



Nasdaq Nordic – FIX Drop

INET Nordic

Nordic Equities Markets



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Approved

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Document History

| Revision | Published | Author(s) | Summary of Changes |
|----------|-------------|-----------|---|
| 2.00.0 | 21 Oct 2021 | StSr | <p>New Specification Template</p> <p>Updated sections 1 and 2</p> <p>Field 9140 DisplayInst removed I = Imbalance only</p> <p>Added following fields in section 3.1.1:</p> <p>20107 PriorOrderReferenceNumber 20108 OriginalOrderEntryDate 20109 OrderCondition</p> <p>Added Appendix A – Max Lengths and Appendix B – Data Types</p> |
| 2.00.1 | 11 Nov 2021 | StSr | Updated description for field 2594 |
| 2.00.2 | 08 Feb 2022 | StSr | <p>Tag 39 – removed 5=Replaced</p> <p>Tag 75 – Comments updated</p> <p>Tag 150 – removed 1=Partial Fill and 2=Filled, added F=Trade</p> <p>Tag 20107 – Field name changed from Prior to Original and Comments updated</p> <p>Tag 20108 – Comments updated</p> |
| 2.00.3 | 15 Mar 2022 | StSr | <p>Tag 150 added H=Trade Cancel</p> <p>Removed Tag 198 from 3.1.2</p> |
| 2.00.4 | 28 Mar 2022 | StSr | <p>Section 3.1.1 Execution Report – changed description (Tag 150 – removed 1=Partial Fill and 2=Filled, added F=Trade) for the following Tag's:</p> <p>6, 30, 31, 32, 375, 9882, 2667, 1430, 625, 574, 828, 1115, and 1724</p> <p>Section 3.1.1 Tag 9882 Modified description for Trade cancel</p> |
| 2.00.5 | 05 Apr 2022 | | Section 3.1.1– Removed Tag 20 and updated description for Tag 19 |
| 2.00.6 | 12 Jul 2022 | | Modified descriptions for Tag 37, Tag 151 and Tag 198 in 3.1.1 |
| 2.00.7 | 30 Aug 2022 | | Modified description for tag 14 in 3.1.1 |
| 2.00.8 | 13 Sep 2022 | | <p>Removed Tag 257 SecondaryExecID and Tag 1040 SecondaryTradeID in 3.1.1</p> |
| 2.01.0 | 24 Nov 2022 | | <p>Modified description for Tag 6, Tag 31, Tag 32 and Tag 151 in 3.1.1 – Execution Report</p> <p>Added FIX Tag [1138] – DisplayQty to section 3.1.1 – Execution Report</p> |
| 2.01.1 | 07 Feb 2023 | | <p>Modified description for Tag 9355 in 3.1.1</p> <p>Added description in 3.1.1</p> |

| Revision | Published | Author(s) | Summary of Changes |
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| 2.01.2 | 16 Mar 2023 | | Updated description for Tag 625 in 3.1.1 |
| 2.01.3 | 12 Oct 2023 | RnTh | Added value “P” in FIX Tag [625] – TradingSessionSubID in Execution Reports (section 3.3.1), to flag AOD trades according to MMT 4.1, Level 2 – Trading Mode |
| 2.01.4 | 16 May 2024 | StSr | Minor correction in section Overview Added Tag 582 – CustOrderCapacity in 3.1.1 and Appendix A |
| 2.01.5 | 12 Jan 2026 | StSr | Updated enum value for On Demand Auction in Tag [625] in 3.1.1 |
| 2.01.6 | 3 Feb 2026 | StSr | Updated description in Tag [1430] in 3.1.1 |

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Overview

This document contains the FIX 5.0 SP2 protocols used by Nasdaq Nordic and Nasdaq Baltic¹, the functionality of FIX, and the user requirements for accessing the Nasdaq Nordic FIX protocol. This document outlines the FIX drop for messages transmitted via OUCH or FIX for entering orders into Nasdaq Nordic.

This document does not consider messages transmitted via other entry points into Nasdaq Nordic.

Users should be familiar with the FIX 5.0 SP2 EP228 specifications, as this document supplements those specifications.

