



Nasdaq CXC Limited

FIX 4.2 Application Notes

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System response times may vary for a number of reasons including market conditions, trading volumes and system performance.

Revision History

Version	Description	Date
Version 1.11	Made tag 6774 – BrokerNumber required on new order	2008-03-07
Version 1.12	Added tag 198 – SecondaryOrderID on execution reports Removed comment: “order quantity can be revised down only.” Quantity can be revised up or down	2008-03-24
Version 1.13	Added Smart Routing destinations, CSO, Peg Offset and Cross	2008-04-04
Version 1.14	Added tag 6776 and 6777 in Trade Report and identify hidden order value	2008-05-16
Version 1.15	Removed “PT” value from tag 6750 UMIRAccountType Added 59=N for “Bypass” order	2008-07-16
Version 1.16	Added values to tag 76 in Trade Report messages Added tag 110 in New Order	2008-07-18 2008-10-08
Version 1.17	Added 59=P for “Post-Only” order Added tag 8020 in New Order	2008-07-18 2008-10-08
Version 1.18	Modified “Bypass” order implementation from 59=N to 6791=Y	2009-05-05

Version	Description	Date
Version 1.19	Added additional value possibilities for tag 76 (ALPH, MATCH)	2009-06-17
Version 1.20	Removed Principal and Wash trade markers from new order	2009-07-29
Version 1.21	Added tag 21 in Cross Order	2010-09-14
Version 1.22	Changed tag 21 to modified if value other than 1	2010-09-27
Version 1.23	Added tag 6761, anonymous	2010-11-18
Version 1.24	Clean up Removed references to alternate symbology	2011-02-18
Version 1.25	Removed 6761 from execution	2011-05-09
Version 1.26	Added TMXS as a valid execbroker for TMX Select transactions	2011-07-07
Version 1.27	Added tag 7729 SME for future use, tag 20050 Facilitation Qty, additional cross types (C,V,B), and bypass cross order. Added NoTradeFeat (7713) and NoTradeKey (7714)	2012-06-28
Version 1.28	Added CSO to cross order type	2012-08-09
Version 1.29	Added tag 6763 to Order Cancel/Replace Request and Trade Report. Added tag 8114 (RepriceReason) to Acknowledgement messages.	2012-09-14
Version 1.30	Incorporated CX2 changes. Added tag 8115 (BrokerPrefEligible) and 8116 (BrokerPref). Modified tag 6761 (Anonymous) and added CX2 value for tags 57, 100, 128 and 129. Added CX2 as a valid ExecBroker for CX2 transactions.	2012-10-22
Version 1.31	Added tag 198 to Trade Report, added tag 9882 to Order Cancel Acknowledgement, removed tag 8115. Added ContraBroker (375) and NoContraBrokers (382) to Trade Report.	2013-01-14
Version 1.32	Added UMIRAccountType (6750) and Jitney (6757) to New Order Single Response and Trade Report messages.	2013-02-15
Version 1.33	Remove references to sell short exempt orders. Update ShortMarkingExempt (7729) description. Update description of ClOrdID (11) and OrigClOrdID (41) in Order Cancel Acknowledgment and Order Cancel and Cancel/Replace Reject. Update PegDifference (211).	2013-06-18
Version 1.34	Added FacilitationSide (20051) to Cross Order. Removed DeliverToCompID (128), and DeliverToSubID (129), BrokerNumber (6774). Added additional validation to Account (1), ClOrdID (11), OrdType (40), OrigClOrdID (41), Side (54), and TimInForce (59). Added ExecBroker (76) to New Order Single Response.	2013-11-06
Version 1.35	Added possible value of LYNX to ExecBroker (76).	2014-01-27
Version 1.36	Added self-trade prevention option of Execute. Change to NoTradeFeat (7713) on New Order Single and added ExecuteMatch (7733) on Trade Report.	2014-08-13
Version 1.37	Removed market wide option for NoTradeFeat (7713). Added AEQN for Aequitas Neo and AEQL for Aequitas Lit as possible values for ExecBroker (76).	2015-01-23
Version 1.38	Added Market On Close, Add Hidden and Remove Hidden values to TradeLiquidityIndicator (9882). Added Market On Close and Limit On Close to OrdType (40) and TimInForce (59). Added TimInForce (59) to Trade Report message.	2015-06-01

Version	Description	Date
Version 1.39	Removed PT = Professional Trader from CHIXBuyAccountType (6767) and CHIXSellAccountType (6768) of Cross Order. Added clarification of default for MOC orders to Anonymous (6761). Added Anonymous (6761) to Order Cancel/Replace Request message.	2015-08-12
Version 1.40	Added SettlType (63) and SettlDate (64) on Cross Orders to Support Special Settlement Terms. Removed TMXS as a valid ExecBroker (76) value.	2016-04-11
Version 1.41	Added SecurityIDSource (22), SecurityID (48), BrokerNumber (6774) and OrigSendercompID (9688) to identify additional drop copy tags. Added Minimum Price Improvement (MPI) order value to Execlnst (18). Added CXD as possible values for ExecBroker (76). Various references to CXD added to pre-existing fields. Added possible value of 4 to RepriceReason (8114) and restate message type (150=D) for Marketplace Thresholds.	2016-06-21
Version 1.42	Removed restate message type (150=D)	2016-08-03
Version 1.43	Removed default option from TargetSubid (57) and ExDestination (100)	2016-12-20
Version 1.44	Added Minimum Quantity (MQ) option to Execlnst (18) for CXD. Added Minimum Acceptable Quantity (MAQ) to MinQty (110) for CXD. Added possible TradeLiquidityIndicator (9882) values to indicate at-the-touch liquidity. Added Account (1) to Trade Report message.	2017-04-17
Version 1.45	Removed Minimum Quantity (MQ) option to Execlnst (18) for CXD.	2017-05-04
Version 1.46	Changed CSO to DAO. Added possible values to ExecBroker (76) to New Order Single Response. Added MaxFloor (111) to New Order Single Response. Added possible value of BU to AccountType (6750), CHIXBuyAccountType (6767) and CHIXSellAccountType (6768). Added possible value of D to CrossType (6773).	2017-06-15
Version 1.47	Added Minimum Quantity (MQ) option to Execlnst (18) for CXD.	2017-07-12
Version 1.48	Added support for POComment (7737).	2017-10-25
Version 1.49	OPR Cancel and OPR Reprice added to HandleInst (21). Reject combination of MinQty (110) and Bypass (6791). Update HandleInst (21) for Cross Order message. Added MAQ order type to CXC and CX2 in MinQty (110).	2017-12-14
Version 1.50	Housekeeping update	2018-02-08
Version 1.51	Change default value of Anonymous (6761) for CXC.	2018-04-27
Version 1.52	Added NBBOSetter (8115) on New Order Single Response. Added NBBO Setter value to TradeLiquidityIndicator (9882). Removed "(CXD Only)" from Minimum Price Improvement instructions in Execlnst (18).	2018-05-28

Version	Description	Date
Version 1.53	Added new ExecInst (18) values for Minimum Acceptable Quantity at the Touch (MAQ ATT), Minimum Quantity at the Touch (MQ ATT), and new tag 7731 (SeekPriceImprovement) on New Order Single, New Order Single Response, Order Cancel Acknowledgement, and Trade Report messages. Added HandlInst (21) to New Order Single Response and Order Cancel Acknowledgement messages.	2018-06-22
Version 1.54	Added tag SecurityExchange (207) to Trade Report message to identify the listing market.	2018-11-28
Version 1.55	Added GEFEligible (6759) to New Order Single and New Order Single Response messages. Added new possible values of g and G for GEF executions to TradeLiquidityIndicator (9882). Added the Market Participant Command and Market Participant Command Response Messages for GEF Members.	2018-12-21
Version 1.56	Add possible value of L to ExecInst (18) for M-ELO to New Order Single, New Order Single Response, Order Cancel Acknowledgement and Trade Report. Added possible values of E, O and L to TradeLiquidityIndicator (9882) to Order Cancel Acknowledgement and Trade Report. Added MsgType (35) and ExDestination (100) to Market Participant Command and MsgType (35) to Market Participant Command Response.	2019-06-06
Version 1.57	Changes to support IIROC Client Identifiers. Added new possible value of MC to UMIRAccountType (6750), BuyAccountType (6767) and SellAccountType (6768). Added new fields CustomerAccount (8025), OrderOrigination (1724), CustomerLEI (8027), BrokerLEI (8028), RoutingArrangementIndicator (2883) and AlgorithmID (8026) to non-cross order messages. Added new fields BuyCustomerAccount (20201), SellCustomerAccount (20202), BuyOrderOrigination (20209), SellOrderOrigination (20210), BuyCustomerLEI (20205), SellCustomerLEI (20206), BuyBrokerLEI (20207), SellBrokerLEI (20208), BuyRoutingArrangementIndicator (20211), SellRoutingArrangementIndicator (20212), BuyAlgorithmID (20203) and SellAlgorithmID (20204) to cross order messages.	2020-09-30
Version 1.58	Added new possible value of o to ExecInst (18) for Odd Lot Liquidity Providing (OLP).	2021-11-04
Version 1.59	Added new value of 8 for Stream Or Kill (SOK) to TimeInForce (59). Added new fields TargetStrategy (847), ConditionalOrder (23012), AllowConditional (23013), FirmUpID (23014), MinRate (27005) and MaxRate (27006) to New Order Single and New Order Single Response. Added new possible value of D to ExecType (150) and new fields of ConditionalOrder (23012) and FirmUpID (23014) to Order Cancel Acknowledgement message. Added new message type Restatement. Added new possible values of P, m and M to TradeLiquidityIndicator (9882).	2022-06-02

Version	Description	Date
Version 1.60	Added new possible value of CSE2 to ExecBroker (76). Moved ConditionalOrder (23012) and FirmUpID (23014) for conditional order firm up request from Order Cancel Acknowledgment (5.2.2.2) to Restatement (5.2.2.5). Added PureStream fields to Order Cancel Acknowledgment.	2022-10-18
Version 1.61	Added new possible value of NEOE to SecurityExchange (207).	2023-01-26
Version 1.62	Modified SendercompID character length Added new possible value of 1 = Cancelled for Tag ExecTransType (20) of Restatement message	2023-07-07
Version 1.63	Add CumRate (27014) to Restatement and Trade Report messages. Add TSXNCIB (6792) to New Order Single, New Order Single Response, Order Cancel Acknowledgment and Trade Report messages. Added new possible values of ALPX and ALPD to ExecBroker (76). Added FacilitationQty (20050) < OrderQty restriction.	2024-01-28

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1 INTRODUCTION

This document describes specifically what functionality is available through Nasdaq Canada's version FIX 4.2-based interface. It also describes how Nasdaq Canada uses the FIX protocol to achieve this functionality.

This document is intended to supplement the FIX Protocol Specification (www.fixprotocol.org), by describing:

- Where there are multiple ways to achieve a desired outcome with the protocol, this document describes which one(s) Nasdaq Canada supports.
- Where the protocol does not define the exact meaning or content of various fields, this document provides as much detail as possible to describe Nasdaq Canada's chosen implementation.
- Where there are possible alternative interpretations, this document describes which interpretation Nasdaq Canada has selected.

What is FIX?

