FIX Bulk Cancel request.
- At least one of the *TargetCancelSenderCompID[20025]* or *TargetCancelMPID[20026]* fields must be populated, and determine the cancellation scope as follows:

TargetCancelSenderCompID	TargetCancelMPID	Result
Populated	<black></black>	"Synthetic Cancel on Disconnect" - cancel all MPIDs for the TargetCancelSenderCompID (must match the SenderCompID of the session sending this Bulk Cancel Request), without disconnecting.
<black></black>	Populated	Market Wide MPID Cancel - cancel the TargetCancelMPID (must be a valid MPID entitled for use on the session sending this Bulk Cancel Request) - across ALL SenderCompIDs on the given market.
Populated	Populated	Cancel combination of <i>TargetCancelSenderCompID</i> (must match the <i>SenderCompID</i> of the session sending this Bulk Cancel Request) + <i>TargetCancelMPID</i> (must be a valid MPID entitled for use on the session sending this Bulk Cancel Request).

- Exclusions the following orders are always excluded from cancellation by a Bulk Cancel Request:
 - Immediate or Cancel (IOC) orders (for NYSE Arca & American Options, this covers all Cross Orders -CUBE, QCC, Customer to Customer)
 - o GTC
 - o Open Outcry orders

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Υ	<i>MsgType</i> [35] = F	Yes	Yes
FIX-11	ClOrdID	String[20]	Y	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm. Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the ClOrdID provided is unique among all orders sent for the	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				full length of the trading day by the given SenderCompID + MPID.		
				Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
FIX-37	OrderID	String[20]	Y	Required for Bulk Cancel - populate with Bulk Cancel Code:		
FIX-54	Side	Char[1]	N	0 = Bulk Cancel Request Optional for Bulk Cancel. On a Bulk Cancel Request, 1 (Buy) and 2 (Sell) are supported. In that case, 2 (Sell) will cancel all Sell, Sell Short, and Sell Short Exempt orders.	0	0
				1 = Buy 2 = Sell 5 = Sell Short 6 = Sell Short Exempt 8 = Cross 9 = Cross Short	1 2	1 2
FIX-55	Symbol	String[16]	N	A = Cross Short Exempt Optional for Bulk Cancel. For Options, it will cancel the entire underlying symbol.	Yes	Yes
FIX-60	TransactTime	UTC Timestamp [27]	N	On Incoming Messages from Firm: Customer application time. On Outgoing Message from Exchange: Exchange application time. UTC time, in Milliseconds	Yes	Yes
				YYYYMMDD-HH:MM:SS.mmm		
FIX-65	SymbolSfx	String[10]	N	Valid Suffix value	Yes	Yes
FIX-20025	TargetCancelSende rCompID	Char[32]	N	Optional - at least one of TargetCancelSenderCompID or TargetCancelMPID must be specified. May be populated with the SenderCompID of the	Yes	Yes
				session sending this Bulk Cancel Request. If populated, only orders originally entered via this SenderCompID will be cancelled.		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-20026	TargetCancelMPID	Char[4]	N	Optional - at least one of TargetCancelSenderCompID or TargetCancelMPID must be specified. May be populated with a valid MPID entitled for use on the session sending this Bulk Cancel Request. If populated, only orders for the specified MPID will be cancelled. Firm Identifier – MPID.	Yes	Yes
FIX-20027	BulkAction Standard FIX	Char[1]	Y	Required for Bulk Cancel. 1 = Cancel Single Leg only 2 = Cancel Complex only 3 = Cancel both Single Leg and Complex Standard FIX Trailer	1 2 3 Yes	1 2 3 Yes
	Trailer		'	Standard LIA Haller	163	163

5.5 Order Cancel/Replace Request

This message may be used in two ways:

- **Full Cancel/Replace Request** used to make changes to an order without preserving its ranking in the Exchange order book. The replacement order will get a new *ClOrdID* (equal to the *ClOrdID* of the Cancel/Replace Request), a new Timestamp, and a new *OrderID*.
- Modify Request used to reduce the order quantity, while preserving the order's ranking in the Exchange order book as well as its original *OrderID*. The modified order, however, will get a new *ClOrdID* (equal to the *ClOrdID* of the Modify Request).

Note: Reducing the total quantity to 0 will cancel the order.

Options cross orders are not eligible for cancel replacement.

In both cases, the following tags in the FIX Header of the Cancel/Replace Request must be populated with the same values that were sent on the original order intended for replacement:

- OnBehalfOfCompID[115] MPID
- SenderSubID[50] MMID

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Y	<i>MsgType[35]</i> = G	Yes	Yes
FIX-1	Account	String[16]	N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. For NYSE Arca & NYSE American Options - up to 16 characters will be echoed back on gateway response messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.	Yes	Yes
FIX-11	ClOrdID	String[20]	Y	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm. Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the ClOrdID provided is unique among all orders sent for the full length of the trading day by the given SenderCompID + MPID. Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol,	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				greater than/less than, ampersand (&) and single/double quotation mark.	- Ar	Ar
FIX-18	ExecInst	Char[1]	С	d = Tracking Order f = ISO B = OK to Cross E = DNI F = DNR G = All or None R = Primary Peg P = Market Peg M = MPL (Midpoint Liquidity) N = Non-displayed (Retail Price Improvement and Limit-Non Displayed orders) y = Trade-at ISO L = Last Sale Peg	f	f
FIX-38	OrderQty	Qty[9]	Υ	1 - 999,999	Yes	Yes
FIX-40	OrdType	Char[1]	Y	1 = Market 2 = Limit 3 = Stop 4 = Stop Limit 7 = Inside Limit 9 = AutoMatch Limit P = Pegged	1 2 3 4	1 2 3 4
FIX-41	OrigClOrdID	String[20]	Υ	ClOrdID of the previously entered order intended for cancellation or replacement (NOT necessarily the initial order of the day). Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
FIX-44	Price	Price[16]	С	0.01 - 9,999.99	Yes	Yes
FIX-54	Side	Char[1]	Υ	1 = Buy 2 = Sell 5 = Sell Short 6 = Sell Short Exempt 8 = Cross 9 = Cross Short A = Cross Short Exempt	1 2	1 2
FIX-55	Symbol	String[16]	Υ	Valid Options OSI Root symbol.	Yes	Yes
FIX-59	TimeInForce	Char[1]	Y	0 = Day 1 = GTC 2 = At the Opening 3 = IOC 4 = FOK	0 1 2 3	0 1 2 3

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
					Arc	Am
				5 = GTX		5
				6 = GTD		
				7 = On Close		
FIX-60	TransactTime	UTC	N	On Incoming Messages from Firm: Customer	Yes	Yes
		Timestam p [27]		application time.		
		p [Z/]		On Outgoing Messages from Exchange: Exchange		
				application time.		
				UTC time, in Milliseconds		
				YYYYMMDD-HH:MM:SS.mmm		
FIX-77	OpenClose	Char[1]	N	Indicates status of Client's position in the Option		
				O = Open	0	0
				C = Close	С	С
FIX-99	StopPx	Price[16]	N	Trigger price for Stop and Stop Limit orders 0.01 - 9,999.99	Yes	Yes
FIX-110	MinQty	Qty[5]	N	Must be ≤ <i>OrderQty</i>	No	No
FIX-111	MaxFloor	Qty[5]	С	1 - 999,999	Yes	Yes
FIX-167	SecurityType	String[4]	Υ	Identifies type of Options Instrument		
	, ,,	0. 1		OPT = Single leg Option	OPT	OPT
				MLEG = Complex Option		
FIX-200	MaturityMonth	String[6]	Υ	Month and year of maturity. Part of Options series	Yes	Yes
	Year			identifier.		
		al (1)	.,	YYYYMM		
FIX-201	PutOrCall	Char[1]	Υ	Put or Call indicator. Part of Options series identifier.		
				0 = Put 1 = Call	0	0
FIX-202	StrikePrice	Price[16]	Υ	Strike price of the option. Part of Options series	Yes	Yes
111/-202	Strikerrice	Frice[10]	1	identifier.	163	163
				0.000001 - 999,999,999.999999		
FIX-204	CustomerOrFir	Char[1]	Υ	Capacity of the order		
	m			0 = Customer	0	0
				1 = Firm	1	1
				2 = Broker	2	2
				3 = Market maker	3	3
				4 = Away Market Maker	4	4
FIV 20F	111	Ct : [2]	.,	8 = Prof customer	8	8
FIX-205	MaturityDay	String[2]	Υ	Maturity day. Part of Options series identifier. DD	Yes	Yes
FIX-386	NoTradingSessi ons	Int[1]	Υ	1	1	1
\rightarrow	TradingSessionI	Char[1]	Υ	1 = Early Trading Session		
FIX-336	D			2 = Core Trading Session	2	2
				3 = Late Trading Session		
				4 = Early & Core Trading Sessions		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				5 = Core & Late Trading Sessions 6 = Early, Core, & Late Trading Sessions		
				Note: for symbols trading on NYSE, all values that include Core designation (Core, Early/Core, Core/Late, and Early/Core/Late) will be allowed, if the order type supports the combination on other Pillar markets. However, for each of those values, Pillar will honor the applicable trading sessions included in the instruction based on Tape (B/C symbols - Early and Core; A symbols - Core only), and ignore the other trading sessions specified in the instruction (Tape B/C symbols - Late; Tape A symbols - Early and Late)		
FIX-439	ClearingFirm	String[5]	N	Clearing number of CMTA.	Yes	Yes
				Numeric characters only, no preceding zeros.		
FIX-440	ClearingAccoun t	String[5]	N	Clearing number, if other than the default Clearing Number for the MPID. If not specified, the default clearing number associated with the MPID will be sent back on response messages.	Yes	Yes
				Numeric characters only, no preceding zeros.		
FIX-526	OptionalData	String[16]	N	Clearing Optional Data.	Yes	Yes
711/ 320	CptionalData	30		Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	163	163
FIX-7928	SelfTradeType	Char[1]	N	0 (number 0) = Use current Session Configuration STP setting for the SenderCompID*	0	0
				T = No Self Trade Prevention	Т	Т
				N = Cancel Newest	N	N
				O (letter O)= Cancel Oldest C = Cancel Both D = Cancel Decrement	C	C
				*If 0 is specified, the explicit value (T,N,O,C,D) configured for the session will be sent back on response messages.		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	merican ptions
					Arca Opti	Am Op
FIX-9303	RoutingInst	Char[1]	С	C = Complex Only (non-legging Complex Order)		.
				N = Non-routable R = Routable	N R	N R
					K	K
				D = Directed (Primary Only) S = Directed + Routable (PO+S)		
				1 = Primary Market until 9:45		
				2 = Primary Market after 3:55		
				3 = BOTH Primary Market until 9:45 AND Primary		
				Market after 3:55		
				8 = Minimum Fill (must be entered with <i>MinQty</i> tag		
				populated with a non-zero value)		
FIX-9416	ExtendedExecIn	Char[1]	С	A = Add Liquidity Only (ALO)		
	st			0 = No trade against MPL		
				2 = No route to IOI		
				3 = No trade against MPL and no route to IOI		
				4 = Retail Order Type 1		
				5 = Retail Order Type 2		
				7 = Retail Provider		
				8 = Imbalance Offset	8	8
				C = Complex Order Auction		
				9 = Discretionary Peg		
				D = Dark (Non-Displayed) Primary Peg		
				I = Issuer Direct Offering (IDO)		
		0.1.543	_	N = Add Liquidity Only (Non-Taking ALO)	N	
FIX-9448	IntroducingBad geID	String[4]	С	Initiating Broker Badge, 1-4 numeric characters.	Yes	Yes
				Required on orders from NYSE Arca/American		
				Options Floor Broker OMS to Pillar.		_
FIX-20001		Char[1]	N	0 = Not Attributed (equities) / Use current session		0
	е			configuration BOLD setting for the SenderCompID		
				(options)		
				1 = Attributed for Market Data Feeds 2 = Include in Broker Volume		
				3 = Attributed for Market Data Feeds, and Include in		
				Broker Volume		
				4 = BOLD - Expose order info only		4
				5 = BOLD - Expose order info and Capacity only		5
				6 = BOLD - Expose order info and Participant ID only		6
				7 = BOLD - Expose order info, Capacity and		7
				Participant ID		
				8 = Do not BOLD		8
FIX-20002	ProactivelfLock	Char[1]	N	0 = No locked functionality	0	0
	ed			1 = Proactive if Locked for routable orders	1	1
				2 = Non-display remove liquidity for non-displayed		
				orders locked by contraside ALOs	<u> </u>	
FIX-20003	CancelInsteadO	Char[1]	N	0 = Not Applicable (follow default order behavior)	0	0
	fReprice			1 = Cancel order instead of repricing – for LULD only		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				2 = Cancel if doesn't set NBBO on arrival or if needs to reprice for LULD 3 = Cancel order instead of repricing for any reason 4 = Once resting, allow to reprice once, then cancel instead of repricing 5 = Combination of value 2 and 3 6 = Combination of value 2 and 4	3 4	3 4
FIX-20013	SubIDIndicator	Char[1]	N	When populating both OnBehalfOfSubID[116] and SelfTradeType[7928] on an order, allows the firm to specify whether the OnBehalfOfSubID should be used or ignored for Self-Trade Prevention (STP) evaluation. See "Self-Trade Prevention" section of this spec for more details. If also using Pillar Pre-trade Risk Controls, the OnBehalfOfSubID will be used for Risk Entity purposes regardless of the value specified in this field.		
				0 = for this order, use OnBehalfOfSubID (within the MPID) for STP evaluation 1 = for this order, ignore the OnBehalfOfSubID for STP (conduct STP evaluation at MPID level only) If not specified, will be assumed as a value of 0.	0	0
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.6 Order Cancel Reject

This message is used to reject a Cancel or Cancel/Replace Request. A single reject is provided for a Complex Cancel or Cancel Replace.

