FIX Interface Specification

Version 1.0

Updated September 3, 2020

Introduction to NASDAQ OMX PSX FIX System

1. Overview

This document defines NASDAQ OMX PSX's implementation of the Financial Information Exchange (FIX) 4.0, 4.1 and 4.2 protocols. NASDAQ OMX PSX's FIX implementation acts like a router, converting incoming FIX messages into OUCH messages and back again.

2. 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).

3. Session Information

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

Note: NASDAQ OMX PSX does NOT support encryption.

3.1.   ID Fields

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

4. 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 and OrdQty may be changed for limit and pegged orders.

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

The availability of the functionality reflected in these specifications is subject to Securities and Exchange Commission ("SEC") approval of the acquisition of Philadelphia Stock Exchange, Incorporated ("PSE") by The NASDAQ OMX Group, Inc., the closing of that acquisition, and SEC approval of revised rules governing equity trading through PSE. The specifications contain more functionality than what is planned for initial production. Functionality that is not available will be greyed out in the specs. Any changes will be conveyed via the NASDAQ OMX PSX Head Trader Alerts or Technical Updates.

5. FIX Message Types – Supported / Unsupported

5.1. FIX Messages - Supported by NASDAQ OMX PSX

5.1.1. Administrative Messages

Standard FIX administrative messages are supported.

5.1.2. Incoming Messages

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

5.1.3. Outgoing Messages

Execution Report Order Cancel Reject

5.2. FIX Messages - Not supported by NASDAQ OMX PSX

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

6. Session Protocol Messages

All NASDAQ OMX PSX 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 OMX PSX it will be ignored. Your message will not be rejected.

6.1. 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.
6	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 OMX PSX . It will always be four to six characters.
56	TargetCompID	Y	"NQPX"
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.

6.2. Logon Message

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

7. Application Messages Regarding Orders

All NASDAQ OMX PSX 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 OMX PSX "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.

7.1. New Order – Single Message

Broker Dealer's who wish to electronically submit securities orders to NASDAQ OMX PSX 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 OMX PSX should handle the order on its trading floor. The HandlInst field is required and it should always be set to 1, which indicates Automated execution order, private, no Broker intervention.

Execution instructions contain explicit directions as to how the order should be executed. The ExecInst field describes how it should be executed. 'N' (No Peg), 'P' (Market Peg), and 'R' (Primary Peg) are supported.

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
	Standard Header	Y	MsgType = D
11	ClOrdID	Y	Unique identifier of the order as assigned by institution. Must be 64 characters or less.
21	HandlInst	Y	This is required by FIX. It should always be set to: 1 = Automated execution order, private, no Broker intervention
55	Symbol	Y	Ticker symbol. The format of the symbol is native INET symbology. More information can be found at the following link: http://www.nasdaqtrader.com/Trader.aspx?id=CQS SymbolConvention NOTE: the entire symbol (root and suffix included) needs to be in tag.
54	Side	Y	Side of order Valid values: 1 = Buy 2 = Sell 5 = Sell short 6 = Sell short Exempt
38	OrderQty	Y	Required.
40	OrdType	Y	Valid values: 1 = Market 2 = Limit P = Pegged (requires ExecInst = P or R)
44	Price	N	Price field is required for Limit Orders.
109	ClientID	N	Used for firm identification in third-party transactions. Service bureaus must use this field to specify the firm entering the order. It MUST be a valid NASD assigned MPID. The firm must be a NASD registered broker dealer.
76	ExecBroker	N	The destination to send orders to. Currently INET, PMOP, PSTG, PSCN, PTFY, PCRT, TFYX, XCST, XDRK, PSKN, PSKP, DOTA, DOTD, DOTI, DOTM, SCAR and Directed Order Destination Codes (please see Directed Codes table below) are available. Will default to "INET" if not specified.
1	Account	N	Must be 32 characters or less.
63	SettlmntTyp	N	Not supported.
64	FutSettDate	N	Not supported.
18	ExecInst	N	Can contain multiple instructions, space delimited. Only 'M' (Midpoint Peg), 'N' (No Peg), 'P' (Market Peg), and 'R' (Primary Peg) are supported. 'f' means Intermarket Sweep Order (ISO) NOTE: Midpoint peg executing instruction may be converted to display value "M" (tag 9140).