FIX Connectivity enables the easy integration of the Nasdaq Canada trading system into your workflow and makes it easier for you to trade by reducing your keystrokes. FIX stands for the Financial Information eXchange Protocol. The FIX protocol is a 'language' created by a group of institutional clients and brokers to standardize the delivery of relevant pre-trade and trade information. It is a public-domain specification owned and maintained by the FIX Protocol Organization. Nasdaq Canada offers many options for you to easily integrate Nasdaq Canada into your workflow using a FIX connection.

Send orders or lists to Nasdaq Canada **directly from your trade blotter**

With a FIX connection between your system and Nasdaq Canada, you can easily send orders to Nasdaq Canada automatically from your trade blotter, providing instant access to Canadian trading opportunities and liquidity.

1.1 Documentation Methodology

FIX messages and fields are reprinted in this document only if their content or usage differs from the original FIX specification (www.fixprotocol.org). **FIX messages** are quoted in **boldface** (e.g. **Resend Request, Logon**); *FIX fields* are quoted in *italics* (e.g. *PossResend, SenderSubID*).

2 NASDAQ CANADA'S FIX INTERFACE

Since Nasdaq Canada is not a multi-day trading system, it does not support multi-day orders. When the system is brought down for nightly maintenance, all orders residing on the system will be cancelled, and FIX sequence numbers will be reset. When the system comes back up, it is considered the next trading day.

The following is the schedule for nightly maintenance (please note that times are approximate):

- Monday thru Friday 6 pm to 6 am EST time

Please also note that nightly maintenance will occur during Holidays.

Upon request, our Nasdaq Canada Support staff will provide you with access to the FIX test server. An appointment is required for certification purposes.

While using the test connection, the client will receive approximately the same traffic as that from the production connection. Please note, that not all trades or orders will be the same on the test server as they are on the production server.

3 CONFIGURATION INFORMATION

3.1 Client

3.1.1 SenderCompID

Clients must identify the session in the *SenderCompID (49)* field. NASDAQ must approve this value. Nasdaq Canada's software is case sensitive and the maximum size of the *SenderCompID (49)* field is **15** characters.

3.1.2 TargetCompID

TargetCompID must identify NASDAQ as the receiving firm.

3.1.3 Encryption

Nasdaq Canada does not support encryption of FIX messages.

3.2 NASDAQ Configuration

3.2.1 SenderCompID

The value the client will receive in the *SenderCompID* field from Nasdaq Canada will be the value originally supplied to Nasdaq Canada in the *TargetCompID* field in the logon message.

3.2.2 TargetCompID

The value the client will receive in the *TargetCompID* field from Nasdaq Canada will be the value originally supplied to Nasdaq Canada in the *SenderCompID* field in the logon message.

3.2.3 IP Addresses

Nasdaq Canada will provide clients the appropriate IP addresses for the production and test environments.

4 SESSION MANAGEMENT

This section describes session-level FIX messages sent between Nasdaq Canada and the client.

The production servers consist of a primary and a standby server. If the session to the primary server fails, retry this connection after 30 seconds. If reconnection fails, establish a session with the standby server. The secondary session will continue where the primary session left off. Once a session is reestablished, Nasdaq Canada will immediately begin sending execution reports that were not successfully delivered in the previous FIX session for the same trade date.

4.1 Message header format to Nasdaq Canada

Nasdaq Canada processes only the following fields in the message header and ignores all others:

Tag	Field Name	Req	Comments
8	BeginString	Y	FIX.4.2
9	BodyLength	Y	Must be the second field in the message.
34	MsgSeqNum	Y	See standard FIX explanation.
35	MsgType	Y	Must be the third field in the message.
43	PossDupFlag	N	Always required for retransmissions, whether prompted by the sending system or as the result of a resend request.
49	SenderCompID	Y	The value used must be recognized and agreed to by Nasdaq Canada.
50	SenderSubID	N	This can be used to indicate a specific Nasdaq Canada account or client. Nasdaq Canada ignores this tag.
52	SendingTime	Y	Indicates the time the message was sent by the client.
56	TargetCompID	Y	Identifies Nasdaq Canada as the receiving firm
97	PossResend	N	Required when message may be duplicate of another message sent under a different sequence number.

4.2 Message header format to Client

Nasdaq Canada processes only the following fields in the message header and ignores all others:

Tag	Field Name	Req	Comments
8	BeginString	Y	FIX.4.2
9	BodyLength	Y	Will be the second field in the message.
34	MsgSeqNum	Y	See standard FIX explanation.
35	MsgType	Y	Will be the third field in the message.
43	PossDupFlag	N	Always required for retransmissions, whether prompted by the sending system or as the result of a resend request.
49	SenderCompID	Y	The value originally supplied to Nasdaq Canada in the <i>TargetCompID</i> field in the logon message from the Client.
52	SendingTime	Y	Indicates the time the message was sent by Nasdaq Canada.
56	TargetCompID	Y	The value originally supplied to Nasdaq Canada in the <i>SenderCompID</i> field in the logon message from the Client.
57	TargetSubID	N	The value originally supplied to Nasdaq Canada in the <i>SenderSubID</i> field in related application messages from the Client, if specified.
97	PossResend	N	Required when message may be duplicate of another message sent under a different sequence number.

4.3 Message trailer format

NASDAQ processes only the following fields in the message trailer and ignores all others:

Tag	Field Name	Req	Comments
10	Checksum	Y	(Always unencrypted, always last field in message)

4.4 Logon

4.4.1 Client logon

The first expected message Nasdaq Canada will receive from a client is a **Logon** message. The following are the logon parameters:

- The sequence number, on the initial logon for each trading day, must be set to “1”.
- The heartbeat interval must be greater than zero.
- The *SenderCompID (49)* must be recognized by Nasdaq Canada (see section titled [Configuration Information](#)).
- The client must set the *TargetCompID (56)*.
- **If a client receives a sequence number less than expected, the client must terminate their session immediately, and should then contact Nasdaq Canada to correct the problem, as per the FIX protocol.**

4.4.2 Nasdaq Canada logon

Once Nasdaq Canada receives a **Logon** request, it will validate the *SenderCompID* and perform a recovery process (see section titled *Recovery*). **No** messages should be sent to Nasdaq Canada until a **Logon** message is received in reply from Nasdaq Canada.

In some cases, some time will elapse before a response is sent from Nasdaq Canada. Once the positive response is returned, the client’s heartbeat interval timer should begin. The session is signed on and both parties can begin exchanging messages. The negative response to a **Logon** request is a **Logout**.

4.5 Administrative messages

This section describes the minimum requirements to keep the session alive and synchronized.

Nasdaq Canada must receive a message from the client at least **once** in the heartbeat interval defined in the logon. Nasdaq Canada will assume the session is not alive if a message is not received in **two** heartbeat intervals, will send a **Logout** message to the client and then disconnect the session as per the FIX protocol.

Nasdaq Canada will send a message at least once in the heartbeat interval. In addition, Nasdaq Canada handles the following session level messages: **Resend Request**, **Sequence Reset** and **Test Request** messages and ignores the *OrigSendingTime (122)* in all messages.

4.6 Logout

This section concerns normal and abnormal termination of a session by either party.

4.6.1 Client

A Client’s FIX session should remain established throughout the trading day. Nasdaq Canada will logout client sessions before the start of the maintenance window. Abnormal session termination is treated as though the client had logged out from Nasdaq Canada. The following are considered abnormal session terminations:

- Network level disconnection
- Failure to send a message after two heartbeat intervals (see section titled "[Administrative Messages](#)")

4.6.2 Nasdaq Canada Nightly Maintenance

When Nasdaq Canada shuts down for nightly maintenance, any live sessions will be terminated. All remaining open orders will be cancelled and a new trade date will begin. No **Execution Reports** will be sent for orders sent on previous trading days.

4.7 Reject messages

Reject messages sent by Nasdaq Canada will include the sequence number of the rejected message and an explanation of the nature of the error, in the *text* field, whenever possible.

If NASDAQ receives a message with a sequence number *less* than expected during normal session processing, and it does not contain the *PossDupFlag* field, the message is discarded and a **Reject** message is sent to the client.

4.8 Recovery

When a client reconnects after a break in the session during the same trading day, Nasdaq Canada begins the following recovery sequence:

- If Nasdaq Canada receives a sequence number less than expected the session will be terminated immediately without sending a logoff. The client should contact Nasdaq Canada to correct the problem.
- Nasdaq Canada will transmit any unsent execution reports on receipt of a **Resend Request** from the client for the missing sequence numbers. If trades occur while the FIX session is down, Nasdaq Canada's outgoing sequence number will be higher than expected by the client.

The client is responsible for detecting message gaps for messages transmitted by Nasdaq Canada that may have been lost in the previous session, as per the FIX protocol. Nasdaq Canada will retransmit those messages when requested to do so by the client.

5 APPLICATION MESSAGES

This section discusses the application-level FIX messages sent and accepted by Nasdaq Canada.

5.1 Symbology

Nasdaq Canada supports only the local/exchange stock naming identifier in FIX messages.

5.2 Order Entry

5.2.1 Client

Nasdaq Canada currently supports the **New Order Single, Order Cancel Request, Order/Cancel Replace Request** FIX messages.

5.2.1.1 New Order Single

In addition to the standard header, trailer, and Nasdaq Canada-accepted symbol definition fields, Nasdaq Canada processes only the following fields in a **New Order Single** message, and ignores all others:

Tag	Field Name	Req	Comments
1	Account	N	Identifies the trading account. Maximum of 32 characters.
11	ClOrdID	Y	Must be unique for each order throughout the trading day, across all stocks and sides from the same FIX Session ID. Note: A FIX server will not necessarily verify the uniqueness of ClOrdID. Maximum of 32 characters.
18	ExecInst	N	Values supported by Nasdaq Canada (some values may be combined and each must be separated by a space): G = All or None (AON) P = Market Peg M = Mid-price Peg L = M-ELO (CXC only) R = Primary Peg f = DAO (Not supported on CXD) m = Minimum Acceptable Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3) t = Minimum Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3) x = Minimum Price Improvement z = Minimum Quantity (MQ) (tag 110 required) o = Odd Lot Liquidity Providing (OLP) (CXD Only) Note: Any other value will be ignored. DAO orders to CXD will be accepted, but DAO will be ignored.
21	HandlInst	Y	Instructions for order handling on Nasdaq Canada's trading system. Values supported by Nasdaq Canada: 1 = OPR Reprice 5 = OPR Cancel 6 = OPR Reprice All other values will be modified to 1. Tag 18=f will override any value in tag 21 and the order treated as DAO.