					S	s
Tag	Field Name	Data Type	Req'd	Values	Arca Options	Americar Options
	Standard FIX Header		Υ	MsgType[35] = 9	Yes	Yes
FIX-11	ClOrdID	String[20]	Υ	Returned from the Cancel or Cancel/Replaced Request – the ClOrdID of the message that is rejected (Cancel or Cancel/Replace request). Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the ClOrdID provided is unique among all orders sent for the full length of the trading day by the given SenderCompID + MPID. Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol,	Yes	Yes
5N/ 07		C		greater than/less than, ampersand (&) and single/double quotation mark.		.,
FIX-37	OrderID	String[20]	Y	OrderID of the order intended for cancellation or replacement. Unique identifier of most recent order as assigned by the Exchange. Published externally to market data feeds. Numerical up to 20 characters.	Yes	Yes
FIX-39	OrdStatus	Char[1]	Υ	Status of the order: 0 = New 1 = Partially Filled 2 = Filled 3 = Done For Day 4 = Cancelled 5 = Replaced 6 = Pending Cancel 8 = Rejected C = Billable Cancel (Self Trade Prevention) E = Pending Replace M = Pending Modify	8	8
FIX-41	OrigClOrdID	String[20]	С	Returned from Order Cancel or Cancel/Replace Request.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				Represents the <i>ClOrdID</i> of the previously entered order intended for cancellation or replacement (NOT necessarily the initial order of the day).		
				Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
FIX-58	Text	String[80]	N	On Incoming Messages from Firm: Freeform text field, up to 80 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. However, will not be passed back in Acknowledgments or any subsequent response messages. On Outgoing Message from Exchange: Reason	Yes	Yes
				code and text description for order activity. For example, reason for cancel/cancel-replace rejection.		
FIX-60	TransactTime	UTC Timestamp [27]	N	On Incoming Messages from Firm: Customer application time. On Outgoing Message from Exchange: Exchange application time. UTC time, in Milliseconds	Yes	Yes
				YYYYMMDD-HH:MM:SS.mmm		
FIX-434	CxlRejResponse To	Char[1]	Υ	1 = Order Cancel Request 2 = Order Cancel/Replace Request	1 2	1 2
FIX-20009	Nanosecond SendingTime	String[27]	Υ	Time of message transmission on outgoing message from Exchange. UTC time, in Nanoseconds – YYYYMMDD-HH:MM:SS.ssssssss Note: this represents the same reference time as provided in the Standard FIX Header tag SendingTime[52], with more granular resolution.	Yes	Yes
FIX-20010	Nanosecond TransactTime	String[27]	Y	Exchange application time. UTC time, in Nanoseconds – YYYYMMDD-HH:MM:SS.ssssssss	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				Note: this represents the same reference time as provided in the standard FIX tag <i>TransactTime</i> (60), with more granular resolution.		
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.7 New Complex Order

This message is used to send a New Complex Order to the NYSE Pillar Trading Engine for the Options Markets.

A complex series is defined from the perspective of the buyer (i.e. Buy aligned). Pillar sequences the component legs from the complex order message or Binary Complex Series Request from lowest series ID to highest series ID. After sequencing the component legs, using the first component leg, if the leg is to Buy, the complex series is defined and published to Pillar Market Data. If the first leg is to Sell, the side of all component legs are reversed and published to Pillar Market Data.

All complex orders except GTX must adhere to the 3:1 ratio restriction.

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Υ	<i>MsgType[35]</i> = AB	Yes	Yes
FIX-1	Account	String[16]	N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. For NYSE Arca & NYSE American Options - up to 16 characters will be echoed back on gateway messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.	Yes	Yes
FIX-11	ClOrdID	String[20]	Y	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm. Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the ClOrdID provided is unique among all orders sent for the full length of the trading day by the given SenderCompID + MPID.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Suc	ican
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Arca Options	America Options
				Customer defined up to 20 characters; only		
				printable ASCII characters allowed, excluding		
				comma, semicolon, pipe delimiter, "at" symbol,		
				greater than/less than, ampersand (&) and		
				single/double quotation mark.		
				Note: Firms must specify a <i>ClOrdID</i> value for the		
				entire Complex order in tag 11.		
FIX-38	OrderQty	Qty[6]	Υ	1 - 999,999	Yes	Yes
				Number of times the spread is available. Leg order		
				quantity is determined by OrderQty*LegRatioQty,		
				the resulting value cannot exceed 999,999.		
FIX-40	OrdType	Char[1]	Υ	1 = Market		
				2 = Limit	2	2
				3 = Stop		
				4 = Stop Limit 7 = Inside Limit		
				9 = AutoMatch Limit		
				P = Pegged		
FIX-44	Price	Price[16]	Υ	-214,748.36 - 214,748.36	Yes	Yes
11/-44	Trice	Trice[10]	'	Net Limit price of the order - can be positive,	163	163
				negative or zero. A positive value indicates		
				Customer is paying (net debit); a negative value		
				indicates Customer is receiving (net credit). Zero is		
				even.		
				Max of 2 decimal places.		
				Required when OrdType = 2		
FIX-59	TimeInForce	Char[1]	Υ	0 = Day	0	0
				1 = GTC	1	1
				2 = At the Opening		
				3 = IOC	3	3
				4 = FOK		
				5 = GTX	5	5
				6 = GTD		
				7 = On Close		
FIX-60	TransactTime	UTCTimes	N	On Incoming Messages from Firm: Customer	Yes	Yes
		tamp [27]		application time.		
				On Outgoing Message from Exchange: Exchange		
				application time.		
				UTC time, in Milliseconds		
				YYYYMMDD-HH:MM:SS.mmm		
FIX-167	SecurityType	String[4]	Υ	Identifies type of Options Instrument.		
				OPT = Single leg Option		
				MLEG = Complex Option (Multi-leg Option)	MLEG	MLEG

Arca 0 Options	American Options
0 1 2 3 4	O Dotto
0 1 2 3 4	0 1 2 3
1 2 3 4 8	1 2 3
1 2 3 4 8	1 2 3
3 4 8	3
4 8	_
8	_
	4
	8
1	1
2	2
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
2 Y(es es

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
→ Repeat					Ā Ō	A O
A minimur	n of 2 legs must be	defined. A m	aximum	of 12 legs can be defined.		
LegSymbo	<i>I[600]</i> must be the	first tag in thi	s repeati	ng group.		
→ FIX-600	LegSymbol	String[16]	Υ	Options OSI Root symbol. Note: This must be the first tag of each leg.	Yes	Yes
→ FIX-564	LegPositionEffe ct	Char[1]	Y	Indicates status of Client's position in the Option. Option legs only. O = Open	0	0
→ FIX-608	LegCFICode	String[2]	Y	C = Close Security CFI code for the individual leg of the Complex Option instrument. For Options: OC = Option - Call [OPT] OP = Option - Put [OPT] EQ = Equity common shares	OC OP	OC OP
→ FIX-611	LegMaturityDat e	String[8]	Y	Complex instrument's individual security's Maturity Date. Expiration Date in the YYYYMMDD format.	Yes	Yes
→ FIX-612	LegStrikePrice	Price[16]	Υ	0.000001 - 999,999,999.999999	Yes	Yes
→ FIX-623	LegRatioQty	Qty[6]	Y	The ratio of quantity for this individual leg. 1 - 65,535 Number of option contracts for this leg is: OrderQty*LegRatioQty	Yes	Yes
→ FIX-624	LegSide	Char[1]	Y	The side of this individual leg. 1 = Buy	1	1
→ FIX-654	LegRefID	int[10]	Y	Unique ID of the individual leg of the new Order or Cancel/Replace request as assigned by the firm. Pillar will validate that the LegRefID is unique among the legs in a Complex order. However, the firm is responsible for ensuring that the LegRefID provided is unique among all legs of a certain Complex order. Customer defined value up to 10 digits numeric starting from 1 up to 4 204 067 205	Yes	Yes
FIX-7928	SelfTradeType	Char[1]	N	starting from 1 up to 4,294,967,295. 0 (number 0) = Use current Session Configuration STP setting for the SenderCompID*	0	0
				T = No Self Trade Prevention N = Cancel Newest O (letter O) = Cancel Oldest C = Cancel Both D = Cancel Decrement	T N O C	T N O C

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				*If 0 is specified, the explicit value (T, N, O, C, D) configured for the Username will be sent back on response messages.		
FIX-9303	RoutingInst	Char[1]	С	C = Complex Only (non-legging Complex Order) N = Non-routable R = Routable D = Directed (Primary Only) S = Directed + Routable (PO+S) 1 = Primary Market until 9:45 2 = Primary Market after 3:55 3 = BOTH Primary Market until 9:45 AND Primary Market after 3:55 8 = Minimum Fill (must be entered with MinQty tag populated with a non-zero value)	С	С
FIX-9416	ExtendedExecIn st	Char[1]	С	A = Add Liquidity Only (ALO) 0 = No trade against MPL 2 = No route to IOI 3 = No trade against MPL and no route to IOI 4 = Retail Order Type 1 5 = Retail Order Type 2 7 = Retail Provider 8 = Imbalance Offset C = Complex Order Auction 9 = Discretionary Peg D = Dark (Non-Displayed) Primary Peg I = Issuer Direct Offering (IDO) N = Add Liquidity Only (Non-Taking ALO)	С	С
FIX-9448	IntroducingBad geID	String[4]	N	Initiating Broker Badge, 1-4 numeric characters. Required on orders from NYSE Arca/American Options Floor Broker OMS to Pillar.	Yes	Yes
FIX-20003	CancelInsteadO fReprice	Char[1]	N	0 = Not applicable (follow default order behavior) 1 = Cancel order instead of repricing – for LULD only 2 = Cancel if doesn't set NBBO on arrival or if needs to reprice for LULD 3 = Cancel order instead of repricing for any reason 4 = Once resting, allow to reprice once, then cancel instead of repricing 5 = Combination of value 2 and 3 6 = Combination of value 2 and 4	0	0

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-20013	SubIDIndicator	Char[1]	N	When populating both OnBehalfOfSubID[116] and SelfTradeType[7928] on an order, allows the firm to specify whether the OnBehalfOfSubID should be used or ignored for Self-Trade Prevention (STP) evaluation. See "Self-Trade Prevention" section of this spec for more details. If also using Pillar Pre-trade Risk Controls, the OnBehalfOfSubID will be used for Risk Entity purposes regardless of the value specified in this field. 0 = for this order, use OnBehalfOfSubID (within the	0	0
				MPID) for STP evaluation		
				1 = for this order, ignore the <i>OnBehalfOfSubID</i> for STP (conduct STP evaluation at MPID level only)	1	1
FIV 20044	AccetionalD	Ct.:/20\	.	If not specified, will be assumed as a value of 0.		V
FIX-20041	AuctionID	String(20)	N	CUBE Auction identifier supplied by Pillar Market Data to allow GTX responses to target specific CUBE auctions. If provided on non-GTX responses, the order will be rejected.		Yes
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.8 New Complex Cross Order

This message is used to send a New Complex Cross Order to NYSE Pillar Trading Engine for the Options Markets. Customer to Customer Cross orders must adhere to the 3:1 ratio restriction, QCC and CUBE are not restricted.

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
					Arc	Am
	Standard FIX Header		Υ	<i>MsgType[35]</i> = As	Yes	Yes
FIX-38	OrderQty	Qty[9]	Υ	1 - 999,999	Yes	Yes
				Number of times the spread is available. Leg order quantity is determined by <i>OrderQty*LegRatioQty</i> , the resulting value cannot exceed 999,999.		
FIX-59	TimeInForce	Char[1]	Y	0 = Day 1 = GTC 2 = At the Opening 3 = IOC 4 = FOK 5 = GTX 6 = GTD 7 = On Close	3	3
FIX-60	TransactTime	UTC Timestam p [27]	N	On Incoming Messages from Firm: Customer application time. On Outgoing Message from Exchange: Exchange application time. UTC time, in Milliseconds YYYYMMDD-HH:MM:SS.mmm	Yes	Yes
FIX-167	SecurityType	String[4]	Y	Identifies type of Options Instrument OPT = Single leg Option MLEG = Complex Option (Multi-leg Option)	MLEG	MLEG
FIX-386	NoTradingSessi ons	Int[1]	Y	1	1	1
→ FIX-336		Char[1]	Υ	1 = Early Trading Session 2 = Core Trading Session 3 = Late Trading Session 4 = Early & Core Trading Sessions 5 = Core & Late Trading Sessions 6 = Early, Core, & Late Trading Sessions	2	2
				Note: for symbols trading on NYSE, all values that include Core designation (Core, Early/Core, Core/Late, and Early/Core/Late) will be allowed, if the order type supports the combination on other Pillar markets. However, for each of those values, Pillar will honor the applicable trading sessions included in the instruction based on Tape (B/C		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				symbols - Early and Core; A symbols - Core only), and ignore the other trading sessions specified in the instruction (Tape B/C symbols - Late; Tape A symbols - Early and Late)		
FIX-548	CrossID	String[20]	Y	Unique ID of the Cross as assigned by the firm. Pillar will validate that the <i>CrossID</i> is unique for the combination of <i>SenderCompID</i> + <i>OnBehalfOfCompID</i> (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the <i>CrossID</i> provided is unique among all orders sent for the full length of the trading day by the given <i>SenderCompID</i> + MPID. Customer defined up to 20 characters; only	Yes	Yes
				printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
FIX-9202	SpecialOrdType	Char[1]	Y	1 = DMM Open/Re-open/Close with or without Auction (AOC) - drop copy only 2 = DMM Pre-auction - drop copy only 3 = DMM After-auction - drop copy only 9 = Cabinet		
				C = Customer to Customer Cross P = CUBE Price Improvement Q = QCC S = AON CUBE T = QCT (DeliverToCompID must be populated with IB Firm Identifier)	C Q	C P Q S
FIX- 9448	IntroducingBad geID	String[4]	N	Initiating Broker Badge, 1-4 numeric characters. Required on orders from NYSE Arca/American Options Floor Broker OMS to Pillar.	Yes	Yes
FIX- 552	NoSides	Char[1]	Υ	Number of Sides in the repeating group	2	2

→ Repeating group

Exposed side of the Cross order (CoveredOrUncovered[203] = E) must be defined first along with all its legs before the Covered side (CoveredOrUncovered[203] = C) is defined along with all its legs. A CUBE order must be defined with "E", CUBE contra order with a "C".

ClOrdID[11] must appear first on each side.