New Order – Single Message

Tag	Field Name	Req'd	Comments
9140	DisplayInst	N	May be used to specify NASDAQ OMX PSX's different display options. Y = Anonymous-Price to Comply A = Attributable-Price to Display N = Non-Display (required for midpoint orders) I = Imbalance Only P = Post-Only M = Mid-point Peg (Tag 18 must be set to "N") W = Mid-point Peg Post Only "d" = Direct Listing Capital Raise
110	MinQty	N	MinQty is currently supported. MinQty must be a round lot.
111	MaxFloor	N	Represents the portion of your order that you wish to have displayed. It must be a round lot.
114	LocateReqd	N	Required for short sale orders. Must be set to 'N' for all short sale orders. The order entry firm is always responsible for locating the stock on a short sale. Indicates whether the broker is to locate the stock in conjunction with a short sell order. Valid values: N = Indicates the broker is not required to locate
59	TimeInForce	N	Specifies how long the order remains in effect. Absence of this field is interpreted as Market Hours. Valid values: 0 = Market Hours (DAY) 1 = Extended Hours Order 2 = On Open 3 = Immediate or Cancel (IOC) 4 = Fill or Kill (FOK) 5 = Extended Hours Order 6 = Good Till Time (Expire Time should have the end time) 7 = On Close A = Extended Hours Order C= GTC (Market Hours) M= GTC (System Hours) *Order entered after the market close with TIF of DAY will be rejected.
47	Rule80A/OrderCapacity	N	All values are supported. 'A' (agent) is the default.
211	PegDifference	N	Offset amount for the pegged value. NASDAQ OMX PSX uses the FIX standard conservative approach when implementing the peg difference.
58	Text	N	This tag is restricted to 128 bytes otherwise, session will disconnect.
126	ExpireTime	N	The time the order should be canceled at. Orders with TIF of "Good Till Time" (59=6) and ExpireTime (tag 126) later than the current trading day will be rejected.
9395	Marketability Instructions	N	Valid values: 0 = None
8020	DisplayRange	N	Amount used to determine the random reserve range. If 200 is specified in this field, and the MaxFloor is set to 1000, the displayed amount will randomly shift between 800 and 1200.
9391	DisplayExecInst	N	This tag is used to peg the display price of the order. NASDAQ OMX PSX currently supports Market Peg ('P'), Primary Peg ('R') and Mid Peg (M)
9392	DisplayPrice	N	This field contains the price that will be displayed on the NASDAQ OMX PSX book.
9396	DisplayPegDifference	N	This field is used to offset a pegged display price as specified in field 9391.

New Order – Single Message

Tag	Field Name	Req'd	Comments
9355	CrossTradeFlag	N	This specifies the cross in which this order goes live. Valid values: O = Opening cross C = Closing cross
129	DeliverToSubID	N	Value set to 'NX' to send a Direct+ order on DOT strategies
	Standard Trailer	Y	

Directed Order Destination Codes

Market Center	Destination Code
NYSE American	ISAM
NYSE Arca	ISPA
Nasdaq BX	ISBX
CBOE	ISCB
NYSE Chicago	ISCX
NYSE National	ISCN
NYSE	ISNY
BATS Z	ISBZ
BATS Y	ISBY
EDGA	ISNA
EDGX	ISNX
Nasdaq	ISNQ
IEX	ISIX
Long Term Stock Exchange	ISLT
Members Exchange	ISMX
MIAX PEARL Equities	ISMI

7.2.   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 floor 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
	Standard Header	Y	MsgType = F
41	OrigClOrdID	Y	ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.
11	ClOrdID	Y	Unique ID of cancel request as assigned by the institution. Must be 64 characters or less.