Tag	Field Name	Req	Comments
38	OrderQty	Y	Quantity of order.
40	OrdType	Y	<p>Values supported by Nasdaq Canada:</p> <ul style="list-style-type: none"> 1 = Market 2 = Limit 5 = Market On Close (requires TimeInForce(59) = 0) B = Limit On Close (SOR only) P =Pegged (requires ExeInst of M, R, P or x) <p>Note: Any other values will cause the order to be rejected.</p>
44	Price	N	Required for limit orders. If included in a Market order, the order will be rejected.
54	Side	Y	<p>Values supported by Nasdaq Canada:</p> <ul style="list-style-type: none"> 1 = Buy 2 = Sell 5 = Sell short <p>Note: Any other values will cause the order to be rejected.</p>
55	Symbol	Y	Local/ exchange symbol only
57	TargetSubid	N	<p>Indicates how the order should be routed:</p> <ul style="list-style-type: none"> CHIX CX2 CXD <p>Smart Order Router (SOR) Strategies: Values will be provided by Nasdaq Canada Operations following certification.</p> <p>A valid value is required in either TargetSubid (57) or ExDestination (100)</p>

Tag	Field Name	Req	Comments
59	TimeInForce	N	<p>Absence of this field indicates a day order. Values supported by Nasdaq Canada:</p> <ul style="list-style-type: none"> 0 = Day (Default) 1 = Good Till Cancel (GTC) – Treated as a Day Order and will expire at end of the day. 2 = At the Opening (OPG) – Treated as a Day Order and will expire at end of the day. 3 = Immediate or Cancel – As much of the order as possible must be executed immediately. Any part of the order that is not executed immediately gets canceled. 4 = Fill Or Kill (FOK) – Fill the order in its entirety or cancel it immediately. 6 = Good Till Date (GTD) – Date must be today’s trading date. This field must be used in conjunction with field ExpireTime (Field ID 126). 7 = At The Close – Requires OrdType(40)=1 for MOC or OrdType(40)=2 for LOC. Cannot be used in combination with OrdType(40)=5 or OrdType(40)=B. LOC orders will be routed to the TSX when using the Nasdaq Canada SOR. 8 = Stream Or Kill (SOK) – Order is paired in a stream immediately or is cancelled. (CXD PureStream only) P = Post-Only Order <p>Day orders are in effect until the client cancels the order, or until the Nasdaq Canada trading system is shut down for Nasdaq Canada Nightly Maintenance.</p> <p>Note: Any other values will cause the order to be rejected.</p>
60	TransactTime	Y	Time this order request was initiated by client.
100	ExDestination	N	<p>Indicates how the order should be routed:</p> <ul style="list-style-type: none"> CHIX CX2 CXD <p>Smart Order Router (SOR) Strategies:</p> <p>Values will be provided by Nasdaq Canada Operations following certification.</p> <p>A valid value is required in either TargetSubid (57) or ExDestination (100)</p>
110	MinQty	N	<p>Minimum Quantity (MQ): Minimum quantity of each fill event allowing for aggregation of contra orders.</p> <p>Minimum Acceptable Quantity (MAQ): Minimum quantity of each execution report. Orders will not interact with smaller sized contra orders. (default, use tag 18 to select MQ)</p> <p>Order will be rejected if Bypass=Y is combined with MinQty.</p>

Tag	Field Name	Req	Comments
111	MaxFloor	N	Reserve size order. Must be equal to or multiple of STU (Standard Trading Unit) Hidden Order: A value of 0 hides the order Any other value supplied by the client will cause the order to be rejected. (Not supported on CXD)
126	ExpireTime	N	Time/Date of order expiration in GMT. Only valid when TimeInForce (59) = 6 (Good Till Date). Date must be today's Trading Date. Incorrect data results in a rejected order.
211	PegDifference	N	Amount in dollars in \$0.01 increments added to the price of the peg. Positive values are more aggressive, negative values more passive.
847	TargetStrategy	N	1000 = Reference Rate Range of 5-15% 1001 = Reference Rate Range of 5-30% 1002 = Mach2 Reference Rate Range of 10-200% 1003 = Custom Reference Rate Range of X-Y% 1004 = Liquidity Seeking (LS) Unrestrained Reference Rate Range. Required for CXD PureStream orders.
1724	OrderOrigination	N	Broker / Dealer needs to report, as specified by the customer. 5 = Order received from a direct access customer (DEA) 6 = Order received from a foreign dealer equivalent (FDE) 7 = Order received from an execution-only service (OEO)
2883	RoutingArrangementIndicator	N	0 = No routing arrangement in place 1 = Routing arrangement in place
6750	UMIRAccountType	Y	Required for Canadian regulatory reporting. CL = Client (Default) NC = Non-Client ST = Specialist IN = Inventory OF = Options firm account OT = Options market maker BU = Bundled MC = Multiple Clients Note: If unspecified, Default is applied
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.

Tag	Field Name	Req	Comments
6754	BasketTrade	N	Identification for order as part of a basket trade: N = No (Default) 1*5Digit = Basket Number
6755	ProgramTrade	N	An order that is part of a basket trade comprised of Index securities to offset a futures or options position. Y = Yes N = No (Default)
6757	Jitney	N	To mark an order as being executed on behalf of another broker: TSX Broker Number, 3 digit numeric.
6759	GEFEligible	N	Indicator to identify if an order is eligible for the Guaranteed Execution Facility (GEF). Y = Order is GEF eligible
6761	Anonymous	N	Whether the TSX Broker Number should be hidden on the order book and execution. Y = Yes N = No (Default)
6763	UMIRRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA = Insider Account NA = Not Applicable SS = Significant Shareholder
6791	Bypass	N	Order marker that indicates the order should only trade with displayed volumes, i.e. ignore any hidden quantities. These orders are treated as IOC. "Y" "N"; default is "N" (Not supported on CXD). Order will be rejected if Bypass=Y is combined with MinQty.
6792	TSXNCIB	N	Identifies Normal-Course Issuer Bid (NCIB) orders. Y = Yes N = No (No default)

Tag	Field Name	Req	Comments
7713	NoTradeFeat	N	<p>Defines the behaviour of self-trade prevention when using NoTradeKey.</p> <p>2 characters (not space separated):</p> <p>1st character:</p> <p>N = Cancel newest order (the active order is cancelled) (Default)</p> <p>O = Cancel oldest order (the resting order is cancelled and the new order is allowed to book)</p> <p>D = Decrement and Cancel (the quantity of the larger order will be reduced, and the smaller order(s) are cancelled)</p> <p>E = Execute trade (Trade is suppressed on public market data feed) Field ExecuteMatch (7733) is returned on trade report message.</p> <p>2nd character:</p> <p>M or B = Self-trade prevention at broker level (only orders with the same broker number will be prevented from matching) (Default)</p> <p>The NoTradeFeat of the incoming order will take precedence.</p>
7714	NoTradeKey	N	<p>This participant-generated key prevents the order from trading against orders with the same key value.</p> <p>6*AlphaNumeric, no default</p>
7729	ShortMarkingExempt	N	<p>Identifies an order as Short Marking Exempt (SME). Not valid on short sell orders.</p> <p>0 = SME</p>
7731	SeekPriceImprovement	N	<p>1 = Trade with price improving hidden orders (order must be immediate or cancel)</p>
7737	POComment	N	<p>A free-form, pass-through tag provided for use by Participants.</p> <p>Maximum of 32 characters.</p>
8020	DisplayRange	N	<p>Quantity assigned to max floor orders indicating the range in which the displayed quantity will randomly increase or decrease. (Not supported on CXD)</p>
8025	CustomerAccount	N	<p>Account number for clients not eligible to obtain an LEI</p> <p>20 Alphanumeric</p>
8026	AlgorithmID	N	<p>Unique identifier for the end-client (orders automatically generated on a predetermined basis)</p> <p>20 Alphanumeric</p>
8027	CustomerLEI	N	<p>LEI for clients eligible to obtain an LEI including LEI of the foreign dealer equivalent (Encryption Required)</p> <p>52 Alphanumeric</p>
8028	BrokerLEI	N	<p>Non-PO IROC Dealer Member (Correspondent Broker)</p> <p>20 Alphanumeric</p>

Tag	Field Name	Req	Comments
23012	ConditionalOrder	N	C = Conditional order F = Conditional order firm-up indicator CXD PureStream only
23013	AllowConditional	N	Y = Yes N = No (Default) CXD PureStream IOC/SOK orders only
23014	FirmUpID	N	The FirmUpID received in Conditional match
27005	MinRate	N	Minimum rate for CXD PureStream Custom Reference Rate Range (847=1003) and LS (847=1004) orders Specified in percent as integer (e.g. 5% should be sent as 27005=5) Default 1% if not specified (Min 1%, Max 32,767%) Must be less than or equal to MaxRate<27006>
27006	MaxRate	N	Required maximum rate for CXD PureStream Custom Reference Rate Range (847=1003) orders Specified in percent as integer (e.g. 5% should be sent as 27005=5) (Min 1%, Max 500%) Must be greater than or equal to MinRate<27005>

5.2.1.2 Order Cancel Request

Nasdaq Canada processes a Cancel Request quantity as the full remaining quantity. Nasdaq Canada does not support partial cancels.

In addition to the standard header, trailer, and Nasdaq Canada-accepted symbol definition fields, Nasdaq Canada processes only the following fields in an **Order Cancel Request** message, and ignores all others:

Tag	Field Name	Req	Comments
11	ClOrdID	Y	Unique ID of cancel request assigned by the client. Maximum of 32 characters.
38	OrderQty	Y	Required by the FIX protocol, ignored by Nasdaq Canada. All cancel requests are for full remaining quantity.
41	OrigClOrdID	Y	Unique ID of original order to be cancelled as assigned by client. Maximum of 32 characters.
54	Side	Y	
55	Symbol	Y	
60	TransactTime	Y	Time this order request was initiated by client.

5.2.1.3 Order Cancel/Replace Request

Cancel/Replace requests will be handled as per the FIX protocol. Cancel/Replace requests that cannot be processed will be rejected using the **Cancel Reject** message; If Nasdaq Canada rejects the Cancel/Replace request, the *ClOrdID* of the replacement order will be inserted in the *ClOrdID* field of the Cancel Reject message for identification purposes.

In addition to the standard header, trailer, and Nasdaq Canada-accepted symbol definition fields, Nasdaq Canada processes only the following fields in an **Order Cancel/Replace Request** message, and ignores all others.

Tag	Field Name	Req	Comments
11	ClOrdID	Y	Unique ID of replacement order as assigned by the client. Maximum of 32 characters.
18	ExecInst	N	For a replacement order, this field must be populated anew (i.e. original order values will not be brought forward to replacement order unless redefined within this message).
21	HandlInst	Y	
38	OrdQty	Y	Note: The quantity in the Cancel/Replace message is the total order quantity, as defined by the FIX protocol and total order quantity semantics. Please refer to Appendix A for more information.
40	OrdType	Y	New Order Type for the request. Values supported: 1 = Market 2 = Limit P = Pegged (requires ExecInst of M, R, P or x)
41	OrigClOrdID	Y	Unique ID of order to be replaced as assigned by client. Maximum of 32 characters.
44	Price	N	Required for Limit orders
54	Side	Y	
55	Symbol	Y	
59	TimeInForce	N	Absence indicates a Day order
60	TransactTime	Y	Time this order request was initiated by client.
110	MinQty	N	See New Order Single section.
111	MaxFloor	N	See New Order Single section.
126	ExpireTime	N	If the client attempts to revise the expiration time to a time prior than the current time, the Cancel/Replace Request will be rejected.
847	TargetStrategy	N	See New Order Single section.