\rightarrow	ClOrdID	String[20]	Υ	Required Tag to begin each repeating group.	Yes	Yes
FIX-11						
				Unique ID of the new Order, Cancel, or		
				Cancel/Replace request as assigned by the firm.		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				Pillar will validate that the <i>ClOrdID</i> is unique for the combination of <i>SenderCompID</i> + <i>OnBehalfOfCompID</i> (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the <i>ClOrdID</i> provided is unique among all orders sent for the full length of the trading day by the given <i>SenderCompID</i> + MPID.		
				Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
				Note: Firms must specify a <i>ClOrdID</i> value for the entire Complex order in tag 11.		
→ FIX-1	Account	String[16]	N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
				For NYSE Arca & NYSE American Options - up to 16 characters will be echoed back on gateway response messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.		
→ FIX-40	OrdType	Char[1]	Y	1 = Market 2 = Limit 3 = Stop 4 = Stop Limit 7 = Inside Limit	2	2
				9 = AutoMatch Limit		9
→ FIX-44	Price	Price[16]	С	P = Pegged -214,748.36 - 214,748.36 Net Limit price of the order - can be positive, negative or zero. A positive value indicates Customer is paying (net debit); a negative value indicates Customer is receiving (net credit). Zero is even. Max of 2 decimal places.	Yes	Yes
→ FIX-203	CoveredOrUnc overed	Char[1]	Y	Identifies the Exposed and Covered Side of each order in the Cross. E = Exposed C = Covered	E C	E C
\rightarrow	CustomerOrFir	Char[1]	Υ	Capacity of the order	-	
FIX-204	m			0 = Customer	0	0

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				1 = Firm	1	1
				2 = Broker	2	2
				3 = Market maker	3	3
				4 = Away Market Maker	4	4
				8 = Prof customer	8	8
→ FIX-439	ClearingFirm	String[5]	N	Clearing number of CMTA.	Yes	Yes
				Numeric characters only, no preceding zeros.		
→ FIX-440	ClearingAccoun t	String[5]	N	Clearing number, if other than the default Clearing Number for the MPID.	Yes	Yes
				If not specified, the default clearing number associated with the MPID will be sent back on response messages.		
				Numeric characters only, no preceding zeros.		
→ FIX-526	OptionalData	String[16]	N	Clearing Optional Data.	Yes	Yes
				Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
→ FIX-555	NoLegs	String[2]	Y	Number of <i>InstrumentLeg</i> repeating group instances. A minimum of 2 and a maximum of 12 legs supported.	Yes	Yes

→→ Repeating group

A minimum of 2 legs must be defined. A maximum of 12 legs can be defined.

LegSymbol[600] must be the first tag in this repeating group.

→→ FIX-600	LegSymbol	String[16]	Y	Valid Equities Ticker Symbol or Options OSI Root symbol.	Yes	Yes
				Note: This must be the first tag of each leg.		
$\rightarrow \rightarrow$	LegPositionEffe	Char[1]	Υ	Indicates status of Client's position in the Option.		
FIX-564	ct			Option legs only.		
				O = Open	0	0
				C = Close	С	С
$\rightarrow \rightarrow$	LegCFICode	String[2]	Υ	Security CFI code for the individual leg of the		
FIX-608				Complex Option instrument.		
				For Options:		
				OC = Option – Call [OPT]	OC	OC
				OP = Option – Put [OPT]	OP	OP
				EQ = Equity common shares		
$\rightarrow \rightarrow$	LegMaturityDat	String[8]	Υ	Complex instrument's individual security's Maturity	Yes	Yes
FIX-611	е			Date.		
				Expiration Date in the YYYYMMDD format.		

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Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
→→ FIX-612	LegStrikePrice	Price[16]	Υ	0.000001 - 999,999,999.999999	Yes	Yes
→→ FIX-623	LegRatioQty	Qty[6]	Y	The ratio of quantity for this individual leg. 1 - 65,535 QCC 1 - 999,999 Number of option contracts for this leg is: LegRatioQty * OrderQty	Yes	Yes
→→ FIX-624	LegSide	Char[1]	Υ	The side of this individual leg. 1 = Buy 2 = Sell	1 2	1 2
→→ FIX-654	LegRefID	Int[10]	Y	Unique ID of the individual leg of the new Order or Cancel/Replace request as assigned by the firm. Pillar will validate that the <i>LegRefID</i> is unique among the legs in a Complex order. However, the firm is responsible for ensuring that the <i>LegRefID</i> provided is unique among all legs of a certain Complex order. Customer defined value up to 10 digits numeric starting from 1 up to 4,294,967,295.	Yes	Yes
→ FIX-20014	GiveUpMarket Maker	String[4]	N	Market Maker Identifier - MMID. If provided, the value will be used in place of FIX Tag 50.	Yes	Yes
→ FIX-20015	AllocationPct	String[2]	N	Percentage of allocation a single stop price Covered order is willing to surrender. Valid values are 0 - 100 pct. If the value provided results in a greater than standard allocation, then the max allowable quantity will be allocated. Field not applicable for QCC, Customer to Customer and CUBE orders defined as AutoMatch (market or limit) or AON.		Yes
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.9 Complex Order Cancel/Replace Request

This message may be used in two ways:

- **Full Cancel/Replace Request** used to make changes to an order without preserving its ranking in the Exchange order book. The replacement order will get a new *ClOrdID* (equal to the *ClOrdID* of the Cancel/Replace Request), a new Timestamp, and a new *OrderID*.
- **Modify Request** used to reduce the total number of shares/contract order quantity, while preserving the order's ranking in the Exchange order book as well as its original *OrderID*.

The modified order, however, will get a new CIOrdID (equal to the CIOrdID of the Modify Request).

Note: Reducing the total quantity to 0 will cancel the order.

Options cross orders are not eligible for cancel replacement.

In both cases, the following tags in the FIX Header of the Cancel/Replace Request must be populated with the same values that were sent on the original order intended for replacement:

- OnBehalfOfCompID[115] MPID
- SenderSubID[50] MMID

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Υ	<i>MsgType[35]</i> = AC	Yes	Yes
FIX-1	Account	String[16]	N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. For NYSE Arca & NYSE American Options - up to 16 characters will be echoed back on gateway messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.	Yes	Yes
FIX-11	ClOrdID	String[20]	Υ	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm. Pillar will validate that the <i>ClOrdID</i> is unique for the combination of <i>SenderCompID</i> + <i>OnBehalfOfCompID</i> (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the <i>ClOrdID</i> provided is unique among all orders sent for the full length of the trading day by the given <i>SenderCompID</i> + MPID. Customer defined up to 20 characters; only printable ASCII characters allowed, excluding	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
				Note: Firms must specify a <i>ClOrdID</i> value for the entire Complex order in tag 11.		
FIX-38	OrderQty	Qty[6]	Y	Quantity from Order Message 1 - 999,999 Leg order quantity is determined by <i>OrderQty</i> * <i>LegRatioQty</i> , the resulting value cannot exceed 999,999.	Yes	Yes
FIX-40	OrdType	Char[1]	Υ	1 = Market 2 = Limit 3 = Stop 4 = Stop Limit 7 = Inside Limit 9 = AutoMatch Limit P = Pegged	2	2
FIX-41	OrigClOrdID	String[20]	Υ	This value must match the <i>CIOrdID</i> of the previously entered order intended for cancellation or replacement (NOT necessarily the initial order of the day). Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
FIX-44	Price	Price[16]	Y	-214,748.36 - 214,748.36 Net Limit price of the order - can be positive, negative or zero. A positive value indicates Customer is paying (net debit); a negative value indicates Customer is receiving (net credit). Zero is even. Max of 2 decimal places.	Yes	Yes
FIX-59	TimeInForce	Char[1]	Υ	0 = Day	0	0
				1 = GTC 2 = At the Opening 3 = IOC	3	3
			4 = FOK 5 = GTX 6 = GTD 7 = On Close	5	5	
FIX-60	TransactTime	UTC Timestam p [27]	N	On Incoming Messages from Firm: Customer application time. On Outgoing Messages from Exchange: Exchange	Yes	Yes
				application time.		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
					Arc	Απ Op
				UTC time, in Milliseconds		
				YYYYMMDD-HH:MM:SS.mmm	-	
FIX-167	SecurityType	String[4]	Υ	Identifies type of Options Instrument		
				OPT = Single leg Option	NALEC	N 41 F.C
FIV 204	Custs as a govern	Chau[1]	V	MLEG = Complex Option	MLEG	MLEG
FIX-204	CustomerOrFir	Char[1]	Υ	Capacity of the order 0 = Customer	0	0
	m			1 = Firm	1	1
				2 = Broker	2	2
			3 = Market maker	3	3	
				4 = Away Market Maker	4	4
				8 = Prof customer	8	8
FIX-386	NoTradingSessi	Int[1]	Υ	1	1	1
	ons					
\rightarrow	Tue din aConsinul	Chau[1]	V	1 Forby Trading Cossion		
FIX-336	TradingSessionI	Char[1]	Υ	1 = Early Trading Session 2 = Core Trading Session	1	2
FIX-336 D	U			3 = Late Trading Session	2	2
				4 = Early & Core Trading Sessions		
				5 = Core & Late Trading Sessions		
				6 = Early, Core, & Late Trading Sessions		
				Note : for symbols trading on NYSE, all values that		
				include Core designation (Core, Early/Core,		
				Core/Late, and Early/Core/Late) will be allowed, if		
				the order type supports the combination on other		
				Pillar markets. However, for each of those values,		
				Pillar will honor the applicable trading sessions		
				included in the instruction based on Tape (B/C		
				symbols - Early and Core; A symbols - Core only),		
				and ignore the other trading sessions specified in		
				the instruction (Tape B/C symbols - Late; Tape A		
50/ 400	01 : 5:	0		symbols - Early and Late)		.,
FIX-439	ClearingFirm	String[5]	N	Clearing number of CMTA.	Yes	Yes
				Numeric characters only no proceeding zeros		
FIX-440	ClearingAccoun	String[5]	N	Numeric characters only, no preceding zeros. Clearing number, if other than the default Clearing	Yes	Yes
ΓΙΛ- 44 0	t	String[5]	IN	Number for the MPID.	res	165
				Number for the Wir ID.		
				If not specified, the default clearing number		
			associated with the MPID will be sent back on			
				response messages.		
				Numeric characters only, no preceding zeros.		
FIX-526	OptionalData	String[16]	N	Clearing Optional Data.	Yes	Yes
				Customer defined up to 16 characters; only		
				printable ASCII characters allowed, excluding		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
FIX-555	NoLegs	String[2]	Υ	Number of Instrument Leg repeating group instances. A minimum of 2 and a maximum of 12 legs supported.	Yes	Yes

→ Repeating group

A minimum of 2 legs must be defined. A maximum of 12 legs can be defined.

LegSymbol[600] must be the first tag in this repeating group.

→ FIX-600	LegSymbol	String[16]	Υ	Valid Equities Ticker Symbol or Options OSI Root symbol.	Yes	Yes
			ļ.,	Note: This must be the first tag of each leg.		
→	LegPositionEffe	Char[1]	Υ	Indicates status of Client's position in the Option.		
FIX-564	ct			Option legs only.	_	
				O = Open	0	0
	_		1	C = Close	С	С
→	LegCFICode	String[2]	Υ	Security CFI code for the individual leg of the		
FIX-608				Complex Option instrument.		
				For Options:		
				OC = Option – Call [OPT]	OC	OC
				OP = Option – Put [OPT]	OP	OP
				EQ = Equity common shares		
\rightarrow	LegMaturityDat	String[8]	Υ	Complex instrument's individual security's Maturity	Yes	Yes
FIX-611 e	е			Date.		
				Expiration Date in the YYYYMMDD format.		
→ FIX-612	LegStrikePrice	Price[16]	Υ	0.000001 – 999,999,999.999999	Yes	Yes
→ FIX-623	LegRatioQty	Qty[6]	Υ	The ratio of quantity for this individual leg. 1 - 65,535	Yes	Yes
				Number of option contracts or stock shares for this leg is: OrderQty * LegRatioQty		
\rightarrow	LegSide	Char[1]	Υ	The side of this individual leg.		
FIX-624				1 = Buy	1	1
				2 = Sell	2	2
\rightarrow	LegRefID	Int[10]	Υ	Unique ID of the individual leg of the new Order or	Yes	Yes
FIX-654				Cancel/Replace request as assigned by the firm.		
				Pillar will validate that the LegRefID is unique		
				among the legs in a Complex order. However, the		
				firm is responsible for ensuring that the LegRefID		
				provided is unique among all legs of a certain		
				Complex order.		
				Customer defined value up to 10 digits numeric		
				starting from 1 up to 4,294,967,295.		

