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INTRODUCTION

This manual describes how Interactive Brokers LLC ("IB") implements the industry standard Financial Information eXchange (FIX™) protocol for IB clients who connect to IB using a Computer to Computer Interface (CTCI). IB supports FIX version 4.1 or 4.2. In addition, IB uses some tags specific to FIX version 4.3 and 4.4 as well as custom IB tags. This manual will document which messages are supported by IB and their particular implementation. For a complete guide to the FIX standard please refer to the official FIX home page at the following URL: http://www.fixprotocol.org

This document assumes the default definition of the FIX standard unless otherwise noted. Only the messages and fields (tags) which are supported by IB are included in this manual. Unsupported fields are not included in messages sent by the interface. If an unsupported field is received by IB, it is ignored. FIX messages with unknown tags are not rejected.

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Chapter 1. Message Syntax and Structure

IB currently supports the standard "Tag=Value" syntax. The general format of a FIX message applies. Messages consist of a series of "Tag=Value" fields separated by a field delimiter. The delimiter is ASCII 1 (SOH) symbol. Examples in this manual will represent that delimiter with a double space " ". All messages begin with a standard header and are terminated with a standard trailer.

1.1. Standard Header

Every administrative or application message must begin with a standard header. IB Supports the fields listed below.

Table 1 Message Header

	Table 1 Message Header					
Tag	Field Name	Req'd	Comments			
8	BeginString	FIX.4.1, FIX.4.2 or FIX.4.3 are supported in this tag				
	0		*If FIX 4.3 is specified, see Appendix A			
9	Body Length	Υ	Msg. length, in bytes, forward to checksum field			
35	MsgType	Y	IB Supports the following values: 0 = Heartbeat 1 = Test Request 2 = Resend Request 3 = Reject 4 = Sequence Reset 5 = Logout 8 = Execution Report 9 = Order Cancel Reject A = Logon D = Order Single F = Order Cancel Request G = Order Cancel/ Replace Req H = Order Status Request AB = New Order Multileg (FIX 4.3) AC = Multileg Cancel Replace Request			
49	SenderCompID	Y	For IB Cleared sessions, this is the username. For non-cleared sessions this is agreed upon with IB FIX Integration Group			
50	SenderSubID	Ν	Optional			
56	TargetCompID	Y	Default is "IB", if required the value can be determined by the client, please notify FIX Integration Group.			
57	TargetSubID	N	Per Standard			
34	MsgSeqNum	Υ	Per Standard			
43	PossDupFlag	N	Per Standard			
97	PossResend	N	Per Standard			
52	SendingTime	Υ	Per Standard			
122	OrigSendingTime	N	Per Standard			

1.2. Standard Trailer

Each message, administrative or application, is terminated by a standard trailer. IB only requires tag 10.

Table 2 Message Trailer

Tag	FieldName	Req'd	Comments
10	CheckSum	Υ	3 byte simple checksum. Always represented as 3 ASCII characters.

Chapter 2. Session Management

2.1 Logon - Authentication

There are three methods of connecting and authentication with IB. One of which applies to the Test account connection only.

Most commonly, a session is established through a dedicated circuit to IB using TCP/IP over a leased line or extranet connection. The IB system acts as the server and the customer's system acts as a client. In these cases the customer's application connects to a predefined TCP port on an IP address that NAT's to one of our gateways. Authentication is accomplished by checking the IP address, TCP port, and SenderCompID (tag 49). The customer's source IP address would need to be permissioned in advance. For that reason, be sure to inform the FIX integration team of any IP address changes before they occur. *This authentication method is not available for production accounts that connect over the internet* although internet test accounts can be configured this way.

Production FIX CTCI accounts that connect over the internet must use the FIX Gateway client software to connect. The Gateway Client software connects to our internet gateways and authenticates by specifying a username and password. When successful an encrypted SSL connection exists between the Gateway Client software and our internet gateways. The user's FIX engine then connects to the Gateway Client on a specific port.

For customers who clear through IB, the SenderCompID is the assigned username for the session. For execution only customers that value can be customized. If you require a specific senderCompID, please inform our FIX integration team.

2.2 Sequence Number Management

A FIX session consists of a series of messages with a continuous set of sequence numbers. Resetting the inbound and outbound sequence numbers back to 1 establishes a new FIX session. A client can establish a new FIX session by setting the ResetSeqNumFlag [141] to "Y" in the login message. IB does not initiate sequence number resets.

Inbound and outbound sequence numbers should be tracked independently. This is to identify gaps in message delivery. After authentication, the client and host must synchronize their message sequence numbers before any new messages can be sent. In the event that the received sequence number is higher then the expected sequence number, the client should respond with a Resend Request specifying the range of missing sequence numbers in the BeginSeqNO [7] and EndSeqNo [16] tags. IB supports the value of 0 (infinity) in tag 16 which would indicate the highest expected sequence number in tag 16.

If the sequence number received is less then the expected sequence number and the PosDupFlag [43] is not set to "Y", it will not be possible to establish a FIX session until the sent sequence number is equal to or greater than the one expected. A reject message will be sent with the expected sequence number sent in the text TAG.

By default, IB does not reset the sequence numbers each night. However it is possible to configure your account to do so. Sequence numbers would then be reset to 1 (inbound and outbound) each morning at approximately 1:30 am.

2.3 Message Recovery

Message gaps may be discovered during login or during a FIX session that require message recovery. When this occurs, a Resend Request message can be sent requesting a range of missing messages. The re-sender will then respond with a Sequence Reset message that has the GapFillFlag [123] set to "Y" and the PossDupFlag [43] set to "Y". Tag 36 will be set to the sequence number of the message to be redelivered next. Following this, the missing Application level messages will be resent. Most Administrative messages will not be resent. The administrative messages that will not be resent are: Logon, Logout, ResendRequest, Heartbeat, TestRequest and SeqReset-Reset and SeqReset-GapFill. This process of Sequence Reset / message delivery will continue until all of the relevant messages within the specified range have been delivered.

Chapter 3. Administrative Messages

Administrative messages are used for session management and address the utility needs of the protocol. IB uses the following Administrative messages:

Logon Heartbeat Test Request Resend Request Reject (session level) Sequence Reset (Gap Fill) Logout

This section describes the administrative messages that IB uses and provides the layout for each message.

3.1 Logon

The logon message is used to establish a FIX connection with IB. It therefore must be the first message sent.

Table 3 Logon

TAG	Field	Req'd	Comments	
	Standard Header	Υ	MsgType = A	
98	EncryptMethod	Υ	Valid Value = 0 (none, encryption is currently not supported)	
108	HeartBtInt	Y	A heartbeat interval of 30 seconds is suggested. The initiator may set it to any value, but the acceptor (IB) may override this interval when necessary. That means that the initiator has to be prepared to receive and respond to Test Request and Heartbeat messages in any case.	
141	ResetSeqNumFlag	Ν	This field is required when a new session is to be opened.	
	Standard Trailer	Υ		

3.2 Heartbeat

If either end of the connection has not sent any data in the amount of time specified in the heartbeat interval, a heartbeat message will be sent. If a heartbeat message is not received within the specified heartbeat interval, the connection should be considered lost. IB recommends a heartbeat interval of 30 seconds.

Table 4 Heartbeat

Tag	Field	Req'd	COMMENTS
	Standard Header	Y	MsgType=0
112	TestReqID	Ν	Required when the heartbeat is the result of a Test Request message.
	Standard Trailer	Y	

3.3 Test Request

The test request message forces a heartbeat from the opposing application. If either end of the connection has not received any data within the specified heartbeat interval a test request message will be sent. IB suggests the use of a timestamp in the TestReqID field as it is useful to verify that the Heartbeat is the result of the Test Request and not as the result of a regular timeout.

Table 5 Test Request

Tag	Field Name	Req'd	Comments
	Standard Header	Y	MsgType = 1
112	TestReqID	Y	A timestamp string is suggested for TestReqID
	Standard Trailer	Y	

3.4 Resend Request

The Resend Request initiates the retransmission of messages. It can be used to request a single message, a range of messages, or all messages which follow a particular message.

Table 6 Resend Request

Tag	Field Name	Req'd	COMMENTS
	Standard Header	Υ	MsgType = 2
7	BeginSeqNo	Υ	
16	EndSeqNo	Y	0 = infinitiy is supported. Or upper value must be specified
	Standard Trailer	Υ	

3.5 Sequence Reset (Gap Fill)

The sequence reset message is used by the sending application to reset the incoming sequence number on the opposing side.

Table 7 Sequence Reset (Gap Fill)

Tag	Field Name	Req'd	COMMENTS
	Standard Header	Y	MsgType = 4
123	GapFillFlag	N	Indicates that the Sequence Reset message is replacing administrative or application messages which will not be resent. Y = Gap Fill message, MsgSeqNum field valid N = Sequence Reset, ignore MsgSeqNum
36	NewSeqNo	Υ	
	Standard Trailer	Υ	

3.6 Reject (session level)

The reject message is issued when a message is received but cannot be properly processed due to a session-level rule violation

Table 8 Reject (session level)

Tag	Field Name	Req'd	Comments
	Standard Header	Y	MsgType = 3
45	RefSeqNo	Y	MsgSeqNum of rejected message
58	Text	Ν	Possible Reject Text Message Reasons: Session not open Invalid message type = Message must contain field # Invalid value in field # Sequence number lower than expected # Sequence number higher than expected # Session already open Attempt to decrease receive sequence number #
	Standard Trailer	Υ	

3.7 Logout

The logout message initiates or confirms the termination of a FIX session. Disconnection without the exchange of logout messages should be interpreted as an abnormal condition.

Table 9 Logout

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = 5
58	Text	Ν	
	Standard Trailer	Y	

Chapter 4. Application Messages

IB supports the following Application Messages:

New Order – Single New Order – Multileg (FIX 4.3) Execution Reports Order Cancel/Replace Request Order Cancel Request Order Cancel Reject Order Status Request Bulletins

In addition to the majority of the messages that comply to the FIX 4.2 standard, IB supports the New Order – Multileg function using tags in the 500-700 range which were introduced in FIX 4.3. In addition, IB expands the New Order – Single message through the use of Custom IB tags for the purpose of creating Conditional Orders. Please see Appendix B for a full list of IB's custom tags.

4.1 New Order Single - Basic

This message is used to submit a new order. IB supports the following basic order types:

Market, Limit, Stop, Stop Limit

* Note: The FIX 4.2 standard refers to Market on Close and Limit on Close orders as being a specific order type. Conversely, it refers to Market on Open and Limit on Open as a selection in the TimeInForce [59] tag. Although IB believes that the terms MOC and LOC actually refer to a Time in Force specification, IB follows the FIX 4.2 standard in this matter.

IB Supported Tags - Order Message (see Appendix A for further details on these fields)

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = D
1	Account	N*	Required for sessions that route orders to multiple IB accounts
111	MaxFloor	N	Used to create Hidden or Iceberg Orders
11	ClOrdID	Υ	
15	Currency	N*	This tag is required if tag 100=BEST or if ISIN/CUSIP is used
55	Symbol	Y	For options, the Underlying symbol is used by default. (see contract spec. notes)
48	SecurityID	Ν	Either CUSIP or ISIN identifier
22	IDSource	N	Either 1=CUSIP or 4=ISIN
21	Handlinst	Υ	
54	Side	Υ	
38	OrderQty	Υ	
40	OrdType	Υ	
18	ExecInst	N	Used to create Relative, Market Peg, Trailing Stop, and VWAP orders
211	Peg Difference	Ν	Used to create Relative, Market Peg, & Trailing Stop Orders
44	Price	Ν	Required depending on order type specified in tag 40
99	StopPx	Ν	Required for stop and stop limit orders
59	TimeInForce	N	
47	Rule80A	N*	If omitted, defaults to A=Agency. If you are submitting an order in a capacity other then that, it must be reported in this tag for regulatory reasons.
58	Text	N	Taken as a comment only.
77	OpenClose	Y*	Required for options only
114	Affirmative Determination	Y *	Required for short sale orders involving U.S. equity securities ("stocks"). If customer uses IB as its executing broker and uses a clearing broker other than IB (a "Non-Cleared Customer") and Tag 6086 contains the value "1" or "2", this Tag 114 must contain the value "N". If customer uses IB as its executing broker and clearing broker (a "Cleared Customer"), then customer is not required to populate this field. However, a Cleared Customer does have the option to populate this Tag 114 with the value "Y" only (not the value "N").

Tag	Field Name	Req'd	Comments
167	SecurityType	N	
201	PutOrCall	N	Required if 167 = OPT
202	StrikePrice	N	Required if 167 = OPT
200	MaturityMonthYear	Y*	Required if 167 = OPT or FUT
205	MaturityDay	Ν	
207	SecurityExchange	N	Can be used if tag 100=BEST to identify primary exchange for options
	ContractMultiplier	N	Should be used to identify option contracts in conjunction with tag 55
432	ExpireDate	N	Use this field to specify a Good Until date
	ExpireTime	N	Use this field to specify a Good Until time & date
	DiscretionInst	N	
	DiscretionOffsetValue	Ν	
	EffectiveTime	N	Use this field to specify a Good After time & date
100	ExDestination	Υ	If "BEST" is used either tag 207 or tag 15 must be used
439	ClearingFirm	Y*	Required if multiple clearing account information is on record in the clearing account information file. *See tag 439 notes below
440	ClearingAccount	Y*	Required for futures
5700	MPID	Y *	Tag 5700 is required for short sale orders involving U.S. stocks to indicate the present location of the shares that are to be delivered in connection with customer's short sale order. Customers who use IB as their executing broker only, must enter a valid Market Participant Identifier ("MPID") for the clearing broker or other custodian with whom the customer has arranged to borrow the shares that are to be delivered in connection with customer's short sale order. A list of MPID's is located at: www.interactivebrokers.com/MPIDIist. If you do not see a valid MPID for your clearing broker or custodian, you must send an e-mail to: proserve@interactivebrokers.com. (Note: This field will be automatically populated with the MPID "IBKR" for those customers who use IB as both their executing broker and clearing broker). *If more then one MPID needs to be included, you can list more then one using a comma (,) as a delimiter.
6035	IB Local Symbol	N	, , , , , , , , , , , , , , , , , , ,
	Order Reference Account	N	
6058	TradingClass	N	

Tag	Field Name	Req'd	Comments
6086		Top of Form Bottom of Form	The valid values are either "1" or "2". The value "1" may only be used by an IB customer who uses IB as its executing broker only and does not use IB as its clearing broker (a "Non-Clearing Customer"). The value "1" may only be used by a Non-Clearing Customer who has arranged with its usual clearing broker or custody agent (on file with and made known to IB) to borrow the shares that are required to be delivered in connection with the short sale order. The value "2" may only be used by a Non-Clearing Customer who has arranged with a clearing broker or custody agent other than its usual clearing broker or custody agent to borrow the shares that are required to be delivered in connection with the short sale order. If a Non-Clearing customer uses the value "2" for this Tag 6086, the Non-Clearing Customer must also use Tags 114 (with the value "N") and 5700 (with the clearing broker's or custody agent's MPID). An IB customer who executes and clears through IB (a "Cleared Customer") may not use this Tag 6086.
204	CustomerOrFirm	Y	Required for Options Orders
528	OrderCapacity	N	This field is optional. If used, it takes precedence over tag 204
529	OrderRestrictions	Ν	This field is only used if tag 528 is used
	Standard Trailer	Υ	

Multiple Account Sessions

For sessions which are configured to route orders to more than one account at IB, tag 1 is used to designate the account number that the order is intended for. By default, the IB account number is to be supplied in that tag. The account number is typically in the format... NC123456. However, if it is necessary, it is possible to map that account number to some other unique account designation that is agreed upon in advance. Obviously, if such mapping is used, IB would need to be notified prior to any modifications or additions.

Cleared accounts use account designations typically in the format, U123456. For cleared sessions configured with multiple accounts within a single FIX session, tag 440 needs to be used in conjunction with tag 1. Both tag 1 and tag 440 need to include the account number.