1.1 Related Documentation

Specification documents can be located at:

<https://www.nasdaq.com/solutions/european-trading-services>

It is assumed that the user of this manual is familiar with FIX 5.0 SP2 standard, which may be found at <http://www.fixtradingcommunity.org/>.

Session level considerations and messages are found in the Nasdaq Nordic FIXT 1.1 Transport Layer protocol specification.

¹ Nasdaq Copenhagen, Nasdaq Helsinki, Nasdaq Iceland, Nasdaq Riga, Nasdaq Stockholm, Nasdaq Tallinn and Nasdaq Vilnius are respectively brand names for Nasdaq Copenhagen A/S, Nasdaq Helsinki Ltd, Nasdaq Iceland hf., Nasdaq Riga AS, Nasdaq Stockholm AB, Nasdaq Tallinn AS and AB Nasdaq Vilnius. Nasdaq Nordic represents the common offering by Nasdaq Copenhagen, Nasdaq Helsinki, Nasdaq Iceland and Nasdaq Stockholm. Nasdaq Baltic represents the common offering by Nasdaq Tallinn, Nasdaq Riga and Nasdaq Vilnius.

Session Overview

Please refer to the **Nasdaq Nordic FIXT 1.1 Transport Layer** specification for Session level considerations and messages. Note that the BeginString [8] = “FIXT.1.1” is expected for this protocol.

2.1 Connectivity

You need to have a separate FIX DROP connection to receive Nasdaq FIX order messages and Nasdaq OUCH order messages.

FIX DROP messages are sent with:

- TargetCompID [56] = INORD
- TargetSubID [57]= S

Nasdaq outbound messages will relay SenderSubID [50] = S.

Application Messages

3.1 Outbound from Nasdaq

3.1.1 Execution Report

You will receive this message:

- When Nasdaq FIX receives a New Order Single, and its destination system has accepted that order.
- When your order has been executed or if an execution is cancelled.
- When an order is restated with a (new) ITCH Order Reference Number.
- When a reserve order (with MaxFloor) visible quantity is refreshed.
- When a displayed pegged order is re-pegged to a new price (not hidden orders).
- When a GTC carryover message is re-inserted on the morning.
- In response to a Cancel Request (pending cancel).
- In response to a Cancel Request, unless that request is rejected (accepted cancel).
- On unsolicited cancels for expired orders.
- In response to a Cancel/Replace Request, unless that request is rejected.
- In response to cancelling an order from one FIX connector and the order was not originally entered on that connector the Execution Report will only contain order identifying tags.

| Tag | Field | Reqd | Comments |
|-----|-----------------------|------|---|
| | StandardHeader | Y | MsgType = 8 |
| 6 | AvgPx | Y | Average price of all executions on this order. Used for ExecType [150] = F (Trade). "0.0" is sent in all other cases. |
| 11 | ClOrdID | Y | As per the order. The UserRefNum field is used in OUCH. |
| 14 | CumQty | Y | Currently executed shares for chain of orders. Zero for ExecType [150] = 8 (Rejected) |
| 15 | Currency | N | As per the order |
| 17 | ExecID | Y | Unique identifier of execution message as assigned by Nasdaq. Will be zero (0) for restatements. |
| 18 | ExecInst | N | As per the order |
| 19 | ExecRefID | N | Reference ID for trade breaks (ExecType [150] = H (Trade Cancel)). |