Tag	Field Name	Data Type	Req'd	Values	suc	rican ons
	Tiera manie	Data : , pc			Arca Options	Americal Options
FIX-7928	SelfTradeType	Char[1]	N	0 (number 0) = Use current Session Configuration	0	0
				STP setting for the SenderCompID*		
				T = No Self Trade Prevention	Т	Т
				N = Cancel Newest	N	N
				O (letter O) = Cancel Oldest	0	0
				C = Cancel Both	С	С
				D = Cancel Decrement		
				*If 0 is specified, the explicit value (T, N, O, C, D)		
				configured for the Username will be sent back on		
				response messages.		
FIX-9303	RoutingInst	Char[1]	С	C = Complex Only (non-legging Complex Order)	С	С
1 111 3303	Troutingst	char[2]		N = Non-routable		Č
				R = Routable		
				D = Directed (Primary Only)		
				S = Directed + Routable (PO+S)		
				1 = Primary Market until 9:45		
				2 = Primary Market after 3:55		
				3 = BOTH Primary Market until 9:45 AND Primary		
				Market after 3:55		
				8 = Minimum Fill (must be entered with <i>MinQty</i> tag		
				populated with a non-zero value)		
FIX-9416	ExtendedExecIn	Char[1]	С	A = Add Liquidity Only (ALO)		
	st			0 = No trade against MPL		
				2 = No route to IOI		
				3 = No trade against MPL and no route to IOI		
				4 = Retail Order Type 1		
				5 = Retail Order Type 2		
				7 = Retail Provider		
				8 = Imbalance Offset		
				C = Complex Order Auction	С	С
				9 = Discretionary Peg		
				D = Dark (Non-Displayed) Primary Peg		
				I = Issuer Direct Offering (IDO)		
FIV 0440	Latar de dia aD a d	C+i[4]		N = Add Liquidity Only (Non-Taking ALO)	V	V
FIX-9448	IntroducingBad geID	String[4]	С	Initiating Broker Badge, 1-4 numeric characters.	Yes	Yes
	gcib			Required on orders from NYSE Arca/American		
				Options Floor Broker OMS to Pillar.		
FIX-20003	CancelInsteadO	Char[1]	N	0 = Not applicable (follow default order behavior)	0	0
0005	fReprice	J[±]	'	1 = Cancel order instead of repricing – for LULD		
	-1			only		
				2 = Cancel if doesn't set NBBO on arrival or if needs		
				to reprice for LULD		
				3 = Cancel order instead of repricing for any reason		
				4 = Once resting, allow to reprice once, then cancel		
				instead of repricing		
				5 = Combination of value 2 and 3		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				6 = Combination of value 2 and 4		
FIX-20013	SubIDIndicator	Char[1]	N	When populating both OnBehalfOfSubID[116] and SelfTradeType[7928] on an order, allows the firm to specify whether the OnBehalfOfSubID should be used or ignored for Self-Trade Prevention (STP) evaluation. See "Self-Trade Prevention" section of this spec for more details. If also using Pillar Pre-trade Risk Controls, the OnBehalfOfSubID will be used for Risk Entity purposes regardless of the value specified in this field.		
				0 = for this order, use <i>OnBehalfOfSubID</i> (within the MPID) for STP evaluation	0	0
				1 = for this order, ignore the <i>OnBehalfOfSubID</i> for STP (conduct STP evaluation at MPID level only)	1	1
				If not specified, will be assumed as a value of 0.		
	Standard FIX Trailer		Y	Standard FIX Trailer	Yes	Yes

5.10 Execution Report

This message is used to confirm new orders, cancellations, replacements, fills, trade busts, trade corrections, order rejections and Done for Day. Done for Day messages are sent for all open orders at the Done for Day time 4:45pm ET (30 minutes from late series market close).

For NYSE Arca and American Options cross messages, a separate message will be provided for each side of the cross.

This message may also be sent unsolicited by the Exchange as an Order Priority Update Acknowledgement to notify the firm of a Reserve Order replenishment event or as a Re-pricing Ack to notify the firm of a working or display price update. Firms control receipt of these Acks by session level subscription via the Logon Request message. For both Reserve Order Replenishment and Repricing acks, *OrdStatus[39]* = 0 (New) and *LeavesQty[151]* = 0.

- Reserve Order Replenishment is represented by *UnsolicitedAckType*[20007] = 2 (Order Priority Update –
 New *OrderID*). The Ack indicates that the displayed portion of a Reserve Order has been replenished
 according to the order's 'MaxFloor'. The replenishment order is assigned a new *OrderID*, which is provided
 in the message.
- Repricing is represented by ExecType = D (Restatement) and ExecRestatementReason[378] = 3 (Repricing).

Complex orders are reported as follows:

- Order, cancel and replace acks, UROUTS, replaces, Done for Day and restatements are provided for the Complex and the individual legs.
- Fills, trade busts and trade corrections are provided for the individual legs only.
- Order rejects are provided for the Complex only.

For a list of post trade adjustment messages sent back on Order Entry session and Drop Copy session, please refer to the "<u>Drop Copy</u>" section of this document.

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
	Standard FIX Header		Υ	MsgType[35] = 8	Yes	Yes
FIX-1	Account	String[16]	N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. For NYSE Arca & NYSE American Options - up to 16 characters will be echoed back on gateway response messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.	Yes	Yes
FIX-11	ClOrdID	String[20]	Y	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the Firm. Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				only. However, the Firm is responsible for ensuring that the <i>ClOrdID</i> provided is unique among all orders sent for the full length of the trading day by the given <i>SenderCompID</i> + MPID.		
				Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
				When <i>MultiLegReportingType[442] = 2 or 3</i> , this field represents the <i>ClOrdID</i> value for the entire Complex order.		
FIX-14	CumQty	Qty[9]	С	0 - 999,999	Yes	Yes
FIX-17	ExecID	String[32]	Υ	Unique identifier of the outgoing FIX message, assigned by the Exchange to all FIX <i>MsgType</i> 8.	Yes	Yes
				Up to 32 characters.		
FIX-18	ExecInst	Char[1] String[32]	С	d = Tracking Order f = ISO B = OK to Cross E = DNI F = DNR G = All or None R = Primary Peg P = Market Peg M = MPL (Midpoint Liquidity) N = Non-displayed (Retail Price Improvement and Limit-Non Displayed orders) y = Trade-at ISO L = Last Sale Peg v = Stock-Option/Stock-Future Contingent (only present on outbound drop copy messages) Contains the ExecID[17] value of the Fill that is busted	f	f
				or corrected. Up to 32 characters.		
FIX-20	ExecTransType	Char[1]	Y	0 = New (ack, pending cancel, pending replace, partial fill, fill, order reject) 1 = Cancel (Trade Break Only)	1	1
FIX-30	LastMkt	String[4]	С	2 = Correct (Trade Correction Only) On fills and partial fills, Market Identifier Code (MIC) of the sending Exchange (regardless of local or away market execution). AMXO = NYSE American Options ARCO = NYSE Arca Options	2 ARCO	2 AMXO

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-31	LastPx	Price[16]	С	Price of current partial fill or fill message (set to 0 on all non-fills).	Yes	Yes
				0 - 9,999.99		
FIX-32	LastQty	Qty[9]	С	Quantity of current partial fill or fill message (set to 0 on all non-fills). Quantity of current partial fill or fill of the leg when MultiLegReportingType[442] = 2. 0 - 999,999	Yes	Yes
FIX-37	OrderID	String[20]	С	Unique identifier of most recent order as assigned by the Exchange. Published externally to market data feeds.	Yes	Yes
FIX-38	OrderQty	Qty[9]	Υ	Numerical up to 20 characters. 1 - 999,999	Yes	Yes
	Graciaty	at [5]	·	Reserve Replenishment (tag 20007 = 2) - represents the displayed quantity. Repricing (tag 150 = D and tag 378 = 3) - represents the leaves quantity of the order. When MultiLegReportingType[442] = 2, this field	163	163
				represents the leg level quantity.		
FIX-39	OrdStatus	Char[1]	Y	Status of the order: 0 = New 1 = Partially Filled 2 = Filled 3 = Done For Day 4 = Cancelled 5 = Replaced 6 = Pending Cancel 8 = Rejected C = Billable Cancel (Self Trade Prevention) E = Pending Replace M = Pending Modify	0 1 2 3 4 5 6 8	0 1 2 3 4 5 6 8 E
FIX-40	OrdType	Char[1]	Y	1 = Market 2 = Limit 3 = Stop 4 = Stop Limit 7 = Inside Limit 9 = AutoMatch Limit P = Pegged	1 2 3 4	1 2 3 4
FIX-41	OrigClOrdID	String[20]	С	Returned from Order Cancel or Cancel/Replace Request.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				Represents the <i>ClOrdID</i> of the previously entered order intended for cancellation or replacement (NOT necessarily the initial order of the day).		
				Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
				When MultiLegReportingType[442] = 2 or 3, this field represents the ClOrdID value for the entire Complex order previously entered for cancellation or replacement.		
FIX-44	Price	Price[16]	С	0.01 - 9,999.99	Yes	Yes
				When MultiLegReportingType[442] = 2 or 3, Net Limit price of the order - can be positive, negative or zero. A positive value indicates Customer is paying (net debit); a negative value indicates Customer is receiving (net credit). Zero is even. (-214,748.36 - 214,748.36)		
FIX-54	Side	Char[1]	С	1 = Buy 2 = Sell 5 = Sell Short 6 = Sell Short Exempt 8 = Cross 9 = Cross Short A = Cross Short Exempt Not provided when MultiLegReportingType[442] = 3.	1 2	1 2
FIX-55	Symbol	String[16]	С	Valid Options OSI Root symbol.	Yes	Yes
FIX-58	Text	String[40]	N	Not provided when MultiLegReportingType[442] = 3. On Incoming Messages from Firm: Freeform text field, up to 80 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. However, will not be passed back in Acknowledgments or any subsequent response messages.	Yes	Yes
				On Outgoing Messages from Exchange: Reason code and text description for order activity, up to 40 characters. For example, reason for cancel/cancel-replace rejection.		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
					Arc	Am
FIX-59	TimeinForce	Char[1]	Y	0 = Day 1 = GTC 2 = At the Opening 3 = IOC 4 = FOK 5 = GTX 6 = GTD 7 = On Close	0 1 2 3	0 1 2 3
FIX-60	TransactTime	UTC Timestam p [27]	N	On Incoming Messages from Firm: Customer application time. On Outgoing Message from Exchange: Exchange application time. UTC time, in Milliseconds YYYYMMDD-HH:MM:SS.mmm	Yes	Yes
FIX-77	OpenClose	Char[1]	Y	Indicates status of Client's position in the Option. For Complex orders, only populated when MultiLegReportingType[442] = 3. O = Open C = Close	O C	0 C
FIX-99	StopPx	Price[16]	С	Trigger price for Stop or Stop limit order 0.01 - 9,999.99	Yes	Yes
FIX-109	ClientID	String[4]	N	For firms using ClientID based Self-Trade Prevention as a session default, this tag will be sent unsolicited on messages from the Exchange to the firm.	Yes	Yes
FIX-110	MinQty	Qty[5]	N	Must be ≤ <i>OrderQty</i>	No	No
FIX-111	MaxFloor	Qty[5]	С	1 - 999,999	Yes	Yes
FIX-150	ЕхесТуре	Char[1]	Υ	0 = New 1 = Partially Filled 2 = Filled 3 = Done For Day 4 = Cancelled 5 = Replaced 6 = Pending Cancel 8 = Rejected C = Billable Cancel (Self Trade Prevention) D = Restatement E = Pending Cancel/Replace L = Eligible for Cross (Used for Broker Cross Orders) M = Pending Modify	0 1 2 3 4 5 6 8 D E	0 1 2 3 4 5 6 8 D E
FIX-151	LeavesQty	Qty[9]	С	0 - 999,999 When <i>MultiLegReportingType[442] = 2</i> , this field represents the leg level quantity.	Yes	Yes

					10	an
Tag	Field Name	Data Type	Req'd	Values	Arca Options	America Options
FIX-167	SecurityType	String[4]	Υ	Identifies type of Options Instrument	A 0	4 0
11/1 107	SecurityType	301118[4]	<u> </u>	OPT = Single leg Option	OPT	ОРТ
				MLEG = Complex Option	MLEG	MLEG
				INILEG – Complex Option	IVILLEG	IVILEG
				Value is 'MLEG' when MultiLegReportingType[442] = 2 or 3.		
FIX-200	MaturityMont	String[6]	Υ	Month and year of maturity. Part of Options series	Yes	Yes
	hYear			identifier		
				YYYYMM		
				Not provided when MultiLegReportingType[442] = 3.		
FIX-201	PutOrCall	Char[1]	Υ	Put or Call indicator. Part of Options series identifier		
				0 = Put	0	0
				1 = Call	1	1
				Not provided when MultiLegReportingType[442] = 3.		
FIX-202	StrikePrice	Price[16]	Υ	Strike price of the option. Part of Options series	Yes	Yes
				identifier		
				0.000001 - 999,999,999.99999		
			_	Not provided when MultiLegReportingType[442] = 3.		
FIX-203	CoveredOrUnc	Char[1]	С	Identifies the Exposed and Covered Side of each		
	overed			order in the Cross	_	_
				E = Exposed	E	E
		61 513		C = Covered	С	С
FIX-204	CustomerOrFir	Char[1]	Υ	Capacity of the order		
	m			0 = Customer	0	0
				1 = Firm	1	1
				2 = Broker	2	2
				3 = Market Maker	3	3
				4 = Away Market Maker	4	4
FIX-205	MaturityDay	Ctring[2]	Υ	8 = Prof customer Maturity day. Part of Options series identifier.	8	8 Yes
FIX-205	MaturityDay	String[2]	Y	DD	Yes	res
				Not provided when <i>MultiLegReportingType[442] = 3</i> .		
FIX-378	ExecRestatem	Char[1]	С	1 = GTC renewal/restatement	1	1
	entReason	5[=]		3 = Repricing	3	3
FIX-382	NoContraBrok	Char[1]	С	Number of Contra Brokers	1	1
	ers					
→ Repeat	ing group	1	1		1	1
	ker[375] is the firs	t tag in this re	epeating	group.		
→ FIX-375	ContraBroker	String[5]	С	Contra party clearing number of CMTA	Yes	Yes
		61 1 1 2		6		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
→ FIX-337	ContraTrader	String[4]	С	Contra party Firm Identifier - MPID	Yes	Yes
ΓΙΛ- 3 3/						
FIX-386	NoTradingSess	Int[1]	Υ	1	1	1
	ions					
	1					