Simultaneous FIX / TWS access to the same account(s)

It is possible to have access to your cleared or non-cleared accounts from both a FIX session and a Trader Workstation (TWS) session simultaneously. Orders placed in the FIX session should be viewable on the TWS. If a specific convention is used for the clientOrderID's the orders placed in one session can be modified or canceled in the other as well.

The TWS uses a convention whereby each successive modification of the order is followed by a decimal point and an iteration number. The original order would end with ".0". The second orderID would end with .1 etc. To the left of the decimal point the clientOrderID must only be numbers without any letters or symbols (including additional decimal points).

All relevant messages, pending acks, acks, pending cancels, cancel confirms, pending replace, replace, fill, and partial fill are reported in both sessions. Orders that are placed through FIX and modified on the TWS will receive a modified confirmation in the form 150=D, 39=5. Orders placed through FIX that are canceled on the TWS receive a standard unsolicited cancel message in the FIX session.

NOTE: when trading in this configuration, be careful not to submit any order types on the TWS that your FIX engine cannot interpret. For example, if you are going to place a spread order on the TWS, be sure your FIX certification with IB included spread orders.

Contract Specification Notes:

When specifying a product, if "BEST" is specified in tag 100, then either tag 207 (SecurityExchange) or tag 15 (Currency) must be included as well. Specifying an exchange or currency will help specify the proper product if two different products exist with the same symbol. If tag 207 is used, it should be the primary exchange of that product. (For example, US options on IBM could specify the CBOE in tag 207) If tag 15 is used, it should represent the base currency of the country the product is listed in. (For example, US options on IBM would specify USD in tag 15). Even though it is only necessary to include either tag 15 or 207, IB recommends including both.

By default, tag 55 should include the underlying symbol for options. If you prefer to use the option trading class in tag 55, it is possible to configure an session to accept it. If you want to use that setting, please contact IB's FIX integration department.

In the event that similar options exist on the same underlying with the same strike, right and expiration, but with different multipliers, tag 231 (ContractMultiplier) should be used to identify the contract. Another approach could be to include the option class symbol in tag 6058 (Trading Class). Yet another approach would be to include the option symbol in tag 6035 (IBLocalSymbol) (If the session is configured to accept the option trading class in Tag 55, it would be handled the same as tag 6058.)

For example:

CSCO Aug 04 10.0 Put could be entered as:

Tag 55=CSCO Tag 231=100

Or

Tag 6058=CYG

Or

Tag 6035=CYGTB

*Note: Even if Tag 6058 or Tag 6035 is used, Tags 167, 200, 201 & 202 must still be included.

An alternate method of product identification is to use either the CUSIP or ISIN code in tag 48.

If tag 48 is used, tag 22 must also be included which identifies the type of code used in tag 48. Tag 15 (currency) must be sent when this method is used. Tag 55 could then be omitted.

Tag 439 (Clearing Firm) Notes

If tag 439 is not included in an order, one of two things will happen depending on how many clearing firms are configured for that account.

If only one clearing firm is configured for the account, the order will default to that firm if tag 439 is not included.

If multiple clearing firms are configured for the account, the order will reject if tag 439 is not included.

Non-Cleared clients are encouraged to send tag 439 even if only one clearing firm configured for that account.

Good Until / Good After Orders

You can specify when an order will be canceled (Good Until) by using either Tag 432 or Tag 126.

- If you want to specify a specific date and time use tag 126. The date should be in GMT in the following format: yyyymmdd-hh:mm:ss
- If you want to specify a date only use Tag 432. The date should be in the following format: yyymmdd. When using this tag the order will be canceled at the end of the day specified.

You can specify when an order will be activated (Good After) by using tag 168. The format should be yyyymmdd-hh:mm:ss and the time should be in GMT

FOREX - Cash Currency Orders

Tags 55 and 15 are used for identifying FOREX currency conversions.

Tag 55 represents the destination currency.

Tag 15 represents the base currency.

To purchase EUR with USD it would be tagged 55=EUR, 15=USD.

Tag 167=CASH

Tag 100=IDEALPRO

Tag 38 represents the number of destination currency units you wish to buy or sell.

Tag 44 represents the price in base currency for one unit of destination currency

4.2 New Order Single – Advanced Order types*

IB Supports a number of advanced order types. The order types listed below can be created using the standard New Order – Single message with some modifications or additions to the tags used.

Through the use of the Pegged order type, the following order types can be created:

Primary Peg (Relative), Market Peg, Trailing Stop, and VWAP

The following order types can be created using additional standard FIX tags:

• Hidden, Iceberg, Discretionary, OCA

In addition, IB has created custom tags (6000+) to allow for the creation of:

 Conditional Orders, Auto Stops/Bracket Orders, P.I.P (Price Improvement on the BOX), Relative to Stock (Delta) order

http://individuals.interactivebrokers.com/en/p.php?f=orderTypes&ib_entity=llc

^{*} Not all order types are available on all exchanges. For an updated list, please refer to the Order Types section of our website at:

Relative Order

A Relative order is pegged to buy on the best bid plus an optional offset, and sell on the best ask minus an optional offset. A limit price can be set to cap these price movements to certain levels.

For detailed descriptions of the order types, see: http://individuals.interactivebrokers.com/en/p.php?f=orderTypes&ib_entity=llc

To create a Primary Peg (relative) order:

- Set the OrdType (tag 40) to P (pegged)
- Set the Execlnst field (tag 18) to R (primary peg)
- · Set the PegDifference (tag 211) to the Relative offset of your choice

Example Relative Order:

To place a GTC relative order to sell 100 shares of IBM stock with a limit price of 80 and an offset of -0.5 SMART route orders:

8=FIX.4.2 9=0204 35=D 34=000007 43=N 52=20040212-12:2:00:01 49=direct99 56=IB 122=20040212-12:00:01 11=6020 38=100 40=P 211=.-05 18=R 55=IBM 6035=IBM 44=80.0 54=2 59=1 47=A 100=SMART 204=0 77=O 440=U150000 10=115

Market Peg

Market Peg orders are similar to Primary Pegged except that buys get pegged to the offer and sells to the bid.

To create a Market Peg order:

- Set the OrdType (tag 40) to P (pegged)
- Set the ExecInst field (tag 18) to P (market)
- Set the PegDifference field (tag 211) to 0.01

Example Market Peg Order:

To place a GTC Market Peg order to sell 100 shares of MSFT stock on ISLAND:

8=FIX.4.2 9=0204 35=D 34=000007 43=N 52=20040212-12:2:00:01 49=direct99 56=IB 122=20040212-12:00:01 11=6021 38=100 40=P 211=0.01 18=P 55=MSFT 6035=MSFT 54=2 59=1 47=A 100=ISLAND 204=0 77=O 440=U150000 10=115

Trailing Stop

A trailing stop is a sell order where the stop price is set at some fixed amount below the market price. If the market price rises, the stop loss price rises by this amount, but if the stock price falls, the stop loss price doesn't change. This technique allows an investor to specify a limit on the maximum possible loss, without setting a limit on the maximum possible gain. "Buy" trailing stop orders are the mirror image of sell trailing stop orders, and are used in falling markets. To create a trailing stop order:

Method 1

- Set the OrdType (tag 40) to P (pegged)
- Set the Execlnst field (tag 18) to R (primary peg)
- Set the StopPx field (tag 99) to your desired trailing amount

Method 2

- Set the OrdType (tag 40) to P (pegged)
- Set the Execunst field (tag 18) to a (trailing stop peg) (FIX 4.4)
- Set the PegDifference field (tag 211) to your desired trailing amount

Example Trailing Stop Order:

To place a GTC Trailing Stop order to sell 100 shares of IBM stock with a .50 trailing amount on the NYSE: (using suggested FIX 4.4 method)

8=FIX.4.2 9=0204 35=D 34=000007 43=N 52=20040212-12:00:01 49=direct99 56=IB 122=20040212-12:00:01 11=6022 38=100 40=P 211=.50 18=a 55=IBM 6035=IBM 54=2 59=0 47=A 100=NYSE 204=0 77=O 440=U150000 10=115

By default, trailing stop offsets are fixed amounts. However, if Method 2 is used for the submission of trailing stop orders, it is also possible to specify a percentage trailing amount. To do this, tag 6268 is used to designate whether a stop offset amount in tag 211 should be interpreted as an absolute or a percentage.

Valid Values for 6268:

1 = Use absolute amount (default if 6268 is not sent) 100 = Use percentage offset amount

If tag 6268 = 100 and tag 211=5, that would be interpreted as a 5% trailing offset. If tag 6268 = 1 (or is omitted) and tag 211=5, that would be interpreted as a 5 point trailing offset.

Trailing Stop Limit

IB also supports the submission of Trailing Stop Limit orders. Trailing stop limit orders are like trailing stop orders except that they become limit orders when triggered rather than market orders. A second offset is used to designate a limit price once the order triggers. The offset can be positive, negative, or zero. It is added or subtracted from the stop election price when the order is triggered.

The order type specified in tag 40 should be set to TSL.

The limit price is specified in tag 44

The Peg Difference is specified in tag 211

The Limit offset is specified in tag 6370

8=FIX.4.2 9=0177 35=D 115=OMSL 34=474 49=direc150b 56=IB 52=20080225-19:51:29 1=10000319 167=STK 11=AAA-0725-02252008 18=R 21=2 38=100.0 40=TSL 6370=-0.10 211=0.50 47=A 54=2 55=F 60=20080225-19:51:29.234 10=142

Barrier ("Adjustable Stop") Orders

Barrier orders, (referred to as "adjustable stop" orders on the Trader Workstation), allow you to set target points, ("barriers"), which when met, modify the specifics of the order you placed. This can be used to change the stop price on a stop limit, or change the trailing amount on a trailing stop order, or even change a trailing stop into a stop or stop limit.

Barrier orders apply to the following order types:

Stops
Stop Limits
Trailing Stops
Trailing Stop Limits

The following custom FIX tags are used to accomplish this...

TAG	FIELD NAME	REQ'D	COMMENTS
6257	NoBarriers	Required if any barriers are to be included in a supported order	Specifies the number barriers. (multiple barriers can be set for an order)
6258	BarrierPrice	Required if tag 6257 > 0	Specifies the barrier trigger price
6259	BarrierStopPrice	Required if included on any other barrier definitions for that same order	Specifies the new stop price for the order once the barrier price is reached
6260	BarriertrailingAmt	Required if included on any other barrier definitions for that same order	Specifies the new trailing amount (absolute or percentage depending on tag 6269) for the order once the barrier price is reached
6261	Tharner Price Delimier	YES – Required for all barrier orders	Specifies the new order type when the barrier is reached. 3 = Stop 4 = Stop Limit T = Trailing Stop TSL = Trailing Stop Limit
6262	BarrierLimitPrice	Required if included on any other barrier definitions for that same order	Specifies the new limit price for the order once the barrier price is reached
6269	BarrierTrailingAmtUnit	NO – If omitted trailing stop orders default to 1 = absolute	Specifies whether the BarrierTrailingAmt specified in tag 6260 should be interpreted as a percentage or absolute number 0 = absolute number 100 = percentage

Tags 6258 through 6269 can be repeated to include multiple barriers.

When multiple barriers are used, the BarrierPrice (trigger price for the barrier) for each subsequent barrier must move in the same direction.

For Buy orders, each subsequent barrier trigger price must be less than the prior.

For Sell orders, each subsequent barrier trigger price must be greater than the prior.

Repeating tags that are sent in one of the barrier definitions must be sent in all other barrier definitions. Tags that may not apply to a specific order type may be left blank. (6262=) For that reason, it is recommended that if the order type is to be changed in subsequent barriers, include all tags on all barrier definitions, leaving those that are unnecessary blank.

Barrier definitions can be modified using the standard message type 35=G as long as the condition in the active barrier has not yet been met. Once the condition of the barrier has been met, the order can no longer be modified.

Hidden / Iceberg Orders

A Hidden order allows you to submit an order (generally a large volume order) without publicly disclosing the order information. Hidden orders are only available for US equity orders routed through Island.

An Iceberg order allows you to submit an order (generally a large volume order) while publicly disclosing only a portion of the submitted order. Iceberg orders are available for smart routed US equity, Xetra routed, and Globex routed orders. Iceberg orders are exchange native except for Globex where they are simulated by IB.

To create a Hidden order, include tag 111 with a value of 0. Hidden orders are valid on ISLAND only.

To create an Iceberg order, include tag 111 with a number representing the number of shares reflected.

VWAP Orders

IB supports guaranteed VWAP orders for large cap stocks. The VWAP for a stock is calculated by adding the dollars traded for every transaction in that stock ("price" x "number of shares traded") and dividing the total shares traded.

A VWAP is computed from the open of the market to the market close, and is calculated by volume weighting all transactions during this time period.

To create a VWAP order:

- Set the OrdType (tag 40) to P (pegged)
- Set the Execlnst field (tag 18) to W (peg to VWAP)
- Set the ExDestination (tag 100) to VWAP
- . Tag 168 can be included to set a VWAP start time (optional)

Example VWAP order: To buy 100 shares of IBM stock VWAP:

8=FIX.4.2 9=0204 35=D 34=000007 43=N 52=20040212-12:2:00:01 49=direct99 56=IB 122=20040212-12:00:01 11=6023 38=100 18=W 40=P 55=IBM 167=CS 54=1 59=0 47=A 100=VWAP 77=O 10=099

An execution report is sent immediately with a zero price. A trade restatement is later sent replacing the zero price with the VWAP price.

Discretionary Orders

A Discretionary Order is a limit order for which you define a discretionary amount (which is added to or subtracted from the limit price) that increases the price range over which the order is eligible to execute. The original limit price is displayed to the market.

To create a discretionary order, tags 388 and 389 must be used in addition to the regular order tags.

Tag 388 is used to identify the price a DiscretionOffset is related to. IB only supports 0 = Related to displayed price. Tag 389 is used to specify the DiscretionOffset.

OCA (One Cancels All) Orders

Orders in a one-cancels-all group of orders will be canceled when one of the other orders in that same group is executed or canceled.

OCA groups can be specified using tag 583 (ClOrdLinkID)

Tag 583 must contain the word "IBOCAGROUP" and be followed by a name you assign to the OCA group. Example: 583=IBOCAGROUP group1

Auto Stop / Bracket Orders

It is possible to submit orders which are contingent upon the execution of another order. This is used to create Auto Stops and Bracket Orders.

Auto Stops are stop orders which are not submitted until a parent order fills.

Bracket Orders involve an OCA group of orders which are not submitted until a parent order fills.

Tag 6107 (ParentClientID) is used in a Child order to specify the original clientOrderID of the Parent order. Although acked immediately, child orders will not be submitted until the parent order fills. Partial executions of the parent order will activate the respective quantity of the child orders. Attention must be given to the number of contracts/shares executed on the parent order to determine what is actively working on the child orders.

P.I.P. (Price Improvement Auction) Orders on the Boston Options Exchange (BOX)

Interactive Brokers' customers submitting Smart marketable options orders will have their orders routed to BOX when BOX is at the NBBO, and Interactive Brokers has information that there is an NBBO improvement order on the opposite side of the trade, in which case your order will be exposed to a price improvement auction.

For option orders routed to the Boston Options Exchange (BOX) you may elect to participate in the BOX's price improvement auction in pennies. All BOX directed price improvement orders are immediately sent from Interactive Brokers to the BOX order book, and when the terms allow, IB will evaluate it for inclusion in a price improvement auction based on price and volume priority. Enter your order price in penny increments, and it will be rounded to the nearest listed increment in favor of the order (bids and offers will continue to be listed in increments of \$0.05 or \$.10) until the start of the auction. Should an auction start, your improvement amount will be the absolute difference of your order price in pennies and your rounded listed price. You may choose one of the following auction strategies using tag 6173 (DiscretionaryType. Valid values are:

- 1 = Discretionary Matching (passive) you will participate in the auction by matching the current auction price, but will not exceed your price improvement amount.
- 2 = Discretionary Improving (aggressive) you will participate in the auction by bidding higher (offering lower) than the current auction price, but will not exceed you price improvement amount.
- 3 = Transparent (fixed) your full price improvement amount will be submitted at the start of the auction.