Tag	Field Name	Req	Comments
1724	OrderOrigination	N	Broker / Dealer needs to report, as specified by the customer. 5 = Order received from a direct access customer (DEA) 6 = Order received from a foreign dealer equivalent (FDE) 7 = Order received from an execution-only service (OEO)
2883	RoutingArrangementIndicator	N	0 = No routing arrangement in place 1 = Routing arrangement in place
6763	UMIRRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA = Insider Account NA = Not Applicable SS = Significant Shareholder
6761	Anonymous	N	Whether the TSX Broker Number should be hidden on the order book and execution. Y = Yes N = No (Default)
8020	DisplayRange	N	Quantity assigned to max floor orders indicating the range in which the displayed quantity will randomly increase or decrease. (Not supported on CXD)
8025	CustomerAccount	N	Account number for clients not eligible to obtain an LEI 20 Alphanumeric
8026	AlgorithmID	N	Unique identifier for the end-client (orders automatically generated on a predetermined basis) 20 Alphanumeric
8027	CustomerLEI	N	LEI for clients eligible to obtain an LEI including LEI of the foreign dealer equivalent (Encryption Required) 52 Alphanumeric
8028	BrokerLEI	N	Non-PO IIROC Dealer Member (Correspondent Broker) 20 Alphanumeric
23012	ConditionalOrder	N	See New Order Single section.
23013	AllowConditional	N	See New Order Single section.
27005	MinRate	N	See New Order Single section.
27006	MaxRate	N	See New Order Single section.

5.2.2 Nasdaq Canada Order Entry Messages

5.2.2.1 New Order Single Response

In addition to the standard header, trailer and Nasdaq Canada-accepted symbol definition fields, Nasdaq Canada will provide the following fields in an **Execution Report** message in response to a New Order Single request.

Tag	Field Name	Req	Comments
6	AvgPx	Y	The average price of all shares traded. Defaulted to 0 for order acknowledgements.
11	ClOrdID	N	Nasdaq Canada will always populate this field with the value assigned by client in the New Order Single message.
14	CumQty	Y	The total shares traded against the original order quantity. Defaulted to 0 for order acknowledgements.
15	Currency	N	Currency associated with symbol in Symbol (55) field
17	ExecID	Y	A unique identifier of execution message as assigned by Nasdaq Canada.
18	ExecInst	N	<p>Values supported by Nasdaq Canada (some values may be combined and each must be separated by a space):</p> <ul style="list-style-type: none"> G = All or None (AON) P = Market Peg M = Mid-price Peg R = Primary Peg L = M-ELO (CXC only) f = DAO (Not supported on CXD) m = Minimum Acceptable Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3) t = Minimum Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3) x = Minimum Price Improvement z = Minimum Quantity (MQ) (tag 110 required) o = Odd Lot Liquidity Providing (OLP) (CXD Only) <p>Note: Any other value will be ignored. DAO orders to CXD will be accepted, but DAO will be ignored.</p>
20	ExecTransType	Y	0 = New
21	HandlInst	Y	<p>Values supported by Nasdaq Canada:</p> <ul style="list-style-type: none"> 1 = OPR Reprice 5 = OPR Cancel 6 = OPR Reprice

Tag	Field Name	Req	Comments
22	SecurityIDSource	N	Identifies class or source of the SecurityID (48) value. (Drop copy only) Value supported by Nasdaq Canada: 1=CUSIP
31	LastPx	Y	Defaulted to 0 for order acknowledgements.
32	LastShares	Y	Defaulted to 0 for order acknowledgements.
35	MsgType	Y	8 = Execution Report
37	OrderID	Y	Nasdaq Canada order reference number.
38	OrderQty	Y	Quantity of original order.
39	OrdStatus	Y	0 = New 5 = Replaced 8 = Rejected
40	OrdType	N	Values supported by Nasdaq Canada: 1 = Market 2 = Limit 5 = Market On Close B = Limit On Close (SOR only) P = Pegged (requires ExecInst of M, R, P or x)
44	Price	N	Limit Price Required for limit orders only.
48	SecurityID	N	Security identifier value of SecurityIDSource (22) type. (Drop copy only)
54	Side	Y	Values supported by Nasdaq Canada: 1 = Buy 2 = Sell 5 = Sell short
55	Symbol	Y	Local/exchange symbol
59	TimeInForce	N	Will be returned if supplied in original New Order Single message.
63	SettlType	N	Settlement terms of the order: 1 = Cash (T+0) 2 = Next Day (T+1) 6 = Future (used in combination with SettlDate (64))
64	SettlDate	N	Specific date of trade settlement in YYYYMMDD format. This field is returned if the value of SettlType (63) is 6.

Tag	Field Name	Req	Comments
76	ExecBroker	N	Possible Values: CHIX, CX2, CXD, TSX, PURE, ALPH, MATCH, OMGA, LYNX, AEQN, AEQL, CSE2, ALPX, ALPD
103	OrdRejReason	N	Used with OrdStatus = 8 (Rejected) if reason is definable.
150	ExecType	Y	0 = New 5 = Replaced 8 = Rejected
151	LeavesQty	Y	Amount of shares open for further execution.
198	SecondaryOrderID	N	When present, NASDAQ order number as reported in the market data feed (CHIXMD) otherwise use tag 37.
847	TargetStrategy	N	1000 = Reference Rate Range of 5-15% 1001 = Reference Rate Range of 5-30% 1002 = Mach2 Reference Rate Range of 10-200% 1003 = Custom Reference Rate Range of X-Y% 1004 = Liquidity Seeking (LS) Unrestrained Reference Rate Range. Required for CXD PureStream orders.
1724	OrderOrigination	N	Broker / Dealer needs to report, as specified by the customer. 5 = Order received from a direct access customer (DEA) 6 = Order received from a foreign dealer equivalent (FDE) 7 = Order received from an execution-only service (OEO)
2883	RoutingArrangementIndicator	N	0 = No routing arrangement in place 1 = Routing arrangement in place
6750	UMIRAccountType	Y	Required for Canadian regulatory reporting. CL = Client (Default) NC = Non-Client ST = Specialist IN = Inventory OF = Options firm account OT = Options market maker BU = Bundled MC = Multiple Clients Note: If unspecified, Default is applied
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.
6757	Jitney	N	To mark an order as being executed on behalf of another broker: TSX Broker Number, 3 digit numeric.

Tag	Field Name	Req	Comments
6761	Anonymous	N	Whether the TSX Broker Number should be hidden on the order book and execution. Y = Yes N = No (Default)
6759	GEFEligible	N	Indicator to identify if an order is eligible for the Guaranteed Execution Facility (GEF). Y = Order is GEF eligible
6763	UMIRRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA = Insider Account NA = Not Applicable SS = Significant Shareholder
6791	Bypass	N	Will be returned if supplied in original New Order Single message.
6792	TSXNCIB	N	Will be returned if supplied in original New Order Single message.
6774	BrokerNumber	N	TSX Broker Number, 3 digit numeric. (Drop copy only)
7729	ShortMarkingExempt	N	Will be returned if supplied in original New Order Single message.
7731	SeekPriceImprovement	N	1 = Trade with price improving hidden orders
7737	POComment	N	A free-form, pass-through tag provided for use by Participants. Maximum of 32 characters.
8114	RepriceReason	N	Populated with a reason code if the order is repriced: 1 = Repriced to prevent trade 2 = Repriced to prevent lock 3 = Repriced to prevent cross 4 = Repriced for Marketplace Thresholds
8115	NBBOSetter	N	The Order is an NBBO Setter. Value(s) supported by Nasdaq Canada: Y= Order is NBBO Setter
8025	CustomerAccount	N	Account number for clients not eligible to obtain an LEI 20 Alphanumeric
8026	AlgorithmID	N	Unique identifier for the end-client (orders automatically generated on a predetermined basis) 20 Alphanumeric
8027	CustomerLEI	N	LEI for clients eligible to obtain an LEI including LEI of the foreign dealer equivalent (Encryption Required) 52 Alphanumeric
8028	BrokerLEI	N	Non-PO IROC Dealer Member (Correspondent Broker) 20 Alphanumeric

Tag	Field Name	Req	Comments
9688	OrigSendercompID	N	SenderCompID of the original order entry session. (Drop copy only)
23012	ConditionalOrder	N	C = Conditional Order F = Conditional order firm-up indicator CXD PureStream only
23013	AllowConditional	N	Y = Yes N = No (Default) CXD PureStream IOC/SOK orders only
23014	FirmUpID	N	The FirmUpID received in a Conditional match
27005	MinRate	N	Minimum rate for CXD PureStream Custom Reference Rate Range (847=1003) and LS (847=1004) orders Specified in percent as integer (e.g. 5% should be sent as 27005=5) Default 1% if not specified (Min 1%, Max 32,767%) Must be less than or equal to MaxRate<27006>
27006	MaxRate	N	Required maximum rate for CXD PureStream Custom Reference Rate Range (847=1003) orders Specified in percent as integer (e.g. 5% should be sent as 27005=5) (Min 1%, Max 500%) Must be greater than or equal to MinRate<27005>

5.2.2.2 Order Cancel Acknowledgment

In addition to the standard header, trailer and Nasdaq Canada -accepted symbol definition fields, Nasdaq Canada will provide the following fields in an **Execution Report** message in response to an order cancel or cancel/replace request that is accepted by Nasdaq Canada.

Tag	Field Name	Req	Comments
6	AvgPx	Y	The average price of all shares traded.
11	ClOrdID	N	Nasdaq Canada will always populate this field with the value assigned by client in the Order Cancel Request message.
14	CumQty	Y	The total shares traded against the original order quantity.
15	Currency	N	Currency associated with symbol in Symbol (55) field.
17	ExecID	Y	A unique identifier of execution message as assigned by Nasdaq Canada.

Tag	Field Name	Req	Comments
18	ExecInst	N	<p>Values supported by Nasdaq Canada (some values may be combined and each must be separated by a space):</p> <p>G = All or None (AON)</p> <p>P = Market Peg</p> <p>M = Mid-price Peg</p> <p>R = Primary Peg</p> <p>L = M-ELO (CXC only)</p> <p>f = DAO (Not supported on CXD)</p> <p>m = Minimum Acceptable Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3)</p> <p>t = Minimum Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3)</p> <p>x = Minimum Price Improvement</p> <p>z = Minimum Quantity (MQ) (tag 110 required)</p> <p>o = Odd Lot Liquidity Providing (OLP) (CXD Only)</p> <p>Note: Any other value will be ignored. DAO orders to CXD will be accepted, but DAO will be ignored.</p>
20	ExecTransType	Y	0 = New
21	HandlInst	Y	<p>Values supported by Nasdaq Canada:</p> <p>1 = OPR Reprice</p> <p>5 = OPR Cancel</p> <p>6 = OPR Reprice</p>
22	SecurityIDSource	N	<p>Identifies class or source of the SecurityID (48) value. (Drop copy only)</p> <p>Value supported by Nasdaq Canada:</p> <p>1=CUSIP</p>
31	LastPx	Y	<p>Defaulted to 0 for order cancel acknowledgements.</p> <p>Price at which the match would have occurred if not prevented when cancelled/replaced due to no-self trade.</p>
32	LastShares	Y	<p>Defaulted to 0 for order cancel acknowledgements.</p> <p>The quantity of shares that would have matched if not prevented when cancelled/replaced due to no-self trade.</p>
35	MsgType	Y	8 = Execution Report
37	OrderID	Y	Nasdaq Canada order reference number.
38	OrderQty	Y	Quantity of original order.
39	OrdStatus	Y	4 = Cancelled

Tag	Field Name	Req	Comments
40	OrdType	N	Values supported by Nasdaq Canada: 1 = Market 2 = Limit 5 = Market On Close B = Limit On Close (SOR only) P = Pegged (requires ExecInst of M, R, P or x)
41	OrigClOrdID	Y	Unique ID of original order to be cancelled as assigned by client.
44	Price	N	Limit Price
48	SecurityID	N	Security identifier value of SecurityIDSource (22) type. (Drop copy only)
54	Side	Y	Values supported by Nasdaq Canada: 1 = Buy 2 = Sell 5 = Sell short
55	Symbol	Y	Local/exchange symbol
59	TimeInForce	N	Will be returned if supplied in original New Order Single message.
150	ExecType	Y	4 = Cancelled
151	LeavesQty	Y	Amount of shares open for further execution.
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.
6761	Anonymous	N	Whether the TSX Broker Number should be hidden on the order book and execution. Y = Yes N = No (Default)
6763	UMIRRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA=Insider Account NA=Not Applicable SS=Significant Shareholder
6791	Bypass	N	Will be returned if supplied in original New Order Single message.
6792	TSXNCIB	N	Will be returned if supplied in original New Order Single message.
6774	BrokerNumber	N	TSX Broker Number, 3 digit numeric. (Drop copy only)
7729	ShortMarkingExempt	N	Will be returned if supplied in original New Order Single message.