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
→ FIX-336	TradingSession ID	Char[1]	Υ	1 = Early Trading Session 2 = Core Trading Session 3 = Late Trading Session 4 = Early & Core Trading Sessions	2	2
				5 = Core & Late Trading Sessions 6 = Early, Core, & Late Trading Sessions		
				Note: for symbols trading on NYSE, all values that include Core designation (Core, Early/Core, Core/Late, and Early/Core/Late) will be allowed, if the order type supports the combination on other Pillar markets. However, for each of those values, Pillar will honor the applicable trading sessions included in the instruction based on Tape (B/C symbols - Early and Core; A symbols - Core only), and ignore the other trading sessions specified in the instruction (Tape B/C symbols - Late; Tape A symbols		
FIX-439	ClearingFirm	String[5]	N	- Early and Late) Clearing number of CMTA.	Yes	Yes
				Numeric characters only, no preceding zeros.		
FIX-440	ClearingAccou nt	String[5]	N	Clearing number, if other than the default Clearing Number for the MPID. If not specified, the default clearing number associated with the MPID will be sent back on response messages. Numeric characters only, no preceding zeros.	Yes	Yes
FIX-442	MultilegRepor tingType	Char[1]	С	Indicates the type of Execution Report. (e.g.: used with multi-leg securities, such as option strategies, spreads, etc.).		
				 1 = Single-leg security 2 = Individual leg of a multi-leg security 3 = Multi-leg security Not provided in invalid symbol reject messages. 	1 2 3	1 2 3
FIX-526	OptionalData	String[16]	N	Clearing Optional Data Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes
FIX-548	CrossID	String[20]	С	Unique ID of the Cross as assigned by the firm. Pillar will validate that the <i>CrossID</i> is unique for the combination of <i>SenderCompID</i> + <i>OnBehalfOfCompID</i> (MPID) that entered the order, among open orders	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				only. However, the firm is responsible for ensuring that the <i>CrossID</i> provided is unique among all orders sent for the full length of the trading day by the given <i>SenderCompID</i> + MPID.		
				Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.		
FIX-654	LegRefID	Int[10]	С	Unique ID of the individual leg of the new Complex Order or Complex Cancel/Replace request as assigned by the firm.	Yes	Yes
FIX-7928	SelfTradeType	Char[1]	N	Only provided when <i>MultiLegReportingType</i> [442] = 2. 0 (number 0) = Use current Session Configuration STP	0	0
111/1/328	SentradeType	Char[1]		setting for the SenderCompID*		
				T = No Self Trade Prevention	T	T
				N = Cancel Newest	N	N
				O (letter O) = Cancel Oldest	0	0
				C = Cancel Both D = Cancel Decrement	С	С
				*If 0 is specified, the explicit value (T,N,O,C,D) configured for the session will be sent back on response messages.		
FIX-9202	SpecialOrdTyp e	Char[1]	С	1 = DMM Open/Re-open/Close with or without Auction (AOC) - drop copy only 2 = DMM Pre-auction - drop copy only 3 = DMM After-auction - drop copy only 9 = Cabinet		
				C = Customer to Customer Cross	С	С
				P = CUBE Price Improvement Q = QCC S = AON CUBE T = QCT (<i>DeliverToCompID</i> must be populated with IB Firm Identifier)	Q	Q S
FIX-9303	RoutingInst	Char[1]	С	C = Complex Only (non-legging Complex Order) N = Non-routable R = Routable D = Directed (Primary Only) S = Directed + Routable (PO+S) 1 = Primary Market until 9:45 2 = Primary Market after 3:55 3 = BOTH Primary Market until 9:45 AND Primary Market after 3:55 8 = Minimum Fill (must be entered with MinQty tag populated with a non-zero value)	C N R	C N R

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-9416	ExtendedExecI nst	Char[1]	С	A = Add Liquidity Only (ALO) 0 = No trade against MPL 2 = No route to IOI 3 = No trade against MPL and no route to IOI 4 = Retail Order Type 1 5 = Retail Order Type 2 7 = Retail Provider 8 = Imbalance Offset C = Complex Order Auction 9 = Discretionary Peg D = Dark (Non-Displayed) Primary Peg I = Issuer Direct Offering (IDO) N = Add Liquidity Only (Non-Taking ALO)	8 C	8 C
FIX-9448	IntroducingBa dgeID	String[4]	С	Initiating Broker Badge, 1-4 numeric characters. Required on orders from NYSE Arca/American Options Floor Broker OMS to Pillar.	Yes	Yes
FIX-9483	DealID	String[20]	С	Unique identifier of a transaction, assigned by the Exchange to both Execution reports representing the two sides of a single trade. Numerical up to 20 characters. Busts - original <i>DealID</i> of the transaction that is being busted or corrected. Corrections - new <i>DealID</i> for the corrected transaction.	Yes	Yes
FIX-9730	LiquidityIndica tor	String[4]	С	On Order Acknowledgements: 1 = Candidate for setting a new displayed bid or offer on the local market 4 = Candidate for setting a new displayed bid or offer on the local market and joining the NBBO 5 = Candidate for setting a new displayed bid or offer on the local market and setting the NBBO Note: Order Priority Update Acks will only be populated with value 0 or 1. The value 1 will be returned when the original order ack was populated with 1, 4, or 5 On Partial Fills and Fills: See Appendix for Values.	Yes	Yes
FIX-20001	AttributedQuo te	Char[1]	N	0 = Not Attributed (equities) / Use current session configuration BOLD setting for the SenderCompID (options) 1 = Attributed for Market Data Feeds 2 = Include in Broker Volume		0

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				3 = Attributed for Market Data Feeds, and Include in Broker Volume 4 = BOLD - Expose order info only 5 = BOLD - Expose order info and Capacity only 6 = BOLD - Expose order info and Participant ID only		4 5 6
				7 = BOLD - Expose order info, Capacity and Participant ID 8 = Do not BOLD		7
FIX-20002	ProactiveIfLoc ked	Char[1]	N	0 = No locked functionality 1 = Proactive if Locked for routable orders 2 = Non-display remove liquidity for non-displayed orders locked by contraside ALOs	0	0
FIX-20003	CancelInstead OfReprice	Char[1]	N	0 = Not Applicable (follow default order behavior) 1 = Cancel order instead of repricing – for LULD only 2 = Cancel if doesn't set NBBO on arrival or if needs to reprice for LULD	0	0
				3 = Cancel order instead of repricing for any reason 4 = Once resting, allow to reprice once, then cancel instead of repricing 5 = Combination of value 2 and 3 6 = Combination of value 2 and 4	3 4	3 4
FIX-20004	WorkingPrice	Price[16]	С	0.01-9,999.99	Yes	Yes
FIX-20005	FlowIndicator	Char[1]	Y	Indicates whether a corresponding inbound message was throttled. For outgoing messages without a corresponding inbound message, the tag will default to 0.		
				0 = Inbound message was not throttled	0	0
FIX-20006	WorkingAway FromDisplay	Char[1]	С	1 = Inbound message was throttled On Order Acknowledgements, indicates whether the working price of the order is equal to or different than the display price.	1	1
				0 = Working Price is equal to Display Price	0	0
			_	1 = Working Price is different from Display Price	1	1
FIX-20007	UnsolicitedAck Type	Char[1]	С	On Order Priority Update Acknowledgements, indicates the type of event that produced the unsolicited Ack.		
				2 = Order Priority Update – New <i>OrderID</i> (reserve order replenishment)	2	2
FIX-20009	Nanosecond SendingTime	String[27]	Υ	Time of message transmission on outgoing message from Exchange.	Yes	Yes
				UTC time, in Nanoseconds – YYYYMMDD-HH:MM:SS.ssssssss		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				Note: this represents the same reference time as provided in the Standard FIX Header tag SendingTime[52], with more granular resolution.		
FIX-20010	Nanosecond TransactTime	String[27]	Υ	Exchange application time. UTC time, in Nanoseconds — YYYYMMDD-HH:MM:SS.sssssssss	Yes	Yes
EIV 20042	CultiDiadianta	Charles		Note: this represents the same reference time as provided in the standard FIX tag <i>TransactTime</i> [60], with more granular resolution.		
FIX-20013	SubIDIndicator	Char[1]	N	When populating both <code>OnBehalfOfSubID[116]</code> and <code>SelfTradeType[7928]</code> on an order, allows the firm to specify whether the <code>OnBehalfOfSubID</code> should be used or ignored for <code>Self-Trade Prevention</code> (STP) evaluation. See "Self-Trade Prevention" section of this spec for more details.		
				If also using Pillar Pre-trade Risk Controls, the OnBehalfOfSubID will be used for Risk Entity purposes regardless of the value specified in this field.		
				0 = for this order, use <i>OnBehalfOfSubID</i> (within the MPID) for STP evaluation 1 = for this order, ignore the <i>OnBehalfOfSubID</i> for STP	0	0
				(conduct STP evaluation at MPID level only)		
FIX-20014	GiveUpMarket Maker	String[4]	N	If not specified, will be assumed as a value of 0. Market Maker Identifier - MMID. If provided, the value will be used in place of FIX Tag 50.	Yes	Yes
FIX-20015	AllocationPct	String[2]	N	Percentage of allocation a single stop price Covered order is willing to surrender. Valid values are 0 - 100 pct. If the value provided results in a greater than standard allocation, then the max allowable quantity will be allocated. Field not applicable for QCC, Customer to Customer and CUBE orders defined as AutoMatch (market or		Yes
FIX-20016	ContraCustom erOrFirm	Char[1]	С	limit) or AON. Contra party capacity of the order 0 = Customer 1 = Firm 2 = Broker 3 = Market maker	0 1 2 3	0 1 2 3

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
J		, ,			Arca	Ame
				4 = Away Market Maker	4	4
				8 = Prof customer	8	8
FIX-20017	ContraClearing Account	String[5]	С	Contra party clearing number.	Yes	Yes
				Numeric characters only, no preceding zeros.		
FIX-20018	•	Char[1]	С	Contra party position in the Option		
	ose			O = Open	0	0
FIX-20019	ContraMarket	String[5]	С	C = Close Contra party MMID	C Yes	C Yes
FIX-20019	Maker	String[3]		Contra party whynib	163	165
FIX-20020	ContraCrossTy	Char[1]	N	Contra party CrossType		
	pe			C = Customer to Customer Cross	С	С
				P = CUBE Price Improvement		Р
				Q = QCC	Q	Q
FIX-20021	ContraCovere	Char[1]	N	S = AON CUBE		S
FIX-20021	dOrUncovered	Char[1]	IN	Identifies the Exposed or Covered Side when the contra side was Cross		
	doroncovered			E = Exposed	Е	E
				C = Covered	C	C
FIX-20025	TargetCancelS enderCompID	Char[32]	N	May be sent on Bulk Cancel Ack.	Yes	Yes
	- C. G.			Optional - at least one of TargetCancelSenderCompID		
				or TargetCancelMPID must be specified.		
				May be populated with the SenderCompID of the		
				session sending this Bulk Cancel Request.		
				If populated, only orders originally entered via this		
				SenderCompID will be cancelled.		
FIX-20026	TargetCancel MPID	Char[4]	N	May be sent on Bulk Cancel Ack.	Yes	Yes
				Optional - at least one of TargetCancelSenderCompID		
				or TargetCancelMPID must be specified.		
				May be populated with a valid MPID entitled for use		
				on the session sending this Bulk Cancel Request.		
				If populated, only orders for the specified MPID will		
				be cancelled.		
				Firm Identifier – MPID.		
FIX-20027	BulkAction	Char[1]	Υ	Required for Bulk Cancel.		
				1 = Cancel Single Leg only	1	1
				2 = Cancel Complex only	2	2
				3 = Cancel both Single Leg and Complex	3	3

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-20041	AuctionID	String(20)	N	CUBE Auction identifier supplied by Pillar Market Data to allow GTX responses to target specific CUBE auctions. If provided on non-GTX responses, the order will be rejected.		Yes
FIX-30002	RefDealID	String[20]	С	Unique identifier of a transaction, assigned to both sides of a single trade. Numerical up to 20 characters.	Yes	Yes
FIX-30006	OriginalDealID	String[20]	С	For trade allocations, busts and corrections, identifier of the original open outcry trade. Used as the universal trade ID at OCC. Numerical up to 20 characters.	Yes	Yes
	Standard FIX Trailer		Υ	Standard FIX Trailer	Yes	Yes

5.11 Drop Copy

Drop copies of order activity transacted over the Pillar FIX Gateway are available via a separate FIX gateway interface. When ordering new FIX drop copy sessions, recipients may choose from the following configuration options.

- Market Participant Filters receive drop copies of activity filtered by one of the following criteria:
 - SenderCompID(s) a single or multiple order entry session SenderCompIDs
 - MPID(s) a single or multiple MPIDs
 - Clearing Number default clearing number for MPID or specified ClearingAccount[440] give-up (NYSE Arca & American Options), plus specified ClearingFirm[439] CMTA (NYSE Arca & American Options) for CMTA values known by the Exchange

Note: on a given execution, if *ClearingAccount*[440] and *ClearingFirm*[439] FIX tags are specified with different clearing numbers that map to the same clearing firm, a separate drop copy message will be generated for each value. If a single drop copy session is configured for both clearing numbers, both messages will go to that session. The combination of *DealID*[9483] + Side[54] may be used to compare such messages.

- MMID(s) a single or multiple MMIDs
- Order Activity Filters receive drop copies of outbound messages for either:
 - All order activity all Execution Reports (MsgType = 8) regardless of OrdStatus, and all Order Cancel Rejects (MsgType = 9)
 - Fills and Partial Fills only only Execution Reports (MsgType = 8) with OrdStatus = 1 (Partially Filled) and 2 (Filled)

Note - for Market Maker Quotes (NYSE Arca and American Options), only Fills and Partial Fills are available via drop copy, regardless of the filter selected above.

NYSE Arca/American Options - Post Trade Adjustment Messaging

Below table outlines the messages sent back on the Order Entry session and Drop Copy session as a result of various post trade adjustment events.

		Trade Cancel (Bust)	Trade Correction	Trade Re-add	Contractual Trade Split (Outcry only)	All Other Post Trade Adjustments (TOP)
Trade Date	Order Entry Session	Yes ^E	Yes ^E	Yes ^E	Yes ^E	No
	Drop Copy Session	Yes ^{E, A}	Yes ^{E, A}	Yes ^{E, A}	Yes ^{E, A}	Yes ^A
T+N	Order Entry Session	No	No	No	No	No
	Drop Copy Session	Yes ^A	Yes ^A	Yes ^A	Yes ^A	Yes ^A

E - applies exclusively to execution messages

Trade Cancel/Trade Correct messages - will only reflect price and or quantity changes of an execution, with all other details remaining the same as received on an initial execution report.