| Tag | Field | Reqd | Comments |
|-----|-------------|------|--|
| 22 | IDSource | N | Valid values: 4 = ISIN |
| 30 | LastMkt | N | In the case of restatement messages (ExecType [150]= D (Restated)) for away market posted order, indicates the market (MIC code) where the order was routed. In the case of fills and partial fills (ExecType [150] = F (Trade)), indicates the execution venue. Note that separate MIC codes are used for Nordic@Mid dark book trades and AOD order book trades. |
| 31 | LastPx | N | Price of this (last) fill. Required for fills and trade breaks (ExecType [150] = F (Trade) and H (Trade Cancel)). |
| 32 | LastShares | N | Quantity of shares bought/sold on this (last) fill. Required for fills (ExecType [150] = F (Trade)). |
| 37 | OrderID | Y | The Nasdaq assigned Order Reference number. Unique for each order. "0" for ExecType [150] = 8 (Rejected) |
| 38 | OrderQty | N | The order's total quantity. |
| 39 | OrdStatus | Y | Valid values: 0 = New 1 = Partial Fill 2 = Filled 4 = Canceled 6 = Pending Cancel 8 = Rejected E = Pending Replace |
| 40 | OrdType | N | As per the order |
| 41 | OrigCLOrdID | N | Returns the CLOrdID of the order to be cancelled or modified. Will be set for unsolicited cancels, including cancel-on-disconnect, as well. |
| 44 | Price | N | As per the order |
| 48 | SecurityID | N | ISIN code |

| Tag | Field | Reqd | Comments |
|-----|--------------|------|--|
| 54 | Side | Y | As per the order |
| 55 | Symbol | Y | OrderBookID |
| 58 | Text | N | For ExecType [150] = 8 (Rejected), where possible, a message to explain reason for rejection. A message may also be provided for ExecType [150] = 4 (Canceled) and 5 (Replaced). |
| 59 | TimeInForce | N | As per the order |
| 60 | TransactTime | N | Transaction time. |
| 75 | TradeDate | N | YYYYMMDD |
| 76 | ExecBroker | N | As per the order |
| 103 | OrdRejReason | N | Code to identify reason for order rejection. Valid values: 0 = Broker option 1 = Unknown symbol 2 = Exchange closed 3 = Order exceeds limit 4 = Too late to enter 5 = Unknown Order 6 = Duplicate Order 7 = Duplicate of a verbally communicated order 8 = Stale Order |
| 109 | ClientID | Y | MPID of the intended recipient of this message. |
| 110 | MinQty | N | As per the order |
| 111 | MaxFloor | N | As per the order |
| 126 | ExpireTime | N | As per the order |

| Tag | Field | Reqd | Comments |
|-----|-----------------------|------|---|
| 150 | ExecType | Y | Describes the specific Execution Report. Valid values: 0 = New 4 = Canceled 5 = Replaced 6 = Pending Cancel 8 = Rejected D = Restated E = Pending Replace F = Trade (partial fill or fill) H = Trade Cancel |
| 151 | LeavesQty | Y | Amount of shares open for further execution. If the order is no longer active then LeavesQty = "0", otherwise LeavesQty = OrderQty [38] - CumQty [14]. |
| 198 | SecondaryOrderID | N | Relays the ITCH order reference number for ExecType [150] = D (restatements) only. Same as OrderID [37]. In the case of orders routed out, when possible, returns the OrderID [37] used by the introducing broker. For execution algos, returns the child OrderID [37]. |
| 211 | PegDifference | N | As per the order |
| 382 | NoContraBrokers | N | Number of Contra Brokers. Will always = 1 unless this is for an execution cancel. |
| 375 | ContraBroker | N | MPID of the contra party on the execution. Required for fills (ExecType [150] = F (Trade)). Otherwise optional. For execution algos, returns the child Contra [375]. |
| 378 | ExecRestatementReason | N | Required for ExecType [150] = D (Restated). Valid values: 1 = GT Renewal (This will identify the Execution Restatements that are sent each morning for GTC Carryovers) 8 = Market (Exchange) option (This should be the value for all Execution |

| Tag | Field | Reqd | Comments |
|------|---------------------|------|---|
| | | | Restatements other than the GTC Carryovers) |
| 439 | ClearingFirm | N | As per the order |
| 440 | ClearingAccount | N | As per the order |
| 528 | OrderCapacity | N | As per the order |
| 529 | OrderRestrictions | N | As per the order |
| 583 | ClOrdLinkID | N | Used for execution algo child orders. Specifies the ClOrdID [11] of the parent order. |
| 1003 | TradeID | N | Unique trade identity over order books for both auto matched and manual reported trades during one trading day. For Execution messages, if the execution occurred on INET, the value will be a nine digit numeric only field, left padded with zeros. If the execution occurred externally, the value will begin with "F" followed by a nine digit numeric only field, left padded with zeros. For execution algos, returns the child TradeID [1003]. |
| 1138 | DisplayQty | N | The currently displayed quantity on reserve order restatements. |
| 1816 | ClearingAccountType | N | As per the order |
| 5815 | SubMktID | N | Numeric code for the desired Market Segment. |
| 6209 | ClRefID | N | As per the order |
| 6227 | DisplayRange | N | As per the order |

