



Nairobi Securities Exchange (NSE)

Trading Gateway

FIX 5.0 SP2 Specification

Version	1.25
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1 DOCUMENT CONTROL

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1.2 Document Information

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1.3 Revision History

Date	Ver	Sections	Description
07 Mar 2016	1.25	7.6.1.1.1, 7.6.1.1.2	Added new messages for Party Risk Limits Definition Request and Party Risk Limits Definition Request Acknowledgement
16 Nov 2015	1.24	7.5.5	Included the field AllocAccount(79) to Execution Report message
04 Nov 2015	1.23	7.8.17.7.1, 7.11.27.10. 2, 3.9.2	Updated the Security Definition Request and the Instrument Component Block of the Security Definition
		7.5.5, 7.7.87.6.8	Added LastOptPx (32022) and Volatility (1188) to Execution Report
		3.1.4	Added a scenario where Exec Type Restated is stamped
		5.3	Updated to reflect current system behaviour when the client initiates the logout.
		3.1.4, 3.10, 3.18, 3.19, 5.1	Updated the sections for clarity.
05 Oct 2015	1.22	3.2.5.3, 3.2.5.4, 7.7.37.6.3, 7.7.67.6.6, 7.7.87.6.8, 7.7.107.6.1 0	Updated as per CR 360 part 2
		7.5.1 7.5.4	Included the field AllocAccount(79) to New Order - Single and Order Cancel/Replace message
18 Mar 2015	1.21	7.5.1, 7.5.4 7.5.5	Included new fields related to block trade order book
11 Feb 2015	1.20	3.2. 5.2	Added behaviour for when the system rejects the RFQ rejection sent by the market maker.
		3.2. 5.2	Response Time (1914) field removed and Expire Time (126) added to the message.
		5.2.1	Added a section describing the behavior in sequence number management by the server and client if the client sends in a malformed message

		7.5.4	Party block of Order Cancel Replace Request made mandatory. Updated description of Party Role (452).
		7.7.17.6.1	RFQ ID (30006), Bid ID (30007) and Offer ID (30008) fields added.
		7.7.37.6.3	Quote ReqID (131) field replaced with the RFQ ID (30006) field. The enumeration 'Contra Trader (37)' removed from TargetParty Role (1464).
		7.6.4	RFQ ID (30006) field added. NumOfCompetitors(1913) field removed. Response Time (1914) field removed from the message. Expire Time (126) added to the message.
		7.6.5	RFQ ID (30006), ExpireTime (126), BidID (30007), OfferID (30008) fields added.
		7.6.7	RFQID (30006) field introduced. QuoteReqID (131) made optional.
		7.7.87.6.8	RFQ ID (30006) added. New party role Contra Firm (17) allowed in the field Party Role (452). Description of OrderID (37) updated
		7.7.97.6.9	RFQ ID (30006), BidID (30007), OfferID (30008) field are added. Party Block (PartyID (448), PartyID Source (447) and Party Role (452) added. QuoteReqID (131) removed.
		7.6.9	Corrected description for QuoteMsgID (1166) tag.
		7.7.10,7.6.1	RFQID(30006), BidID(30007) and OfferID(30008) fields added. New enumerations 'Contra Side (12)', Done (13) added to QuoteResponseType (694) field. Enumerations 'Contra Firm (17)', 'Contra Trader(37)', 'Market Maker(66)' removed from Party Role (452).
		10.3.1	Added more information with regards to Session Reject Reason '1'.
19 Nov 2014	1.19	3.1.5.5	Added a description for 'Secondary Trade ID'.
		7.5.5	Added the new field 'Secondary Trade ID' after the field 'TrdMatchID'.
		7.7.87.6.8	Added the new field 'Secondary Trade ID' after the field 'TrdMatchID'.
03 Sep 2014	1.18	5.1	Removed the reference which mentioned the outbound sequence number of Logout message transmitted by the server in reply to a Logon request will always be 1.
		3.2.3.3	Updated with current system behavior.
		7.5.1, 7.5.4	Updated the field stop price with an additional validation.

	10.1.1, 10.1.2	Removed the reject code 18 from list as it's an invalid reject code.
	1.4	Updated the hyperlinks of the references.