If no value is specified Discretionary Matching (1) will be used by default.

Pegged to Stock (Delta) Orders

(Only supported on the BOX)

Using the IB custom value of "s" in tag 18 (ExecInst), it is possible to create an option order which is pegged to the price of a stock using a specific delta. The order works as follows. For the limit order that you specify, you can specify a reference price, a delta, and a high and low range in which the order is active. When the order is active, the limit price will be modified using the following formula.

(midpoint – refprice) * (delta/100)

To create a delta order, the following tags must be used.

Tag 40 = P Designates the order type as Pegged

Tag 18 = s ("s" is a custom IB value) Designates the order as "Pegged to Stock"

Tag 6151 = (StockRefPrice) Designates the reference price for the order. This is the price that the midpoint is compared to.

Tag 6152 = (StockRangeLower) Designates the lower price limit. If the stock goes below this price, the order is canceled.

Tag 6153 = (StockRangeUpper) Designates the upper price limit. If the stock goes above this price, the order is canceled.

Tag 6154 = (Delta) Designates the delta to be used. Valid values: (-100 to 100)

Tag 99 = (StopPx) Used for this order type as the "Starting" Limit price for the order

Sessions can be configured to receive new acknowledgments each time the limit price is changed. The acks will appear with 39=0, 150=0, and the new limit price in tag 44. The original order specifications will also be included.

*NOTE: The order IDs will remain the same on each of the acks, although the limit price changes.

Conditional Orders

The conditions attached to a Conditional order state that the order will automatically be submitted OR cancelled only if specified criteria for one or more defined contracts are met. You can specify stocks, options, futures or security index criteria to trigger a conditional order. Conditional orders can be created using IB custom defined tags. The following tags are used in addition to the standard tags in a New Order Single message.

TAG	FIELD NAME	REQ'D	COMMENTS
6136	Condition List Size	Υ	Required only once for a conditional order
6128	Condition Ignore Rth	Ζ	Required only once for a conditional order
6151	Cond Submit Cancel	Υ	Required only once for a conditional order
6124	Cond Exch	Υ	Repeated for each condition
6125	Cond Price	Υ	Repeated for each condition
6126	Condition Operand	Y	Repeated for each condition
6127	Condition Trigger Method	N	Repeated for each condition
6137	Condition Logic Operant/Binder	Y	Repeated for each condition
6165	Condition Underlying	Υ	
6166	Condition Strike	N	Required if the condition is on an option
6167	Condition Right	Ν	Required if the condition is on an option
6168	Condition Expiry	N	Required if the condition is on an option or future
6169	Condition Security Type	Υ	
6170	Condition Local Symbol	Y*	Required if tag 6165 is not used

To create a conditional order:

- Tags 6136, 6128 & 6151 must be included only once in the message.
- Tags 6124, 6125, 6126, 6127, & 6137 are repeated for each condition.

Example Conditional Order:

To buy 1 IBM Feb04 90 call for a price of 2 using BEST Routing GTC if the price of IBM Stock >= 91 using Double Bid Ask on a BEST quote:

8=FIX.4.2 9=0204 35=D 34=000007 43=N 52=20040212-12:2:00:01 49=direct99 56=IB 122=20040212-12:00:01 11=6024 38=1 40=2 55=IBM 15=USD 167=OPT 201=1 202=90.0 200=200402 44=2 54=1 59=1 47=A 100=BEST 77=O 6136=1 6128=1 6151=0 6165=IBM 6169=CS 6124=BEST 6125=91 6126=>= 6127=1 6137=n 10=248

ISE Facilitation Orders

An ISE facilitation order is a complex order type where a customer originated order (originating order) is placed by a market participant together with an instruction to trade against, (up to 40%) of that order acting as principal (counter-party order).

The facilitation order consists of the following tags added to a standard option order message.

TAG	FIELD NAME	REQ'D	COMMENTS	
6281	tXcrossC1OrdID	Υ	Firm side for C1OrdID (firm equivalent to tag 11)	
6282	tXCrossClearingFirm	Ν	Firm's ClearingFirm (firm equivalent to tag 439)	
6283	tXCrossClearingAccount	N	Firm's ClearingAccount (firm equivalent to tag 440)	
6284	tXCrossOpenClose	Υ	Firm's OpenClose (firm equivalent to tag 77)	
6285	tXCrossOptionAcct	Υ	Firm's OptionAcct (firm equivalent to tag6122)	
6286	tFacilitationPercentage	Ν	Desired percentage	
6390	SolicFacilIndicator	N	Indicates Facilitation or Solicitation Valid Values: FACIL, SOLIC If omitted, defaults to Facilitation. Solicitation orders require a quantity greater then 500.	
6396	sprdCrossOpenClose	Y	Required for SPREADS. Indicates the position effect for the facil/solic side of a spread order. This is to be included in the repeating groups for each leg.	
6401	sprdCrossSide	Y	Required for SPREADS. Indicates the leg side for the facil/solic side of a spread order. This should be set to the opposite of the originating side for a given leg. This is to be included in the repeating groups for each leg.	

ISE facilitation orders:

- Must have Fill-Or-Kill (FOK) time in force
- Must be routed to the ISE
- BEST routed orders will only go to the ISE
- Can't be modified
- Are either canceled ("killed") by the exchange, filled for originating side only, or filled for both originating and counter party sides.
- Orders for quantities of 499 or less must be tagged as Facilitation orders
- Orders for quantities of 500 or more can be tagged as either Facilitation of Solicitation orders
- If not specified in tag 6390, Facilitation is used by default
- Customer/Customer crosses are designated by setting tag 6285=c

Example: ISE Spread Facilitation Order

8=FIX.4.1 9=309 35=AB 52=20050610-15:45:45 34=605 56=IB 49=tinc 11=87204 55=MSFT 38=10 54=1 40=2 44=1 59=1 6205=1 15=USD 100=BEST 204=0 47=A 439=123 167=MULTILEG 555=2 600=MSQ 609=OPT 608=OPXXXX 610=200801 612=27.5 614=100 564=O 623=1 624=1 600=MSFT 609=STK 608=ESXXXX 614=100 623=100 624=2 10=128

IB Algo Orders - Stock

IB's stock algorithms are used to optimally parse large volume orders using IB's proprietary mathematical models. These models use historical price and volume data in conjunction with user-defined risk and volume inputs. IB currently offers three stock algo *types*.

Arrival Price – Attempts to achieve the bid/ask midpoint price at the time the order is submitted, taking into account the user-assigned level of risk aversion which defines the pace of the execution, and the user-defined target percent of average daily volume.

User Inputs -

- Max Percentage of Average Daily Volume
- Urgency / Risk Aversion Level
- Attempt Completion by EOD

Percent of Volume – Attempts to participate with volume at a user-defined rate. Order quantity and volume distribution over the day is determined using the target percent of volume you entered along with continuously updated volume forecasts calculated from TWS market data.

User Inputs -

Target percentage of participation of the Average Daily Volume

VWAP (non-guaranteed) – Attempts to achieve the Volume-Weighted Average price (VWAP), calculated from the time you submit the order to the close of the market.

User Inputs -

Max Percentage of Average Daily Volume

Orders are canceled using the standard 35=F message type

Orders can be modified using the standard 35=G order type. Any algo-specific value can be modified. If the Algo type remains the same, the order is continued using the new parameters. (ie: passive to aggressive) If the algo type is modified, the order is handled as if it were a new algo order for the remaining quantity from that point on.

If an order is sent with instructions to deactivate on the close, a modify message will need to be sent in order to reactivate the order.

TAG	FIELD NAME	REQ'D	VALID VALUES
18	tExecInst	Υ	e (custom value used for IB algos)
847	tTargetStrategyName	Y	ArrivalPx PctVol Vwap
849	tParticipationRate	Y*	Set as percentage. *Required to set maximum participation rate for VWAP and Arrival Price algos
5957	tNoStrategyParameters	Y*	# Strategy Parameters Specified – *needs to be set to the number of 5958 tags included in the order. Typically set to 0, 1, or 2. Allows for riskAversion/pctVol AND forceCompletion
5958	tStrategyParameterName	Y	riskAversion pctVol forceCompletion
5960	StrategyParamterValue	Y	Aggressive Passive Neutral Get Done If 5958=pctVol, 5960 should be set to the participation percentage.
6436	tDeactiveateOnClose	Y	1=deactivate the order at the end of the day. 0=do not deactivate at the end of the day.

Examples:

Percent of Volume – Place an order to buy up to 10,000 shares at a not to exceed 22.22% of the daily volume.

847=Pctvol 5957=1 5958=pctVol 5960=0.2222

8=FIX.4.2 9=000249 35=D 34=000002 56=IB 49=bones179 52=20080312-19:30:53 47=A 54=1 167=CS 60=20050120-15:13:54 18=e 38=10000 44=1.80 847=PctVol 5957=1 5958=pctVol 5960=0.2222 6436=0 204=0 55=IBM 59=0 40=2 100=SMART 11=a001 21=2 15=USD 77=O 10=207

VWAP – Place an order to buy up to 10,000 shares paying the Volume Weighted Average Price between the time you place the order and the close, not to exceed 1% of the daily volume

847=Vwap 849=0.01 5957=0

8=FIX.4.2 9=000232 35=D 34=000002 56=IB 49=bones179 52=20080312-19:44:21 47=A 54=1 167=CS 60=20050120-15:13:54 18=e 38=10000 44=1.80 847=Vwap 5957=0 849=0.01 6436=0 204=0 55=IBM 59=0 40=2 100=SMART 11=a002 21=2 15=USD 77=O 10=230

Arrival Price – Place an order to buy up to 10,000 shares, attempting to pay the current arrival price or better, not to exceed a quantity of 1% of the daily volume. Set the risk aversion level to "Passive". Force Completion by the end of the day.

847=ArrivalPx 849=0.01 5957=2 5958=riskAversion 5960=Passive 5958=forceCompletion 5960=1

8=FIX.4.2 9=000256 35=D 34=000002 56=IB 49=bones179 52=20080312-20:17:40 47=A 54=1 167=CS 60=20050120-15:13:54 18=e 38=100 44=1.80 847=ArrivalPx 5957=1 849=0.01 6436=0 204=0 55=IBM 59=0 40=2 100=SMART 11=a003 21=2 15=USD 77=O 5958=riskAversion 5960=Passive 5958=forceCompletion 5960-1 10=207

IB Algo Orders - Options

IB's option algorithms are used to optimally parse large volume orders using IB's proprietary mathematical models. These models use historical price and volume data in conjunction with user-defined risk and volume inputs. IB currently offers two option algo types, described below.

Minimize Impact – Attempts to minimize market impact by slicing the order over time to achieve a market average without going over the Max Percentage value.

User Inputs -

Max Percentage of Average Daily Volume

Balance impact and risk – Attempts to balance the market impact of trading the option with the risk of price change over the time horizon of the order. The strategy considers the user assigned level of risk aversion to define the pace of the execution, along with the user-defined target percent of volume.

User Inputs -

- Max Percentage of Average Daily Volume
- Urgency / Risk Aversion Level

Orders are canceled using the standard 35=F message type

Orders can be modified using the standard 35=G order type. Any algo-specific value can be modified. If the Algo type remains the same, the order is continued using the new parameters. (ie: passive to aggressive) If the algo type is modified, the order is handled as if it were a new algo order for the remaining quantity from that point on.

TAG	FIELD NAME	REQ'D	VALID VALUES
18	tExecInst	Υ	e (custom value used for IB Algos)
847	tTargetStrategyName	Y	MinImpact BalanceImpactRisk
849	tParticipationRate	Υ*	Set as percentage in decimal form. 15% would be sent as 849=0.15 *Required to set maximum participation rate for MinImpact and BalanceImpactRisk algos
5957	tNoStrategyParameters	Υ*	# of strategy parameters specified – needs to be set to the number of 5958 tags included in the order. Typically set to 0, 1, or 2. Allows for riskAversion AND forceCompletion
5958	tStrategyParameterName	Y	riskAversion forceCompletion (required only for Strategy BalanceImpactRisk)
5960	StrategyParamterValue	Y	*When tag 5958=riskAversion, populate related tag 5960 with one of these 4 values: Aggressive Passive Neutral Get Done *When tag 5958=forceCompletion, populate related tag 5960 with 0 (false) or 1 (true) (required only for Strategy BalanceImpactRisk)

Examples:

Minimize Impact – Place an order to buy up to 10,000 contracts paying the Market Average Price between the time you place the order and the close, not to exceed 1% of the daily volume

847=MinImpact 849=0.01 5957=0

8=FIX.4.2 9=000232 35=D 34=000002 56=IB 49=bones179 52=20080312-19:44:21 47=A 54=1 167=CS 60=20050120-15:13:54 18=e 38=10000 200=200803 201=1 202=22.50 204=0 55=CSCO 59=0 40=1 100=SMART 11=a002 21=2 15=USD 77=O 847=MinImpact 5957=0 849=0.01 10=230

Balance impact and risk – Place an order to buy up to 10,000 shares, attempting to pay the current arrival price or better, not to exceed a quantity of 5% of the daily volume. Set the risk aversion level to "Passive". Force Completion by the end of the day.

847=BalanceImpactRisk 849=0.05 5957=2 5958=riskAversion 5960=Passive 5958=forceCompletion 5960=1 8=FIX.4.2 9=000256 35=D 34=000002 56=IB 49=bones179 52=20080312-20:17:40 47=A 54=1 167=CS 60=20050120-15:13:54 18=e 38=100 200=200803 201=1 202=22.5 204=0 55=CSCO 59=0 40=1 100=SMART 11=a003 21=2 15=USD 77=O 847=BalanceImpactRisk 849=0.01 5957=2 5958=riskAversion 5960=Passive 5958=forceCompletion 5960=1 10=207

Server Managed Volatility Orders

A volatility order is an order that allows you to place an option order by specifying an implied volatility in place of a limit price. In place of a standard limit price, an order contains a volatility limit which will be calculated to a corresponding limit price. A "continuous update" flag can be set which continually modifies the calculated limit price as variables such as the underlying price change. In addition, a conditional order can be attached which will trade the underlying security against the executed option trade on a "delta" ratio calculated at the moment the option order fills.

TAG	FIELD NAME	REQ'D	VALID VALUES	
44	Price	N	Only used if 6275=3	
6107	ParentClientId	Y	Included only on the underlying hedge order (if included) Specifies the clientOrderID of the "parent" option volatility order.	
6152	StockRangeLower	N	Underlying Price – Lower Range	
6153	StockRangeUpper	N	Underlying Price – Upper Range	
6275	Continuous Update	Y	2=Continuously update the price as volatility calculation changes 3=Price for main order specified by client	
6279	UnderlyingRefPrice	Υ	1=midpoint 2=bid or ask	
6280	VolatType	Υ	1=daily volatility 2=annual volatiltiy	
6290	HedgingType	Y	-1=no hedging 1=mkt hedging 2=lmt E=relative order	
6458	DividendSchedule	N	yyyymmdd/value,yyyymmdd/value	
6459	InterestSchedule	N	yyyymmdd/value,yyyymmdd/value	
6460	IsDeltaHedge	Υ	1=Hedging Order Anything else or omitted=not	
6467	VolatCapPercentage	N		
6468	VolatCapTicks	N		
9816	ImpVolatility	Υ	Implied Volatility in %	

Interest Rates and Dividends directly affect the calculation of the implied volatilities used for these orders. If tags 6458 and 6459 are not included, default interest rate and dividend schedules are used. Default interest rate schedules for US equity options are derived from the implied yields of the Eurodollar futures. Dividends are extrapolated forward using the last paid dividend. Users are encouraged to set their own dividend schedules, particularly if dividends fall close to expirations.