| Tag | Field | Reqd | Comments |
|-------|----------------|------|---|
| 9140 | DisplayInst | N | <p>May be used to specify different display options. The default for this tag is dependent upon the value sent in [111]. If 111=0, then the default for 9140 = N. Otherwise, the default is Y.</p> <p>Valid values: M = Nordic@Mid dark book N = Non-Display Y = Display (Anonymous as per market rules) A = Auction On Demand book</p> |
| 9355 | CrossTradeFlag | N | <p>This specifies the cross in which the order goes live.</p> <p>Valid values: C = Closing Cross H = Halt Cross I = Scheduled Intraday Cross O = Opening Cross A = Auction On Demand</p> |
| 9861 | BrSeqNbr | N | As per the order |
| 9882 | LiquidityFlag | N | <p>Returned on ExecType [150] = F (Trade) messages.</p> <p>Valid values: 7 = Away Market Trade A = Continuous Market Trade C = Auction trade M = Nordic@Mid trade P = Auction On Demand (AOD) trade G = Trading at Closing Price</p> <p>Returned on ExecType [150] = H (Trade cancel)</p> <p>Valid value: E = Trade cancel</p> <p>For execution algos, returns the child LiquidityFlag [9882].</p> |
| 168 | EffectiveTime | N | As per the order |
| 20001 | Target%Volume | N | As per the order |
| 849 | Maximum%Volume | N | As per the order |

| Tag | Field | Reqd | Comments |
|-------|--------------------|------|------------------|
| 20003 | Minimum%Volume | N | As per the order |
| 20002 | Aggression | N | As per the order |
| 20030 | MinChildOrderValue | N | As per the order |
| 20020 | SpreadLimit | N | As per the order |
| 20021 | RefPriceBidLeg | N | As per the order |
| 20022 | RefPriceAskLeg | N | As per the order |
| 20023 | LagBidLeg | N | As per the order |
| 20024 | LagAskLeg | N | As per the order |
| 20025 | LeadBidLeg | N | As per the order |
| 20026 | LeadAskLeg | N | As per the order |
| 20027 | StopLossBidLeg | N | As per the order |
| 20028 | StopLossAskLeg | N | As per the order |
| 20029 | BasketID | N | As per the order |
| 20031 | Ratio | N | As per the order |
| 20006 | IWouldPrice | N | As per the order |
| 20007 | IWouldType | N | As per the order |
| 20005 | IWouldQty | N | As per the order |
| 20012 | CleanUpType | N | As per the order |
| 20013 | CleanUpQty | N | As per the order |
| 20004 | BlockFilter | N | As per the order |
| 20010 | OnOpenType | N | As per the order |
| 20008 | OnOpenQty | N | As per the order |
| 20011 | OnCloseType | N | As per the order |
| 20009 | OnCloseQty | N | As per the order |
| 20014 | DynamicBenchmark | N | As per the order |
| 20015 | DynamicPrice | N | As per the order |
| 20016 | InMoneyStyle | N | As per the order |
| 20018 | OutMoneyStyle | N | As per the order |
| 20101 | STPLevel | N | As per the order |
| 20102 | STPAction | N | As per the order |