		7.7.87.6.8	AvgPx(6) will be stamped for RFQ negotiations as well.
09 Jul 2014	1.17	7.5.1	Updated the 'New Order Single' message
		7.5.2	Updated the 'Order Cancel Request' message
		7.5.3	Updated the 'Order Mass Cancel Request' message
		7.5.4	Updated the 'Order Cancel/Replace Request' message
		7.5.5	Updated the 'Execution Report' message
		7.5.6	Updated the 'Order Cancel Reject' message
		7.5.7	Updated the 'Order Mass Cancel Report' message
22 May 2014	1.16	7.7.67.6.6	Removing the Order Book (30001) field from the component block NoQuoteEntries in Mass Quote Acknowledgement message.
		7.7.77.6.7	Removing the Order Book (30001) field from the component block NoRelatedSym in Quote Request Reject message.
09 Nov 2013	1.15	3.1.1, 3.1.4 7.5.1, 7.5.4	Changes required due to the introduction of the Market If Touched order type.
		3.1.1, 7.5.1 7.5.5, 7.5.4	Changes required due to the introduction of the Trailing Stop Orders
		3.1.4	ExecRestatementReason(378) is added the "100 Order Replenishment" reason.
		3.2.3.2	Quote Cancel is always acknowledged via a Quote Status Report
		3.11, 3.12 7.5.5, 7.7.87.6.8	Introduction of the percentage of par price quotation convention
		3.1.2	In third party order management only the managing user will be receiving ERs in case the managing user and the owner of the order are from two different firms.
		3.2.5	Updated the functionality of the private RFQs.
		3.10	Market Maker (66), Contra Trader (37) and Contra Firm (17) added to the Party Identifications.
		7.5.47.5.4	ExecInst(18) added to the Order Cancel Replace Request.
		7.5.57.5.5	OrigClOrdID(41) description is updated
		7.7.17.6.1	PrivateQuote (1171) and MinQty (110) fields added to the Quote (S) message.
			Contra Trader (37) and Market Maker (66) added to the PartyRole (452) of the Quote (S) message.
			Negotiated Trades (11) added to the OrderBook (30001) field of the Quote (S) message.
		7.7.37.6.3	QuoteReqID (131) field added to Quote Cancel (Z) message.
			Negotiated Trades (11) added to the OrderBook (30001) field of the Quote Cancel (Z) message.
			Contra Trader (37) added to the TargetPartyRole (1464) of the Quote Cancel (Z) message.
		7.7.47.6.4	PrivateQuote (1171) field added to Quote Request(R) Message.

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			Negotiated Trades (11) added to the Order Book field of the Quote Request(R) Message. ResponseTime (1914) field added to Quote Request(R) Message. NumofCompetitors (1913) field added to Quote Request(R) Message.
		7.7.57.6.5	Negotiated Trades (11) added to the OrderBook (30001) field of the Quote Status Report (AI) message.
		7.7.77.6.7	ApplID (1180) and QuoteRequestRejectReason (658) fields of the Quote Request Reject (AG) message are made unrequired fields. Negotiated Trades (11) added to the OrderBook (30001) field of the Quote Request Reject (AG) message.
		7.7.87.6.8	CoverPrice (1917) and Text (58) fields added to the Execution Report (8) message. Negotiated Trades (11) added to the OrderBook (30001) field of the Execution Report (8) message.
		7.7.97.6.9	Quote Ack (CW) message introduced.
		7.7.107.6.10	Quote Response (AJ) message introduced.
		7.11.17.10.1	Market Makers (66), Contra Trader (37) and Contra Firm (17) added to the Trading Mnemonic Section.
		3.173.17 , 7.9.17.8.1	Updated the changes introduced when enabling Publish Announcements via Service Bureaus
		10.3.1	SessionRejectReason(122) = SendingTime accuracy problem (10) introduced.
		11.1.1	Order Handling model updated with the functionality IOC/FOK orders are expired if no executions are received at order entry.
		11.2.4.2	The process flow diagram of the private RFQs added.
15 Jul 2013	1.14	3.1.2.2, 3.2.3.3	Typo corrections; OrderBook(30001) field included for "All Orders" and "All Quotes" rows
		3.1.5.1	Typo corrections; OrderBook(30001) field included for "All Orders" and "All Quotes" rows
		3.13	Description on corporate actions added.
		7.5.5	Description of Text(58) field updated
		7.7.57.6.5	Description of Text(58) field and QuoteCancelType(298) fields updated
		3.17 7.1.5 7.97.8	Publication of announcements introduced.
		5.1	Typo corrected.
		7.5.1 7.5.5	New enums related to corporate actions added to ExecInst (18) field.
		11.1.1	Order Status diagrams updated with Suspended status.
		3.1.4, 7.5.5	New enumeration GT Corporate Action (0) introduced to ExecRestatementReason(378) of Execution Report.
06 Jun 13	1.13	3.1.4	Modified the description of ExecType 9
		3.2.3.2	Modified the description of Canceling a single quote

