

NOM and BX Options FIX System

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1. Introduction to NASDAQ Options FIX System

Overview

This document defines NASDAQ's implementation of the Financial Information Exchange (FIX) 4.0, 4.1 and 4.2 protocols for the NOM and BX Options trading system.

Users

It is assumed that the user of this manual is familiar with the FIX 4.0, 4.1 and 4.2 protocol standard, (can be found at www.fixprotocol.org).

2. Session Information

The first message should be a logon message. No additional messages should be transmitted until NASDAQ has verified the SenderCompID, and a logon is received from NASDAQ.

Note: NASDAQ does NOT support encryption.

ID Fields

SenderCompID sent	The SenderCompID as assigned by NASDAQ. The maximum size is 4 to 6 characters.
SenderCompID returned	The SenderCompID returned within all messages is NSDQ.
TargetCompID	Your TargetCompID should always be NSDQ.

3. Cancel and Replace – Order Modification

When replacing an order the ClOrdID field must be a unique ID for the newest order in the chain of orders and the OrigClOrdID must contain the ClOrdID of the order you are trying to replace / modify.

When canceling an order the ClOrdID field must be a unique ID for the cancel request and the OrigClOrdID must contain the ClOrdID of the order you are trying to cancel.

Only Price, OrdQty, tif, order type and Account ID may be changed for orders.

Any change will result in your order losing time priority with the exception of a reduction in OrdQty only.

4. FIX Message Types – Supported / Unsupported

FIX Messages - Supported by NASDAQ

Administrative Messages

Standard FIX administrative messages are supported.

Incoming Messages

New Order - Single
Order Cancel Request
Order Cancel/Replace Request (a.k.a. Order Modification Request)
OrderMassCancelRequest

Outgoing Messages

Execution Report
Order Cancel Reject
OrderMassCancelReport

FIX Messages - Not supported by NASDAQ

Advertisements
Allocation
Allocation ACK
Didn't Know Trade (DK)
Email
Indications of Interest
List Cancel Request
List Execute
List Status
List Status Request
New Order List
News
Quote
Quote Request
Settlement Instructions
Order Status Request

5. Session Protocol Messages

All NASDAQ comments/additions to the FIX specification are listed in BOLD in the "*Comments*" column for each message type.

If a Tag is not explicitly supported by NASDAQ it will be ignored. Your message will not be rejected.

Message Header

Tag	Field Name	Req'd	Comments
8	BeginString	Y	FIX.4.0 or FIX.4.1 or FIX.4.2. Must be the first field in message.
9	BodyLength	Y	Must be second field in the message.
35	MsgType	Y	Must be the third field in the message.
34	MsgSeqNum	Y	
49	SenderCompID	Y	SenderCompID as assigned by NASDAQ . It will always be four to six characters.
56	TargetCompID	Y	"NSDQ"
52	SendingTime	Y	
50	SenderSubID	N	It must be 32 characters or less.
57	TargetSubID	N	Ignored
43	PossDupFlag	N	Always required for retransmitted messages, whether prompted by the sending system or as the result of a resend request.
97	PossResend	N	Required when message may be duplicate of another message sent under a different sequence number.
122	OrigSendingTime	N	Required for message resends. If data is not available set to same value as SendingTime.

Logon Message

Tag	Field Name	Req'd	Comments
	Standard Header	Y	MsgType = A
98	EncryptMethod	Y	Not supported
108	HeartBtInt	Y	
141	ResetSeqNumFlag	N	Not supported
95	RawDataLength	N	Not supported
96	RawData	N	Not supported
	Standard Trailer	Y	

6. Application Messages Regarding Orders

All NASDAQ comments/additions to the FIX specification are listed in BOLD in the “*Comments*” column for each message type.

If a Tag is not supported by NASDAQ “Not supported” will appear in the “*Comments*” column. If you send an unsupported tag, the tag and corresponding data will be ignored. Your message will not be rejected.

New Order – Single Message

Broker Dealer’s who wish to electronically submit securities orders to NASDAQ for execution use the new order message type.

Orders can be submitted with special handling instructions and execution instructions.

Handling instructions refer to how NASDAQ should handle the order in its trading system. The HandInst field is optional and if provided, it should always be set to 1, which indicates Automated execution order, private, no Broker intervention.