Order Cancel Request Message

Tag	Field Name	Req'd	Comments
55	Symbol	Y	Ticker symbol. The format of the symbol is native INET symbology. More information can be found at the following link: http://www.nasdaqtrader.com/Trader.aspx?id=CQSSym bolConvention NOTE: the entire symbol (root and suffix included) needs to be in tag.
54	Side	Y	Side of order - Valid values: 1 = Buy 2 = Sell 5 = Sell short 6 = Sell short Exempt
38	OrderQty	Y	NASDAQ OMX PSX 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 in third-party transactions. Service bureaus must use this field to specify the firm canceling the order. It MUST be a valid NASD assigned MPID. The firm must be a NASD registered broker dealer.
	Standard Trailer	Y	

7.3.   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, use the Cancel Request message for this purpose.

The Order Modification request will only be accepted if the order can successfully be pulled

back from the exchange floor without 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 and shares can be changed via the cancel/replace request message. All other fields should be retransmitted as sent in the original order.

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

Order Cancel/Replace Request Message

Tag	Field Name	Req'd	Comments
	Standard Header	Y	MsgType = G
41	OrigClOrdID	Y	ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.
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 64 characters or less.
21	HandlInst	Y	This is required by FIX. It should always be set to: 1 = Automated execution order, private, no Broker intervention

Order Cancel/Replace Request Message

Tag	Field Name	Req'd	Comments
55	Symbol	Y	Ticker symbol. The format of the symbol is native INET symbology. More information can be found at the following link: http://www.nasdaqtrader.com/ Trader.aspx?id=CQSSy mbolConvention
			NOTE: the entire symbol (root and suffix included) needs to be in tag.
54	Side	Y	Side of order - Valid values:
			1 = Buy
			2 = Sell
			5 = Sell short
			6 = Sell short Exempt Must match original side.
38	OrderQty	Y	NASDAQ OMX PSX does not support CashOrderQty. Therefore, OrderQty is required.
40	OrdType	Y	Valid values:
			1 = Market Peg
			2 = Limit
			P = Pegged (requires ExecInst = P or R)
44	Price	N	Price field is required for Limit Orders.
114	LocateReqd	N	Indicates whether the broker is to locate the stock in conjunction with a short sell order.
			Valid values:
			Y = Indicates the broker is responsible for locating the stock
			N = Indicates the broker is not required to locate
37	OrderID	N	Unique identifier of most recent order as assigned by broker.
109	ClientID	N	Used for firm identification in third-party transactions. Service bureaus must use this field to specify the firm canceling the order. It MUST be a valid NASD assigned MPID. The firm must be a NASD registered broker dealer.
18	ExecInst	N	Can contain multiple instructions, space delimited. Only 'M' (Midpoint Peg), 'N' (No-Peg), 'P' (Market Peg), and 'R' (Primary Peg) are supported.
			'f' means Intermarket Sweep Order (ISO)
			NOTE: Midpoint peg executing instruction may be converted to display value "M" (tag 9140).
9140	DisplayInst	N	May be used to specify NASDAQ OMX PSX's different display options.
			Y = Anonymous-Price to Comply
			A = Attributable-Price to Display
			N = Non-Display
			I = Imbalance Only
			P = Post-Only
			M = Mid-point Peg (Tag 18 must be set to "N")
			W = Mid-point peg post only
			"d" = Direct Listing Capital Raise
59	TimeInForce	N	The time in force of the original order caries through to all replacements.
47	Rule80A/OrderCapac ity	N	The Rule80A (capacity) of the original order caries through to all replacements.
1	Account	N	Not supported. The account of the original order carries through to all replacements.
110	MinQty	N	Not supported. The MinQty of the original order carries through to all replacements.
111	MaxFloor	N	Not supported. The MaxFloor of the original order carries through to all replacements.
	Standard Trailer	Y	

7.4. Order Purge and Disable/Enable Order Entry Request

The Order Purge Request message allows firms to initiate the cancellation of one or more orders that are currently booked at the exchange if they match the criteria specified in the request. If no optional criteria are specified then all orders for the specified account will be cancelled. The Enable/Disable Order Entry Request allows firms the ability to initiate the following requests to block and unblock submissions of new orders on a particular account.