Any volatility order can set a range in the underlying product. If the underlying price prints outside this range, the order will be canceled. Tags 6152 and 6153 are used to specify this range.

Tags 6467 and 6468 are used as safety measures to indicate an amount that you would bid or offer through the implied ask and bid volatility which would result in the order being rejected. If you spedified 1 in tag 6467 and the implied volatility that you specified in tag 9816 is more then 1% through the ask implied volatility on your buy order, the order would reject.

Example 1:

Place an order to sell 10 options receiving no less then a 35% implied volatility at the instant the order fills. Continuously update the order. No automatic hedge order. Default dividends and interest rates used.

8=FIX.4.2 9=000223 35=D 34=000002 56=IB 49=bones179 52=20080310-17:10:40 47=A 54=2 167=OPT 60=20050120-15:13:54 38=10 6275=2 9816 =35.00 6280=2 6279=2 6290=1 200=200803 201=1 202=22.50 204=0 55=CSCO 59=0 40=2 100=SMART 11=004 21=2 15=USD 77=O 10=233

Once placed, the limit price will be modified whenever volatility calculation implies a new limit price. Unsolicited modify messages will be sent in the following format: (This message type can be optionally suppressed. Notify IB client integration group if you do not wish to see the unsolicited modify messages)

8=FIX.4.2 9=000300 35=8 34=000049 43=N 52=20080310-17:14:26 49=IB 56=bones179 37=0002a1c1.00017da2.47d55e40.0001 11=004 17=97698.1205169266.1 150=D 20=0 39=5 55=CSCO 54=2 38=1 44=2.76 32=0 31=0.00 14=0 151=1 6=0 167=OPT 200=200803 201=1 1=DU6922 60=20080310-17:14:26 40=2 202=22.5 77=O 6122=b 204=1 198=NONE 6437=24.44 10=095

Orders can be modified with a 35=G message: This modify changes the vol from 35 to 32. (tag 6275 must also be included on modifies) ** Only tag 9816 can currently be modified.

8=FIX.4.2 9=000124 35=G 34=000002 56=IB 49=bones179 52=20080310-19:26:41 41=004 11=004m 15=USD 54=2 9816=32.00 58=1 55=C 21=2 38=1 6275=2 40=2 10=240

Orders can be canceled with a 35=F message:

8=FIX.4.2 9=000089 35=F 34=000002 56=IB 49=bones179 52=20080310-17:27:42 11=004c 41=004m 55=CSCO 54=1 38=100 10=202

Example 2:

Place an order to sell 10 options receiving no less then a 22 volatility premium. Then, hedge the order delta neutral with stock as soon as the option execution occurs, delta neutral.

8=FIX.4.2 9=000237 35=D 34=000002 56=IB 49=bones179 52=20080307-20:51:43 47=A 54=2 167=OPT 60=20050120-15:13:54 38=10 58=1.00 6275=2 9816=22.00 6280=2 6279=2 6290=1 6210=BEST 200=200803 201=1 202=24 204=0 55=CSCO 59=0 40=2 100=SMART 11=017 21=2 15=USD 77=O 10=219

8=FIX.4.2 9=000191 35=D 34=000003 56=IB 49=bones179 52=20080307-20:51:44 47=A 54=1 60=20050120-15:13:54 100=SMART 204=1 59=1 40=1 38=200 11=018 168=20050318-16:40:00 21=2 55=CSCO 6460=1 6107=017 15=USD 167=STK 10=119

Note: Quantity (tag 38) must be included on the hedge order, although the actual quantity will be determined by the calculated delta when the parent order executes.

Example 3:

Place an order to buy 10 options paying no more then a 10 volatility using a custom interest rate and dividend schedule. Cancel order if underlying stock goes below 30 or above 40.

8=FIX.4.2 9=000292 35=D 34=000002 56=IB 49=bones179 52=20080311-19:37:04 47=A 54=1 167=OPT 60=20080120-15:23:54 38=10 6275=2 9816=10.00 6280=2 6279=2 6290=1 6152=20 6153=30 6458=20090101/1,20090201,1 6459=20090101/0.04,20100101/0.05 200=200803 201=1 202=22.50 204=0 55=CSCO 59=0 40=2 100=SMART 11=003 21=2 15=USD 77=O 10=219

Description of Trigger Methods:

Trigger Method	Tag 6127 Representation	Description
Last	2	For a sell (buy) order to be triggered, one last price value must be less than (greater than) or equal to the trigger price, and the exchange or other market center where the order is to be executed must also publish (and IB's systems must also receive) an ask price equal to or higher than, and a bid price equal to or lower than, the trigger price.
Bid / Ask	4	For a sell (buy) order to be triggered, a single ask price (bid price) value must be less than (greater than) or equal to the trigger price.
Double Last	3	For a sell (buy) order to be triggered, two consecutive last price values must be less than (greater than) the trigger price and the exchange or other market center where the order is to be executed must also publish (and IB's systems must also receive) an ask price equal to or higher than, and a bid price equal to or lower than, the trigger price.
Double bid/ask	1	For a sell (buy) order to be triggered, two consecutive ask price (bid price) values must be less than (greater than) or equal to the trigger price.
Last OR Bid/Ask	7	Combines the logic of the Last method and Bid /Ask method. Order triggers when one or the other condition is met.

NOTE: The "Last" and "Double Last" trigger methods have leeway to trigger up to 0.5% above the ask price or up to 0.5% below the bid price. This 0.5% amount of leeway is subject to change at any time without notice.

4.3 New Order - Multileg

(Combination Orders)

IB allows for the placement of Multileg (spread / combination) orders only for SMART (BEST) routed orders or products traded on an exchange which electronically accept that type of order. The message format is based on the Multileg format of FIX 4.3.

Messages Used for Multileg Orders

Order Entry: Use the New Order - Multileg (MsgType=AB) message to submit a multileg order. Multileg orders use Instrument Leg Block (set of repeating tags) to define the legs of a spread. Each leg of the multileg order includes LegSide (tag 624) relevant to the leg only, while tag 54 (Side) is relevant to the whole multileg order. IB interprets values passed in tag 44 (Price) as credit (negative value), debit (positive value) or even (zero).

Execution Reports for Multileg Orders: The Execution Report (MsgType=8) has been modified to report the order status of Multileg Orders. See notes for combination execution reports.

Modification of a Multileg Order: IB supports message type 35=AC. Only the quantity or price can be modified. The values passed in the Instrument Leg Block tags on modify messages do not affect the order parameters. It is suggested to not include them in the cancel/replace message.

Cancellation of a Multileg Order: Multileg orders are canceled using the Order Cancel Request (MsgType = F). The entire multileg order is cancelled by OrderID (tag #37) or ClOrdID (tag# 11). It is not possible to cancel one leg of a multileg order without canceling the entire multileg order.

NOTE: If a multi-leg order includes a leg which involves the short sale of a US equity, the appropriate regulatory tags 624, 6086, 6215 and/or 6216 must be included. For multi-leg stock orders, tag 624 is used to indicate that the order is a short sale (value = "5"). Customers who do not clear their trades through Interactive Brokers may either:

Use Tag 6086 with a value = "1" to indicate that the customer has arranged with its clearing broker or custody agent (the Clearing Firm designated in Tag 439 on the order) to borrow the shares that are to be delivered in connection with the short sale tag; and Tag 6215 with a value = "N"; or

Use Tag 6086 with a value = "2" to indicate that the customer has arranged with a clearing broker or custody agent other than the Clearing Firm designated in Tag 439 on the order; Tag 6215 with a value = "N" to indicate that the customer has arranged with such clearing broker or custody agent to borrow the shares that are to be delivered in connection with the short sale order; and Tag 6216 to indicate the MPID of such clearing broker or custody agent.

For multi-leg stock orders, customers who clear through Interactive Brokers may either:

Use Tag 6215 = "Y" to indicate that IB will borrow the shares that are to be delivered in connection with the short sale. (Note: If customer wishes to also use Tag 6216, the value must = IBKR (IB's MPID)).

NOTE: When creating a combination order which includes a leg that is a stock, it is necessary to include the stock leg last (with the necessary regulatory tags 6086, 6215, & 6216). Also, leg multiplier for a stock leg should be in 100 increments (i.e. 100, 200, 300, ...)

NOTE: When creating a combination order which includes legs that are futures, tag 440, (or 440) must be included once in the message.

Below are the tags that IB uses for Multileg orders. Tags marked with a "->" indicate that the tag is a part of an Instrument Leg Block (repeated for each leg).

Tag	Field I	ld Name REQ'D Comments		Comments
	Standa	ard Header	Υ	MsgType=AB
1	Accou	nt	N*	Required for sessions that route orders to multiple IB accounts
11	ClOrdI	D	Y	
55	Symbo	ol	Y	Underlying symbol
167	Securi	tyType	Y	MULTILEG or MLEG values are accepted. Please inform IB FIX integration team of the value you prefer.
38	Order	Qty	Y	
54	Side		Y	
40	OrdTy	pe	Y	Only Limit orders are supported for spreads
44	Price		N	Required if OrderType is limit (40=2)
59	TimeIr	Force	N	Currently only Day (59=0) is supported for mutlileg Orders
207	Securi	tyExchange	Y	
15	Currer	псу	Υ	
439	Cleari	ng Firm	Y*	Required if multiple clearing firms are on file with IB.
440	Cleari	ngAccount	Ν	Required if spread includes FUTURES
555	NoLeg	js	Y	Number of legs that make up the security
->	600	LegSymbol	N	Required only if it is different from symbol
->	608	LegCFICode	Υ	OC – call option, OP – put option, ES - stock
->	609	LegSecurityType	N	
->	610	LegMaturityMonthYear	N	Required only for futures, options and warrants
->	612	LegStrikePrice	N	Required only for options and warrants
->	616	LegSecurityExchange	N	Required for IBEFP combos
->	623	LegRatioQty	Υ	
->	624	LegSide	Υ	1=Buy, 2=Sell
->	614	LegContractMultiplier	N	
->	654	LegRefID	N	Identifies the leg for subsequent references
->	564	LegPositionEffect	Y	Possible Values: O (Open) or C (Close)
	6086	6086 Short Sale Rule		Indicates that the customer has arranged with a clearing broker or custody agent to borrow the shares required to be delivered in connection with the short sale. Valid values are "1" or "2".
	6215	LegLocateReqd	Y1	N = Shares are with customer's clearing broker Y = Shares are with IBKR ("Y" may only be indicated if the customer clears through IBKR).
	6216	LegLocateBroker	Y1	Clearing broker's or custody agent's MPID.
	6248	BestComboGuarantee	N	0 = guaranteed 1 = non-guaranteed
	Standa	ard Trailer	Y	

^[1] The tag is conditionally required under the circumstances described in the note on the prior page.

Example 1: Option/Option Multileg Order:

New Order Message – Sell 1 Spread defined as (Buy 1 OIH Oct04 85 Call and Sell 1 Oct04 90 Call) for a limit of .80 (because it is defined as a sell in tag 54, .80 will be interpreted as a credit)

8=FIX.4.1 9=303 35=AB 52=20041001-15:57:59 34=27414 56=IB 49=miscctci 11=3690702 55=OIH 38=1 54=2 40=2 44=0.8000 59=0 15=USD 207=ISE 204=0 47=A 440=37743127 167=MULTILEG 555=2 600=OIH 609=OPT 608=OCXXXX 610=200410 612=85 614=100 564=O 623=1 624=1 600=OIH 609=OPT 608=OCXXXX 610=200410 612=90 614=100 564=O 623=1 624=2 10=169

Example 2: IBEFP SSF/Stock Multileg Order:

Note: Tag 616 must be included on the legs with an exchange designation for each leg.

New Order Message – IB Exchange for Physicals (IBEFP) SSF/Stock spread.

- Buy 1 spread defined as Selling the IBM Nov Single Stock Futures and buying IBM STK for a debit of .10.

8=FIX.4.1 9=303 35=AB 52=20040915-16:32:33 34=17794 56=IB 49=democtci 11=10003 55=IBM 38=154=2 40=2 44=.10 59=0 15=USD 204=0 47=A 440=37710902 167=MULTILEG 555=2 600=IBM 609=FUT 608=FXXXXX 610=200611 614=100 616=ONE 564=O 623=1 624=2 600=IBM 609=STK 608=ESXXXX 564=O 623=100 616=NYSE 624=1 100=IBEFP 10=182

Example 3: Stock / Stock Combo Order:

Note: Tag 616 must be included on the legs with an exchange designation for each leg.

Tag 55 not required

If one of the legs is a short-sale, tags 6215 and 6216 must be included on both legs.

The leg that isn't a short sale would include tags 6215 and 6216 set to null.

8=FIX.4.1 9=000311 35=AB 34=000002 56=IB 49=direct8 52=20061005-15:01:15 11=110114001.0 38=100 54=1 40=2 44=51.70 59=0 15=USD 100=BEST 204=0 47=A 440=37710902 167=MULTILEG 555=2 600=MSFT 609=STK 608=ESXXXX 614=100 616=ISLAND 564=O 623=1 624=2 612= 614= 610= 600=IBM 609=STK 608=ESXXXX 564=O 623=1 616=ISLAND 624=1 612= 614= 610= 10=234

4.4 Execution Reports

The execution report message is used to:

- Confirm the receipt of an order
 Confirm changes to an existing order (i.e. accept cancel and replace requests)
- · Relay order status information
- Relay trade reports
- · Reject orders
- · Report trade busts or restatements

Tag	Field Name	Req'd	Comments			
	Standard Header	Υ	MsgType = 8			
37	OrderID	Υ	See notes below for BEST routed combo orders.			
11	CIOrdID	N				
17	ExecID	Y	Unique execution identifiers are provided for the following OrdStatus types (tag 39): Partially Filled Filled Acks. Pending Acks. For OrdStatus types this field will contain 0			
20	ExecTransType	Υ				
19	ExecRefID	Ν	Provided for Cancel and Correct ExecTransType messages.			
39	OrdStatus	Υ	Identifies the current status of the order			
103	OrdRejReason	N	Default value is: 0 = Broker Option			
150	ExecType	Υ	Identifies the type of Execution Report			
151	Leaves Qty	Υ	The amount of shares open for further execution.			
63	SettlmntTyp	N	Only Regular type supported.			
55	Symbol	Υ				
54	Side	Υ				
38	OrderQty	Υ				
40	OrdType	Ν				
44	Price	N				
99	StopPx	N				
59	TimeInForce	N				
47	Rule80A	N				
32	LastShares	Υ				
31	LastPx	Υ				
14	CumQty	Υ				
6	AvgPx	Υ				
60	TransactTime	N				
58	Text	N	Possible Error Text Messages: Duplicate ID No such order Unknown contract Over limit Invalid exchange No clearing rule found Unsupported type Invalid reference Invalid modification Unknown reason Exchange closed Communication time-out			

Tag	Field Name	Req'd	Comments	
			Over credit limit	
439	CarryFirm	Υ	Included for fill and partial fill.	
440	CarryFirmSubAcc.	Ν	Extra user-defined conditionally required field for options and futures options. Included for fill and partial fill.	
167	SecurityType	N	Default Value: CS.	
201	PutOrCall	N	Required for Option orders	
202	StrikePrice	N	Required for Option orders	
200	MaturityMonthYear	N	Required for Futures and Options	
205	MaturityDay	Ν	Day of month used in conjunction with MaturityMonthYear to specify the maturity date. Required for Futures and Options	
207	SecurityExchange	Y*	Delivered for fills and partial fills only - Refer to IB Web site for exchange symbols located under the Resources Section http://www.interactivebrokers.com/	
100	ExDestination	Y*	Delivered for fills and partial fills only - Execution destination, refer to IB Web site symbols located under the Resources Section for various mnemonics: http://www.interactivebrokers.com/	
30	LastMkt	Y*	Delivered on fills and partial fills only - Market of execution for last fill.	
204	CustomerOrFirm	Ν		
6013	ComboLegInfo	N	Will be included on execution reports for combo orders	
6273	tPipExchanges	N	May be sent on order acks and unsolicited order status messges	
	Standard Trailer	Y		