Tag	Field Name	Req	Comments
7731	SeekPriceImprovement	N	1 = Trade with price improving hidden orders
7737	POComment	N	A free-form, pass-through tag provided for use by Participants. Maximum of 32 characters.
9688	OrigSendercompID	N	SenderCompID of the original order entry session. (Drop copy only)
9882	TradeLiquidityIndicator	N	Values supported by Nasdaq Canada: A = Order added liquidity R = Order removed liquidity a = Order added hidden liquidity r = Order removed hidden liquidity d = Order added hidden liquidity at-the-touch D = Order removed hidden liquidity at-the-touch g = Order added GEF liquidity G = Order removed GEF liquidity S = Displayed, liquidity-adding order improves the NBBO O = Opening/Closing Auction E = Last Sale Trading Session (TSX/TSXV) L = M-ELO P = CXD PureStream rate-based execution m = CXD PureStream LS mid-point block added liquidity M = CXD PureStream LS mid-point block removed liquidity Liquidity indicator if the match would have occurred if not prevented when cancelled/replaced due to no-self trade.
23012	ConditionalOrder	N	C = Conditional Order F = Conditional order firm-up indicator CXD PureStream only
23013	AllowConditional	N	Y = Yes N = No (Default) CXD PureStream IOC/SOK orders only
23014	FirmUpID	N	The FirmUpID received in a Conditional match

Tag	Field Name	Req	Comments
27005	MinRate	N	<p>Minimum rate for CXD PureStream Custom Reference Rate Range (847=1003) and LS (847=1004) orders</p> <p>Specified in percent as integer (e.g. 5% should be sent as 27005=5)</p> <p>Default 1% if not specified</p> <p>(Min 1%, Max 32,767%)</p> <p>Must be less than or equal to MaxRate<27006></p>
27006	MaxRate	N	<p>Required maximum rate for CXD PureStream Custom Reference Rate Range (847=1003) orders</p> <p>Specified in percent as integer (e.g. 5% should be sent as 27005=5)</p> <p>(Min 1%, Max 500%)</p> <p>Must be greater than or equal to MinRate<27005></p>

5.2.2.3 Order Cancel and Cancel/Replace Reject

In addition to the standard header, trailer and Nasdaq Canada accepted symbol definition fields, Nasdaq Canada will provide the following fields in a Cancel Reject message in response to an order cancel request that is rejected.

Tag	Field Name	Req	Comments
11	ClOrdID	Y	Nasdaq Canada will always populate this field with the value assigned by client in the Order Cancel or Cancel/Replace message.
35	MsgType	Y	9 = Order Cancel Reject
37	OrderID	Y	Nasdaq Canada order reference number.
39	OrdStatus	Y	OrdStatus value after this cancel reject is applied.
41	OrigClOrdID	Y	Nasdaq Canada will always populate this field with the value assigned by client in the most recently accepted New Order Single or Order Cancel/Replace message.
58	Text	N	The reason for the cancel reject.
66	ListID	N	Required for rejects against orders which were submitted as part of a list.
434	CxlRejResponseTo	Y	<p>Type of request to which this is a response:</p> <p>1=Order Cancel Request</p> <p>2=Order Cancel/Replace Request</p>

5.2.2.4 Replace Response

Please refer to the section “New Order Single Response” for how Nasdaq Canada responds to Cancel/Replace requests as per the FIX protocol.

5.2.2.5 Restatement

In addition to the standard header, trailer and Nasdaq Canada-accepted symbol definition fields, Nasdaq Canada will provide the following fields in an **Execution Report** message for a Restatement.

Tag	Field Name	Req	Comments
6	AvgPx	Y	The average price of all shares traded. Defaulted to 0 for order acknowledgements.
11	ClOrdID	N	Nasdaq Canada will always populate this field with the value assigned by client in the New Order Single message.
14	CumQty	Y	The total shares traded against the original order quantity. Defaulted to 0 for order acknowledgements.
15	Currency	N	Currency associated with symbol in Symbol (55) field
17	ExecID	Y	A unique identifier of execution message as assigned by Nasdaq Canada.
20	ExecTransType	Y	1 = Cancelled 3 = Status
21	HandlInst	Y	Values supported by Nasdaq Canada: 1 = OPR Reprice 5 = OPR Cancel 6 = OPR Reprice
22	SecurityIDSource	N	Identifies class or source of the SecurityID (48) value. (Drop copy only) Value supported by Nasdaq Canada: 1 = CUSIP
35	MsgType	Y	8 = Execution Report
37	OrderID	Y	Nasdaq Canada order reference number.
38	OrderQty	Y	Quantity of original order.
39	OrdStatus	Y	4 = Cancelled O = Stream On X = Stream Off
40	OrdType	N	Values supported by Nasdaq Canada: 1 = Market 2 = Limit 5 = Market On Close B = Limit On Close (SOR only) P = Pegged (requires ExecInst of M, R, P or x)

Tag	Field Name	Req	Comments
44	Price	N	Limit Price Required for limit orders only.
48	SecurityID	N	Security identifier value of SecurityIDSource (22) type. (Drop copy only)
54	Side	Y	Values supported by Nasdaq Canada: 1 = Buy 2 = Sell 5 = Sell short
55	Symbol	Y	Local/exchange symbol
59	TimeInForce	N	Will be returned if supplied in original New Order Single message.
76	ExecBroker	N	Possible Values: CHIX, CX2, CXD, TSX, PURE, ALPH, MATCH, OMGA, LYNX, AEQN, AEQL, CSE2, ALPX, ALPD
150	ExecType	Y	D = Restated
151	LeavesQty	Y	Amount of shares open for further execution.
847	TargetStrategy	N	1000 = 5-15% Reference Rate Range of 5-15% 1001 = 5-30% Reference Rate Range of 5-30% 1002 = Mach2 Reference Rate Range of 10-200% 1003 = Custom Reference Rate Range of X-Y% 1004 = Liquidity Seeking (LS) Unrestrained Reference Rate Range. Required for CXD PureStream orders.
1724	OrderOrigination	N	Broker / Dealer needs to report, as specified by the customer. 5 = Order received from a direct access customer (DEA) 6 = Order received from a foreign dealer equivalent (FDE) 7 = Order received from an execution-only service (OEO)
2883	RoutingArrangementIndicator	N	0 = No routing arrangement in place 1 = Routing arrangement in place

Tag	Field Name	Req	Comments
6750	UMIRAccountType	Y	Required for Canadian regulatory reporting. CL = Client (Default) NC = Non-Client ST = Specialist IN = Inventory OF = Options firm account OT = Options market maker BU = Bundled MC = Multiple Clients Note: If unspecified, Default is applied
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.
6757	Jitney	N	To mark an order as being executed on behalf of another broker: TSX Broker Number, 3 digit numeric.
6761	Anonymous	N	Whether the TSX Broker Number should be hidden on the order book and execution. Y = Yes N = No (Default)
6763	UMIRRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA = Insider Account NA = Not Applicable SS = Significant Shareholder
6774	BrokerNumber	N	TSX Broker Number, 3 digit numeric. (Drop copy only)
7729	ShortMarkingExempt	N	Will be returned if supplied in original New Order Single message.
7737	POComment	N	A free-form, pass-through tag provided for use by Participants. Maximum of 32 characters.
8025	CustomerAccount	N	Account number for clients not eligible to obtain an LEI 20 Alphanumeric
8026	AlgorithmID	N	Unique identifier for the end-client (orders automatically generated on a predetermined basis) 20 Alphanumeric
8027	CustomerLEI	N	LEI for clients eligible to obtain an LEI including LEI of the foreign dealer equivalent (Encryption Required) 52 Alphanumeric
8028	BrokerLEI	N	Non-PO IIROC Dealer Member (Correspondent Broker) 20 Alphanumeric

Tag	Field Name	Req	Comments
9688	OrigSendercompID	N	SenderCompID of the original order entry session. (Drop copy only)
23012	ConditionalOrder	N	R = Conditional order firm-up request CXD PureStream only
23013	AllowConditional	N	Y = Yes N = No (Default) CXD PureStream IOC/SOK orders only
23014	FirmUpID	N	Unique firm up ID for a Conditional match
27005	MinRate	N	Minimum rate for CXD PureStream Custom Reference Rate Range (847=1003) and LS (847=1004) orders Specified in percent as integer (e.g. 5% should be sent as 27005=5) Default 1% if not specified (Min 1%, Max 32,767%) Must be less than or equal to MaxRate<27006>
27006	MaxRate	N	Required maximum rate for CXD PureStream Custom Reference Rate Range (847=1003) orders Specified in percent as integer (e.g. 5% should be sent as 27005=5) (Min 1%, Max 500%) Must be greater than or equal to MinRate<27005>
27014	CumRate	N	The current cumulative streaming rate the order is achieving (includes multiple streams, if applicable). CXD PureStream Stream On messages only.

5.2.2.6 Trade Report

NASDAQ sends your trade reports via the **Execution Report** message. The trade report provides relay fill information as orders trade, including: average price of shares traded; total shares traded against the original order quantity; transaction time; and trade date. Please note that this does not include settlement information such as commission or tax information.

NOTE: The *ExecID* is considered to be the unique identifier of an execution message by Nasdaq Canada, as per the FIX protocol. It is the client's responsibility to detect and appropriately process possible duplicate ExecIDs, regardless of whether the *PossResend* flag has been set on the message or not.