Order Purge and Disable/Enable Order Entry Request

Tag	Field Name	Required	Comments
	Standard Header	Y	MsgType = PQ
1	Account	Y	Must be 32 characters or less
22202	PurgeRequestType	Y	1 = Cancel orders 2 = Disable MPID 3 = Enable MPID
109	ClientID	Y	Valid NASD assigned MPID
55	Symbol	N	Ticker symbol. The format of the symbol is native INET symbology
54	Side	N	1 = Buy 2 = Sell 5 = Sell Short 6 = Sell Short Exempt
20107	GroupId	N	Numeric XXXXX, max 99999
11	ClOrdId	Y	Unique identifier of the order as assigned by institution. Must be 64 characters or less.
	Standard Trailer	Y	

7.5. 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
6. Report post-trade fees calculations associated with a trade

Each execution message will contain information that will describe the current state of the order and execution status as understood by NASDAQ OMX PSX. 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
	Standard Header	Y	MsgType = 8
37	OrderID	Y	OrderID, as assigned by NASDAQ OMX PSX, is required to be unique for each chain of orders.
17	ExecID	Y	Identifier of execution message as assigned by broker (will be 0 (zero) for ExecTransType=3 (Status)). NASDAQ OMX PSX assigns the ExecID based on the OUCH match number of the transaction. If you cross yourself on a trade the buy and sell orders will have the same ExecID.

Execution Report

Tag	Field Name	Req'd	Comments
20	ExecTransType	Y	Identifies transaction type Valid values: 0 = New 1 = Cancel Trade breaks will be sent with an ExecTransType of '1'. NASDAQ OMX PSX does not support trade corrections.
76	ExecBroker	Y	The destination to send orders to. Currently INET, PMOP, PSTG, PSCN, PTFY, PCRT, TFYX, XCST, XDRK, PSKN, PSKP, DOTA, DOTD, DOTI, DOTM, SCAR and Directed Order Destination Codes (please see Directed Codes table below) are available. Will default to "INET" if not specified.
150	ExecType	Y	Describes the type of execution report. Same possible values as OrdStatus.
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 4 = Canceled 5 = Replaced 6 = Pending Cancel 8 = Rejected A = Pending New
55	Symbol	Y	Ticker symbol. The format of the symbol is native INET symbology. More information can be found at the following link: http://www.nasdaqtrader.com/Trader.aspx?id=CQ SSymbolConvention NOTE: the entire symbol (root and suffix included) needs to be in tag.
54	Side	Y	
38	OrderQty	Y	
32	LastShares	Y	Quantity of shares bought/sold on this (last) fill.
31	LastPx	Y	Price of this (last) fill.
151	LeavesQty	Y	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.
14	CumQty	Y	Currently executed shares for chain of orders.
6	AvgPx	Y	Calculated average price of all fills on this order.
19	ExecRefID	N	Required for Cancel and Correct ExecTransType messages
1	Account	N	As specified in the NewOrder
11	ClOrdID	N	As specified in the NewOrder
44	Price	N	As specified in the NewOrder
211	PegDifference	N	As specified in the NewOrder
41	OrigClOrdID	N	ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.
109	ClientID	N	Used for firm identification in third-party transactions. If a ClientID was specified in the original order then it will be returned in all subsequent execution reports.