Examples:

New (39=0):

8=FIX.4.1 9=0252 35=8 34=004862 43=N 52=20040728-14:40:57 49=IB 56=direct99 37=0000007c.00003b0f.41073a2a.001 11=48339 17=1091025657.621401 20=0 150=0 39=0 55=IBM 54=1 100=NYSE 207=NYSE 38=100 44=85.33 32=0 31=0.00 14=0 151=100 6=0 167=STK 204=1 60=20040728-14:40:57 40=2 10=182

Partially Filled (39=1)

8=FIX.4.1 9=0252 35=8 34=004862 43=N 52=20040728-14:40:57 49=IB 56=direct99 37=00000032.00003B05.4107e7e1.001 11=20040728-021093285-zz0935 17=00002b1C.820e6ea8.01.01 20=0 150=1 39=1 55=MSFT 54=2 100=ISE 207=ISE 38=2000 44=15 32=500 30=ISE 31=15 14=500 151=1500 6=15 167=OPT 200=200408 201=0 439=123 204=1 60=20040728-20:13:37 40=2 202=17.5 10=128

Order Filled (39=2):

8=FIX.4.1 9=0356 35=8 34=00182 43=N 52=20040728-19:04:06 49=IB 56=direct99 37=00000032.00003b05.4107E7DF.0002 11=20040728-02109-3283-ZZ0933 17=000002b1c.820e6ea5.01.02 20=2 150=2 19=00002b1c.820e6ea5.01.01 39= 2 55=MSFT 54=2 100=ISE 207=ISE 38=1280 44=10 32=300 30=ISE 31=10.4 14=1280 151=0 6=10.2242 167=OPT 200=200408 201=0 439=123 204=1 60=20040728-19:04:06 40=2 202=17.5 10=193

Order Canceled (39=4):

8=FIX.4.2 9=0296 35=8 34=000018 43=N 52=20040728-16:53:22 49=IB 56=direct99 37=00000038.00003B17.4107D4F4.001B 11=B8ESOUH1Q04_117=1091033602.769046 41=B8ESOUH1Q04_1 20=0 150=4 39=4 55=ABN 54=1 38=100 44=28 32=0 31=0.00 14=0 151=0 6=0 167=STK 204=1 58=Limit price is 10% outside of NBBO 60=20040728-16:53:22 40=2 10=002

Order Replaced (39=5):

8=FIX.4.1 9=0328 35=8 34=000068 43=N 52=20040728-18:18:02 49=IB 56=direct99 37=00000032.00003B05.4107E7D6.0001 11=20040728-02109-3269-ZZ0919 17=1091038682.155800 41=20040728-021093268-ZZ0918 20=0 150=5 39=5 55=MSFT 54=2 38=200 99=9 44=5 32=0 31=0.00 14=0 151=200 6=0 167=OPT 200=200408 201=1 204=0 60=20040728-18:18:02 40=4 202=17.5 6058=MQF 59=1 10=130

Pending Cancel (39=6)

8=FIX.4.2 9=0241 35=8 34=000043 43=N 52=20040728-17:09:59 49=IB 56=direct99 37=00000038.00003B17.4107d4fd.001b 11=B8FSP8B1Q0D_1 17=1091032599.665192 20=0 150=0 39=6 55=JPM 54=2 38=10 44=40 32=0 31=0.00 14=0 151=10 6=0 167=STK 204=1 60=20040728-17:09:59 40=2 10=097

Rejected (39=8)

8=fix.4.1 9=0321 35=8 34=000104 43=n 52=20040728-18:31:47 49=IB 56=direct99 37=0 11=20040728-021093276-ZZ0926 17=1091039507.268051 20=0 150=8 103=0 39=8 55=MQF 54=1 38=300 44=18 32=0 31=0.00 14=0 151=0 6=0 167=OPT 200=200408 201=0 58=Cannot have open orders on both sides 10=170

Special Note for Combination Execution Reports:

Depending on customer preferences IB can configure the FIX engine to send execution reports for mutilleg orders in two different ways:

- 1. One execution report to acknowledge each order state change (new, modified, canceled, etc.) except for fill report. For multileg fills, you would receive a combined multileg execution report and individual execution reports for each of the legs.
- 2. Execution reports are only reported for individual legs (never for the combined multileg order). This includes all types of execution reports (fills, new, modified, canceled, etc.).

Tag 6013 (ComboLegInformation) was created to identify the execution report as being for the combo or one of the legs. With the adoption of the FIX 4.3 standard, tags 442 and 654 were introduced that perform the same function. IB currently uses all three tags in the execution reports it sends for combo orders.

The format is as follows:

```
442 (MultiLegReportingType) = 1 - Single Security (default if not specified)
= 2 - Individual leg of a multi-leg security
= 3 - Multi-leg security
```

If tag 442=2, then tag 654 (LegRefID) is included as well. IB returns the leg reference ID defined by the customer in Multileg New Order. IB currently supports only numeric references.

654 (LegRefID) =10 - is an equivalent for leg reference 10

Tag 6013 combines the same information as in tag 442 and 654. IB created it before the adoption of tags 442 and 654. It is still included in the combination execution reports IB sends for reverse compatibility. IB will eventually stop supporting tag 6013 following FIX standard as close as possible.

Example Combo Execution Reports:

Execution Report for Selling 1 Spread (for a credit of .80)

8=FIX.4.1 9=0389 35=8 34=040104 43=N 52=20041001-16:10:52 49=IB 56=miscctci 37=000086f2.00015939.415cebd6.0001 11=3690702 17=0000db32.3e157dfd.01.01 20=0 150=2 39=2 55=OIH 54=2 100=ISE 207=ISE 38=1 44=0.8 32=130=ISE 31=0.8 14=1 151=0 6=0.8 167=MULTILEG 439=234 440=37743127 204=1 60=20041001-16:10:52 6013=-1:2 40=2 10=054

Execution Report for leg reference id 1 (Selling 1 OIH Oct04 85 Call at .90 on ISE)

8=FIX.4.1 9=0485 35=8 34=040105 43=N 52=20041001-16:10:52 49=IB 56=miscctci 37=000086f2.00015939.415cebd6.0001 11=3690702 17=0000db32.3e157dfd.01.01 20=0 150=2 39=2 55=OIH 54=2 100=ISE 207=ISE 38=1 44=0.8 32=1 30=ISE 31=0.9 14=1 151=0 6=0.9 167=OPT 200=200410 201=1 439=234 440=37743127 204=1 60=20041001-16:10:52 6013=0:2 40=2 202=85 10=073

Execution Report for leg reference id 1 (Buying 1 OIH Oct04 85 Call at .10 on ISE)

8=FIX.4.1 9=0486 35=8 34=040106 43=N 52=20041001-16:10:52 49=IB 56=miscctci 37=000086f2.00015939.415cebd6.0001 11=3690702 17=0000db32.3e157dfd.01.01 20=0 150=2 39=2 55=OIH 54=1 100=ISE 207=ISE 38=1 44=0.8 32=1 30=ISE 31=0.1 14=1 151=0 6=-0.1 167=OPT 200=200410 201=1 439=234 440=37743127 204=1 60=20041001-16:10:52 6013=1:2 40=2 202=90 10=090

If a combo order is submitted using BEST

BEST routing logic can split a combination order into individual legs and route the legs independently. For that reason, it is possible for partial executions to occur on multiple exchanges for each leg. For example, a 5 x 5 spread can execute with 5 contracts (for one leg) executing on the CBOE, and 2 contracts (for the other leg) executing on the AMEX and the remainder of 3 (for that same leg) executing on the ISE.

Customizable Settings for Execution Reports

Unsolicited Order Status Messages – By default this is turned off. When it is turned on, an order status message will be sent anytime there is a status change on a stop, stop limit, or trailing stop order. Without it turned on, a status message is only sent when the order is placed and when it is executed.

NOTE: Orders that are submitted using BEST could potentially be split and sent to two or more exchanges simultaneously. That would result in an acknowledgement that contains two or more exchanges in tag 100 and 207. The exchanges are separated by a comma. You would receive a separate execution report for the execution on each exchange.

Send Cancel Acknowledgments – By default this is turned off. When it is turned on, an additional, "Pending Cancel" message is sent. Without it turned on, only a cancel confirmation is sent.

Use LastMkt (tag 30) for Exchange – By default this is turned on. When it is turned on, tag 30 is used for the reporting of the exchange the last execution occurred on. Without it turned on, that information is sent in tag 100.

Trade Busts and Restatements

Occasionally, previously reported trades may be restated or busted. (see www.interactivebrokers.com for IB's bust policy and procedures). These messages are delivered though a FIX session using execution reports flagged with an ExecTransType (tag 20) of either 1 (for a bust) or 2 (for a restatement). For trade busts, the remainder of a trade confirm is included with the previously reported executionID and orderID. The values for cumQty, lastSize, lastShares, and AvgPx are adjusted to reflect the removal of that execution. Trade restatements are essentially the same, with the values for last price or size getting changed to a differerent value rather then zero.

Note: if an execution is busted, it does not automatically become a working order again.

Example: Trade Restatement

8=FIX.4.1 9=0307 35=8 34=008400 43=N 52=20060830-13:42:18 49=IB 56=democtci 37=0001d43b.000120fe.44f543ed.0001 11=2313691787 17=0001cbb4.42c4c437.01.02 150=2 20=2 19=0001cbb4.42c4c437.01.01 39=2 55=VLO 54=1 38=1 44=3 32=1 30=ISE 31=2.9 14=1 151=0 6=2.9 167=OPT 200=200612 201=1 439=777 60=20060830-13:42:18 40=2 202=65 77=O 10=182

4.5 Cancel / Replace Request

The Cancel/Replace Request is used to modify an existing order. Please see the table below for a list of the fields that can and cannot be modified. Required fields that cannot be changed must match the original order. Optional fields that cannot be changed must match the original order if they are included. If optional fields are not included, they are ignored and the modify could be acknowledged if there is no other reason to reject it.

* Any non-required tags sent on the first modification request, must be sent on all subsequent modification requests for that same order.

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = G
21	Handlinst	Υ	
41	OrigCIOrdID	Υ	
37	OrderID	Ν	
11	ClOrdID	Υ	
63	SettlemntTyp	Ν	Must match original order
55	Symbol	Υ	Must match original order
48	SecurityID	Ν	Must match original order
22	IDSource	Ν	Must match original order
54	Side	Y	Must match original order
38	OrderQty	Y	Can be modified
40	OrdType	Υ	IB only supports changing a Limit order to a Market
44	Price	Ν	Can be modified
99	StopPx	Ν	Can be modified only if original order was STP or STP LMT
59	TimeInForce	Ν	IB supports changing Day orders to GTC and back
47	Rule80A	Ν	Must match original order
58	Text	Ν	
126	Expire Time	Ν	Can be changed on Good Til Time orders
432	Expire Date	Ν	Can be changed on Good Til Date orders
439	CarryFirm	N	Must match original order
440	CarryFirmSubAcct	N	Must match original order
6010	OrderReference	Ν	Can be modified
6037	OptionOrigin	N	Must match original order
	NoBarriers	N	Must match original order
	BarrierPrice	N	Can be changed
	BarrierStopPrice	Ν	Can be changed
	BarriertrailingAmt	Ν	Can be changed
	BarrierPriceDelimter	Ν	Must match original order
	BarrierLimitPrice	N	Can be changed
6269	BarrierTrailingAmtUnit	N	Can be changed
	Standard Trailer	Υ	

Example:

8=FIX.4.2 9=150 35=G 49=direct99 56=IB 34=43 52=20040728-17:11:34 11=B8ESP7J1Q0C_2 22=4 55=JPM 54=1 38=300 41=B8ESP7J1W0C_1 44=47.000000 40=2 21=1 100=n 10=231

4.6 Multileg Cancel / Replace Request

The Multileg Cancel/Replace Request is used to modify an existing multileg (combination) order. Please see the table below for a list of the fields that can and cannot be modified. Required fields that cannot be changed must match the original order. Optional fields that cannot be changed must match the original order if they are included. If optional fields are not included, they are ignored and the modify could be acknowledged if there is no other reason to reject it.

* Any non-required tags sent on the first modification request, must be sent on all subsequent modification requests for that same order.

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = AC
21	HandlInst	Υ	
41	OrigClOrdID	Υ	
37	OrdID	N	
11	CIOrdID	Υ	
63	SettlemntTyp	N	Must match original order
55	Symbol	Υ	Must match original order
48	SecurityID	N	Must match original order
22	IDSource	N	Must match original order
54	Side	Υ	Must match original order
38	OrderQty	Υ	Can be modified
40	OrdType	Υ	Must match original order
44	Price	N	Can be modified
99	StopPx	N	Can be modified only if original order was STP or STP LMT
100	ExDestination	N	Must match original order
59	TimeInForce	Ν	Must match original order GTC Combo orders not supported at this time
47	Rule80A	N	Must match original order
58	Text	N	
439	CarryFirm	N	Must match original order
440	CarryFirmSubAcct	N	Must match original order
6010	OrderReference	N	Can be modified
6037	OptionOrigin	N	Must match original order
	Standard Trailer	Υ	

Example:

8=FIX.4.1 9=303 35=AC 49=direct99 56=IB 34=43 52=20040728-17:11:34 11=B8ESP7J1Q0C_2 22=4 55=JPM 54=1 38=10 59=0 15=USD 41=B8ESP7J1W0C_1 44=47.000000 40=2 21=1 204=0 207=ISE 10=231

4.7 Order Cancel Request

The order cancel request is used to transmit a cancel request for a pending order.

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = F
11	CIOrdID	Υ	
41	OrigClOrdID	Υ	
55	Symbol	Υ	
48	SecurityID	N	
22	IDSource	N	
54	Side	Υ	Has to be identical to original side.
38	OrderQty	Υ	
58	Text	N	Taken as a comment only.
	Standard Trailer	Υ	

4.8 Order Cancel Reject

The Order Cancel Reject message is issued when a Cancel Request or Cancel / Replace Request cannot be honored.

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = 9
37	OrderID	Υ	
11	CIOrdID	Υ	
41	OrigClOrdID	Υ	
102	CxlRejReason	N	Provided
434	CxlRejResponseTo	Υ	
58	Text	N	Reject reason (textual description).
	Standard Trailer	Υ	

4.9 Order Status Request

The order status request message is used to request a status on a pending order or orders. IB only uses tag 11 in the request. When a request is made, IB responds with an Execution Report message for the requested order. A special value of " * " may be specified to refer to all the open orders of the customer. In response, IB sends a sequence of Execution Reports containing status information for all open orders. A message containing " * " in the CIOrdID field will terminate the sequence.

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = H
11	CIOrdID	Υ	This is the only field which is used by IB.
	Standard Trailer	Υ	

4.10 Bulletin Messages

Your session can be configured to receive bulletin messages. Bulletin messages can contain system status and exchange status information.

Tag	Field Name	Req'd	Comments
	Standard Header	Υ	MsgType = B
148	Headline	Υ	The text of the Bulletin will be contained in this tag
6143	DailyNewID	Υ	ID number associated with a particular bulletin
61	Urgency	Y	Urgency of message 0 = Normal 1 = Flash 2 = Background
207	Security Exchange	Ν	Used if message applies to a specific exchange
	Standard Trailer	Υ	

Example:

8=FIX.4.1 9=0102 35=B 34=000003 43=N 52=20050504-13:54:48 49=IB 56=direct52 61=1 148=Important Bulletin Message 6143=42805703 207=ALL 10=096

4.11 Drop Copy Support

It is possible to configure a separate "drop copy" session for the purpose of trade reporting. This session can be linked to one or more trading sessions or accounts. The drop copy session is a standard FIX session which follows all of the standard session level rules including backfill.