| Tag | Field | Reqd | Comments |
|--|--------------------|------|--|
| 20103 | STPTraderGroup | N | As per the order |
| 20104 | LastExecFlagINT | N | Defines if the execution (or trade) is internalized. Valid values: 1 = Internalized |
| 20105 | LastExecFlagTOP | N | Defines if the execution (or trade) is top of book. Valid values: 1 = Top-of-Book |
| 20106 | LastExecFlagSTP | N | Defines if the execution (or trade) is self trade. Valid values: 1 = Self-Trade (no clear, no publish) |
| 851 | LastLiquidityInd | N | Liquidity indicator. Valid values: 1 = Added Liquidity 2 = Removed Liquidity 3 = Liquidity Routed Out 4 = Auction |
| 2593 | NoOrderAttributes | N | Indicates the number of instances of the repeating group OrderAttributeGrp to follow. Defaults to zero. |
| Repeating Group OrderAttributeGrp must occur the number of times specified in NoOrderAttributes (2593) | | | |
| 2594 | OrderAttributeType | Y | Required if NoOrderAttributes [2593] >0 2 = Liquidity provision activity. This flag is used to indicate whether the order is related to any sort of liquidity provision activity, as defined under MiFID II. Flag is required for the order to be considered to count towards meeting any obligation pursuant to the Nasdaq Liquidity Provider 4 = Algorithmic order. Indicates that the order was placed as a result of an investment firm engaging in algorithmic trading. Corresponds to MMT Level 3.9 – Transaction Type: Algorithmic Indicator |

| Tag | Field | Reqd | Comments |
|--|-----------------------------|------|---|
| 2595 | OrderAttributeValue | Y | Required if NoOrderAttributes [2593] >0 Y = Yes |
| 487 | <u>TradeReportTransType</u> | N | Identifies Trade Report message transaction type. Corresponds to MMT Flag 3.4 - Transaction Type: Modification Indicator Valid values: 0 = New 1 = Cancel |
| 2667 | AlgoIndicator | N | Returned on fills and partial fills (ExecType 150) = F, where the execution was the result of an investment firm engaging in algorithmic trading, corresponds to MMT Flag 3.9 0 = No algorithm was involved (the default). 1 = Algorithmic. |
| 453 | NoPartyIDs | Y | Indicates the number of instances of the repeating group NewOrderPtyRptGrp to follow |
| Repeating Group NewOrderPtyRptGrp must occur the number of times specified in NoPartyIDs (453) | | | |
| 448 | PartyID | Y | The short code representing the client or decision maker represented by this block. Unsigned numerical only. Data corresponding to this short code must have been previously supplied, or will be supplied by the end of the calendar day, per our Rules. For clients, the following values are reserved for applicable use: 0 = NONE (No Client for this order) 1 = AGGR (An aggregation of multiple client orders) 2 = PNAL (Clients are pending allocation) 3 = NORE (Time and venue of the order instructed by the client of the Participant or by another person from outside the Investment |

| Tag | Field | Reqd | Comments |
|------|---------------------|------|--|
| | | | Firm.) |
| 447 | PartyIDSource | Y | Must always be P (Short code identifier) |
| 452 | PartyRole | Y | Specifies the role of the party to the trade. At this time, only the following values are valid: 3 = Client ID 12 = Executing Trader (the Executing Decision Maker) 122 = Investor ID (the Investment Decision Maker) |
| 2376 | PartyRoleQualifier | Y | Provides further qualification of the PartyRole value. Valid values are: 0 = NONE (Only valid for reserved short codes) 22 = Algorithm (applicable to PartyRole values 12 or 122) 23 = Firm or legal entity (LEI) (applicable to PartyRole value 3) 24 = Natural person (applicable to PartyRole values 3, 12 and 122) |
| 1430 | VenueType | N | Returned on ExecType [150] = F (Trade) messages. Corresponds to MMT Flag 1 – Market Mechanism. B = Central Limit Order Book D = Dark Order Book O = Off Book (Away market trades) A = Periodic Auction z = Other Market |
| 625 | TradingSessionSubID | N | Returned on ExecType [150] = F (Trade) messages. Corresponds to MMT Flag 2 – Trading Mode. 2 = Scheduled Opening Auction 3 = Continuous Trading 4 = Scheduled Closing Auction 5 = Post-Trading 6 = Scheduled Intraday Auction 9 = Unscheduled Auction |