In addition to the standard header, trailer, and Nasdaq Canada-accepted symbol definition fields, Nasdaq Canada provides only the following fields in an **Execution Report**:

Tag	Field Name	Req	Comments
1	Account	N	Identifies the trading account. Maximum of 32 characters.
6	AvgPx	Y	Average price of shares traded.
11	ClOrdID	N	Nasdaq Canada will always populate this field with the original value assigned by client in the New Order Single message.
14	CumQty	Y	Total shares traded against the original order quantity.
15	Currency	N	Currency in which the security is traded.
17	ExecID	Y	A unique identifier of execution message as assigned by NASDAQ.
18	ExecInst	N	<p>Values supported by Nasdaq Canada (some values may be combined and each must be separated by a space):</p> <ul style="list-style-type: none"> G = All or None (AON) P = Market Peg M = Mid-price Peg R = Primary Peg L = M-ELO (CXC only) f = DAO (Not supported on CXD) m = Minimum Acceptable Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3) t = Minimum Quantity – At the Touch (CXD only) (requires tag 110 & TimeInForce(59) = 3) x = Minimum Price Improvement z = Minimum Quantity (MQ) (tag 110 required) o = Odd Lot Liquidity Providing (OLP) (CXD Only) <p>Note: Any other value will be ignored. DAO orders to CXD will be accepted, but DAO will be ignored.</p>
19	ExecRefID	N	Used in a trade correct or cancel message (i.e. <i>ExecTransType</i> = 1 or 2) to refer to the previous Execution Report to which the current message applies.

Tag	Field Name	Req	Comments
20	ExecTransType	Y	Values supported by : 0 = New to indicate a trade report 1 = Cancel to indicate a trade cancel 2 = Correct to indicate a trade revision
22	SecurityIDSource	N	Identifies class or source of the SecurityID (48) value. (Drop copy only) Value supported by Nasdaq Canada: 1=CUSIP
31	LastPx	Y	Price of shares bought or sold on this fill.
32	LastShares	Y	Quantity of shares bought or sold on this fill.
37	OrderID	Y	Nasdaq Canada order reference number.
38	OrderQty	Y	Quantity of original order.
39	OrdStatus	Y	1 = Partially filled 2 = Filled 4 = Cancelled
40	OrdType	N	Values supported by Nasdaq Canada: 1 = Market 2 = Limit 5 = Market On Close B = Limit On Close (SOR only) P = Pegged (requires Execlnst of M, R, P or x)
44	Price	N	Limit Price Required for limit orders only.
48	SecurityID	N	Security identifier value of SecurityIDSource (22) type. (Drop copy only)
54	Side	Y	Values supported by Nasdaq Canada: 1 = Buy 2 = Sell 5 = Sell Short
55	Symbol	Y	Returns the Local/ exchange symbol of the security traded.
59	TimeInForce	N	Will be returned if supplied in original New Order Single message.
60	TransactTime	N	Time and date of execution (expressed as GMT).
63	SettlType	N	Settlement terms of the order: 1 = Cash (T+0) 2 = Next Day (T+1) 6 = Future (used in combination with SettlDate (64))

Tag	Field Name	Req	Comments
64	SettlDate	N	Specific date of trade settlement in YYYYMMDD format. This field is required if the value of SettlType (63) is 6.
75	TradeDate	N	Date of trade in YYYYMMDD format.
76	ExecBroker	N	Possible Values: CHIX, CX2, CXD, TSX, PURE, ALPH, MATCH, OMGA, LYNX, AEQN, AEQL, CSE2, ALPX, ALPD
150	ExecType	Y	1 = Partially filled 2 = Filled
151	LeavesQty	Y	Amount of shares open for further execution.
198	SecondaryOrderID	N	When present, Nasdaq Canada order number as reported in the market data feed (CHIXMD) otherwise use tag 37.
207	SecurityExchange	Y	Listing market of security: XTSE = TSX XTSX = TSX Venture XCNQ = CSE NEOE = Neo
375	ContraBroker	N	TSX Broker Number on the opposite side of trade. Will not be populated if contra order is anonymous.
382	NoContraBrokers	Y	Number of brokers on the opposite side of a trade, always set to 1. Will not be populated if contra order is anonymous.
847	TargetStrategy	N	1000 = Reference Rate Range of 5-15% 1001 = Reference Rate Range of 5-30% 1002 = Mach2 Reference Rate Range of 10-200% 1003 = Custom Reference Rate Range of X-Y% 1004 = Liquidity Seeking (LS) Unrestrained Reference Rate Range. Required for CXD PureStream orders.
1724	OrderOrigination	N	Broker / Dealer needs to report, as specified by the customer. 5 = Order received from a direct access customer (DEA) 6 = Order received from a foreign dealer equivalent (FDE) 7 = Order received from an execution-only service (OEO)
2883	RoutingArrangementIndicator	N	0 = No routing arrangement in place 1 = Routing arrangement in place

Tag	Field Name	Req	Comments
6750	UMIRAccountType	Y	Required for Canadian regulatory reporting. CL=Client (Default) NC=Non-Client ST=Specialist IN=Inventory OF = Options firm account OT = Options market maker BU = Bundled MC = Multiple Clients Note: If unspecified, Default is applied
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.
6757	Jitney	N	To mark an order as being executed on behalf of another broker: TSX Broker Number, 3 digit numeric.
6761	Anonymous	N	Whether the TSX Broker Number should be hidden on the order book and execution. Y = Yes N = No (Default)
6763	UMIRRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA = Insider Account NA = Not Applicable SS = Significant Shareholder
6774	BrokerNumber	N	TSX Broker Number, 3 digit numeric. (Drop copy only)
6776	PrincipalTrade	N	A principal transaction between a dealer and a dealer's customer's account. Y = Yes
6777	WashTrade	N	A trade that has occurred between proprietary accounts of the same member firm. Y = Yes
6791	Bypass	N	Will be returned if supplied in original New Order Single message.
6792	TSXNCIB	N	Will be returned if supplied in original New Order Single message.
7729	ShortMarkingExempt	N	Will be returned if supplied in original New Order Single message.
7731	SeekPriceImprovement	N	1 = Trade with price improving hidden orders
7733	ExecuteMatch	N	Trade matched and suppressed due to no self-trade. Y = Yes

Tag	Field Name	Req	Comments
7737	POComment	N	A free-form, pass-through tag provided for use by Participants. Maximum of 32 characters.
8116	BrokerPref	N	Trade matched due to broker preferencing. Y = Yes
8025	CustomerAccount	N	Account number for clients not eligible to obtain an LEI 20 Alphanumeric
8026	AlgorithmID	N	Unique identifier for the end-client (orders automatically generated on a predetermined basis) 20 Alphanumeric
8027	CustomerLEI	N	LEI for clients eligible to obtain an LEI including LEI of the foreign dealer equivalent (Encryption Required) 52 Alphanumeric
8028	BrokerLEI	N	Non-PO IIROC Dealer Member (Correspondent Broker) 20 Alphanumeric
9688	OrigSendercompID	N	SenderCompID of the original order entry session. (Drop copy only)
9882	TradeLiquidityIndicator	N	Values supported by Nasdaq Canada: A = Order added liquidity R = Order removed liquidity a = Order added hidden liquidity r = Order removed hidden liquidity d = Order added hidden liquidity at-the-touch D = Order removed hidden liquidity at-the-touch g = Order added GEF liquidity G = Order removed GEF liquidity C = Market On Close S = Displayed, liquidity-adding order improves the NBBO O = Opening/Closing Auction E = Last Sale Trading Session (TSX/TSXV) L = M-ELO P = CXD PureStream rate-based execution m = CXD PureStream LS mid-point block added liquidity M = CXD PureStream LS mid-point block removed liquidity
23013	AllowConditional	N	Y = Yes N = No (Default) CXD PureStream IOC/SOK orders only

Tag	Field Name	Req	Comments
27005	MinRate	N	<p>Minimum rate for CXD PureStream Custom Reference Rate Range (847=1003) and LS (847=1004) orders</p> <p>Specified in percent as integer (e.g. 5% should be sent as 27005=5)</p> <p>Default 1% if not specified</p> <p>(Min 1%, Max 32,767%)</p> <p>Must be less than or equal to MaxRate<27006></p>
27006	MaxRate	N	<p>Required maximum rate for CXD PureStream Custom Reference Rate Range (847=1003) orders</p> <p>Specified in percent as integer (e.g. 5% should be sent as 27005=5)</p> <p>(Min 1%, Max 500%)</p> <p>Must be greater than or equal to MinRate<27005></p>
27014	CumRate	N	<p>The current cumulative streaming rate the order is achieving (includes multiple streams, if applicable). CXD PureStream only.</p>

5.2.2.7 Unsupported FIX Messages

Nasdaq Canada does not support the following FIX message types:

- Allocation and Allocation ACK messages
- Quote Request and Quote messages
- Advertisement, Email and News messages
- Order List, Order Status
- List Cancel, List Execute and List Status

5.3 Cross

Tag	Field Name	Req	Comments
11	ClOrdID	Y	Must be unique for each order throughout the trading day, across all stocks and sides from the same FIX Session ID.
18	ExecInst	N	f = DAO
21	HandlInst	Y	Instructions for order handling on Nasdaq Canada's trading system. Value supported by Nasdaq Canada: 1 = Automated execution order, private, no Broker intervention. NOTE: All other values will be modified to 1.
38	OrderQty	Y	Quantity of order.
40	OrdType	Y	Values supported by Nasdaq Canada for Crosses: 2 = Limit
44	Price	N	Required for limit orders.
54	Side	Y	Values supported by Nasdaq Canada for Crosses: 8 = Cross 9 = Cross Short
55	Symbol	Y	Local/ exchange symbol only
57	TargetSubid	N	Indicates how the order should be routed: CHIX CX2 CXD Smart Order Router (SOR) Strategies: Values will be provided by Nasdaq CXC Operations following certification. A valid value is required in either TargetSubid (57) or ExDestination (100)
59	TimeInForce	N	Absence of this field indicates a day order. Values supported by Nasdaq Canada for Crosses: 0 = Day
60	TransactTime	Y	Time this order request was initiated by client.

Tag	Field Name	Req	Comments
63	SettlType	N	Settlement terms of the order: 1 = Cash (T+0) 2 = Next Day (T+1) 6 = Future (used in combination with SettlDate (64))
64	SettlDate	N	Specific date of trade settlement in YYYYMMDD format. This field is required if the value of SettlType (63) is 6.
100	ExDestination	N	Indicates how the order should be routed: CHIX CX2 CXD Smart Order Router (SOR) Strategies: Values will be provided by Nasdaq Canada Operations following certification. A valid value is required in either TargetSubid (57) or ExDestination (100)
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.
6754	BasketTrade	N	Identification for order as part of a basket trade: N=No (Default) 1*5Digit=Basket Number
6755	ProgramTrade	N	An order that is part of a basket trade comprised of Index securities to offset a futures or options position. Y=Yes N=No (Default)
6761	Anonymous	N	Whether the execution should hide the TSX Broker Number. Y = Yes N = No (Default)
6767	CHIXBuyAccountType	Y	Required for Canadian regulatory reporting. CL = Client (Default) NC = Non-Client ST = Specialist IN = Inventory OF = Options firm account OT = Options market maker BU = Bundled MC = Multiple Clients Note: If unspecified, Default is applied