In addition to the basic session level messages, the following application messages would be sent:

Fill
Partial Fill
Trade Bust / Adjustment

Trade reports are delivered real-time as long as a valid drop copy FIX session is established. Trade reports are queued when the drop copy session is not connected.

If you are interested in setting up a drop-copy session, please contact the FIX integration group.

APPENDIX A: Replaced Features in the IB Implementation of FIX 4.3

If FIX.4.3 is specified in tag 8, certain features have been changed and replaced with a different approach.

Note: Although IB has implemented many aspects of FIX 4.3, we cannot guarantee full FIX 4.3 compliance at this time. IB suggests the use of FIX 4.1 or 4.2 if at all possible.

Tag 20 (ExecTransType) is no longer used in FIX 4.3. This has been replaced with the following values in tag 150 (ExecType):

H = Trade Cancel
G = Trade Correct
I = Order Status

Tag 150 (Exec Type) the values of 150=1 and 150=2 have been replaced with 150=F

Tag 40 (OrdType): The following values have been replaced:

40 = 5 (Market on close) 40 = A (On Close) 40 = B (Limit on Close)

With:

tag 59 = 7 (At the close)

Tag 47 (Rule80A): Has been replaced with the combined use of tags 528 and 529.

Tag 204 (CustomerOrFirm) Has been replace with the use of tag 528

Tags 439 (Clearing Firm) & 440 (Clearing Account): Have been replaced with:

452 = PartyRole 448 = PartyID 447 = PartyIDSource 523 = PartySubID

Tag 167 (Security Type): Values "FUT" and "OPT" have been replaced with the use of the CFI Code in tag 461

APPENDIX B : IB's implementation of Standard FIX tags

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
1	Account	String	Needed for sessions which route orders to multiple IB accounts. The intended IB account number is used by default, although mapping can be implemented to replace the IB account designation with a unique user-specified value.	Account mnemonic as agreed between buy and sell sides, e.g. broker and institution or investor / intermediary and fund manager.	New Order Single New Order Multileg (combo)
6	AvgPx	Float	Per Standard	Calculated average price of all fills on this order.	Execution Report
7	BeginSeqNo	Int	Per Standard	Message sequence number of first message in range to be resent	Resend Request
8	BeginString	String	FIX 4.1 or FIX 4.2 are supported	Identifies beginning of new message and protocol version. ALWAYS FIRST FIELD IN MESSAGE. (Always unencrypted) Valid values: FIX.4.2	Standard Header
9	Body Length	Int	Message length must be 1 to 4 characters long	Message length, in bytes, forward to the CheckSum field. ALWAYS SECOND FIELD IN MESSAGE. (Always unencrypted)	Standard Header
10	Checksum	String	Per Standard	Three byte, simple checksum (See Appendix B of 4.2 manual for description). ALWAYS LAST FIELD IN MESSAGE; i.e. serves, with the trailing <soh>, as the end-of-message delimiter. Always defined as three characters. (Always unencrypted)</soh>	Standard Trailer
11	C1OrdID	String	Per Standard	Unique identifier for Order as assigned by institution. Uniqueness must be guaranteed within a single trading day. Firms which electronically submit multiday orders should consider embedding a date within the CIOrdID field to assure uniqueness across days.	New Order- Single, Execution Report, Cancel, Cancel Replace, Cancel Reject
14	CumQty	Int	Per Standard	Total number of shares filled. (Prior to FIX 4.2 this field was of type int)	Execution Report
15	Currency	Currency	Valid Values: USD = US Dollar AUD = Australian Dollar CAD = Canadian Dollar CHF = Swiss Franc EUR = Euros GBP = British Pound HKD = Hong Kong \$ JPY = Japanese Yen	Identifies currency used for price. Absence of this field is interpreted as the default for the security. It is recommended that systems provide the currency value whenever possible. See Fix 4.2 Manual Appendix A: Valid Currency Codes for information on obtaining valid values.	Execution Report
16	EndSeqNo	Int	EndSeqNo = "0" is currently not supported by IB. A specific sequence number must be specified.	Message sequence number of last message in range to be resent. If request is for a single message BeginSeqNo = EndSeqNo. If request is for all messages subsequent to a particular message, EndSeqNo = "0" (representing infinity).	Resend

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
17	ExecID	String	Per Standard	Unique identifier of execution message as assigned by broker (will be 0 (zero) for ExecTransType=3 (Status)). Uniqueness must be guaranteed within a single trading day or the life of a multi-day order. Firms which accept multi-day orders should consider embedding a date within the ExecID field to assure uniqueness across days. (Prior to FIX 4.1 this field was of type int)	Execution Report
18	ExecInst	Multiple Value String	IB Supports the following Values: P = Market Peg R = Primary peg (primary market – buy at bid/sell at offer) G = All or None W = Peg to VWAP a = Trailing Stop Peg (FIX 4.4) s = Peg to stock (IB Custom value) e =	Instructions for order handling on exchange trading floor. If more than one instruction is applicable to an order, this field can contain multiple instructions separated by space. Valid values: 1 = Not held 2 = Work 3 = Go along 4 = Over the day 5 = Held 6 = Participate don't initiate 7 = Strict scale 8 = Try to scale 9 = Stay on bidside 0 = Stay on offerside A = No cross (cross is forbidden) B = OK to cross C = Call first D = Percent of volume "(indicates that the sender does not want to be all of the volume on the floor vs. a specific percentage)" E = Do not increase - DNI F = Do not reduce - DNR G = All or none - AON I = Institutions only L = Last peg (last sale) M = Mid-price peg (midprice of inside quote) N = Non-negotiable O = Opening peg P = Market peg R = Primary peg (primary market - buy at bid/sell at offer) S = Suspend T = Fixed Peg to Local best bid or offer at time of order U = Customer Display Instruction (Rule11Ac1-1/4) V = Netting (for Forex) W = Peg to VWAP	New Order-Single
19	ExecRefID	String	Provided for Cancel and Correct ExecTransType messages	Reference identifier used with Cancel and Correct transaction types. (Prior to FIX 4.1 this field was of type int)	Execution Report
20	ExecTransType	Char	Per Standard	Identifies transaction type Valid values: 0 = New 1 = Cancel 2 = Correct 3 = Status	Execution Report

TAG #	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
21	Hand1Inst	Char	The only supported value for IB is: 2 = Automated execution order, public, Broker intervention OK.	Instructions for order handling on Broker trading floor Valid values: 1 = Automated execution order, private, no Broker intervention 2 = Automated execution order, public, Broker intervention OK 3 = Manual order, best execution	Order, Cancel, Replace
22	IDSource	String	IB supports 1=CUSIP 4=ISIN	Identifies class of alternative SecurityID Valid values: 1 = CUSIP 2 = SEDOL 3 = QUIK 4 = ISIN number 5 = RIC code 6 = ISO Currency Code 7 = ISO Country Code 8 = Exchange Symbol 9 = Consolidated Tape Association (CTA) Symbol (SIAC CTS/CQS line format) 100+ are reserved for private security identifications	Order, Execution Report, Cancel, Replace
30	LastMkt	Exchang e	Per Standard	Market of execution for last fill. Valid Values: See Appendix C of Fix 4.2 Manual	Execution Report
31	LastPx	Float	Per Standard	Price of this (last) fill. Field not required for ExecTransType = 3 (Status)	Execution Report
32	LastShares	Qty	Per Standard	Quantity of shares bought/sold on this (last) fill. Field not required for ExecTransType = 3 (Status) (Prior to FIX 4.2 this field was of type int)	Execution Report
34	MsgSeqNum	Int	Per Standard	Integer message sequence number.	Standard Header

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
35	MsgType	Int	IB Supports the following values: 0 = Heartbeat 1 = Test Request 2 = Resend Request 3 = Reject 4 = Sequence Reset 5 = Logout 8 = Execution Report 9 = Order Cancel Reject A = Logon D = Order Single F = Order Cancel/ Replace Req H = Order Status Request B = Bulletin Message AB = New Order- Multileg AC = Cancel Replace - Multileg	Defines message type. ALWAYS THIRD FIELD IN MESSAGE. (Always unencrypted) Note: A "U" as the first character in the MsgType field (i.e. U1, U2, etc) indicates that the message format is privately defined between the sender and receiver. Valid values: *** Note the use of lower case letters **** 0 = Heartbeat 1 = Test Request 2 = Resend Request 3 = Reject 4 = Sequence Reset 5 = Logout 6 = Indication of Interest 7 = Advertisement 8 = Execution Report 9 = Order Cancel Reject A = Logon B = News C = Email D = Order - Single E = Order - List F = Order Cancel/Replace Request H = Order Status Request J = Allocation K = List Execute M = List Status Request N = Allocation ACK Q = Don't Know Trade (DK) R = Quote Request S = Quote T = Settlement Instructions V = Market Data Request W = Market Data Request W = Market Data Request D = Quote Request S = Quote T = Settlement Incremental Refresh X = Market Data Request D = Quote Status Request D = Green D =	Standard Header
36	NewSeqNo	Int	Per Standard	New sequence number	Sequence Reset
37	OrderID	String	* For combo orders, an additional value will be added to the end of the order ID to identify the leg of the execution in the event of a partial execution on a BEST routed combo order	Unique identifier for Order as assigned by broker. Uniqueness must be guaranteed within a single trading day. Firms which accept multi-day orders should consider embedding a date within the OrderID field to assure uniqueness across days.	Execution Report, Cancel/Replace Request, Order Cancel Reject
38	OrderQty	Qty	Per Standard	Number of shares ordered	New Order- Single, Execution Report, Cancel, Cancel Replace

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
39	OrdStatus	Char	IB Supports the following values: 0 = New 1 = Partially filled 2 = Filled 4 = Canceled 5 = Replaced 6 = Pending Cancel 8 = Rejected A = Pending New C = Expired E = Pending Replace (Returned if tag 8 =FIX.4.3)	Identifies current status of order. Valid values: 0 = New 1 = Partially filled 2 = Filled 3 = Done for day 4 = Canceled 5 = Replaced 6 = Pending Cancel (e.g. result of Order Cancel Request) 7 = Stopped 8 = Rejected 9 = Suspended A = Pending New B = Calculated C = Expired D = Accepted for bidding E = Pending Replace (e.g. result of Order Cancel/Replace Request)	Execution Report
40	OrdType	Char	IB Supports the following values: 1 = Market 2 = Limit 3 = Stop 4 = Stop limit 5 = Market on close B = Limit on close P = Pegged (requires execInst = L, R, M, P or O) TSL = Trailing Stop Limit	Order type. Valid values: 1 = Market 2 = Limit 3 = Stop 4 = Stop limit 5 = Market on close 6 = With or without 7 = Limit or better 8 = Limit with or without 9 = On basis A = On close B = Limit on close C = Forex - Market D = Previously quoted E = Previously indicated F = Forex - Limit G = Forex - Swap H = Forex - Previously Quoted I = Funari (Limit Day Order with unexecuted portion handled as Market On Close, e.g. Japan) P = Pegged (requires ExecInst = L, R,M,P or O)	New Order- Single, Execution Report, Cancel/Replace Request
41	OrgClOrdlD	String	Per Standard	ClOrdID of the previous order (NOT the initial order of the day) as assigned by the institution, used to identify the previous order in cancel and cancel/replace requests.	Cancel/replace Request, Order Cancel Request, Order Cancel Reject
43	PossDupFlag	Boolean	Per Standard	Indicates possible retransmission of message with this sequence number	Standard Header
44	Price	Price	Per Standard	Price per share	New Order- Single, Execution Reports, Cancel/Replace Request
45	RefSeqNo	Int	Per Standard	Reference message sequence number. MsgSeqNum of rejected message	Reject

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
47	Rule80A (aka OrderCapacity)	Char	IB Supports the following Values: A = Agency single order J = Program Order, index arb, for individual customer K = Program Order, non- index arb, for individual customer I = Individual Investor, single order P = Principal U = Program Order, index arb for other agency Y = Program Order, non- index arb, for other agency M = Program Order, index arb for other member N = Program Order, non-index arb for other member W = All other orders as agent for other member Default value is A ** If tag9 = FIX.4.3 then tags 528 and 529 should be used in place of tag 47	Note that the name of this field is changing to "OrderCapacity" as Rule80A is a very US market-specific term. Other world markets need to convey similar information, however, often a subset of the US values. See the "Rule80A (aka OrderCapacity) Usage by Market" appendix for market-specific usage of this field. Valid values: A = Agency single order B = Short exempt transaction (refer to A type) C = Program Order, non-index arb, for Member firm/org D = Program Order, index arb, for Member firm/org E = Registered Equity Market Maker trades F = Short exempt transaction (refer to W type) H = Short exempt transaction (refer to I type) I = Individual Investor, single order J = Program Order, index arb, for individual customer K = Program Order, non-index arb, for individual customer L = Short exempt transaction for member competing market-maker affiliated with the firm clearing the trade (refer to P and O types) M = Program Order, index arb, for other member N = Program Order, non-index arb, for other member O = Competing dealer trades P = Principal R = Competing dealer trades P = Principal R = Competing dealer trades U = Program Order, index arb, for other member X = Short exempt transaction for member competing dealer trades U = Program Order, index arb, for other member X = Short exempt transaction for member competing market-maker not affiliated with the firm clearing the trade (refer to W and T types) Y = Program Order, non-index arb, for other agency Z = Short exempt transaction for non-member competing market-maker not affiliated with the firm clearing the trade (refer to W and T types) Y = Program Order, non-index arb, for other agency Z = Short exempt transaction for non-member competing market-maker (refer to A and R types)	New Order Single, Execution Reports, Cancel/Replace Request
48	SecurityID	String	Only CUSIP or ISIN are supported.	CUSIP or other alternate security identifier	New Order Single, Execution Reports, Cancel/Replace Request, Order Cancel Request
49	SenderCompID	String	Per Standard	Assigned value used to identify firm sending message.	Standard Header
50	SenderSubID	String	Per Standard	Assigned value used to identify specific message originator (desk, trader, etc.)	Standard Header
52	SendingTime	UTC Time Stamp	Per Standard	Time of message transmission (always expressed in UTC (Universal Time Coordinated, also known as "GMT")	Standard Header

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
54	Side	Char	IB supports the following values: 1 = Buy 2 = Sell 3 = BuyMinus (interpreted as buy) 4 = SellPlus (interpreted as sell) 5 = Sell Short	Side of order Valid values: 1 = Buy 2 = Sell 3 = Buy minus 4 = Sell plus 5 = Sell short 6 = Sell short exempt 7 = Undisclosed (valid for IOI and List Order messages only) 8 = Cross (orders where counterparty is an exchange, valid for all messages except IOIs) 9 = Cross short	New Order- Single, Execution Report, Cancel/Replace Request, Order Cancel Request
55	Symbol	String	For Options, underlying symbol should be used as a default. If you wish to use the option class symbol, your session needs to be configured to do so. Please contact IB's FIX integration department.	Ticker Symbol	New Order- Single, Execution Report, Cancel/Replace Request, Order Cancel Request
56	TargetCompID	String	Default is "IB" If required the value can be determined by the client, please notify FIX Intergration Group.	Assigned value used to identify receiving firm	Standard Header
57	TargetSubID	String	Per Standard	Assigned value used to identify specific individual or unit intended to receive message. "ADMIN" reserved for administrative messages not intended for a specific user.	Standard Header
58	Text	String	Messages returned from IB depend on the message type. See the various tables in the Application Messages documentation section	Free format text string (Note: this field does not have a specified maximum length)	Reject, Sequence Reset, New Order-Single, Execution Report, order Cancel Request, Order Cancel Reject
59	TimeInForce	Char	If specified, the valid values are 0 = Day 1 = GTC 2 = OPG 3 = IOC 4 = Fill or Kill (FOK) 6 = GTD (If used, EITHER tag 432 or tag 126 can be used. NOT both.) 7 = At the Closing	Specifies how long the order remains in effect. Absence of this field is interpreted as DAY. Valid values: 0 = Day 1 = Good Till Cancel (GTC) 2 = At the Opening (OPG) 3 = Immediate or Cancel (OC) 4 = Fill or Kill (FOK) 5 = Good Till Crossing (GTX) 6 = Good Till Date 7 = At the Closing	New Order- Single, Execution Report, Cancel/Replace Request
60	TransactTime	UTC Time Stamp	Per Standard	Time of execution/order creation (expressed in UTC (Universal Time Coordinated, also known as "GMT")	Execution Reports,
61	Urgency	Char	Used in bulletin messages.	Urgency of message 0 = Normal 1 = Flash 2 = Background	Bulletins