ExecBroker should contain explicit directions as to how the order should be routed; if ExecBroker is not specified, or is specified with an instruction not listed below, the default execBroker configured for the firm will be used. The allowable values are

- SEEK - (try available market centers up to the limit price of the order then post to NASDAQ - once on the NASDAQ book at its limit price, the order will not proactively route out again).
- SRCH (SEARCH) - try available market centers then post to the book - and continue to proactively route out if due at an away exchange.
- WAIT – Wait for a certain period before booking the order
- DNR - (Do Not Route) send the order directly to NASDAQ and never route away
- POST – Designed to save execution fees. It’s like DNR that can only be entered as DAY limit order and system treat them as *maker* and never will be a *taker* (of the liquidity). A POST ONLY order cannot be an AON or ISO.

New Order messages received with a duplicate ClOrdID will be ignored, regardless if the PossResend flag is set. The New Order Message is described in the following table:

New Order – Single Message					
Tag	Field Name	Req'd	Comments	Exchange	
				NOM	BX Options
	Standard Header	Y	MsgType = D	•	•
11	ClOrdID	Y	Unique identifier of the order as assigned by institution. Must be 20 characters or less.	•	•
21	HandlInst	N	If provided, must be set to 1 = Automated execution order, private, no Broker intervention	•	•
55	Symbol	Y	1 – 6 character Options Root Symbol. Spaces, periods, commas not allowed.	•	•
54	Side	Y	Side of order. Valid values: 1 = Buy 2 = Sell	•	•
38	OrderQty	Y	Required. Acceptable range is 1 to 999999. No commas, decimals or spaces allowed, nor are negative numbers.	•	•
40	OrdType	Y	Valid values: 1 = Market 2 = Limit	•	•
44	Price	N	Price field is required for Limit Orders. 1-10 character decimal price. "12.34" is the correct presentation of twelve dollars and thirty-four cents	•	•
109	ClientID	N	Used for firm identification. Service bureaus must use this field to specify the firm entering the order. The firm identifier must be a valid mnemonic assigned by the exchange and the firm must be an approved member of the exchange. If this field is not provided by the firm, the default mnemonic associated with the FIX port will be used.	•	•
76	ExecBroker	N	Routing Strategy or special handling instruction for the order. see list of Routing Strategies below. If not specified, will default to the firm's default execBroker as setup with NASDAQ.	•	•
1	Account	N	Must be 32 characters or less.	•	•
63	SettlmntTyp	N	Not supported.	•	•
64	FutSettDate	N	Not supported.	•	•
18	ExecInst	N	Can contain only one instruction. f = InterMarket Sweep Order (ISO) G = All Or None (AON) - AON orders with a TIF other than IOC will be treated as IOC.	•	•
9140	DisplayInst	N	Not Supported.	•	•
110	MinQty	N	MinQty is currently supported. However, NASDAQ does not allow orders with a MinQty to remain live on our book. Therefore, you need to specify IOC in the TIF field (tag 59=3).	•	•

			If any other TIF is specified, it will be automatically converted to IOC.		
111	MaxFloor	N	Not Supported.	•	•
59	TimeInForce	N	Specifies how long the order remains in effect. Absence of this field is interpreted as Immediate or Cancel. Valid values: 0 = Market Hours (DAY) 1 = Good Till Cancel (GTC) 2 = OPG (Open Cross) 3 = Immediate or Cancel (IOC) 4 = Fill Or Kill (Equivalent to specifying minQty (tag 110) = orderQty (tag 38)) 6 = Good Till Time (Expire Time should have the end time). This is no longer supported. Will be converted to IOC on arrival.	•	•
47	Rule80A/OrderCapacity	N	C = customer order B = BrokerDealer Order F = firm order M = Nasdaq registered market maker order O = Other Exchange registered market maker order P = Professional Customer If not specified, will default to C(Customer order)	•	•
58	Text	N	Firms can use this field in order message to supply optional clearing data field that is sent to OCC. If field is supplied, NASDAQ will allow only 13 characters and use it for supplementary ID in the order.	•	•
126	ExpireTime	N	Not Supported.	•	•
77	OpenClose	Y	O = opening position C = closing position	•	•
167	SecurityType	N	If provided, must be OPT = options	•	•
200	MaturityMonthYear	Y	Format: YYYYMM (expiration date) If this tag and Maturity Date(tag 541) is specified the year and month must match, otherwise the order will be rejected. Required unless Maturity Date is specified.	•	•
205	MaturityDay	Y	Format: DD (Expiration date-day of the month). If supplied, this data will be validated. If this tag and Maturity Date(tag 541) is specified the day must match, otherwise the order will be rejected.	•	•