| Tag | Field | Reqd | Comments |
|--|-----------------------|------|---|
| | | | 14 = On Demand Auction (AOD) |
| 574 | MatchType | N | Returned on ExecType [150] = F (Trade) messages. Corresponds to MMT Flag 2 – Trading Mode. 3 = Confirmed Trade Report (away market trades) |
| 828 | TrdType | N | Returned on ExecType [150] = F (Trade) messages. Corresponds to MMT Flag 3.1 – Transaction Category 62 = Dark Trade 0 = Regular Trade |
| 1115 | OrderCategory | N | Returned on ExecType [150] = F (Trade) messages. Corresponds to MMT Flag 3.2 – Transaction Type: Negotiation Indicator 3 = Privately Negotiated Trade - = No Negotiated Trade |
| 1724 | OrderOriginator | N | This flag is used to indicate whether DEA activity (as defined under MiFID II) is involved in the order. Returned on ExecType [150] = 0 (New), F (Trade) messages. As per the order. Will only be provided if provided on the inbound order message or if the default is DEA. |
| 2668 | NoTrdRegPublications | N | Indicates the number of instances of the repeating group TrdRegPublicationGrp to follow. Defaults to zero. |
| Repeating Group TrdRegPublicationGrp must occur the number of times specified in NoTrdRegPublications (2668) | | | |
| 2669 | TrdRegPublicationType | N | 0 = PreTradeTransparencyWaiver |

| Tag | Field | Reqd | Comments |
|-------|------------------------------|------|--|
| 2670 | TrdRegPublReason | N | <p>2 = No preceding order in book as transaction price is subject to conditions other than current market price (Corresponds to MMT Flag 3.2 – Transaction Type = PRIC).</p> <p>3 = No public price for preceding order as public reference price was used for matching orders (Corresponds to MMT Flag 3.5 – Benchmark or Reference Price Indicator = RFPT flag)</p> <p>9 = No public price and/or size quoted as transaction is "large in scale"</p> |
| 20301 | TradingAtClosingPrice | N | <p>Indicates if the order should participate in trading at closing price.</p> <p>“Y” = Participate in Trading at Closing Price</p> <p>“N” = Do not participate in Trading at Closing Price (default)</p> |
| 20107 | OriginalOrderReferenceNumber | N | <p>Original Order Reference Number for a restated GoodTilCancel order.</p> <p>Note: Updated when order is replaced.</p> |
| 20108 | OriginalOrderEntryDate | N | <p>YYYYMMDD - Original Order Entry Date for a restated GoodTilCancel order.</p> <p>Note: Updated when order is replaced.</p> |
| 20109 | OrderCondition | N | <p>Conditions that in some way change the behavior of the order.</p> <p>“W” = MarketMaker Order</p> <p>“U” = MarketMaker Order Refresh</p> <p>“P” = Top-of-Book</p> <p>“Q” = Dark-lit Sweep</p> |
| 582 | CustOrderCapacity | N | <p>“5” = Order sent in by Retail customer, defined as order originating from clients who are not considered to be “professional clients” according to MiFID or equivalent definition.</p> |
| | StandardTrailer | Y | |

3.1.2 Rejected Cancel

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

| Tag | Field | Reqd | Comments |
|-----|-----------------------|------|--|
| | StandardHeader | Y | MsgType = 9 |
| 11 | ClOrdID | Y | As per cancel or cancel/replace request The UserRefNum field is used in OUCH |
| 37 | OrderID | Y | If the cancel reject is for an unknown order this field will contain the text "NONE". Otherwise, it will contain the OrderID of the last order in the chain of orders. If [37] was not sent on the cancel request, this field will be populated with "UNKN". |
| 39 | OrdStatus | Y | Will contain the most recent status of the order or 8 = Rejected. |
| 41 | OrigClOrdID | Y | As per cancel or cancel/replace request The OldUserRefNum field is used in OUCH |
| 58 | Text | N | Where possible, message to explain reason for rejection. |
| 60 | TransactTime | N | Transaction Time. |
| 102 | CxlRejReason | N | Code to identify reason for cancel rejection. Valid values: 0 = Too late to cancel (Order already cancelled) 1 = Unknown order (Original order unacknowledged) 2 = Broker Option - used for the following reasons: Market Closed; Unknown MPID; Duplicate ClOrdId; Routing Not Allowed; Change of order type from limit to market; Qty greater than account limit or less than 0; Replace qty to less than exhausted; Invalid price; Order should be tick adj but tick adj rejects are active; Replace changes nothing; New order not allowed per market conditions; Poss dup order when poss dup is not allowed 3 = Order already in Pending Cancel or Pending Replace status |
| 109 | ClientID | Y | The MPID of the intended recipient of this message. |