E, A - applies to execution and allocation messages

A - applies exclusively to allocation messages

Single sided "allocation" messages - key attributes for identifying these messages are as follows:

- AllocationFlag[30003] = Y
- OriginalDealID[30006] = the DealID reported to OCC for all components of the execution
- For outcry trades where *LiquidityIndicator*[9730] is ZOC or ZOS, the allocation messages will contain the clearing information that goes to OCC. For all other executions, the execution message will contain the clearing information that goes to OCC.
- For post trade adjustments made to any executions, drop copy recipients will receive allocation messages (cancel followed by new), to match up with the way changes are communicated to OCC. Based on the terms that were changed, a new allocation message may not be received by the same user that received a cancel at the allocation level (e.g., if firm was changed).
 - o Initial post trade adjustment performed on a trade *ExecRefID[19*] of the allocation cancel refers to the corresponding trade.
 - Subsequent adjustments ExecRefID[19] of the allocation cancel refers to the prior allocation in the chain.
- Firms are advised to ignore the values in the following tags on allocation messages CumQty[14], OrdStatus[39], ExecType[150], LeavesQty[151]
- If a trade has a correction to price and/or quantity, a correction message will be received at the execution level, with cancel followed by new messages at the allocation level. Based on the terms that were changed, a new allocation message may not be received by the same drop copy recipients that received a cancel message at the allocation level (e.g.: quantity was reduced).

Open Outcry - NYSE Arca/NYSE American Options Trading Floor

- Allocations to Third Party if the Initiating Broker allocates either side of a trade to a third party via the FIX
 Gateway or NYSE Pillar Trade Ops Portal, allocation fill messages for both sides will be sent exclusively to FIX
 Drop Copy, after the third-party approval has been entered via the Trade Ops Portal. Allocation fill messages will
 not be sent back to the OMS order entry session, even if the Initiating Broker remains on one side.
- AllocationIndicator[30003] = Y will distinguish an Allocation from an original execution via FIX Drop Copy.
- OrigDealID[30006] on allocations, busts, and corrections will be populated with the DealID of the corresponding trade.
- For firms interested in correlating trades and allocations with the original open outcry order, if *OrigClOrdID[41]* is present on the drop copy message, this tag will refer back to the *ClOrdID[11]* of the open outcry order. If tag 41 is not present, *ClOrdID[11]* on drop copy will refer back to the open outcry order.

Y	MsgType[35] = 8	Yes	V
			Yes
N	Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. For NYSE Arca & NYSE American Options - up to 16	Yes	Yes
		comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. For NYSE Arca & NYSE American Options - up to 16

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				messages, but will be truncated to the first 10 characters to clearing, end of day output files, etc.		
FIX-11	ClOrdID	String[20]	Y	Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the Firm. Pillar will validate that the ClOrdID is unique for the combination of SenderCompID + OnBehalfOfCompID (MPID) that entered the order, among open orders only. However, the Firm is responsible for ensuring that the ClOrdID provided is unique among all orders sent for the full length of the trading day by the given SenderCompID + MPID. Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark. When MultiLegReportingType[442] = 2 or 3, this field represents the ClOrdID value for the entire Complex order.	Yes	Yes
FIX-14	CumQty	Qty[9]	С	0 - 999,999	Yes	Yes
FIX-17	ExecID	String[32]	Y	Unique identifier of the outgoing FIX message, assigned by the Exchange to all FIX MsgType 8. Up to 32 characters.	Yes	Yes
FIX-18	ExecInst	Char[1]	С	d = Tracking Order f = ISO B = OK to Cross E = DNI F = DNR G = All or None R = Primary Peg P = Market Peg M = MPL (Midpoint Liquidity) N = Non-displayed (Retail Price Improvement and Limit-Non Displayed orders) y = Trade-at ISO L = Last Sale Peg v = Stock-Option/Stock-Future Contingent (only present on outbound drop copy messages)	f	f
FIX-19	ExecRefID	String[32]	С	Contains the ExecID[17] value of the Fill that is busted or corrected. Up to 32 characters.	Yes	Yes

						_
Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-20	ExecTransType	Char[1]	Υ	0 = New (ack, pending cancel, pending replace,	0 A	0 A
FIX-20	Exectianstype	Cilai[1]	'	partial fill, fill, order reject)	0	
				1 = Cancel (Trade Break Only)	1	1
				2 = Correct (Trade Correction Only)	2	2
FIX-30	LastMkt	String[4]	С	On fills and partial fills, Market Identifier Code (MIC)		
				of the sending Exchange (regardless of local or away		
				market execution).		
				AMXO = NYSE American Options	4000	AMXO
FIV 21	LoctDv	Drico[16]	С	ARCO = NYSE Arca Options	ARCO	Voc
FIX-31	LastPx	Price[16]	L .	Price of current partial fill or fill message (set to 0 on all non-fills).	Yes	Yes
				all floti-fills).		
				0 - 9,999.99		
				Cabinet is 0.00000001 - 0.01		
FIX-32	LastQty	Qty[9]	С	Quantity of current partial fill or fill message (set to	Yes	Yes
				0 on all non-fills).		
				Quantity of current partial fill or fill of the leg when		
				MultiLegReportingType[442] = 2.		
FIV. 2.7	0 1 10	Ct : [20]		0 - 999,999	.,	.,
FIX-37	OrderID	String[20]	С	Unique identifier of most recent order as assigned	Yes	Yes
				by the Exchange. Published externally to market data feeds.		
				data leeds.		
				Numerical up to 20 characters.		
FIX-38	OrderQty	Qty[9]	Υ	1 - 999,999	Yes	Yes
				Reserve Replenishment (tag 20007 = 2) - represents		
				the displayed quantity.		
				Repricing (tag 150 = D and tag 378 = 3) - represents		
				the leaves quantity of the order.		
FIX-39	OrdStatus	Char[1]	Υ	Status of the order:		
				0 = New	0	0
				1 = Partially Filled	1	1
				2 = Filled	2	2
				3 = Done For Day	3	3
				4 = Cancelled	4	4
				5 = Replaced	5	5
				6 = Pending Cancel 8 = Rejected	6 8	6 8
				C = Billable Cancel (Self Trade Prevention)		
				E = Pending Replace	E	Е
				G = Pillar OMS Allocation Pending	G	G
				H = Pillar OMS Allocation Reject	Н	Н
				J = Pillar OMS Trade Reject	J	J
				K = OMS Allocation Request	K	K
				M = Pending Modify	M	M
				N = Broker Open Outcry Announcement	N	N

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				P = Trading Official Open Outcry Approval - clear the	Р	Р
				book required Q = Trading Official Open Outcry Approval - clear the book NOT required	Q	Q
				S = Trading Official Open Outcry Unapproval	S	S
				T = OMS Trade Request	Т	Т
				U = FLEX Price Request	U	U
				V = FLEX Price Reject	V	V
				W = Trading Official Open Outcry Unannouncement	W	W
				X = Trading Official Open Outcry Unannouncement	Χ	Х
FIV. 40	OudTon -	Ch - v[4]		& Unapproval	1	1
FIX-40	OrdType	Char[1]	Υ	1 = Market 2 = Limit	1	1
				3 = Stop	2	2
				4 = Stop Limit		
				7 = Inside Limit		
				9 = AutoMatch Limit		9
				P = Pegged		
FIX-41	OrigClOrdID	String[20]	С	Returned from Order Cancel or Cancel/Replace	Yes	Yes
				Request.		
				Represents the <i>ClOrdID</i> of the previously entered		
				order intended for cancellation or replacement		
				(NOT necessarily the initial order of the day).		
				Contains defined on to 20 sharestons only		
				Customer defined up to 20 characters; only		
				printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol,		
				greater than/less than, ampersand (&) and		
				single/double quotation mark.		
				Single/ double quotation mark.		
				When MultiLegReportingType[442] = 2 or 3, this		
				field represents the <i>ClOrdID</i> value for the entire		
				Complex order previously entered for cancellation		
				or replacement.		
	<u> </u>			For Floor OMS, ClOrdID of the open outcry order.		
FIX-44	Price	Price[16]	С	0.01 - 9,999.99	Yes	Yes
				Cabinet is 0.00000001 - 0.01		
				When MultiLegReportingType[442] = 2 or 3, Net		
				Limit price of the order - can be positive, negative or		
				zero. A positive value indicates Customer is paying		
				(net debit); a negative value indicates Customer is		
				receiving (net credit). Zero is even.		
				(-214,748.36 - 214,748.36)		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	merican ptions
				Required when <i>OrdType[40] = 2</i> . Not required or	Ā O	₹ O
				must be populated with 0 when		
FIX-54	Side	Char[1]	С	PercentagePrice[20031] is populated. 1 = Buy	1	1
FIX-34	Side	Cilai[1]	C	2 = Sell	2	
				5 = Sell Short	_	
				6 = Sell Short Exempt		
				8 = Cross		
				9 = Cross Short		
				A = Cross Short Exempt		
				Not provided when <i>MultiLegReportingType[442] = 3</i> .		
FIX-55	Symbol	String[16]	С	Valid Options OSI Root symbol.	Yes	Yes
				Not provided when Multil as Penerting Type (442) = 2		
FIX-58	Text	String[40]	N	Not provided when <i>MultiLegReportingType</i> [442] = 3. On Incoming Messages from Firm: Freeform text	Yes	Yes
30	T CAC	5tmg[10]		field, up to 80 characters; only printable ASCII		103
				characters allowed, excluding comma, semicolon,		
				pipe delimiter, "at" symbol, greater than/less than,		
			ampersand (&) and single/double quotation mark.			
				However, will not be passed back in Acknowledgments or any subsequent response		1 2
				messages.		
				messages.		
				On Outgoing Messages from Exchange: Reason code		
				and text description for order activity, up to 40		
				characters. For example, reason for cancel/cancel-		
FIX-59	TimeinForce	Char[1]	Υ	replace rejection. 0 = Day	0	0
LIV-23	Timemirorce	Char[1]	I	1 = GTC	1	
				2 = At the Opening	2	
				3 = IOC	3	3
				4 = FOK	_	_
				5 = GTX 6 = GTD	5	5
				7 = On Close		
FIX-60	TransactTime	UTC	N	On Incoming Messages from Firm: Customer	Yes	Yes
		Timestam		application time.		
		p [27]				
				On Outgoing Message from Exchange: Exchange		
				application time.		
				UTC time, in Milliseconds		
				YYYYMMDD-HH:MM:SS.mmm		
FIX-77	OpenClose	Char[1]	Υ	Indicates status of Client's position in the Option.		
				For Complex orders, only populated when		
				MultiLegReportingType[442] = 3. O = Open	0	0
	1		<u> </u>	O - Open	U	

						L
Tag	Field Name	Data Type	Req'd	Values	Arca Options	Americar Options
				C = Close	С	С
FIX-99	StopPx	Price[16]	С	Trigger price for Stop or Stop limit order. 0.01 - 9,999.99	Yes	Yes
FIX-109	ClientID	String[4]	N	For firms using ClientID based Self-Trade Prevention as a session default, this tag will be sent unsolicited on messages from the Exchange to the firm.	Yes	Yes
FIX-110	MinQty	Qty[5]	N	Must be ≤ OrderQty	Yes	Yes
FIX-111	MaxFloor	Qty[5]	С	1 - 999,999	Yes	Yes
FIX-150	ЕхесТуре	Char[1]	Y	0 = New 1 = Partially Filled 2 = Filled 3 = Done For Day 4 = Cancelled 5 = Replaced 6 = Pending Cancel 8 = Rejected C = Billable Cancel (Self Trade Prevention) D = Restatement E = Pending Cancel/Replace G = Pillar OMS Allocation Pending H = Pillar OMS Allocation Reject J = Pillar OMS Trade Reject K = OMS Allocation Request L = Eligible for Cross (Used for Broker Cross Orders) M = Pending Modify N = Broker Open Outcry Announcement P = Trading Official Open Outcry Approval - clear the book required Q = Trading Official Open Outcry Unapproval T = OMS Trade Request U = FLEX Price Request V = FLEX Price Reject W = Trading Official Open Outcry Unannouncement X = Unannounced Trading Official Open Outcry Unannouncement & UnapprovedUnapproval	0 1 2 3 4 5 6 8 D E G H J K M N P Q S T U V W X X X X X X X X X X X X X X X X X X	0 1 2 3 4 5 6 8 D E G H J K M N P Q S T U V W X X X X X X X X X X X X X X X X X X
FIX-151	LeavesQty	Qty[9]	С	0 - 999,999	Yes	Yes
FIX-167	SecurityType	String[4]	Y	Identifies type of Options Instrument OPT = Single leg Option MLEG = Complex Option Value is 'MLEG' when MultiLegReportingType[442] = 2 or 3.	OPT MLEG	OPT MLEG