			Required unless Maturity Date is specified.		
541	MaturityDate	Y	<p>Month, Day and Year of the maturity. Format YYYYMMDD (e.g., 20100918 to represent Sept 18, 2010)</p> <p>If this tag and MaturityMonthYear and Maturity day is specified the year, month and day must match, otherwise the order will be rejected.</p> <p>Required unless MaturityMonthYear AND MaturityDay is specified.</p>	•	•
201	PutOrCall	Y	<p>0 = put 1 = call</p>	•	•
202	StrikePrice	Y	<p>Strike Price for option: Valid values: 0 – 999999.99999999</p>	•	•
440	ClearingAccount	N	<p>Up to 5-character alphanumeric. If tag is not supplied, spaces will be used. This field is passed through to the OCC sub-account/multi-account field – at the OCC this field is used to clear the trade to the proper sub account. The value for this field is sometimes referred to as “Badge #” or “Market Maker ID,” and is usually a 1-4-character alpha-numeric acronym. Note: Nasdaq will forward only left most 4 characters to OCC. This field is required if Order Capacity(tag 47) is M or O.</p>	•	•
207	SecurityExchange	N	<p>Exchange ID of Market Maker. When Rule80A/Capacity is O, this field should indicate Exchange where Market Maker is registered. Valid Values: 1 = AMEX Z = BATS B = BSE 2 = C2 W = CBOE Y = ISE X = PHLX N = NYSE Q = NASDAQ If not provided, will default to Q (NASDAQ).</p>	•	•
439	ClearingFirm	N	<p>CMTA Number (firm that will clear the trade) upto 5-character numeric. If tag not supplied, this order will not be a CMTA.</p>	•	•
9355	CrossTradeFlag	N	<p>Not Supported.</p>	•	•
	Standard Trailer	Y		•	•

ExecBroker Values
DNR
POST
SEEK
SRCH
WAIT

Order Cancel Request Message

The Order Cancel Request Message requests the cancellation of all of the remaining quantity of an existing order. The request will only be accepted if the order can successfully be pulled back from the exchange trading system without executing.

Note that the Order Cancel/Replace Request should be used to partially cancel (reduce) an order.

A cancel request is assigned a ClOrdID and is treated as a separate entity. If rejected, the ClOrdID of the cancel request will be sent in the Cancel Reject message, as well as the ClOrdID of the actual order in the OrigClOrdID field. The ClOrdID assigned to the cancel request must be unique amongst the ClOrdID assigned to regular orders and replacement orders.

The format of the cancel request message is shown in the following table:

Order Cancel Request Message					
Tag	Field Name	Req'd	Comments	Exchange	
	Standard Header	Y	MsgType = F	NOM	BX Options
41	OrigClOrdID	Y	ClOrdID of the original order to cancel, as assigned by the originating participant (Firm).	•	•
11	ClOrdID	Y	Unique ID of cancel request as assigned by the institution. Must be 20 characters or less.	•	•
55	Symbol	Y	1 – 6 character Options Root Symbol. Spaces, periods, commas not allowed.	•	•
54	Side	Y	Side of order - Valid values: 1 = Buy 2 = Sell	•	•
38	OrderQty	Y	NASDAQ does not support CashOrderQty. Therefore, OrderQty is required.	•	•
37	OrderID	N	Unique identifier of most recent order as assigned by broker.	•	•
109	ClientID	N	Used for firm identification. Service bureaus must use this field to specify the firm entering the order. The firm identifier must be a valid mnemonic assigned by the exchange and the firm must be an approved member of the exchange. If this field is not provided by the firm, the default mnemonic associated with the FIX port will be used.	•	•
200	MaturityMonthYear	Y	Format: YYYYMM (expiration date) If this tag and Maturity Date(tag 541) is specified the year and month must match, otherwise the order cancel will be rejected. Required unless Maturity Date is specified.	•	•
205	MaturityDay	Y	Format: DD (Expiration date-day of the month). If supplied, this data will be validated. If this tag and Maturity Date(tag 541) is specified the day must match, otherwise the order cancel will be rejected. Required unless Maturity Date is specified.	•	•
541	MaturityDate	Y	Month, Day and Year of the maturity. Format YYYYMMDD (e.g., 20100918 to represent Sept 18, 2010) If this tag and MaturityMonthYear and Maturity day is specified, the year, month and day must match, otherwise the order cancel will be rejected. Required unless MaturityMonthYear AND MaturityDay is specified.	•	•
201	PutOrCall	Y	0 = put 1 = call	•	•