Tag	Field Name	Req	Comments
6768	CHIXSellAccountType	Y	Required for Canadian regulatory reporting. CL = Client (Default) NC = Non-Client ST = Specialist IN = Inventory OF = Options firm account OT = Options market maker BU = Bundled MC = Multiple Clients Note: If unspecified, Default is applied
6769	CHIXBuyAccountID	N	Identifies the trading account on the Buy side of the Cross.
6770	CHIXSellAccountID	N	Identifies the trading account on the Sell side of the Cross.
6771	CHIXBuyRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA=Insider Account NA=Not Applicable SS=Significant Shareholder
6772	CHIXSellRegulationID	N	Identification marker for UMIR-specific designations to orders and trades. IA = Insider Account NA = Not Applicable SS = Significant Shareholder
6773	CrossType	N	Refers to Specialty Cross types. I = Internal C = Contingent B = Basis V = VWAP D = Derivative Related
6781	CHIXBuyJitney	N	To mark the buy side of the cross as being executed on behalf of another broker: BrokerNumber
6782	CHIXSellJitney	N	To mark the sell side of the cross an order as being executed on behalf of another broker: BrokerNumber
6791	Bypass	N	Regulatory marker indicating order is placed in conjunction with bypass orders. "Y" "N"; default is "N"

Tag	Field Name	Req	Comments
7729	ShortMarkingExempt	N	Identifies an order as Short Marking Exempt (SME). Not valid on short sell orders. 1 = Buy SME 2 = Sell SME 3 = Both buy and sell SME Value of 2 or 3 not valid on cross short orders.
7737	POComment	N	A free-form, pass-through tag provided for use by Participants. Maximum of 32 characters.
20050	FacilitationQty	N	Maximum quantity of shares to facilitate a “sweep and cross” order when not facilitating with the client side of the cross. FacilitationQty must be < OrderQty
20051	FacilitationSide	N	Identifies side of market to use FacilitationQty. 1 = Buy 2 = Sell
20201	BuyCustomerAccount	N	Account number for clients not eligible to obtain an LEI for the Buy side of the Cross 20 Alphanumeric
20202	SellCustomerAccount	N	Account number for clients not eligible to obtain an LEI for the Sell side of the Cross 20 Alphanumeric
20203	BuyAlgorithmID	N	Unique identifier for the end-client for the Buy side of the Cross (orders automatically generated on a predetermined basis) 20 Alphanumeric
20204	SellAlgorithmID	N	Unique identifier for the end-client for the Sell side of the Cross (orders automatically generated on a predetermined basis) 20 Alphanumeric
20205	BuyCustomerLEI	N	LEI for clients eligible to obtain an LEI including LEI of the foreign dealer equivalent for the Buy side of the Cross (Encryption Required) 52 Alphanumeric
20206	SellCustomerLEI	N	LEI for clients eligible to obtain an LEI including LEI of the foreign dealer equivalent for the Sell side of the Cross (Encryption Required) 52 Alphanumeric
20207	BuyBrokerLEI	N	Non-PO IIROC Dealer Member for the Buy side of the Cross (Correspondent Broker) 20 Alphanumeric
20208	SellBrokerLEI	N	Non-PO IIROC Dealer Member for the Sell side of the Cross (Correspondent Broker) 20 Alphanumeric

Tag	Field Name	Req	Comments
20209	BuyOrderOrigination	N	Broker / Dealer needs to report for the Buy side of the Cross, as specified by the customer. 5 = Order received from a direct access customer (DEA) 6 = Order received from a foreign dealer equivalent (FDE) 7 = Order received from an execution-only service (OEO)
20210	SellOrderOrigination	N	Broker / Dealer needs to report for the Sell side of the Cross, as specified by the customer. 5 = Order received from a direct access customer (DEA) 6 = Order received from a foreign dealer equivalent (FDE) 7 = Order received from an execution-only service (OEO)
20211	BuyRoutingArrangementIndicator	N	0 = No routing arrangement in place 1 = Routing arrangement in place
20212	SellRoutingArrangementIndicator	N	0 = No routing arrangement in place 1 = Routing arrangement in place

5.4 Market Participant

5.4.1 Market Participant Command

In addition to the standard header and trailer, Nasdaq Canada processes only the following fields in a **Market Participant Command** message, and ignores all others.

Tag	Field Name	Req	Comments
35	MsgType	Y	MC
54	Side	Y	Values supported by Nasdaq Canada: 1 = Buy 2 = Sell
55	Symbol	Y	Local/exchange symbol
100	ExDestination	N	CX2 (Default)
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.
6789	PartCommandID	Y	Unique identifier assigned by the GEF Member to the message. Maximum of 32 characters.
6799	GEFCommitVolume	Y	The size (shares) of the GEF Member's commitment for auto-executions. Must be at least the GMV for the Designated Security.

5.4.2 Market Participant Command Response

In addition to the standard header and trailer, Nasdaq Canada will provide the following fields in a **Market Participant Command Response** message in response to a Market Participant Command request.

Tag	Field Name	Req	Comments
35	MsgType	Y	MR
54	Side	Y	Values supported by Nasdaq Canada: 1 = Buy 2 = Sell
55	Symbol	Y	Local/exchange symbol
58	Text	N	The reason for the Market Participant Command reject.
150	ExecType	Y	0 = New 8 = Rejected If the Market Participant Command message is rejected, the GEF Member's commitment remains at the value set prior to the Market Participant Command message.
6751	UMIRUserID	Y	Required for Canadian regulatory reporting, the trading system's user ID for the trader.
6789	PartCommandID	Y	Unique identifier assigned by the GEF Member to the message.
6799	GEFCommitVolume	Y	The size (shares) of the GEF Member's commitment for auto-executions.

6 APPENDIX A – EXAMPLE ORDER FLOW MATRICES

1 - Filled order

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	2000	8000	2000	Execution of 2000
4		Execution(X)	Partial Fill	Partially Filled	New	10000	3000	7000	1000	Execution of 1000
5		Execution(X)	Fill	Filled	New	10000	10000	0	7000	Execution of 7000

2 – Cancel request issued for a zero-filled order

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3	Cancel Request(Y,X)					10000				
4		Cancel Reject (Y,X)		New		10000				If rejected
4		Execution (Y,X)	Canceled	Canceled	New	10000	0	0	0	

3 – Cancel request issued for a part-filled order – executions occur whilst cancel request is active

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	2000	8000	2000	Execution for 2000
4	Cancel Request(Y,X)					10000				
4		Execution(X)	Partial Fill	Partially Filled	New	10000	5000	5000	3000	Execution for 3000. This execution passes the cancel request on the connection
5		Cancel Reject (Y,X)		Partially Filled		10000				If request is rejected
5		Execution(X)	Partial Fill	Partially Filled	New	10000	6000	4000	1000	Execution for 1000 whilst order is pending cancel
6		Execution (Y,X)	Canceled	Canceled	New	10000	6000	0	0	'Canceled' order status takes precedence over 'partially filled' order status

4 – Cancel request issued for an order that becomes filled before cancel request can be accepted

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	2000	8000	2000	Execution for 2000
4	Cancel Request(Y,X)					10000				
4		Execution(X)	Partial Fill	Partially Filled	New	10000	5000	5000	3000	Execution for 3000. This execution passes the cancel request on the connection
5		Cancel Reject (Y,X)		Partially Filled		10000				If request is rejected
6		Execution(X)	Fill	Filled	New	10000	10000	0	5000	Execution for 5000 whilst order is pending cancel. 'Pending cancel' order status takes precedence over 'filled' order status
7		Cancel Reject (Y,X)		Filled		10000				Cancel request rejected – CxlRejectReason = 0 (too late to cancel)

5 – Zero-filled order, cancel/replace request issued to decrease order qty

<u>Time</u>	<u>Message Received</u> (COrdID, OrigCOrdID)	<u>Message Sent</u> (COrdID, OrigCOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3	Replace Request(Y,X)					9000				Request to decrease order qty to 9000
4		Cancel Reject (Y,X)		New		10000				If rejected by trader
4		Execution (Y,X)	Replace	Replaced	New	9000	0	9000	0	'Replaced' order status takes precedence over 'new' order status
5		Execution (Y)	Partial Fill	Partially Filled	New	9000	1000	8000	1000	Execution for 1000
6		Execution (Y)	Partial Fill	Partially Filled	New	9000	3000	7000	2000	Execution for 2000

6 – Part-filled order, followed by cancel/replace request to decrease order qty, execution occurs whilst order is pending replace

<u>Time</u>	<u>Message Received</u> (COrdID, OrigCOrdID)	<u>Message Sent</u> (COrdID, OrigCOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	1000	Execution for 1000
4	Replace Request(Y,X)					8000				Request decrease in order quantity to 8000
5		Cancel Reject (Y,X)		Partially Filled		10000				If request is rejected
5		Execution(X)	Partial Fill	Partial Fill	New	10000	1100	8900	100	Execution for 100 before cancel/replace request is responded to
5		Cancel Reject (Y,X)		Partially Filled		10000				If request is rejected
6		Execution (Y,X)	Replace	Partially Filled	New	8000	1100	6900	0	'Partially filled' order status takes precedence over 'replaced' order status
7		Execution(Y)	Fill	Filled	New	8000	8000	0	6900	Execution for 6900

7 – Cancel/replace request (not for quantity change) is rejected as a fill has occurred

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	1000	Execution for 1000
4	Replace Request(Y,X)					10000				
4		Execution(X)	Fill	Filled	New	10000	10000	0	9000	Execution for 9000 – the replace request message and this execution report pass each other on the connection
5		Cancel Reject (Y,X)		Filled		10000				CxlRejectReason = 0 (too late to cancel)

8 – Cancel/replace request sent whilst execution is being reported – the requested order qty exceeds the cum qty. Order is replaced then filled.

<u>Time</u>	<u>Message Received</u> (COrdID, OrigCOrdID)	<u>Message Sent</u> (COrdID, OrigCOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	1000	Execution for 1000
4	Replace Request(Y,X)					8000				Request a decrease order quantity to 8000 (leaving 7000 open)
4		Execution(X)	Partial Fill	Partially Filled	New	10000	1500	8500	500	Execution for 500 sent. Replace request and this execution report pass each other on the connection
5		Execution(X)	Partial Fill	Partially Filled	New	10000	1600	8400	100	Execution for 100 occurs before cancel/replace request is accepted
6		Cancel Reject (Y,X)		Partially Filled		10000				If request is rejected
6		Execution (Y,X)	Replace	Partially Filled	New	8000	1600	6400	0	'Partially filled' order status takes precedence over 'replaced' order status. Replace is accepted as requested order qty exceeds cum qty
7		Execution (Y)	Fill	Filled	New	8000	8000	0	6400	Execution for 6400.