| Tag | Field | Reqd | Comments |
|-----|------------------------|------|---|
| 434 | CxlRejResponseTo | Y | Identifies the type of request that a Cancel Reject is in response to. Valid values: 1 = Order Cancel Request 2 = Order Cancel/Replace Request |
| | StandardTrailer | Y | |

Appendix A - Max Lengths

| Tag | Max Length |
|-------|------------|
| 11 | 14 |
| 37 | 32 |
| 41 | 14 |
| 55 | 6 |
| 440 | 12 |
| 439 | 4 |
| 571 | 20 |
| 582 | 1 |
| 851 | 1 |
| 880 | 10 |
| 5149 | 10 |
| 5815 | 3 |
| 6204 | 20 |
| 6205 | 20 |
| 6209 | 15 |
| 9292 | 4 |
| 9861 | 10 |
| 20029 | 15 |
| 20101 | 1 |
| 20102 | 1 |
| 20103 | 2 |
| 20104 | 1 |
| 20105 | 1 |

| | |
|-------|----|
| 20106 | 1 |
| 20107 | 32 |
| 20108 | 8 |
| 20109 | 1 |
| 20301 | 1 |

Appendix B - Data Types

| Tag | Field | Data Type |
|-------|-------------------|-----------|
| 851 | LastLiquidityInd | Char |
| 5815 | SubMktID | String |
| 6209 | CIRefID | String |
| 9140 | DisplayInst | Char |
| 9355 | CrossTradeFlag | Char |
| 9861 | BrSeqNbr | String |
| 9882 | LiquidityFlag | Char |
| 20001 | Target%Volume | float |
| 20002 | Aggression | int |
| 20003 | Minimum%Volume | float |
| 20004 | BlockFilter | Qty |
| 20005 | IWouldQty | Qty |
| 20006 | IWouldPrice | Price |
| 20007 | IWouldType | int |
| 20008 | OnOpenQty | float |
| 20009 | OnCloseQty | float |
| 20012 | CleanUpType | int |
| 20013 | CleanUpQty | Qty |
| 20014 | DynamicBenchmark | int |
| 20015 | DynamicPrice | Price |
| 20016 | InMoneyStyle | int |
| 20017 | InMoneyAggression | int |
| 20018 | OutMoneyStyle | int |

| | | |
|-------|------------------------------|----------|
| 20019 | OutMoneyAggression | int |
| 20020 | SpreadLimit | float |
| 20021 | RefPriceBidLeg | Price |
| 20022 | RefPriceAskLeg | Price |
| 20023 | LagBidLeg | Qty |
| 20024 | LagAskLeg | Qty |
| 20025 | LeadBidLeg | Qty |
| 20026 | LeadAskLeg | Qty |
| 20027 | StopLossBidLeg | Price |
| 20028 | StopLossAskLeg | Price |
| 20029 | BasketID | String |
| 20030 | MinChildOrderValue | Int |
| 20031 | Ratio | float |
| 20101 | STPLevel | Char |
| 20102 | STPAction | Char |
| 20103 | STPTraderGroup | String |
| 20104 | LastExecFlagINT | Char |
| 20105 | LastExecFlagTOP | Char |
| 20106 | LastExecFlagSTP | Char |
| 20107 | OriginalOrderReferenceNumber | Int |
| 20108 | OriginalOrderEntryDate | YYYYMMDD |
| 20109 | OrderCondition | Char |
| 20301 | TradingAtClosingPrice | Char |