202	StrikePrice	Y	Strike Price for option: Valid values: 0 – 999999999.9999	•	•
	Standard Trailer	Y		•	•

Order Cancel/Replace Request (a.k.a. Order Modification Request)

The Order Modification Request is used to change the parameters of an existing order.

Do not use this message to cancel the remaining quantity of an outstanding order. The Cancel Request message should be used to cancel the remaining quantity of an outstanding order.

The Order Modification request will only be accepted if the order can successfully be pulled back from the exchange trading system without fully executing. Requests that cannot be processed will be rejected using the Cancel Reject message. The Cancel Reject message will provide the ClOrdID and OrigClOrdID values that were specified on the Order Modification Request message for identification.

Note that while it is necessary for the ClOrdID to change and be unique, the broker's OrderID field does not necessarily have to change as a result of the Order Modification request.

Only price, quantity, tif, order type and Account ID can be changed via the cancel/replace request message. All other fields should be retransmitted as sent in the original order.

Following changes are allowed for tif.

- DAY to GTC or IOC
- GTC to DAY or IOC
- IOC to DAY or GTC

The Order Modification Request Message is described in the following table:

Order Cancel/Replace Request Message					
Tag	Field Name	Req'd	Comments	Exchange	
	Standard Header	Y	MsgType = G	NOM	BX Options
41	OrigClOrdID	Y	ClOrdID of the original order to cancel, as assigned by the originating participant (Firm).	•	•
11	ClOrdID	Y	Unique identifier of replacement order as assigned by institution. Note that this identifier will be used in ClOrdID field of the Cancel Reject Message if the replacement request is rejected. Must be 20 characters or less.	•	•
21	HandlInst	N	If provided, must be set to: 1 = Automated execution order, private, no Broker intervention	•	•
55	Symbol	Y	1 – 6 character Options Root Symbol. Spaces, periods, commas not allowed.	•	•
54	Side	Y	Side of order - Valid values: 1 = Buy 2 = Sell Must match original side.	•	•
38	OrderQty	Y	NASDAQ does not support CashOrderQty. Therefore, OrderQty is required.	•	•
40	OrdType	Y	Valid values: 1 = Market 2 = Limit	•	•
44	Price	N	Price field is required for Limit Orders.	•	•
37	OrderID	N	Unique identifier of most recent order as assigned by broker.	•	•
109	ClientID	N	Used for firm identification. Service bureaus must use this field to specify the firm entering the order. The firm identifier must be a valid mnemonic assigned by the exchange and the firm must be an approved member of the exchange. If this field is not provided by the firm, the default mnemonic associated with the FIX port will be used.	•	•
18	ExecInst	N	Not Supported. ExecInst of Original Order is carried through.	•	•
9140	DisplayInst	N	Not Supported.	•	•
59	TimeInForce	N	If not provided, the time in force of the original order carries through to all replacements. Following changes in TIF are allowed. DAY to GTC or IOC GTC to DAY or IOC IOC to DAY or GTC	•	•
47	Rule80A/OrderCapacity	N	The Rule80A (capacity) of the original order carries through to all replacements.	•	•
1	Account	N	If provided, it will be used after replace. If not provided, the account id of the original order will carry through.	•	•
110	MinQty	N	Not supported. The MinQty of the original order	•	•