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
63	SettlmntTyp	Char	IB supports the following value only: 0 = Regular	Indicates order settlement period. Absence of this field is interpreted as Regular. Regular is defined as the default settlement period for the particular security on the exchange of execution. Valid values: 0 = Regular 1 = Cash 2 = Next Day 3 = T+2 4 = T+3 5 = T+4 6 = Future 7 = When Issued 8 = Sellers Option 9 = T+5	Execution Reports, Cancel/Replace Request
77	OpenClose renamed PositionEffect (FIX 4.3 +)	Char	For options only. Valid Values: O=Open C=Close	Indicates whether the resulting position after a trade should be an opening position or closing position. Used for omnibus accounting - where accounts are held on a gross basis instead of being netted together. Valid Values: O = Open C = Close R = Rolled (FIX 4.3) F = FIFO (FIX 4.3)	New Order-Single
97	PossResend	Boolean	Per Standard	Indicates that message may contain information that has been sent under another sequence number. Valid Values: Y=Possible resend N=Original transmission	Standard Header
98	EncryptMethod	Int	IB does not currently support encryption. Valid value = 0	Method of encryption. Valid values: 0 = None / other 1 = PKCS (proprietary) 2 = DES (ECB mode) 3 = PKCS/DES (proprietary) 4 = PGP/DES (defunct) 5 = PGP/DES-MD5 (see app note on FIX web site) 6 = PEM/DES-MD5 (see app note on FIX web site)	Logon
99	StopPx	Price	Price per share. Valid Values: 0 - 99999999.9999 (number of decimal places may vary and not limited to four). Specify the trailing amount in the StopPx field when creating a Trailing Stop order.	Price per share	New Order- Single, Execution Report, Cancel/Replace Request
100	ExDestination	Exchang e	If "BEST" is used, either tag 207 or tag 15 must be used as well. For options, IB uses underlying symbol	Execution destination as defined by institution when order is entered. See Appendix C of Fix 4.2 Manual	New Order- Single, Execution Report,
102	CxlRejReason	Int	Per Standard	Code to identify reason for cancel rejection. Valid values: 0 = Too late to cancel 1 = Unknown order 2 = Broker Option 3 = Order already in Pending Cancel or Pending Replace status	Order Cancel Reject

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
103	OrdRejReason	Int	Supported Values: 0 = Broker Option (default if omitted) 3 = Order exceeds limit	Code to identify reason for order rejection. Valid values: 0 = Broker option 1 = Unknown symbol 2 = Exchange closed 3 = Order exceeds limit 4 = Too late to enter 5 = Unknown Order 6 = Duplicate Order (e.g. dupe ClOrdID) 7 = Duplicate of a verbally communicated order 8 = Stale Order	Execution Reports
108	HeartBtInt	Int	A heartbeat interval of 30 seconds is suggested. The initiator may set it to any value, but the acceptor (IB) may override this interval when necessary. That means that the initiator has to be prepared to receive and respond to Test Request and Heartbeat messages in any case.	Heartbeat interval (seconds)	Logon
110	MinQty	Qty	Per Standard	Minimum quantity of an order to be executed	New Order Single
111	MaxFloor	Qty	Per Standard	Maximum number of shares within an order to be shown on the exchange floor at any given time. (Prior to FIX 4.2 this field was of type int)	New Order-Single
112	TestReqID	String	A timestamp string is suggested for TestReqID	Identifier included in Test Request message to be returned in resulting Heartbeat	Test Request
114			Valid codes = N or Y. Required for short sale orders involving U.S. equity securities ("stocks"). If customer uses IB as its executing broker but uses a clearing broker other than IB (a "Non-Cleared Customer") and Tag 6086 contains the value "1" or "2", this Tag 114 must contain the value "N". IB will not accept a short sale order if a Non-Cleared Customer enters the value Y in Tag 114. If customer uses IB as its executing broker and clearing broker (a "Cleared Customer"), then such Cleared Customer is not required to populate this field.	Indicates whether the broker is to locate the stock in conjunction with a short sale order. Valid Values: Y = Indicates the broker is responsible for locating the stock. N = Indicates the broker is not required to locate.	New Order - Single
122	OrigSendingTime	UTC Time Stamp	Per Standard	Original time of message transmission (always expressed in UTC (Universal Time Coordinated, also known as "GMT") when transmitting orders as the result of a resend request.	Message Header
123	GapFillFlag	Boolean	Per Standard	Indicates that the Sequence Reset message is replacing administrative or application messages which will not be resent. Valid values: Y = Gap Fill message, MsgSeqNum field valid N = Sequence Reset, ignore MsgSeqNum	Sequence Reset
126	ExpireTime	UTCTim eStamp	Specify the date and time in the format below: yyyymmdd-hh:mm:ss	Time/Date of order expiration (always expressed in UTC (Universal Time Coordinated, also known as "GMT")	New Order-Single

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
141	ResetSeqNumFla g	Boolean	This field is required when a new session is to be opened.	Indicates that the both sides of the FIX session should reset sequence numbers. Valid values: Y = Yes, reset sequence numbers N = No	Logon
148	Headline	Text	Used in bulletin messages, 35=B	The headline of a news message	Bulletin
150	ExecType	Char	IB supports the following values: 0 = New 1 = Partial Fill 2 = Fill 4 = Canceled 5 = Replace 6 = Pending Cancel/Replace A = Pending New 8 = Rejected C = Expired D = Restated E = Pending Replace	Describes the specific ExecutionRpt (i.e. Pending Cancel) while OrdStatus will always identify the current order status (i.e. Partially Filled) Valid values: 0 = New 1 = Partial fill 2 = Fill 3 = Done for day 4 = Canceled 5 = Replace 6 = Pending Cancel (e.g. result of Order Cancel Request) 7 = Stopped 8 = Rejected 9 = Suspended A = Pending New B = Calculated C = Expired D = Restated (ExecutionRpt sent unsolicited by sellside, with ExecRestatementReason set) E = Pending Replace (e.g. result of Order Cancel/Replace Request)	Execution Reports
151	Leaves Qty	Qty	Per Standard	Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty. (Prior to FIX 4.2 this field was of type int)	Execution Reports

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
167	SecurityType	String	CS FUT OPT WAR MULTILEG MLEG CASH	Indicates type of security (ISITC spec) Valid values: BA = Bankers Acceptance CB = Convertible Bond (Note not part of ISITC spec) CD = Certificate Of Deposit CMO = Collateralize Mortgage Obligation CORP = Corporate Bond CP = Commercial Paper CPP = Corporate Private Placement CS = Common Stock FHA = Federal Housing Authority FHL = Federal Home Loan FN = Federal National Mortgage Association FOR = Foreign Exchange Contract FUT = Future GN = Government National Mortgage Association GOVT = Treasuries + Agency Debenture IET Mortgage IOETTE MF = Mutual Fund MIO = Mortgage Interest Only MPO = Mortgage Private Placement MPT = Miscellaneous Pass-Thru MUNI = Municipal Bond NONE = No ISITC Security Type OPT = Option PS = Preferred Stock RP = Repurchase Agreement RVRP = Reverse Repurchase Agreement SL = Student Loan Marketing Association TD = Time Deposit USTB = US Treasury Bill WAR = Warrant ZOO = Cats, Tigers & Lions (a real code Treasury Receipts)	New Order- Single, Execution Reports
168	EffectiveTime	UTCTim eStamp	To be entered in the format: yyyymmdd-hh:mm:ss	Time the details within the message should take effect (always expressed in UTC (Universal Time Coordinated, also known as "GMT")	New Order-Single
200	MaturityMonthYea r	month- year	Per Standard	Month and Year of the maturity for SecurityType=FUT or SecurityType=OPT Format: YYYYMM (i.e. 199903)	
201	PutOrCall	Int	Per Standard	Indicates whether an Option is for a put or call Valid values: 0 = Put 1 = Call	New Order- Single, Execution Report
202	Strike Price	Price	Per Standard	The strike price for an option	
204	CustomerOrFirm	Int	Required for Options Orders Valid Values: 0 = Customer 1 = Firm	Used for options when delivering the order to an execution system/exchange to specify if the order is for a customer or the firm placing the order itself. Valid values: 0 = Customer 1 = Firm	
207	SecurityExchange	Exchang e	If "BEST" is selected in tag 100, tag 207 can be used to specify the primary exchange of the product	Market used to help identify a security. Valid Values: See Fix 4.2 manual Appendix C:	New Order- Single, Execution Report,
211	PegDifference	PriceOffs	Per Standard	Amount (signed) added to the price of the	
231	ContractMultiplier	Float	This tag should be used to identify option contracts if the underlying symbol is used in tag 55	peg for a pegged order Specifies the ratio or multiply factor to convert from contracts to shares (e.g. 1.0, 100, 1000, etc). Applicable For Fixed Income, Convertible Bonds, Derivatives, etc. Note: If used, quantities should be expressed in the "nominal" (e.g. contracts vs. shares) amount.	

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
388	DiscretionInst	Char	IB Currently supports: 0 = Related to displayed price	Code to identify the price a DiscretionOffset is related to and should be mathematically added to. Valid Values: 0 = Related to display price 1 = Related to market price 2 = Related to primary price 3 = Related to local primary price 4 = Related to midpoint price 5 = Related to last trade price	
389	DiscretionOffset	PriceOffs et	Per Standard	Amount (signed) added to the "related to" price specified via DiscretionInst.	
432	ExpireDate	Local Mkt Date	Per Standard	Date of order expiration (last day the order can trade), always expressed in terms of the local market date. The time at which the order expires is determined by the local market's business practices	
434	CxlRejResponseT o	Int	Per Standard	Identifies the type of request that a cancel replace request is in response to. Valid Values:	Cancel Reject
				1 = Order Cancel Request 2 = Order Cancel/Replace Request	
439	Clearing Firm	String	Clearing Firm Identifier. This tag supports multiple 'giveups' per customer: The customer may have multiple give-up's per exchange. Tag #439 (CarryFirm) is used to specify the settling firm the customer wants to use. There are 3 basic cases: 1.When no clearing firm identifier for the exchange/contract type is listed in the customer's clearing account information file: The Order is rejected regardless of value of CarryFirm 2. When one clearing firm identifier for a exchange/contract type is listed in the customer's clearing account information file: If CarryFirm is NOT specified in the Fix message by the customer, the entry in the customer's clearing account information is used. If CarryFirm is specified, the value of CarryFirm must match that in the customer's clearing account information otherwise order is rejected 3. When a multiple clearing firm identifier for the exchange/contract type is set-up in the customer's clearing account information file: If CarryFirm is NOT specified in the Fix message by the customer, the order is rejected. If CarryFirm is specified, the value of CarryFirm is specified.	Firm that will clear the trade. Used if different than the executing firm.	New Order, Execution Report
440	Clearing Account	String	Extra user-defined required field for Non-IB Clearing CTCI Accounts when placing futures and futures options orders.	Supplemental accounting information forwarded to clearing house/ firm	New Order, Execution Report

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
442	MultilegReporting Type	Char	IB Uses this tag in addition to the custom tag 6013 for Combo order execution reports. If 442=2 then tag 654 will be included as well	Used to indicate what an Execution Report represents (e.g. used with multi-leg securities, such as option strategies, spreads, etc.). Valid Values: 1 = Single Security (default if not specified) 2 = Individual leg of a multi-leg security 3 = Multi-leg security	Execution Report
461	CFICode	String	Per Standard	Indicates the type of security using ISO 10962 standard, Classification of Financial Instruments (CFI code) values. ISO 10962 is maintained by ANNA (Association of National Numbering Agencies) acting as Registration Authority.	
528	OrderCapacity	Char	Valid Values: A = Agency P = Principal	Designates the capacity of the Firm placing the order. Valid values: A=Agency G=Proprietary I=Individual P=Principal R=Riskless Principal W=Agent for another member (as of FIX 4.3, this field replaced Rule80A (tag 47)used in conjunction with OrderRestrictions (529) field)	New Order
529	Order Restrictions	MultipleV alueStrin g	Valid Values: 1 = Program Trade 2 = Index Arbitrage 3 = Non-Index Arb. 4 = Competing Market Maker 5 = Acting as Market Maker of Specialist in the underlying security of a derivative security	Restrictions associated with an order. If more than one restriction is applicable to an order, this field can contain multiple instructions separated by space Valid values: 1 = Program Trade 2 = Index Arbitrage 3 = Non-Index Arbitrage 4 = Competing Market Maker 5 = Acting as Market Maker or Specialist in the security 6 = Acting as Market Maker or Specialist in the underlying security of a derivative security 7 = Foreign Entity (of foreign government or regulatory jurisdiction) 8 = External Market Participant 9 = External Inter-connected Market Linkage A = Riskless Arbitrage	New Order
541	MaturityDate	Date	Format: yyyymmdd ** Date should reflect the last trading day of the contract. (typically the Friday before expiration Saturday)	Used in place of tag 200 to identify option contracts that may be ambiguous due to listing of weekly and quarterly options within that same month and strike.	New Order (opt/fut/war)
555	NoLegs	NumInGr oup	Per Standard	Number of InstrumentLeg repeating group instances.	New Order- Multileg
564	LegPositionEffect	Char	Per Standard	PositionEffect for leg of a multileg See PositionEffect (77) field for description	New Order- Multileg

TAG#	Tag Name	Data Type	IB Implementation	Fix Standard Definition	Used In
583	C1OrdLinkID	Srring	Used for OCA orders. Must contain the string IBOCAGROUP Followed with a name for that OCA group Example: IBOCAGROUP group1	Permits order originators to tie together groups of orders in which trades resulting from orders are associated for a specific purpose, for example the calculation of average execution price for a customer or to associate lists submitted to a broker as waves of a larger program trade	New Order - Single
600	LegSymbol	String	Per Standard	Multileg instrument's individual security's Symbol. See Symbol (55) field for description	New Order- Multileg
608	LegCFICode	String	Per Standard	Multileg instrument's individual security's CFICode. See CFICode (461) field for description	New Order- Multileg
609	LegSecurityType	String	Per Standard	Multileg instrument's individual security's SecurityType. See SecurityType (167) field for description	New Order Multileg
610	LegMaturityMonth Year	month- year	Per Standard	Multileg instrument's individual security's MaturityMonthYear. See MaturityMonthYear (200) field for description	New Order- Multileg
612	LegStrikePrice	Price	Per Standard	Multileg instrument's individual security's StrikePrice. See StrikePrice (202) field for description	New Order- Multileg
614	LegContractMultip lier	Float	Per Standard	Multileg instrument's individual security's ContractMultiplier. See ContractMultiplier (231) field for description	New Order- Multileg
616	LegSecurityExcha nge	Exchang e	Per Standard	Multileg instrument's security exchange designation used for product identification	
623	LegRatioQty	Float	Per Standard	The ratio of quantity for this individual leg relative to the entire multileg security	New Order- Multileg
624	LegSide	Char	Per Standard	The side of this individual leg (multileg security). cr See Side (54) field for desciption	New Order- Multileg
636	WorkingIndicator	Boolean	Per Standard	Indicates if the order is currently being worked. Applicable only for OrdStatus = "New". For open outcry markets this indicates that the order is being worked in the crowd. For electronic markets it indicates that the order has transitioned from a contingent order to a market order. Valid values: Y = Order is currently being worked N = Order has been accepted but not yet in a working state	Execution Reports
654	LegRefID	String	Used to identify the leg of a combination order reported on an execution report. Valid Values 1 = Leg 1 2 = Leg 2 3 = Leg 3 4 = Etc.	Unique identifier for a specific leg. (combo orders)	Execution Reports