Too	Field Name	Data Tura	Dow'd	Values	SL	can 1s
Tag	Field Name	Data Type	Req'd	Values	Arca Options	Americar Options
FIX-200	MaturityMont hYear	String[6]	Y	Month and year of maturity. Part of Options series identifier YYYYMM Not provided when MultiLegReportingType[442] = 3.	Yes	Yes
FIX-201	PutOrCall	Char[1]	Υ	Put or Call indicator. Part of Options series identifier 0 = Put 1 = Call Not provided when MultiLegReportingType[442] = 3.	0	0
FIX-202	StrikePrice	Price[16]	Υ	Strike price of the option. Part of Options series identifier 0 - 999,999,999,999999 Note: The value must be 0 when PercentageStrike[20030] is populated. Not provided when MultiLegReportingType[442] = 3.	Yes	Yes
FIX-203	CoveredOrUnc overed	Char[1]	С	Identifies the Exposed and Covered Side of each order in the Cross E = Exposed C = Covered	E C	E C
FIX-204	CustomerOrFir m	Char[1]	Υ	Capacity of the order 0 = Customer 1 = Firm 2 = Broker 3 = Market Maker 4 = Away Market Maker 8 = Prof customer	0 1 2 3 4 8	0 1 2 3 4 8
FIX-205	MaturityDay	String[2]	Y	Maturity day. Part of Options series identifier DD Not provided when MultiLegReportingType[442] = 3.	Yes	Yes
FIX-277	TradeConditio n	Char[1]	С	e = Single Leg Floor Trade i = Complex Order to Complex Order Floor Trade m = Complex Order to Single Leg Order Floor Trade p = Complex Order with Stock to Complex Order with Stock Floor Trade s = Complex Order with Stock to Single Leg Order Floor Trade	e i m p	e i m p
FIX-378	ExecRestatem entReason	Char[1]	С	1 = GTC renewal/restatement 3 = Repricing	1 3	1 3
FIX-382	NoContraBrok ers	Char[1]	С	Number of Contra Brokers	1	1
→ Repeat	ing group ker[375] is the firs	t tag in this re	epeating	group.	I	l
→ FIX-375	ContraBroker	String[5]	С	Contra party clearing number of CMTA	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
→ FIX-337	ContraTrader	String[4]	С	Contra party Firm Identifier - MPID	Yes	Yes
FIX-386	NoTradingSess ions	Int[1]	Υ	1	1	1
→ FIX-336	TradingSession ID	Char[1]	Y	1 = Early Trading Session 2 = Core Trading Session 3 = Late Trading Session 4 = Early & Core Trading Sessions 5 = Core & Late Trading Sessions 6 = Early, Core, & Late Trading Sessions Note: for symbols trading on NYSE, all values that include Core designation (Core, Early/Core, Core/Late, and Early/Core/Late) will be allowed, if the order type supports the combination on other Pillar markets. However, for each of those values, Pillar will honor the applicable trading sessions included in the instruction based on Tape (B/C symbols - Early and Core; A symbols - Core only), and ignore the other trading sessions specified in the instruction (Tape B/C symbols - Late; Tape A symbols - Early and Late)	2	2
FIX-439	ClearingFirm	String[5]	N	Clearing number of CMTA. Numeric characters only, no preceding zeros.	Yes	Yes
FIX-440	ClearingAccou nt	String[5]	N	Clearing number, if other than the default Clearing Number for the MPID. If not specified, the default clearing number associated with the MPID will be sent back on response messages. Numeric characters only, no preceding zeros.	Yes	Yes
FIX-442	MultilegRepor tingType	Char[1]	Y	Indicates the type of Execution Report. (e.g.: used with multi-leg securities, such as option strategies, spreads, etc.). 1 = Single-leg security 2 = Individual leg of a multi-leg security 3 = Multi-leg security	1 2 3	1 2 3
FIX-526	OptionalData	String[16]	N	Clearing Optional Data. Customer defined up to 16 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
EIV E 40	CrossID	String[20]		Unique ID of the Cross as assigned by the firm		` `
FIX-548	CrossID	String[20]	С	Unique ID of the Cross as assigned by the firm. Pillar will validate that the <i>CrossID</i> is unique for the combination of <i>SenderCompID + OnBehalfOfCompID</i> (MPID) that entered the order, among open orders only. However, the firm is responsible for ensuring that the <i>CrossID</i> provided is unique among all orders sent for the full length of the trading day by the given <i>SenderCompID + MPID</i> .	Yes	Yes
			Customer defined up to 20 characters; only printable ASCII characters allowed, excluding comma, semicolon, pipe delimiter, "at" symbol, greater than/less than, ampersand (&) and single/double quotation mark.			
FIX-654 LegRefI	LegRefID	Int[10]	С	Unique ID of the individual leg of the new Complex Order or Complex Cancel/Replace request as assigned by the firm.	Yes	Yes
				Only provided when <i>MultiLegReportingType[442]</i> = 2.		
FIX-7928	FIX-7928 SelfTradeType Char[1	Char[1]	N	0 (number 0) = Use current Session Configuration STP setting for the SenderCompID*	0	0
				T = No Self Trade Prevention	Т	Т
				N = Cancel Newest	N	N
				O (letter O) = Cancel Oldest	0	0
				C = Cancel Both D = Cancel Decrement	С	С
				*If 0 is specified, the explicit value (T,N,O,C,D)		
İ				configured for the session will be sent back on		
				response messages.		
FIX-7929	CapStrategyID	String[4]	N	Strategy Execution Fee cap identifier, as agreed	Yes	Yes
				upon between firms and Exchange.		
FIX-9202	SpecialOrdTyp e	Char[1]	С	1 = DMM Open/Re-open/Close with or without Auction (AOC) - drop copy only 2 = DMM Pre-auction - drop copy only 3 = DMM After-auction - drop copy only		
				9 = Cabinet	9	9
				C = Customer to Customer Cross	С	С
				P = CUBE Price Improvement		Р
				Q = QCC	Q	Q
				S = AON CUBE T = QCT (<i>DeliverToCompID</i> must be populated with IB Firm Identifier)		S
FIX-9303	RoutingInst	Char[1]	С	C = Complex Only (non-legging Complex Order)	С	С
				N = Non-routable	N	N
				R = Routable	R	R

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
					Arca Opti	Ame
				D = Directed (Primary Only)		
				S = Directed + Routable (PO+S)		
				1 = Primary Market until 9:45		
				2 = Primary Market after 3:55		
				3 = BOTH Primary Market until 9:45 AND Primary		
				Market after 3:55		
				8 = Minimum Fill (must be entered with <i>MinQty</i> tag		
				populated with a non-zero value)		
FIX-9416	ExtendedExecl	Char[1]	С	A = Add Liquidity Only (ALO)		
	nst			0 = No trade against MPL		
				2 = No route to IOI		
				3 = No trade against MPL and no route to IOI		
				4 = Retail Order Type 1		
				5 = Retail Order Type 2		
				7 = Retail Provider		_
				8 = Imbalance Offset	8	8
				C = Complex Order Auction		
				9 = Discretionary Peg		
				D = Dark (Non-Displayed) Primary Peg		
				I = Issuer Direct Offering (IDO)		
				N = Add Liquidity Only (Non-Taking ALO)	N O	
				O = Open Outcry B = Clear the Book	B	_
FIX-9448	IntroducingBa	String[4]	С	Initiating Broker Badge, 1-4 numeric characters.	Yes	<u> </u>
11X-2440	dgeID	Julig[4]		initiating broker bauge, 1-4 numeric characters.	163	163
	ageib			Required on orders from NYSE Arca/American		
				Options Floor Broker OMS to Pillar.		
FIX-9478	InterestType	Char[1]	С	Q = Q-Order		
		0[_]		1 = Options MMQuote - Drop copy only	1	1
FIX-9483	DealID	String[20]	С	Unique identifier of a transaction, assigned by the	Yes	
		Ot 1		Exchange to both Execution reports representing		
				the two sides of a single trade.		
				Numerical up to 20 characters.		
				Busts - original <i>DealID</i> of the transaction that is being busted or corrected.		8 O B Yes 1 Yes
				Corrections - new <i>DealID</i> for the corrected		
				transaction.		
FIX-9730	LiquidityIndica	String[4]	С	On Order Acknowledgements:	Yes	Yes
	tor	0. 1		1 = Candidate for setting a new displayed bid or		
				offer on the local market		
				4 = Candidate for setting a new displayed bid or		
				offer on the local market and joining the NBBO		O B Yes
				5 = Candidate for setting a new displayed bid or		
		1	1	offer on the local market and setting the NBBO		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				Note: Order Priority Update Acks will only be populated with value 0 or 1. The value 1 will be returned when the original order ack was populated with 1, 4, or 5		
				On Partial Fills and Fills: See Appendix for Values.		
FIX-20001	AttributedQuo te	Char[1]	N	0 = Not Attributed (equities) / Use current session configuration BOLD setting for the SenderCompID (options) 1 = Attributed for Market Data Feeds 2 = Include in Broker Volume 3 = Attributed for Market Data Feeds, and Include in Broker Volume		0
				4 = BOLD - Expose order info only 5 = BOLD - Expose order info and Capacity only 6 = BOLD - Expose order info and Participant ID only 7 = BOLD - Expose order info, Capacity and Participant ID 8 = Do not BOLD		4 5 6 7
FIX-20002	ProactivelfLoc ked	Char[1]	N	0 = No locked functionality 1 = Proactive if Locked for routable orders 2 = Non-display remove liquidity for non-displayed orders locked by contraside ALOs	0	0
FIX-20003	CancelInstead OfReprice	Char[1]	N	0 = Not Applicable (follow default order behavior) 1 = Cancel order instead of repricing – for LULD only 2 = Cancel if doesn't set NBBO on arrival or if needs to reprice for LULD	0	0
				3 = Cancel order instead of repricing for any reason 4 = Once resting, allow to reprice once, then cancel instead of repricing 5 = Combination of value 2 and 3 6 = Combination of value 2 and 4	3 4	3 4
FIX-20004	WorkingPrice	Price[16]	С	0.01 - 9,999.99 Cabinet is 0.00000001 - 0.01	Yes	Yes
FIX-20005	FlowIndicator	Char[1]	Y	Indicates whether a corresponding inbound message was throttled. For outgoing messages without a corresponding inbound message, the tag will default to 0.		
				0 = Inbound message was not throttled	0	0
FIX-20006	WorkingAway FromDisplay	Char[1]	С	1 = Inbound message was throttled On Order Acknowledgements, indicates whether the working price of the order is equal to or different than the display price.	1	1
				0 = Working Price is equal to Display Price	0	0

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
				1 = Working Price is different from Display Price	1	1
FIX-20007	UnsolicitedAck Type	Char[1]	С	On Order Priority Update Acknowledgements, indicates the type of event that produced the unsolicited Ack.		
				2 = Order Priority Update – New <i>OrderID</i> (reserve order replenishment)	2	2
FIX-20009	Nanosecond SendingTime	String[27]	Υ	Time of message transmission on outgoing message from Exchange.	Yes	Yes
				UTC time, in Nanoseconds –		
				YYYYMMDD-HH:MM:SS.ssssssss		
				Note: this represents the same reference time as provided in the Standard FIX Header tag SendingTime[52], with more granular resolution.		
FIX-20010	Nanosecond TransactTime	String[27]	Υ	Exchange application time.	Yes	Yes
				UTC time, in Nanoseconds –		
				YYYYMMDD-HH:MM:SS.sssssssss Note: this represents the same reference time as		
				provided in the standard FIX tag <i>TransactTime</i> [60], with more granular resolution.		
FIX-20013	SubIDIndicator	Char[1]	N	When populating both OnBehalfOfSubID[116] and SelfTradeType[7928] on an order, allows the firm to specify whether the OnBehalfOfSubID should be used or ignored for Self-Trade Prevention (STP) evaluation. See "Self-Trade Prevention" section of this spec for more details.		
				If also using Pillar Pre-trade Risk Controls, the OnBehalfOfSubID will be used for Risk Entity purposes regardless of the value specified in this field.		
				0 = for this order, use <i>OnBehalfOfSubID</i> (within the MPID) for STP evaluation	0	0
				1 = for this order, ignore the <i>OnBehalfOfSubID</i> for STP (conduct STP evaluation at MPID level only)	1	1
=n/:		0.1.5.3		If not specified, will be assumed as a value of 0.		,,
FIX-20014	GiveUpMarket Maker	String[4]	N	Market Maker Identifier - MMID. If provided, the value will be used in place of FIX Tag 50.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	a ions	American Options
					Arca Options	Ame
FIX-20015	AllocationPct	String[2]	N	Percentage of allocation a single stop price Covered order is willing to surrender.		Yes
				Valid values are 0 - 100 pct. If the value provided results in a greater than		
				standard allocation, then the max allowable quantity will be allocated.		
				Field not applicable for QCC, Customer to Customer and CUBE orders defined as AutoMatch (market or limit) or AON.		
FIX-20016	ContraCustom	Char[1]	С	Contra party capacity of the order		
	erOrFirm			0 = Customer	0	0
				1 = Firm	1	1
				2 = Broker	2	2
				3 = Market maker	3	3
				4 = Away Market Maker	4	4
				8 = Prof customer	8	8
FIX-20017	ContraClearing Account	String[5]	С	Contra party clearing number.	Yes	Yes
				Numeric characters only, no preceding zeros.		
FIX-20018	ContraOpenCl	Char[1]	С	Contra party position in the Option		
	ose			O = Open	0	0
				C = Close	С	С
FIX-20019	ContraMarket Maker	String[5]	С	Contra party MMID	Yes	Yes
FIX-20020	ContraCrossTy	Char[1]	N	Contra party CrossType		
	pe			C = Customer to Customer Cross	С	С
				P = CUBE Price Improvement		Р
				Q = QCC	Q	Q
				S = AON CUBE		S
FIX-20021	ContraCovere dOrUncovered	Char[1]	N	Identifies the Exposed or Covered Side when the contra side was Cross		
				E = Exposed	E	E
				C = Covered	С	С
FIX-20022	AllocationFirm	String[4]	N	Identifier of the allocated party - MPID.	Yes	Yes
	MPIID			May be populated with:		
				Initiating Broker MPID - for self-allocation. Broker		
				must specify self-allocation on at least one side of		
				every allocation pair. The MPID populated in this tag		
			1	must match the MPID specified in		
EIV 20022	Allocation	C+rin ~[4 2]	N	OnBehalfOfCompID[115].	Vac	Voc
FIX-20023	AllocationFirm MMID	String[12]	N	Identifier of the allocated party - MMID.	Yes	Yes
	טוועוועו			May be populated with: Third party MMID - allocation will be considered		
			1	pending until the third party approves the allocation		
				1		
		<u> </u>	1	via NYSE Pillar Trade Ops Portal.		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
					Arca Optik	Ame
FIX-20024	AllocationFirm IntroducingBa dgeID	String[4]	N	Identifier of the allocated party - Broker Badge. May be populated with: Third party Broker Badge - allocation will be considered pending until the third party approves the allocation via NYSE Pillar Trade Ops Portal.	Yes	Yes
FIX-20025	TargetCancelS enderCompID	Char[32]	N	May be sent on Bulk Cancel Ack. Optional - at least one of TargetCancelSenderCompID or TargetCancelMPID must be specified. May be populated with the SenderCompID of the session sending this Bulk Cancel Request. If populated, only orders originally entered via this SenderCompID will be cancelled.	Yes	Yes
FIX-20026	TargetCancel MPID	Char[4]	N	May be sent on Bulk Cancel Ack. Optional - at least one of TargetCancelSenderCompID or TargetCancelMPID must be specified. May be populated with a valid MPID entitled for use on the session sending this Bulk Cancel Request. If populated, only orders for the specified MPID will be cancelled. Firm Identifier – MPID.	Yes	Yes
FIX-20027	BulkAction PercentageStri	Char[1] Price[16]	Y	Required for Bulk Cancel. 1 = Cancel Single Leg only 2 = Cancel Complex only 3 = Cancel both Single Leg and Complex FLEX orders with percent of the underlying price	1 2 3 Yes	1 2 3 Yes
	ke		.,	represented as the Strike Price. 0.01 - 9,999.99		163
FIX-20031	PercentagePri ce	Price[16]	N	FLEX orders with percent of the underlying price represented as the Premium Price. 0.01 - 9,999.99	Yes	Yes
FIX-20032	TiedHedgeIndi cator	Char[1]	N	Y = order is a tied hedge N = order is NOT a tied hedge	Y N	Y N
FIX-20033	BestOfferQty	Qty[9]		Quantity the Initiating Broker would be obligated to satisfy if trading at the <i>BestOfferPrice</i> [20034]. 0 - 999,999 Not provided when <i>MultiLegReportingType</i> [442] = 3.	Yes	Yes