			carries through to all replacements.		
111	MaxFloor	N	Not supported.	•	•
167	SecurityType	N	If provided must be OPT = options	•	•
200	MaturityMonthYear	Y	Format: YYYYMM (expiration date) If this tag and Maturity Date(tag 541) is specified the year and month must match, otherwise the order replace will be rejected. Required unless Maturity Date is specified.	•	•
205	MaturityDay	Y	Format: DD (Expiration date-day of the month). If supplied, this data will be validated. If this tag and Maturity Date(tag 541) is specified the day must match, otherwise the order replace will be rejected. Required unless Maturity Date is specified.	•	•
541	MaturityDate	Y	Month, Day and Year of the maturity. Format YYYYMMDD (e.g., 20100918 to represent Sept 18, 2010) If this tag and MaturityMonthYear and Maturity day is specified, the year, month and day must match, otherwise the order replace will be rejected. Required unless MaturityMonthYear AND MaturityDay is specified.	•	•
201	PutOrCall	Y	0 = put 1 = call	•	•
202	StrikePrice	Y	Strike Price for option: Valid values: 0 – 999999.99999999	•	•
	Standard Trailer	Y		•	•

Execution Report

The execution report message is used to:

1. Confirm the receipt of an order
2. Confirm changes to an existing order (i.e. accept cancel and replace requests)
3. Relay order status information
4. Relay fill information on working orders
5. Reject orders

Each execution message will contain information that will describe the current state of the order and execution status as understood by NASDAQ. State changes will be sent as separate messages and will not be used to also convey new partial fill details:

Execution Report					
Tag	Field Name	Req'd	Comments	Exchange	
	Standard Header	Y	MsgType = 8	NOM	BX Options
37	OrderID	Y	OrderID, as assigned by NASDAQ, is required to be unique for each chain of orders.	•	•
17	ExecID	Y	Unique identifier of execution message, such as a Trade ID, as assigned by PHLX-XL. Uniqueness is guaranteed within a single trading day for a given Firm Mnemonic. Receiving Firms should treat it as a free-form string. Assigned IDs should not exceed 36 characters.	•	•
20	ExecTransType	Y	Identifies transaction type Valid values: 0 = New 1 = Cancel 3 = Status (OrdStatus=3(Done For Day))	•	•
150	ExecType	Y	Describes the type of execution report. Valid Values: 0 = New 1 = Partial Fill 2= Filled 3= Done for day 4 = Canceled 5 = Replaced 6 = Pending Cancel 8 = Rejected E = Pending Replace	•	•
39	OrdStatus	Y	Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx Valid Values: 0 = New 1 = Partial Fill 2= Filled 3= Done for day 4 = Canceled 5 = Replaced 6 = Pending Cancel 8 = Rejected	•	•
55	Symbol	Y	1 – 6 character Options Root Symbol. Spaces, periods, commas not allowed.	•	•
54	Side	Y	Side of the order	•	•
38	OrderQty	Y	The number of contracts.	•	•
32	LastShares	Y	Number of contracts bought/sold on this (last) fill. Should be "0" for non-fills (Note: "fill" defined as ExecTransType = New and ExecType = Partial Fill or Fill).	•	•

31	LastPx	Y	Price of this (last) fill. Should be "0" for non-fills (Note: "fill" defined as ExecTransType = New and ExecType = Partial Fill or Fill).	•	•
151	LeavesQty	Y	Amount of contracts 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.	•	•
14	CumQty	Y	Currently executed contracts for chain of orders.	•	•
6	AvgPx	Y	Will be set to '0' always.	•	•
19	ExecRefID	N	Not Supported	•	•
1	Account	N	As specified in the NewOrder	•	•
11	ClOrdID	N	As specified in the NewOrder	•	•
44	Price	N	As specified in the NewOrder	•	•
41	OrigClOrdID	N	Required if this is in response to an Order Cancel Request or Order Cancel/Replace request (ExecType = PendingCancel, Replaced or Cancelled). ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.	•	•
18	ExecInst	N	f = InterMarket Sweep Order (ISO) G = All Or None (AON)	•	•
9140	DisplayInst	N	Not Supported.	•	•
75	TradeDate	N	Used when reporting other than current day trades.	•	•
59	TimeInForce	N	Absence of this field indicates Immediate or Cancel order	•	•
40	OrdType	N	Valid values: 1 = Market 2 = Limit	•	•
60	TransactTime	N	Time of execution/order creation (expressed in UTC).	•	•
47	Rule80A/OrderCapacity	N	Capacity (C, B, F, M, O or P) from original order.	•	•
58	Text	N	Free format text string,	•	•
9882	LiquidityFlag	N	Will be returned within all execution reports that contain a partial or full fill. See Liquidity Flags Table below for values	•	•
77	OpenClose	Y	O = opening position C = closing position	•	•
167	SecurityType	Y	OPT = options	•	•
200	MaturityMonthYear	Y	Format: YYYYMM (expiration date) This will not be present If ExecType = 8 - Rejected	•	•