Execution Report

Tag	Field Name	Req'd	Comments
18	ExecInst	N	Can contain multiple instructions, space delimited. Only 'M' (Midpoint Peg), 'N' (No-Peg), 'P' (Market Peg), and 'R' (Primary Peg) are supported. 'f' means Intermarket Sweep (ISO) NOTE: Midpoint peg executing instruction may be converted to display value "M" (tag 9140).
9140	DisplayInst	N	May be used to specify NASDAQ OMX PSX's different display options. Y = Anonymous-Price to Comply A = Attributable-Price to Display N = Non-Display I = Imbalance Only P = Post-Only M = Mid-point Peg (Tag 18 must be set to "N") W = Mid-point peg post only "d" = Direct Listing Capital Raise
75	TradeDate	N	Used when reporting other than current day trades.
59	TimeInForce	N	Absence of this field indicates Market Hours order
40	OrdType	N	Valid values: 2 = Limit P = Pegged (requires ExecInst of P or R)
60	TransactTime	N	Time of execution/order creation (expressed in GMT). This field will now appear on all messages; previously this only appeared on execution or break messages.
47	Rule80A/OrderCapacit y	N	All values are supported. 'A' (agent) is the default.
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
111	MaxFloor	N	As specified in the NewOrder
375	ContraBroker	N	Identifies contra broker. ARCX = Routed to NYSE Arca XASE = Routed to NYSE American XNYS = Routed to NYSE XCIS = Routed to NYSE National XCHI = Routed to NYSE Chicago BATS = Routed to BATS BATY = Routed to BATS Y EDGA = Routed to EDGA EDGX = Routed to EDGX OFFX = Routed to non-Reg NMS protected venue IEXG = Routed to IEX XBOS = Routed to Nasdaq BX XNAS = Routed to Nasdaq Stock Market XPSX = Routed to Nasdaq PSX LTSE = Routed to Long Term Stock Exchange MEMX = Routed to Members Exchange EPRL = Routed to MIAX PEARL Equities
382	NoContraBroker	N	The number of ContraBroker (375) entries. Always "1".
	Standard Trailer	Y	

7.5.1. Liquidity Flags

Liquidity Flags

Flag	Value
A	Added
V	Displayed added liquidity with original order size of greater than or equal to 2,000 shares. Only applicable to symbols that are set to the pro rata execution algorithm.
R	Removed
J	Non-displayed and added liquidity
X	Routed
D	DOT
F	Added or Opening Trade (on NYSE)
G	Odd Lot or On-Close order (on NYSE)
O	Open Cross
M	Open Cross (imbalance-only)
C	Closing Cross
L	Closing Cross (imbalance-only)
H	Halt/IPO Cross
K	Halt Cross
Y	Re-Routed by NYSE
S	Odd Lot Execution (on NYSE)
U	Added Liquidity (on NYSE)
B	Routed to BX
E	NYSE Other
T	Opening Trade (on ARCA)
Z	On-Close order (on ARCA)
Q	Routed to Nasdaq
m	Removed liquidity at a midpoint
k	Added liquidity via a midpoint order
7	Displayed, liquidity-adding order improves the NBBO
8	Displayed, liquidity-adding order sets the QBBO while joining the NBBO
u	Added non-displayed liquidity via a Reserve order

7.6. Restatement Message

This message will tell the user the amount their orders were reduced down to as a result of a partially cancelled quantity.

Restatement

Tag	Field Name	Req'd	Comments
	Standard Header	Y	MsgType = 8
37	OrderID	Y	OrderID, as assigned by NASDAQ, is required to be unique for each chain of orders.
17	ExecID	Y	Identifier of execution message as assigned by broker (will be 0 (zero) for ExecTransType=3 (Status)). NASDAQ assigns the ExecID based on the OUCH match number of the transaction. If you cross yourself on a trade the buy and sell orders will have the same ExecID.