APPENDIX C: CUSTOM IB TAGS (847+)

TAG #	TAG NAME	DATA TYPE	IB Implementation	USED IN
847	tTargetStrategyname	String	Used for IB Algo Orders Valid Values: ArrivalPx PctVol Vwap BalanceImpactRisk MinImpact Used for IB Algo Order	New Order (IB Algos)
849	tParticipationRate	Percent	Percentage in decimal form.	(IB Algos)
5700	tLocateBroker	String	Tag 5700 is required for short sale orders involving U.S. stocks to indicate the present location of the shares that are to be delivered in connection with customer's short sale order. Customers who use IB as their executing broker only, must enter a valid Market Participant Identifier ("MPID") for the clearing broker or other custodian with whom the customer has arranged to borrow the shares that are to be delivered in connection with customer's short sale order. A list of MPID's is located at: www.interactivebrokers.com/MPIDlist . If you do not see a valid MPID for your clearing broker or custodian, you must send an e-mail to: proserve@interactivebrokers.com. (Note: This field will be automatically populated with the MPID "IBKR" for those customers who use IB as both their executing broker and clearing broker). *If more then one MPID needs to be included, you can list more then one using a comma (,) as a delimiter.	New Order
5957	tNoStrategyParameters	Integer	Used for IB Algo Orders	New Order (IB Algos)
5958	tStrategyParameterName	String	Used for IB Algo Orders Valid Values: riskAversion pctVol forceCompletion	New Order (IB Algos)
5960	StrategyParameterValue	String	Used for IB Algo Orders Valid Values: Aggressive Passive Neutral Get Done	New Order (IB Algos)
6004	tExchange			Execution Report
6008	tContractID			New Order
6009	ConQPath	String	Contains contract definition data. Not delivered in most FIX sessions	Execution Report
6010	Order Reference Account	String	Extra user-defined field for additional identification for customer orders.	New Order-Single

TAG#	TAG NAME	DATA TYPE	IB Implementation	USED IN
6013	ComboLegInformation	Multiple Value String (colon : delimited)	Defines the leg of a combination order in an execution report. The format is two columns separated by a colon (:) The first column represents the leg number for the execution report1 represents the spread itself. 0 represents the fist leg, 1 represents the second leg, etc. The second column represents the total number of legs. For example, an execution report for the second leg or a two leg spread would have the following value. 1:2 The execution report for the spread itself on a two leg spread would be. -1:2	Execution Report
6035	IB Local Symbol	String	For US Equity Options with multiple series. Refers to the contract symbol on the primary exchange where the contract is traded. In case of US equity options it refers to the OCC symbol of the option contract. The use of this field is optional when specifying a contract. The OCC symbol should be entered in a 5 character format. If the Option Class symbol is less than 3 characters the remainder should be entered as spaces. For Example: IBM Jan05 30 call = IBZAF (no spaces) GE Jan05 35 call = GE AG (1 space) F Jan05 15 call = F AC (2 spaces) If "IBLocalSymbol" is included in the contract specification then it is used the following way: 1.) If the contract specification is ambiguous, IBLocalSymbol does not match any of the ambiguous candidates, the order is rejected with "ambiguous contract". 2.) If the contract specification is not ambiguous, IBLocalSymbol is checked against the IB contract database. In case of a mismatch the order is rejected with "incorrect local symbol".	New Order-Single
6058	TradingClass	String	Used for product identification for Options only. This represents the option "class" Example: The underlying symbol for Microsoft is "MSFT" The option class symbol for Microsoft is "MSQ"	New Order-Single
6075	tlssueDate		•	
6076	tBDSymbol			
6077	tBDFlag			

TAG#	TAG NAME	DATA TYPE	IB Implementation	USED IN
6086	ShortSaleRule	Int	The valid values are either "1" or "2". The value "1" may only be used by an IB customer who uses IB as its executing broker only and does not use IB as its clearing broker (a "Non-Clearing Customer"). The value "1" may only be used by a Non-Clearing Customer who has arranged with its clearing broker or custody agent (as designated in Tag 439 on the order) to borrow the shares that are required to be delivered in connection with the short sale order. The value "2" may only be used by a Non-Clearing Customer who has arranged with a clearing broker or custody agent other than its usual clearing broker or custody agent to borrow the shares that are required to be delivered in connection with the short sale order, i.e. a party other than the clearing firm designated in Tag 439 on the order. If a Non-Clearing customer uses the value "2" for this Tag 6086, the Non-Clearing Customer must also use in combination Tags 114 (with the value "N") and 5700 (with the clearing	New Order
			broker's or custody agent's MPID). An IB customer who executes and clears through IB (a "Cleared Customer") may not use this Tag 6086. Used to created orders that are contingent upon the	
6107	ParentClientID	String	execution of another order. Child orders must specify the clientOrderID of the parent order. Child orders are not submitted until the parent order fills.	New-Order Single
6115	Trigger Method		Sets the Stop Trigger Method for stops, stop limits, and trailing stops.	New Order
6116	Ignore Regular Trading Hours	Int	Setting to allow for the triggering of stop orders outside regular market hours. Valid Values: 1 = Allow triggering outside of regular trading hours If tag is omitted, triggering will be limited to regular trading hours.	New Order
6122	tOptionAcct	String	Specifies the order capacity. This tag take precedence over all other order capacity tags. Valid Values: c = Customer f = Firm m = Market Maker b = Broker Dealer n = away Market Maker y = Specialist in Underlying	New Order
6123	Condition ConID	String	IB's internal contract ID	New Order-Single
6124	Condition Exchange	Exchange	The condition needs to be met based upon market data from this exchange	New Order-Single
6125	Condition Trigger Price	Price	The trigger price for the condition	New Order-Single
6126	Condition Operand	String	The condition operation Valid Values: <= >=	New Order-Single

TAG#	TAG NAME	DATA TYPE	IB Implementation	USED IN
			Trigger method for the condition	
			Valid Values:	
6127	Condition Trigger Method	Int	1 = Double Bid/Ask	New Order-Single
			2 = Last 3 = Double Last	
			4 = Bid/Ask	
			Setting to allow for the triggering of conditional orders outside regular market hours.	
6128	Condition Ignore Regular	Int	Valid Values:	New Order-Single
0120	Trading Hours	mit.	1 = Allow triggering outside of regular trading hours	New Order-Single
			If tag is omitted, triggering will be limited to regular trading hours.	
6136	Condition List Size	float	The number of conditions in the message	New Order-Single
			The logical binder used with multiple conditions.	
6137	Condition Logic Operant/Binder	Char	a = and o = or	New Order-Single
	Ореганивниен		n = non defined (should only be used with the last	
6143	DailyNewID	Char	condition in a list) ID number associated with a particular bulletin	Bulletin
0140	Banyrewib	Onai	Specifies if the order should be submitted or canceled	Balletill
6151	Condition for Submit or Cancel	Int	if the condition is met	New Order-Single
0.01	Container for Cubinit of Curion		0 = Submit 1 = Cancel	Them Gradin Gilligie
			Used in conjunction with the custom Tag 18=s (peg to	
6152	StockRangeLower	Price	stock) function. This tag specifies the lower range of the underlying	New Order-Single
			range for a delta order. If the underlying stock goes below this value, the order is canceled	
			Used in conjunction with the custom Tag 18=s (peg to stock) function.	
6153	StockRangeUpper	Price	This tag specifies the lower range of the underlying	New Order-Single
			range for a delta order. If the underlying stock goes above this value, the order is canceled	
			Used in conjunction with the custom Tag 18=s (peg to stock) function.	
6154	Delta	Float	This tag specifies the delta to be used in the order. Value must be between -100 and 100. (the sign is	New Order-Single
			ignored)	
6165	Condition Underlying	String	Underlying symbol of the product upon which the condition exists.	New Order-Single
6166	Condition Strike	Price	The strike price of the security if it is an option	New Order-Single
_			The right of an option (call or put)	
6167	Condition Right	Char	Valid Values:	New Order-Single
			C = Call	_
			P = Put The expiration year and month (for futures or options)	
6168	Condition Expiry	Month year	Format: (yyyymm)	New Order-Single
6169	Condition Security Type	String	Specifies the security type in a conditional order	New Order-Single
6170	Condition Local Symbol	String	Specifies the IB Local Symbol of the product you are making an order conditional upon	New Order-Single

TAG#	TAG NAME	DATA TYPE	IB Implementation	USED IN
6173	DiscretionaryType	Int	For use with the P.I.P. order type on the BOX. Specifies the Auction Strategy for the P.I.P. order	New Order-Single
	5.00.00.00.00.00.00.00.00.00.00.00.00.00	mit .	1 = Discretionary Matching 2 = Discretionary Improving 3 = Transparent	
6205	ForceOnlyRTH	Int	1=ForceOnlyRTH is ON	New Order Single
6215	LegLocateReqd	Boolean	Valid codes = "N" or "Y." Required for multi-leg short sale orders involving U.S. equity securities ("stocks"). If customer uses IB as its executing broker but uses a clearing broker other than IB (a "Non-Cleared Customer") and Tag 624 contains the value "5" and Tag 6086 contains the value "1" or "2", this Tag 6215 must contain the value "N". IB will not accept a short sale order if a Non-Cleared Customer enters the value Y in Tag 6215. If customer uses IB as both its executing broker and clearing broker (a "Cleared Customer"), then such Cleared Customer is not required to populate this field. However, a Cleared Customer does have the option to populate this Tag 6215 only with the value "Y" (not the value "N"). If a Cleared Customer wishes to populate Tag 6216, the value must = IBKR (IB's MPID).	New Order - Multileg
6216	LegLocateBroker	String	Same as 5700 – Used for combination orders Tag 6216 (a four letter clearing broker or custodian MPID) is required for multi-leg short sale orders involving U.S. stocks to indicate the present location of the shares that are to be delivered in connection with customer's short sale order. Customers who use IB as their executing broker only, must enter a valid Market Participant Identifier ("MPID") for the clearing broker or other custodian with whom the customer has arranged to borrow the shares that are to be delivered in connection with customer's short sale order. A list of MPID's is located at: www.interactivebrokers.com/MPIDlist. If you do not see a valid MPID for your clearing broker or custodian, you must send an e-mail to: proserve@interactivebrokers.com. (Note: This field will be automatically populated with the MPID "IBKR" for those customers who use IB as both their executing broker and clearing broker). *If more than one MPID needs to be included, you can list more than one using a comma (,) as a delimiter.	New Order – Multileg
6248	BestComboGuarantee	Integer	Used with BEST routed combos to specify whether inter-exchange BEST combos are to be guaranteed or non guaranteed. 0 = Guaranteed 1 = Non Guaranteed	New Order - Multileg
6257	NoBarriers	Integer	Specifies the number of "barriers" used in the adjustable stop order type.	New Order Single
6258	BarrierPrice	Price	Specifies the trigger price for the barrier. (required if 6257 >0)	New Order Single
6259	BarrierStopPrice	Price	Specifies the new stop price once the barrier is reached.	New Order Single

TAG #	TAG NAME	DATA TYPE	IB Implementation	USED IN
6260	BarrierTrailingAmt	Price	Specifies the new trailing amount once the barrier is reached	New Order Single
6261	BarrierPriceDelimiter	String	Specifies the order type when the barrier is reached. Valid Values: 3 = Stop 4 = Stop Limit T = Trailing Stop TSL = Trailing Stop Limit	New Order Single
6262	BarrierLimitPrice	Price	Specifies the new limit price once the barrier is reached.	New Order Single
6268	TrailingAmtUnit	String	Specifies the trail method used: Valid Values: 6268=0 — Absolute offset used 6268=100 — Percentage offset used	New Order – Single (trailing stop orders)
6269	BarrierTrailingAmtUnit	String	Specifies the trail method used for Barrier orders: Valid Values: 6268=0 — Absolute offset used 6268=100 — Percentage offset used	New Order – Single (trailing stop orders)
6273	PipExchanges	String	If provided, this tag contains a comma-separated list of exchanges where the order is participating in th PIP process as a liquidity-providing (LP) orders. This field must be used by market makers on BOX to comply with the BOX rule that states that each entity can only send one order at one price for any particular PIP auction. IB may either send this field on original order acknowledgement, or may send it on subsequent unsolicited order status messages if this order becomes a LP order for PIP. IB will then later send an unsolicited order status if and when this order is no longer participating in the PIP. IB won't send anything if the order becomes fully filled due to and during the PIP.	Execution reports – Acks & unsolicited order status
6275	ContinuousUpdate	String	Used in IB Volatility Orders 1=Use initial volatility calculation only 2=Continuously update the price as volatility calculation changes 3=Price for main order specified by client	New Order (IB Volatility Orders)
6279	UnderlyingRefPrice	String	Used in IB Volatility Orders 1=midpoint 2=bid or ask	New Order (IB Volatility Orders)
6280	IsDeltaHedge	String	Used in IB Volatility Orders	New Order (IB Volatility Orders)
6281	XcrossC1OrdID	String	ISE Facilitation Order Firm side for C1OrdID (firm equivalent to tag 11)	New Order – Single (ISE FOK only)
6282	XCrossClearingFirm	String	ISE Facilitation Order Firm's ClearingFirm (firm equivalent to tag 439)	New Order – Single (ISE FOK only)
6283	XCrossClearingAccount	String	ISE Facilitation Order Firm's ClearingAccount (firm equivalent to tag 440)	New Order – Single (ISE FOK only)
6284	XCrossOpenClose	String	ISE Facilitation Order Firm's OpenClose (firm equivalent to tag 77)	New Order – Single (ISE FOK only)
6285	XCrossOptionAcct	String	ISE Facilitation Order Firm's OptionAcct (firm equivalent to tag6122)	New Order – Single (ISE FOK only)
6286	FacilitationPercentage		ISE Facilitation Order Desired percentage	New Order – Single (ISE FOK only)
6287	NotHeld	Boolean	Required with a value of "1" on all new orders (35=D) for stock quoting customers Valid Values: (0 = false , 1 = true)	New Order – Single

TAG#	TAG NAME	DATA TYPE	IB Implementation	USED IN
6290	HedgingType	String	Used in IB Volatility Orders Valid Values: -1=No Hedging 1=MKT Hedging 2=Limit Order Hedge E=Relative Order Hedge	New Order (IB Volatility Orders)
6370	TrailLimitOffset	Number	Used in trailing stop limit orders to specify the offset of the limit price. Can be positive, negative, or zero	New Order - Single
6436	tDeactivateOnClose	Integer	Used in IB Algo Orders to deactivate an order at the close of the current trading day. 1=deactivate the order at the end fo the day. 0=do not deactivate at the end of the day. (defaults to 0 if omitted)	New Order (IB Algo Orders)
6458	DividendSchedule	String	Used in IB Volatility Orders Valid Format: Yyyymmdd/value,yyyymmdd/value etc.	New Order (IB Volatility Orders)
6459	InterestSchedule	String	Used in IB Volatility Orders Valid Format: Yyyymmdd/value,yyyymmdd/value etc.	New Order (IB Volatility Orders)
6460	IsDeltaHedge	String	Used in IB Volatility Orders Valid Values: 1=Hedging Order Anything else or omitted=NOT hedging order	New Order (IB Volatility Orders)
6467	VolatCapPercentage	Percentage	Used in IB Volatility Orders Percentage in decimal form	New Order (IB Volatility Orders)
6468	VolatCapTicks	String	Used in IB Volatility Orders Price tick offset in decimal form	New Order (IB Volatility Orders)
9816	ImpVolatility	String	Used in IB Volatility Orders Volatility in decimal form (decimal percentage)	New Order (IB Volatility Orders)