205	MaturityDay	Y	Format: DD (Expiration date-day of the month). This will not be present If ExecType = 8 - Rejected	•	•
541		Y	Month, Day and Year of the maturity. Format YYYYMMDD (e.g., 20100918 to represent Sept 18, 2010) This will not be present If ExecType = 8 - Rejected	•	•
201	PutOrCall	Y	0 = put 1 = call	•	•
202	StrikePrice	Y	Strike Price for option: Valid values: 0 – 999999.99999999	•	•
	Standard Trailer	Y		•	•

Liquidity Flags		Exchange	
Flag	Value	NOM	BX Options
A	Executed on NASDAQ - Added Liquidity (maker)	•	•
R	Executed on NASDAQ - Removed Liquidity (taker)	•	•
N	Executed on NASDAQ - Maker/Taker N/A	•	•
O	Market Opening Auction	•	•
E	Executed on AMEX	•	•
P	Executed on Arca	•	•
B	Executed on BOX	•	•
W	Executed on CBOE	•	•
S	Executed on ISE	•	•
U	Executed on PHLX	•	•
Z	Executed on BATS	•	•
2	Executed on C2	•	•
Q	Executed on NOM		•
T	Executed on BX Options	•	

Order Cancel Reject

The order cancel reject message is issued by NASDAQ upon receipt of a Cancel Request or Cancel/Replace Request Message that cannot be honored.

The format of the Order Cancel Reject Message is as follows

Tag	Field Name	Req'd	Comments	Exchange NOMBX Options	
	Standard Header	Y	MsgType = 9	•	•
37	OrderID	Y	If the cancel reject is for an unknown order this field will contain the text "Unknown". Otherwise, it will contain the OrderID of the last order in the chain of orders.	•	•
11	ClOrdID	Y	Unique order id assigned by broker to the cancel request or to the replacement order.	•	•
41	OrigClOrdID	Y	ClOrdID that could not be canceled/replaced. ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.	•	•
39	OrdStatus	Y	OrdStatus value after this cancel reject is applied.	•	•
102	CxlRejReason	N	Code to identify reason for cancel rejection. Valid values: 0 = Too late to cancel 1 = Unknown order 2 = Broker Option (Used for unidentified business reasons.) 3 = Order already in Pending Cancel status	•	•
58	Text	N	See "Rejected Order Reasons" in section 7	•	•
434	CxlRejResponseTo	Y	Identifies the type of request that a Cancel Reject is in response to. <u>Valid values:</u> 1 - Order Cancel Request 2 - Order Cancel/Replace Request	•	•
	Standard Trailer	Y		•	•

Purge/Reset Request from Firm

A firm can send a purge request if it is configured for risk protection on the exchange trading system. Firm also need to send a Reset request if it receives a RapidFire Notification from the exchange.

Tag	Name	Required	Description
	Standard Header	Y	MsgType = q (OrderMassCancelRequest)
109	ClientID	N	If provided, must be a valid NASDAQ MPID/Firm Mnemonic. If not provided Port' default MPID/Firm Mnemonic will be used
11	ClOrderID	Y	Unique ID of Purge/Reset Request as assigned by the firm. Must be unique for the trading session.
311	UnderlyingSymbol	Y	UnderlyingSymbol to purge or reset
530	RequestType	Y	Purge/Reset Type. Valid Values Are: 8 – Reset 2 – Purge

RapidFire Notification, Purge/Reset Response

Nasdaq will use this message to notify firms when Rapid Fire Risk Protection is triggered in an underlying if the firm is configured for risk protection on the exchange trading system. Also, this message will be used to respond to any purge or Underlying Reset request received from the firm.