Restatement

Tag	Field Name	Req'd	Comments
20	ExecTransType	Y	Identifies transaction type Valid values: 0 = New 1 = Cancel Trade breaks will be sent with an ExecTransType of '1'. NASDAQ does not support trade corrections.
76	ExecBroker	Y	The destination to send orders to. Currently INET, PMOP, PSTG, PSCN, PTFY, PCRT, TFYX, XCST, XDRK, PSKN, PSKP, DOTA, DOTD, DOTI, DOTM, SCAR and Directed Order Destination Codes (please see Directed Codes table below) are available. Will default to "INET" if not specified.
150	ExecType	Y	Describes the type of execution report. For restatement, this value will always be: D = Restated
39	OrdStatus	Y	Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx Valid Value for restatement will be: 0 = New
55	Symbol	Y	Ticker symbol. The format of the symbol is native INET symbology. More information can be found at the following link: http://www.nasdaqtrader.com/Trader.aspx?id=CQ SSymbolConvention NOTE: the entire symbol (root and suffix included) needs to be in tag.
54	Side	Y	
38	OrderQty	Y	
32	LastShares	Y	Quantity of shares bought/sold on this (last) fill. For restatement, this value will always be "0".
31	LastPx	Y	Price of this (last) fill.
151	LeavesQty	Y	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.
14	CumQty	Y	Currently executed shares for chain of orders.
6	AvgPx	Y	Calculated average price of all fills on this order.
19	ExecRefID	N	Required for Cancel and Correct ExecTransType messages
1	Account	N	
11	ClOrdID	N	
44	Price	N	
211	PegDifference	N	
41	OrigClOrdID	N	ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.
109	ClientID	N	Used for firm identification in third-party transactions. If a ClientID was specified in the original order then it will be returned in all subsequent execution If a ClientID was specified in the original order then it will be returned in all subsequent execution
reports.			
18	ExecInst	N	Can contain multiple instructions, space delimited. Only 'M' (Midpoint Peg), 'N' (No-Peg), 'P' (Market Peg), and 'R' (Primary Peg) are supported. 'f' means Intermarket Sweep (ISO) NOTE: Midpoint peg executing instruction may be converted to display value "M" (tag 9140).

Restatement

Tag	Field Name	Req'd	Comments
9140	DisplayInst	N	May be used to specify NASDAQ's different display options. Y = Anonymous-Price to Comply A = Attributable-Price to Display N = Non-Display I = Imbalance Only P = Post-Only M = Mid-point Peg (Tag 18 must be set to "N") W = Mid-point peg post only
75	TradeDate	N	Used when reporting other than current day trades.
59	TimeInForce	N	Absence of this field indicates Market Hours order
40	OrdType	N	Valid values: 2 = Limit P = Pegged (requires ExecInst of P or R)
60	TransactTime	N	Time of execution/order creation (expressed in GMT). This field will now appear on all messages; previously this only appeared on execution or break messages.
47	Rule80A/OrderCapacit y	N	All values are supported. 'A' (agent) is the default.
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
111	MaxFloor	N	As specified in the NewOrder
378	ExecRestatementReas on	Y	For restatement, this value will always be: 5 = Partial decline of OrderQty
	Standard Trailer	Y	

7.7. Order Purge and Disable/Enable Order Entry Message

The Order Purge and Disable/Enable Order Entry message is issued by NASDAQ upon receipt of an Order Purge Request or Disable/Enable Order Entry Request message to indicate the action taken as a result of the request.

Order Purge and Disable/Enable Order Entry Message

Tag	Field Name	Required	Comments
	Standard Header	Y	MsgType = PR
1	Account	Y	Must be 32 characters or less
22202	PurgeRequestType	Y	1 = Cancel orders 2 = Disable MPID 3 = Enable MPID
22203	PurgeRequestResponse	Y	Indicates the action taken by the counterparty order handling system as a result of the request
532	RejectReason		Reject text why request was rejected, required when response = 0
109	ClientID	Y	Valid NASD assigned MPID
55	Symbol	N	Ticker symbol. The format of the symbol is native INET symbology
54	Side	N	1 = Buy 2 = Sell 5 = Sell Short 6 = Sell Short Exempt
20107	GroupId	N	Numeric XXXXX, max 99999