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-20034	BestOfferPrice	Price[16]		0.00000000 - 9,999.99	Yes	Yes
		al (1)		Not provided when MultiLegReportingType[442] = 3.		
FIX-20035	TiedToStock	Char[1]	N	Y = order is tied to stock	Y	Y
				N = order is NOT tied to stock	N	N
FIX-20037	RefDelta	Price[16]	С	Required if <i>TiedToStock[20035] = Y</i>	Yes	Yes
				Numeric only - decimal supported. May be positive or negative.		
FIX-20038	StockPrice	Price[16]	С	Required if <i>TiedToStock[20035] = Y</i>	Yes	Yes
				0.000000 - 999,999,999.999999		
FIX-20039	StockQty	Qty[9]	С	Required if <i>TiedToStock[20035] = Y</i>	Yes	Yes
				1 - 999,999,999		
FIX-20040	PackageLinkID	Int[10]	N	Unique ID of the single leg or complex Order or Cancel/Replace request, as assigned by the firm.	Yes	Yes
				This field is to be used to link orders together that		
				cannot be facilitated using the complex message		
				structure.		
				The ID should be the same for all orders and legs of the package.		
FIX-20043	ProtectedBest Bid	Price[16]	N	NBB price at the time of TO approval. 0 = no NBB	Yes	Yes
FIX-20044	ProtectedBest Offer	Price[16]	N	NBO price at the time of TO approval. 0 = no NBO	Yes	Yes
FIX-20045	ReferencePric e	Price[16]	N	Underlying Reference price used to calculate the trade price and/or strike price for Percentage FLEX.	Yes	Yes
				0.01 - 999,999,999.99		
FIX-30002	RefDealID	String[20]	С	Unique identifier of a transaction, assigned to both sides of a single trade.	Yes	Yes
				Numerical up to 20 characters.		
FIX-30003	AllocationIndic	Char[1]	С	Populated on allocations		
	ator			Y = Allocation message	Υ*	γ*
				*Present on drop copy messages for post-trade adjustment.		
FIX-30006	OriginalDealID	String[20]	С	For trade allocations, busts and corrections,	Yes	Yes
				identifier of the original open outcry trade. Used as the universal trade ID at OCC.		
				Numerical up to 20 characters.		

Tag	Field Name	Data Type	Req'd	Values	Arca Options	American Options
FIX-30016	RefExecTimest amp	UTC Timestam p [27]	С	Populated with the original Trading Official approval time for the associated open outcry order. Sent on Pending Allocation and Allocation Fill	Yes	Yes
	Standard FIX		Υ	messages for open outcry orders. Standard FIX Trailer	Yes	Yes
	Trailer		ī	Stallual u FIA Trailer	165	163

6. Appendix A: Liquidity Indicators

Pillar will populate the tag *LiquidityIndicator*[9730] on Execution Report fills. This value represents the conditions under which an order was executed and whether it added or removed liquidity from the Exchange order book. Billing rates are determined in part by this value.

A list of all Liquidity Indicators is available at the web link below:

https://www.nyse.com/publicdocs/nyse/NYSE Pillar Reason Codes and Liquidity Indicators.xlsx

7. Appendix B: Pillar Reason Codes

Pillar will return a set of event reason codes and descriptions in *Text[58]* on Execution Reports and Cancel Reject messages. These codes qualify the event that produced the message.

Format: Text[58] = 'Rxxx: Description'

A list of all Pillar Reason Codes is available at the web link below:

https://www.nyse.com/publicdocs/nyse/NYSE Pillar Reason Codes and Liquidity Indicators.xlsx

8. Appendix C: Order Types

An inventory of the options order types and modifiers available to firms via the Pillar FIX Gateway is available at: https://www.nyse.com/publicdocs/NYSE Pillar FIX Gateway Order Type Matrix.xlsx

9. Document Version History

Date	Spec Version #	Change Summary
6/27/2025	3.22	Added support for <i>OnBehalfOfSubID[116]</i> filter in Bulk Cancel Request message.
3/28/2025	3.21	Rebranded NYSE Chicago to NYSE Texas.
12/16/2024	3.20	Removal of the ratio restriction for CUBE and GTX orders.
6/17/2024	3.19	Drop Copy - updated price values for FLEX percentage orders and corrected available outcry related activity values for <i>OrderStatus</i> [39]. Added missing fields FIX Tags 20039, 20040, 20043, 20044 and 20045.
3/12/2024	3.18	Order type support now available:
		Arca Options - Single Leg and Complex Customer to Customer Cross
		American Options - Single Leg and Complex Customer to Customer Cross,
		Complex CUBE and Complex CUBE AON
11/3/2023	3.17	Order types pending rule approval:
		American Options - Customer to Customer Cross
		Appendix B - added Pillar Reason Code 329

Date	Spec Version #	Change Summary
10/2/2023	3.16	Order types pending rule approval: Arca Options - Single Leg and Complex Customer to Customer Cross American Options - Single Leg and Complex Customer to Customer Cross, Complex CUBE and Complex CUBE AON Appendix A: Addition of Outcry Liquidity Indicators
7/10/2023	3.15	Appendix A: Addition of MIAX Sapphire routing code
5/8/2023	3.14	Removed ExecInst[18] = N (Non-Displayed) as valid instruction Removed MinQty[110] as a valid instruction AllocationPct[20015] - updated description Appendix A: Addition of MEMX routing code Appendix B: R308 modified from 'COA Not Running' to 'Auction Not Running' Appendix B: Addition of reject codes: 311-328 NYSE Arca & American Options supported functionality to be available in September 2023 • Complex Price[44] support from -99,999.99 - 99,999.99 to -214,748.36 - 214,748.36 • SpecialOrdType[9202] - value "C" Customer to Customer Cross • LegRatioQty[623] support from a max of 65,535 to 999,999 for QCC orders • Removal of 3:1 ratio restriction for QCC orders • Updated Liquidity Indicators
2/10/2023	3.13	Self-Trade Prevention - added support for ClientID based STP. Execution Report & Drop Copy - added support for tag ClientID[109]. Execution Report & Drop Copy - ContraBroker[375] will be the anchor tag of the repeating group under NoContraBrokers[382]. Drop Copy - added support for Trade Re-add and Contractual Trade-split. NYSE American Options Updated Liquidity Indicators for NYSE American Options in support of CUBE and Market Makers. Removed Facilitating CUBE codes as Price Improvement CUBE will be available for all order sizes in NYSE American Options.
12/05/2022	3.12	Corrected repeating group structure where ContraBroker[375] tag appeared twice.
11/18/2022	3.11	ExecRefID[30002] - added to Execution Report. NYSE American Options - Removed ALO as a valid instruction.
9/15/2022	3.10	Execution Report - Identified that Done for Day messages are sent out 30 minutes following the late series close time.
8/10/2022	3.9	Trading Services - added section "Pillar Denial of Service Restrictions"
7/22/2022	3.8	Added the value range supported for LegRatioQty[623]

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7/6/2022	3.7	Added description to OrderQty and LastQty fields of Execution Report.
		Added a note under New Order Single section to inform the deferral of AON, FOK
		and MTS order types.
4/8/2022	3.6	Datatype of tag LegStrikePrice[612] corrected to be Price[16].
2/9/2022	3.5	GTC Restatement Messages - clarified that for options series expiration, Pillar will
		send an unsolicited cancel message (OrdStatus[39] = 4) at market close time.
		Datatype of tag LegStrikePrice[612] corrected to be Price[16].
12/16/2021	3.4	GTCIndicator filed removed from Pillar Market Data.
		LegRefID[654] - A value of 0 is not acceptable.
		New Cross Order - Support for <i>OrdType[40]</i> = 'Market' is removed for Arca Options
		due to removal of support for Market QCC order type.
11/3/2021	3.3	Data Types - Added explanation for Price[16].
		Data type for <i>LegStrikePrice</i> [612] updated from <i>Price</i> [12] to <i>Price</i> [16]. Valid values updated.
		Order Cancel Reject - removed tag SecurityType[167].
		Execution Report and Drop Copy - clarified that for repricing ack, OrderQty (38) will
		be populated with the leaves quantity of the order. For both reserve order
		replenishment and repricing acks, <i>OrdStatus[39]</i> = 0 (New) and <i>LeavesQty</i> = 0.
		Appendix B - added code 310.
9/24/2021	3.2	While mapping orders and executions to Pillar Market Data, GTCIndicator will
		always be 0.
		Added note to DeliverToCompID[128] to indicate that it is only supported for
		American Options DOMM and American Options PFOF.
		Drop Copy - added following tags - BestOfferQty[20033], BestOfferPrice[20034],
		RefExecTimestamp[30016]. Added details regarding ExecRefID[19] on allocation cancel messages.
		Support for 'Proactive trade non display' removed from <i>ProactiveIfLocked</i> [20002]
		field.
		Appendix A - clarified that liquidity code OL applies to all options market participants.
		Appendix B - added codes 307-309.
		Changed tag 442 in Execution report from 'Required' to 'Conditional'. Added text to
		indicate that the tag will not be populated for invalid symbol reject messages.
8/13/2021	3.1	UnsolicitedAck Type[20007] - removed value 3 (Order Priority Update; Same
		OrderID - working price update), since existing tag ExecRestatementReason[378]
		value 3 (Repricing) covers this use case.
		Updated ClearingFirm[439] and ClearingAccount[440] descriptions to clarify that only
		numeric characters are allowed and no preceding zeros allowed.
		Changed label of ContraMMID[20019] to be ContraMarketMaker, and
		GiveUpMMID[20014] to be GiveUpMarketMaker.
		Drop Copy - Open Outcry for NYSE Arca/NYSE American Options Trading Floor - for
		firms interested in correlating trades and allocations with the original open outcry
		order, if OrigClOrdID[41] is present on the drop copy message, this tag will refer back

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		to the ClOrdID[11] of the open outcry order. If tag 41 is not present, ClOrdID[11] on
		drop copy will refer back to the open outcry order.
7/16/2021	3.0	Equity related details removed.
		GTC Restatement Messages - clarification that at GTC load time, a prior day GTC order canceled overnight due to underlying corporate action, delisting, etc. will result in an unsolicited order reject. At market close, a GTC order cancelled due to series expiration will receive a Done for Day message.
		AuctionID tag added to New Order - Single, New Complex Order and Execution Report messages.
		Updated quantity (<i>OrderQty, LastQty, CumQty, MinQty, MaxFloor</i>), price (<i>Price, StopPx, LastPx, WorkingPrice</i>) and market (<i>LastMkt</i>) fields to Options specific values.
		OrderTypes[40] Stop and Stop Limit removed from valid values of Execution Report. Drop Copy - on allocation messages, firms are advised to ignore the values in the following tags - CumQty[14], OrdStatus[39], ExecType[150], LeavesQty[151]. New Drop Copy message section added.
		New Liquidity Indicators added to Appendix A.
		Appendix B - updated text for Pillar Reason Codes 238, 298, 299, 303; added codes
		304-306.
5/28/2021	2.2	Bulk Cancel Request Variant 2 - correction that if <i>Symbol</i> [55] is specified, it will cancel all series within the underlying symbol (not OSI root symbol). Added support for tag <i>SymbolSfx</i> [65].
		Removed support for electronic Cabinet orders.
		Cancel on Disconnect and Bulk Cancel - added note that Fill or Kill (FOK) and Open Outcry orders are excluded from cancellation.
		New Complex Cross Order - clarification that <i>ClOrdID[11]</i> must appear first on each
		side of the order.
		Appendix A - added support for liquidity indicators "OL" and "RBN"
		Appendix B - added Pillar Reason Codes 284-289 and 293-303. Updated text for codes
		20 and 80 to cover series in addition to symbol ("symbol/series")
4/26/2021	2.1	New Pillar Reason Codes added to Appendix B.
		NYSE Arca and American Options:
		- Removed the support for Market and AON complex orders
		 Updated the datatype of tag LegRefID from String[10]/String[20] to int[10].
		- Removed Support for values 3 and 4 in tag CancelInsteadOfReprice for
		Complex order and Complex Cancel/Replace.
		- ExecInst field in 'New Complex Order' message is changed to a not
		required field.
		- Two new fields added to Execution Report message: AllocationIndicator,
		OriginalDealID
		- Removed 'Side' field as a required tag in the repeating group of 'New
		Complex Cross Order' message.

Date	Spec Version #	Change Summary
		 FIX Drop Copies - Market Participant Filters - Clearing Number - added note regarding message delivery when the values specified in ClearingAccount (FIX-440) and ClearingFirm (FIX-439) FIX tags map to the same clearing firm. Added note to state the numeric requirement of ClearingFirm (FIX-439) field.
3/1/2021	2.0	NYSE Arca and American Options: - Account (1) - up to 16 characters will be echoed back on gateway response messages, but will be truncated to the first 10 characters for publishing to clearing, end of day output files, etc. - SpecialOrdType[9202] - removed support for Customer to Customer Cross on NYSE Arca Options - Bulk Cancel Request - Variant 2
1/13/2021	1.1	NYSE Arca and American Options: - Logon Request/Response - added BOLD Designation = 8 for No BOLD Designation defaulting - Added message type - Bulk Cancel Request - Variant 2 (options only) - New Cross Order (options only) - added details for Options Market Maker - IntroducingBadgeID (9448) - required on orders from NYSE Arca and American Options Floor Broker OMS to Pillar - ContraClearingAccount (20017) and ContraMMID (20019) - updated data type to String[5] (previously String[4]) - Removed support for ExtendedExecInst (9416) = A (Add Liquidity Only); only value N = Add Liquidity Only (Non-Taking ALO) will be supported
11/9/2020	1.0	Added support for NYSE Arca and American Options - single leg orders. Added placeholders for the following functionality - complex orders.