Tag	Name	Required	Description
	Standard Header	Y	MsgType = r (OrderMassCancelReport)
109	ClientID	Y	NASDAQ MPID/ Firm mnemonic
37	OrderID	Y	Exchange assigned unique Identifier of the notification for the trading session. It will be blank if tag 531 is 0 (request is rejected).
11	ClOrderID	N	Present if this is a response to a purge or reset request from the firm.
530	RequestType	N	Present if this is a response to Firm's Purge or Reset Request. Valid Values are: 8 – Reset 2 – Purge
531	Response	Y	0 – Purge/Reset Request Rejected. Tag 532 contains more information. 7 - Purge by another port

			(FIX/OTTO/SQF-or system support) 8 – Purge/Reset Request Successful. 9 – RapidFire Notification
532	RejectReason	N	Present if tag 531 is 0. Valid Values are: 0 – Feature Not Supported 2 – Invalid Underlying
311	UnderlyingSymbol	Y	UnderlyingSymbol that is purged/reset or rapid fired. If all underlyings for the firm are purged as a result of a firm level purge request from a SQF port, then this tag will be omitted. A reset request is required for each underlying after the firm receives a firm level purge notification.
58	Text	N	Provides additional information about this message.
	Standard Trailer	Y	

7. Order Reject/Cancel Reasons

The FIX Text field, tag 58, will be returned within all order reject and cancel messages (msgType=8) and will contain a description of the reject or cancel.

Rejected Order Reasons

OrdRejectReason Code	Text=<Error String>	Description.
0	"INVALID TIME FOR ACCEPTANCE"	Exchange is not open for order acceptance.
0	"LIMIT TOO FAR BELOW BID"	Reference price is out of bounds.
0	"LIMIT TOO FAR ABOVE ASK"	Reference price is out of bounds.
0	"IOC IS INVALID"	IOC is not allowed for this order.
0	"INVALID VOLUME"	Order volume is Invalid.
0	"FOK IS INVALID"	Fill or Kill is invalid
0	"INVALID LIMIT PRICE"	Invalid Limit Price.
0	"MISSING ACCOUNT ID"	
0	"INVALID CMTA NUMBER"	Invalid CMTA number-tag ClearingFirm (439).
0	"CANCELLED BY RECEIVER"	Order Canceled by Broker.
0	"FEATURE NOT SUPPORTED"	Feature not supported
1	"UNKNOWN SYMBOL"	Invalid Symbol information.
2	"NOT OPEN FOR TRADING"	Exchange closed.

OrdRejectReason Code	Text= <Error String>	Description.
3	"UNACCEPTABLE VOLUME"	Order Exceeds limit.
4		Too Late to enter- Not Used.
5		Unknown Order- Not Used.
6	"DUPLICATE ORDER ID"	Duplicate Order ID i.e. Duplicate Tag - ClOrdID (11).
7		Duplicate of a verbally communicated order – Not Used.
8	"Stale Order"	IOC Order is stale.

Cancel Reject Reason

The FIX Text field, tag 58, will be returned within all cancel reject messages (msgType=9) and will contain a description of the reject or cancel

CxlRejReason Code	Text= <"Error String">	Description
0	"TARGET FILLED"	Too Late to Cancel- Target is already completely Filled or Rejected.
1	"TARGET NOT FOUND"	Target order Not found or Unknown order.
2	"TARGET CANCELLED"	Target Already Canceled.
2	"TARGET NOT OPEN"	Target order is not Open.
2	"CANCEL BUY SELL MISMATCH"	Cancel Request Buy/Sell attribute do not match with Target order.
2	"CANCEL SYMBOL MISMATCH"	Cancel Request Symbol do not match with Target order.
2	"DON'T REPLACE SYMBOL"	Cancel Replace can not replace Symbol for target order.
2	"CANCEL VOLUME MISMATCH"	Cancel Request Order Quantity attribute doesn't match with Target order.
2	"CANCEL PRICE MISMATCH"	Cancel Request Order Price attribute doesn't match with Target order.
2	"CANCEL ORIGIN MISMATCH"	
2	"CANCEL TIF MISMATCH"	
2	"CANCEL BAD LEAVES VOLUME"	Cancel Leaves volume is bad.
2	"BROKER OPTION"	Broker Option.
3	"TARGET CANCEL PENDING"	Target order is already in Cancel Pending status.
	"STALE ORDER"	
	"IN TRADING HALT"	
	"NOT NBBO"	