Order Purge and Disable/Enable Order Entry Message

Tag	Field Name	Required	Comments
11	ClOrdId	Y	Unique identifier of the order as assigned by institution. Must be 64 characters or less.
	Standard Trailer	Y	

7.8.   Order Cancel Reject

The order cancel reject message is issued by NASDAQ OMX PSX 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
	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.
109	ClientID	N	Used for firm identification in third-party transactions. For known orders this will contain the ClientID specified in the original order.
102	CxlRejReason	N	Code to identify reason for cancel rejection. Valid values: 0 = Too late to cancel 1 = Unknown order
58	Text	N	See "Rejected Order Reasons" in section 7
	Standard Trailer	Y	

7.8.1.   Order Reject/Cancel Reasons

The FIX Text field, tag 58, will be returned within all reject and cancel messages and will contain a description of the reject or cancel.

7.8.2.   Rejected Order Reasons

Reason	Explanation
Y	The LocateReqd tag was not set to 'N'
C	Rash is not yet open
I	Invalid side
E	Invalid peg type
L	Invalid Firm
Z	Order Size is more than maximum shares allowed
O	Unknown Error.
F	Invalid marketability value
B	Quote not available for pegged order
P	Pegging is not allowed

Reason	Explanation
X	The order does not have a valid price.
R	Routing not enabled
G	Specified routing destination is temporarily down
J	Internal NASDAQ OMX PSX error
N	Order attribute specified that the routing destination does not support
D	Bad reserve value
T	Port is in Test Only mode
H	The stock is halted
S	Invalid stock
Q	Invalid order qty
K	Invalid Min Qty
W	Routing destination is not supported
A	Advanced functionality not supported
U	NASDAQ OMX PSX was asked to reject resent orders and this order was resent
V	Invalid Order Type
a	Risk: Restricted Stock
b	Risk: Short Sell Restricted
d	Risk: Exceeds ADV Limit
e	Risk: Fat Finger
l	Risk: Locate Required
n	Risk: Max Notional Exceeded
o	Risk: Order Type Restricted
q	Midpoint Peg orders are not accepted in a crossed market
r	Risk: Market Impact
s	Risk: Open Exposure Exceeded
u	Risk: Port Message Rate Exceeded
v	Risk: Symbol Message Rate Exceeded
w	Risk: Duplicate Message Rate Exceeded
x	Risk: Executed Exposure Exceeded
y	Risk: Notional Exposure Exceeded

7.8.3. Cancel Order Reason

Reason	Explanation
"U"	User requested cancel. Sent in response to a Cancel Request Message.
"I"	Immediate or Cancel Order.
"T"	Timeout. The Time In Force for this order has expired
"S"	Supervisory. The order was manually canceled or reduced by an NASDAQ OMX PSX supervisory terminal.
"Q"	Self Match Prevention. The order was cancelled because it would have executed with an existing order entered by the same MPID.
"Z"	System cancel. This order was cancelled by the system.
"C"	Cross cancel
"q"	Order cancelled due to insufficient quantity

Reason	Explanation
"K"	This order cannot be executed because of Market Collars
"E"	Closed. Any DAY order that was received after the closing cross is complete in a given symbol will receive this cancel reason.
"J"	System cancel. This order was cancelled because it was rejected by an away destination.
"A"	Administrative cancel. This order was cancelled by the system.
"F"	Post Only Cancel. This Post Only order was cancelled because it would have been
"G"	price slid for NMS.