9 – Cancel/replace request sent whilst execution is being reported – the requested order qty equals the cum qty – order qty is amended to cum qty

<u>Time</u>	<u>Message Received</u> (COrdID, OrigCOrdID)	<u>Message Sent</u> (COrdID, OrigCOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3	Replace Request(Y,X)					7000				Client wishes to amend order qty to 7000 shares
3		Execution(X)	Partial Fill	Partially Filled	New	10000	7000	3000	7000	Execution for 7000 - the replace message and this execution report pass each other on the connection
4		Execution (Y,X)	Replace	Filled	New	7000	7000	0	0	The replace request is interpreted as requiring the balance of the order to be canceled – the ‘filled’ order status takes precedence over ‘canceled’ or ‘replaced’

10 – Cancel/replace request sent whilst execution is being reported – the requested order qty is below cum qty – order qty is amended to cum qty

Time	Message Received (COrdID, OrigCOrdID)	Message Sent (COrdID, OrigCOrdID)	Exec Type	OrdStatus	Exec Trans Type	Order Qty	Cum Qty	Leaves Qty	Last Shares	Comment
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3	Replace Request(Y,X)					7000				Client wishes to amend order qty to 7000 shares
3		Execution(X)	Partial Fill	Partially Filled	New	10000	8000	2000	8000	Execution for 8000 - the replace message and this execution report pass each other on the connection
4		Execution (Y,X)	Replace	Filled	New	8000	8000	0	0	The replace request is interpreted as requiring the balance of the order to be canceled – the ‘filled’ order status takes precedence over ‘canceled’ or ‘replaced’

11 – One cancel/replace request is issued which is accepted – another one is issued which is also accepted

Time	Message Received (CLOrdID, OrigCLOrdID)	Message Sent (CLOrdID, OrigCLOrdID)	Exec Type	OrdStatus	Exec Trans Type	Order Qty	Cum Qty	Leaves Qty	Last Shares	Comment
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	1000	Execution for 1000
4	Replace Request(Y,X)					8000				Request decrease in order quantity to 8000, leaving 7000 open
5		Execution(X)	Partial Fill	Partially Filled	New	10000	1500	8500	500	Execution for 500
6		Execution (Y,X)	Replace	Partially Filled	New	8000	1500	6500	0	'Partially filled' order status takes precedence over 'replaced' order status
7		Execution (Y)	Partial Fill	Partially Filled	New	8000	3500	4500	2000	Execution for 2000
8	Replace Request(Z,Y)					6000				Request decrease in order quantity to 6000, leaving 2500 open
9		Execution (Z,Y)	Replace	Partially Filled	New	6000	3500	2500	0	'Partially filled' order status takes precedence over 'replaced' order status
10		Execution(Z)	Fill	Filled	New	6000	6000	0	2500	Execution for 2500

12 – Unsolicited cancel of a part-filled order

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	1000	Execution for 1000
4										NASDAQ verbally agrees to cancel order
5		Execution(X)	Cancelled	Cancelled	New	10000	1000	0	0	NASDAQ signifies that order has been canceled - ExecRestatementReason = Verbal change

13– Order rejected due to duplicate CLOrdID

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	1000	Execution for 1000
4	New Order(X)					10000				Order submitted with the same order id

<u>Time</u>	<u>Message Received</u> (COrdID, OrigCOrdID)	<u>Message Sent</u> (COrdID, OrigCOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
5		Execution(X)	Rejected	Partially Filled	New	10000	1000	9000	0	OrdRejReason = duplicate order

14 - Poss resend order

<u>Time</u>	<u>Message Received</u> (COrdID, OrigCOrdID)	<u>Message Sent</u> (COrdID, OrigCOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				
2		Execution(X)	New	New	New	10000	0	10000	0	
3	New Order(X)					10000				PossResend=Y
4		Execution(X)	New	New	Status	10000	0	10000		Because order X has already been received, confirm back the current state of the order. Last shares not required when ExecTransType = Status
5	New Order(Y)					15000				PossResend=Y
6		Execution(Y)	New	New	New	15000	0	15000	0	Because order Y has not been received before, confirm back as a new order.

15 – Immediate or Cancel order that cannot be immediately hit

<u>Time</u>	<u>Message Received</u> (COrdID, OrigCOrdID)	<u>Message Sent</u> (COrdID, OrigCOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Last Shares</u>	<u>Comment</u>
1	New Order(X)					10000				Order is IOC
2		Execution(X)	Rejected	Rejected	New	10000	0	0	0	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	1000	Execution for 1000
4		Execution(X)	Canceled	Canceled	New	10000	1000	0	0	If order cannot be immediately hit

16 – Filled order, followed by correction and cancellation of executions

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>AvgPx</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
1	New Order(X)					10000							
2		Execution(X)	Rejected	Rejected	New	10000	0	0		0		A	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	0		B	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	100	1000	100	C	Execution for 1000 @ 100
4		Execution(X)	Fill	Filled	New	10000	10000	0	109	9000	110	D	Execution for 9000 @ 110
5		Execution(X)	Fill	Filled	Cancel	10000	9000	1000	110	0	0	E (C)	Cancel execution for 1000
6		Execution(X)	Fill	Filled	Correct	10000	9000	1000	100	9000	100	F (D)	Correct price on execution for 9000 to 100

17 – Fully filled order (1 trade), followed by cancellation of execution.

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>AvgPx</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
1	New Order(X)					10000							
2		Execution(X)	Rejected	Rejected	New	10000	0	0		0		A	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	0		B	

3		Execution(X)	Fill	Filled	New	10000	10000	0	100	10000	100	C	Execution for 10000 @ 100
4		Execution(X)	Canceled	Canceled	Cancel	10000	0	0	0	0	0	D (C)	Cancel execution for 10000

18 – Fully filled order (>1 trade), followed by cancellation of 1 execution.

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Avg Px</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
1	New Order(X)					10000							
2		Execution(X)	Rejected	Rejected	New	10000	0	0		0		A	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	0		B	
3		Execution(X)	Fill	Partially Filled	New	10000	8000	2000	100	8000	100	C	Execution for 8000 @ 100
4		Execution(X)	Fill	Filled	New	10000	10000	0	100	2000	100	D	Execution for 2000 @ 100
5		Execution(X)	Fill	Filled	Cancel	10000	8000	0	100	2000	0	E (D)	Cancel execution for 2000

19 – Partially filled order (1 trade), followed by cancellation of execution and remaining quantity trades

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Avg Px</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
1	New Order(X)					10000							
2		Execution(X)	Rejected	Rejected	New	10000	0	0		0		A	If order is rejected

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Avg Px</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
2		Execution(X)	New	New	New	10000	0	10000	0	0		B	
3		Execution(X)	Fill	Partially Filled	New	10000	8000	2000	100	8000	100	C	Execution for 8000 @ 100
4		Execution(X)	New	New	Cancel	10000	0	2000	0	2000	0	D (C)	Cancel execution for 8000
5		Execution(X)	Fill	Filled	New	10000	2000	0	100	2000	100	E	Execution for 2000 @ 100

20 – Filled order, followed by price correction of execution.

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Avg Px</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>Exec Id (ExecRefID)</u>	<u>Comment</u>
1	New Order(X)					10000							
2		Execution(X)	Rejected	Rejected	New	10000	0	0		0		A	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	0		B	
3		Execution(X)	Fill	Filled	New	10000	10000	0	100	10000	100	C	Execution for 10000 @ 100
4		Execution(X)	Fill	Filled	Correct	10000	10000	0	101	10000	101	D (C)	Correct execution for 10000 @ 101

21 – Filled order, followed by quantity correction of execution.

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>AvgPx</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
1	New Order(X)					10000							
2		Execution(X)	Rejected	Rejected	New	10000	0	0		0		A	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	0		B	
3		Execution(X)	Fill	Filled	New	10000	10000	0	100	10000	100	C	Execution for 10000 @ 100
4		Execution(X)	Partial Fill	Canceled	Correct	10000	9000	0	100	9000	100	D (C)	Correct execution for 9000 @ 100

22 – Filled order, followed by price correction and cancellation of executions

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>AvgPx</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
1	New Order(X)					10000							
2		Execution(X)	Rejected	Rejected	New	10000	0	0		0		A	If order is rejected
2		Execution(X)	New	New	New	10000	0	10000	0	0		B	
3		Execution(X)	Partial Fill	Partially Filled	New	10000	1000	9000	100	1000	100	C	Execution for 1000 @ 100
4		Execution(X)	Fill	Filled	New	10000	10000	0	109	9000	110	D	Execution for 9000 @ 110

<u>Time</u>	<u>Message Received</u> (CLOrdID, OrigCLOrdID)	<u>Message Sent</u> (CLOrdID, OrigCLOrdID)	<u>Exec Type</u>	<u>OrdStatus</u>	<u>Exec Trans Type</u>	<u>Order Qty</u>	<u>Cum Qty</u>	<u>Leaves Qty</u>	<u>Avg Px</u>	<u>Last Shares</u>	<u>Last Px</u>	<u>ExecId (ExecRefID)</u>	<u>Comment</u>
5		Execution(X)	Fill	Filled	Cancel	10000	9000	1000	110	0	0	E (C)	Cancel execution for 1000
6		Execution(X)	Fill	Filled	Correct	10000	9000	1000	100	9000	100	F (D)	Correct price on execution for 9000 to 100

7 APPENDIX B – NASDAQ CANADA PEG ORDER DEFINITIONS

7.1 Primary (PRIM) Peg Type

This section will provide examples of Basic and Incremental PRIM Pegged orders.

Basic Primary Peg

Basic PRIM pegged orders are pegged to the same side of the stock's consolidated market best bid/offer. The order does not have any discretion, and therefore, will only trade with other orders at its then displayed price. The order will float with the market up to the limit price.

Peg Order Type	Does the Display Float?	Side Pegged
Basic Primary (PRIM)	Y	Same side of primary mkt quote

In the following example, the order is to *Buy 3000 at 10.20 pegged to the PRIM*:

ExecInst	OrderQty	OrdType	Price ¹	Side
(18)	(38)	(40)	(44)	(54)
R	3000	P	10.20	1

The consolidated market best bid and offer is 10.10 – 10.16. The order will be initially displayed at 10.10 and will float with the market but never beyond the limit price of 10.20. It will only trade with other orders at the then displayed price.

7.2 Mid (MID) Peg Type

This section will provide examples of Basic and Incremental MID Pegged orders.

Basic Mid Peg

Basic MID pegged orders are pegged to the middle of the consolidated market best bid and offer. The order price does not have any discretion, and therefore, will only trade with other orders at its then calculated price. The order will float with the market up to the limit price. MID pegged orders are hidden orders and not displayed on the book.

¹ If no limit price (*Price*) is entered for Primary Pegged orders then the order will float until fully executed. This applies to all Primary Pegged orders.

Peg Order Type	Does the Hidden Price Float?	Side Pegged
Basic MID	Y	Middle Consolidated Mkt best bid/offer.

In the following example, the order is to *Buy 3000 at 10.20 pegged to the MID*:

ExecInst (18)	OrderQty (38)	OrdType (40)	Price ² (44)	Side (54)
M	3000	P	10.20	1

The primary market best bid and offer is 10.00 – 10.02. Therefore, the order will initially be displayed at 10.01, and will float with the market, but never beyond the limit of 10.20. The order will trade with other orders at the mid price.

7.3 Market (MKT) Peg Type

This section will provide examples of Basic and Incremental Market (MKT) Pegged orders.

Basic Market Peg

Basic Market (MKT) pegged orders are pegged to the contra-side of the Consolidated Market. The order will float with the market up to the limit price.

Peg Order Type	Does the Display Float?	Side Pegged
Basic Market (MKT)	Y	Contra side of Primary Market

In the following example, the order is to *Buy 3000 at 10.20 pegged to the MKT*:

ExecInst (18)	OrderQty (38)	OrdType (40)	Price ³ (44)	Side (54)
P	3000	P	10.20	1

² If no limit price (*Price*) is entered for Mid Pegged orders then the order will float until fully executed. This applies to all Mid Pegged orders.

³ If no limit price (*Price*) is entered for Market Pegged orders then the order will float until fully executed. This applies to all Market Pegged orders.

The Consolidated Market best bid and offer is 10.01 – 10.06. Therefore, the order will initially be displayed at 10.05, and will float with the market, but never beyond the limit of 10.20.