CxlRejReason Code	Text= <"Error String">	Description
	"REF PRICE OUT OF BOUND"	
	"UNKNOWN CLEARING FIRM"	
	"S ORIG ORDER REJECTED"	
	"TOO LATE TO CANCEL"	
	"S OTHER"	

9. Revision History

Revision #	Date	Change
1.2	3/22/12	Added BX Options Market.
1.1	1/13/12	Removed references to Exchange Direct Orders Added POST Strategy(ExecBroker value)
1.0	8/18/11	Removed references to PICO and Exchange Direct + (Scrape I and Scrape II) Clarified that a non defined execbroker value will convert to the firm's default strategy
1.0	06/27/11	Added Risk Protection Response code '7' for purge by other ports. Added clarification of Firm level purge via SQF ports.
1.0	05/25/11	Added SEEK Strategy, deleted FIND Strategy
1.0	04/13/11	Clarified values for Tags 39 and 150
1.0	02/25/11	Provided additional information regarding the NOM 2.0 migration to the overview paragraph. Clarified meaning of ClientID Tag 109 for New Order-Single Message, Order Cancel Request Message, Order Cancel/Replace Request Message Deleted ClientID Tag 109 from Execution Report Message and Order Cancel Reject Message
1.0	12/29/10	Added New execBroker DNR/SRCH/ /PICO/DIN*/DIP* Added explanation that PICO/DIN* and DIP* execBroker instructions are not supported at present and will be converted to DNR if received. Removed execBroker SEEK and NSDQ Added new Order Capacity O Added optional supplementary id (tag 58) to new orders Added optional securityExchange(tag 207) to new orders Added MaturityDate (tag 541) to order, cancel, cancel replace and execution messages Added new tifs: FOK(4) and OPG(2)

		<p>Added new execInst: Aon (G)</p> <p>Removed support for maxFloor, displayInst, ExpireTime, crosstradeFlag, AvgPx, ExecRefID</p> <p>Made HandlingInst(tag 21), securityType (tag 167) optional</p> <p>Removed support for trade breaks</p> <p>Added more explanation as to what can be changed in a cancel-replace message.</p> <p>Added CxlRejResponseTo (tag 434) to cancel-reject messages.</p> <p>Added support for Done For Day Status in execution reports.</p> <p>Added support for Risk Protection</p>
0.82	10/26/10	<p>Added "2" liquidity code</p> <p>Added "DIRW" as a directed order destination</p>
0.81	10/8/10	<p>Revised the golive date for capacity value "P"</p> <p>Added "SRCH" execbroker</p>
0.80	4/21/10	Added Capacity value "P"
0.79	3/15/10	<p>Added TIF value "GTC"</p> <p>Made tag 205 a required field</p>
0.78	3/8/10	<p>Added "DIRZ" as a directed order destination</p> <p>Added "Z" liquidity code</p> <p>Added support for routing orders to PHLX</p>
0.77	8/31/09	<p>Removed "S" display flag for ADOP</p> <p>Removed "RCON" execbroker for ADOP</p> <p>Removed "D","T" liquidity codes</p> <p>Added support for ISO orders</p> <p>Added support for directed orders to BOX</p>
0.76	7/21/09	<p>Added "S" display flag for ADOP</p> <p>Added "RCON" execbroker for ADOP</p> <p>Added "F","D","T" liquidity codes</p>
0.75	3/16/09	<p>Added WAIT execbroker</p> <p>Added directed order destinations</p> <p>Added "f" execinst value (tag 18) for ISO orders</p> <p>Removed "A","N" values from display flag</p> <p>Removed tag 58 from order entry</p>
0.74	6/16/08	Added Tag 205 – MaturityDay "DD" in support of Options Symbolology Initiative (OSI)
0.73	06/02/08	Addition of new liquidity codes to identify each options

		exchange
0.72	03/28/08	Clarification of ClearingAccount Field
0.71	12/21/07	Wording change (cross/auction)
0.7	12/12/07	Added opening auction liquidity code
0.6	11/05/07	Removed logon sequence number reset. Updated field descriptions
0.5	10/23/07	Added additional reject reasons. Revised strike price from 4 to 8 decimal places Removed non options-related info.
0.4	7/18/07	Added CrossOrderType field. Removed non options-related info.
0.3	4/19/07	Document Creation

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