8. Revision History

Revision #	Date	Change
1.0	02/22/2010	Document Creation
1.01	08/12/2010	Re-introduced the sell short exempt value in buy sell field (Tag 54) Removed DNR/DNI instructions from tag 18
1.02	11/11/2010	Added liquidity flag value "V"
1.03	04/04/2011	Added Cancel reason code "K"
1.04	08/15/2011	Added PRM reject codes
1.05	10/04/2011	Added Post only display values "P","W" Added support for Routing
1.06	11/07/2011	Added numeric liquidity flag values Removed IOC requirement for minimum quantity orders
1.07	03/07/2012	Added display value "U" for minimum life orders
1.08	04/19/2012	Added liquidity flag value "k" Added liquidity flag value "m"
1.09	09/05/2012	Removed display value "W" Added execbroker value "TFYX" Removed liquidity flag value "k" Removed liquidity flag value "m"
1.10	12/03/2012	Added liquidity flag value "7" Added liquidity flag value "8" Clarified non displayed display value for midpoint orders
1.11	01/03/2013	Added tag 60 to the order cancel reject message
1.12	01/09/2013	Removed tag 60 to the order cancel reject message Clarified use of tag 60 in the execution message
1.13	01/14/2013	Modified the description of Tag 141.
1.14	02/21/2013	Revised description of tag 126 to include rejects for values later than the current trading day.
1.15	02/27/2013	Added execbroker value "XCST", "XDRK" Replaced routing strategy "INET" with "QNET"
1.16	03/27/2013	Replaced routing strategy "INET" with "QNET"
1.17	05/01/2013	Updated specifications for new price-time functionality
1.18	05/02/2013	Added display value "M" Added note about mid-point peg for execinst field (tag 18) Removed crosstradeflag value "H"
1.19	11/18/2013	Added ordstatus values "Z" and "q" Added Cancel Order reason "K" Added execbroker value "PSKN", "PSKP"
1.20	05/14/2014	Added liquidity flag value "V" Added display instruction value "W"
1.21	06/13/2014	Updated the format of the document Changed "Liquidity Code" to "Liquidity Flag"
1.22	08/04/2014	Removed display value "W"

Revision #	Date	Change
1.23	03/23/2015	Added cancel reasons "E", "X" (greyed out) Greyed out various liquidity code values Removed liquidity code value "I" Added display value "W"
1.24	06/04/2015	Changed wording of liquidity flag values "O", "M", "C", "L", "H", and "K" to make consistent with all specifications Added display value "W"
1.25	06/23/2015	Updated description for cancel order reason "E" Removed cancel order reason "X"
1.26	08/27/2015	Greyed out liquidity flag values "D", "E", "F", "G"
1.27	07/18/2016	Added value "y" to tag 18
1.28	10/12/2016	Ungreyed cancel order reason "e" Updated tag 59 in section 4.1 New Order – Single Message
1.29	10/14/2016	Added and greyed out routing strategy XRPO to tag 76 (ExecBroker)
1.30	11/07/2016	Greyed out "Directed Order" from all Exec Broker fields
1.31	01/26/2017	Added comment to tag 58 in new order message: "This tag is restricted to 128 bytes otherwise session will disconnect."
1.32	02/22/2017	Added new value "J" to cancel order reasons.
1.33	02/27/2017	Added new value "A" to cancel order reason Modified description to cancel order reason "J"
1.34	03/27/2017	Modified description to cancel order reason "J"
1.35	04/27/2017	Removed XRPO from tag 76 (ExecBroker)
1.36	07/11/2017	Updated explanation of existing cancel order reason "J"
1.37	03/15/2018	Added tag 375 and 382 to the execution report
1.38	05/15/2018	Renamed market center "CINN/NSX" to "NYSE National"
1.39	04/02/2019	Added "SCAR" in the list of target IDs for Tag 76=ExecBroker
1.40	03/11/2020	Added destination code "ISLT" and updated Directed Order Destination Codes table
1.41	04/07/2020	Added cancel order reason "F" and "G"
1.42	08/24/2020	Added Directed Order Destination codes "ISMX" and "ISMI" and added reject reason codes "q" and "n"
1.43	09/03/2020	Added contra broker values: "LTSE", "MEMX" and "EPRL"
1.44	12/28/2023	Added Mass Cancel, Disable Order Entry, and Enable Order Entry message types

The specifications contain more functionality than what is planned for initial production. Functionality that is not available will be greyed out in the specs.
Any changes will be conveyed via the NASDAQ PSX Head Trader Alerts or Technical Updates.