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		5.1	Modified the description of Establishing a FIX connection
		All	Typo corrected
02 Apr 13	1.12	3.4	Modified description to include more details on the block trade order book configuration
		7.5.1	Modified description of field ClOrdLinkID(583)
		7.5.4	Modified description of field ClOrdLinkID(583)
08 Mar 13	1.11	3.1.2.23.1. 2.2 3.2.3.3	Mass cancellation may be limited to an order book. Description updated.
		Error! Reference source not found.3.1. 3, 3.1.4	Conditions for stamping OrdStatus (39) and ExecType (150) with Suspended(9) altered
		3.1.4	ExecType (150) will be D when an order/quote is automatically re-priced.
		3.1.5.1	TransactTime(60) not stamped if duplicate Client Order ID validation fails. ApplID (1180) will not be included in Order Cancel Reject in certain cases.
		3.1.5.3 7.5.5 7.7.87.6.8	Add MDEntryID(278) field.
		3.2.1.1 3.8	CumQty (14) will be 0 in Execution Reports for leg trades
		3.8.1	ClOrdID(11) is not included on Execution Reports for implied orders.
		3.12	AccruedInterestAmt(159) will be negative when settlement occurs on or after the ex-coupon date. Fixed income information will be republished at market start
		4.5	Mass Cancel on Disconnect feature can be enabled or disabled during a live client session.
		5.1	Outbound sequence number always will be 1 when replying to a Logon request.
		5.1 10.3.2	Handling client initiated application messages when the session is not in sync introduced.
		Error! Reference source not found.5.4. 1.1	Termination of the connection when MsgSeqNum (34) is not 1 when ResetSeqNumFlag (141) set to Y introduced.
		6.3.2	Typo corrected.

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		7.5.7	<p>ClOrdID (11) will be same as MassActionReportID (1369) when mass cancelled due to a partition failover.</p> <p>OrderBook (30001) is not sent when mass cancelled due to a partition failover.</p> <p>MassCancelRequestType (530) and MassCancelResponse(531) fields of Order Mass Cancel Report will have 'z' as a possible value indicating 'Partition Suspended' and 'Cancelled All Orders for Partition' respectively.</p>
07 Sep 12	1.10	3.73.7	Support for the Default Auction order book introduced.
		3.8.13.8.1	Section added on Implied Orders.
		6.16.1	Behaviour when a client requests for messages not in cache
		7.5.17.5.1 , 7.5.27.5.2 , 7.5.57.5.5 , 7.7.17.6.1 , 7.7.37.6.3 , 07.6.4	OrderBook (30001) field updated.
		7.5.37.5.3 , 7.5.67.5.6 , 7.5.77.5.7 , 7.7.57.6.5 , 7.7.67.6.6 , 7.7.77.6.7	Added OrderBook (30001) field
		7.5.47.5.4	OrderBook(30001) field updated. Updated description on DisplayQty(1138)
		7.7.87.6.8	OrderBook(30001) field updated. Included ParPx(32021) & ConvertedYield(2005) fields
		10.3.110.3.1 , 10.3.210.3.2	Footnotes added for Reject Reasons
		3.63.6 , 7.5.17.5.1 , 7.5.57.5.5	Support for the All or None (AON) order book introduced.
		10.3.110.3.4	Updated session reject codes.

Date	Ver	Sections	Description
20 Dec 11	1.08	3.2.1, 7.7.17.6.1 , 7.7.87.6.8	Support for Named Quotes introduced.
		3.123.10	Description on Fixed Income instruments updated.
		4.5, 7.5.1, 7.5.5, 7.7.17.6.1 , 7.7.87.6.8	Ability to override cancel on disconnect/logout feature at individual order/quote level introduced.
		7.5.5	New enum added for ExecRestatementReason(378).
		7.5.5, 7.7.87.6.8	Description of AccruedInterestAmt(159) changed.
		7.5.5, 7.7.87.6.8	AvgPx (6) added to Execution Report.
		7.5.5	ParPx(32021) and ConvertedYield(30005) added to Execution Report.
		3.5.	Introduced the section on Early Settlement
		7.5.1,7.5.2, 7.5.4,7.5.5, 7.6.1,7.6.3, 7.6.4,7.6.6, 7.6.7,7.6.8	Included the enum value: Early Settlement (6) to the field Order Book (30001).
		5.15.1	Test Request based mechanism of identifying if the client is in sync with the server's outgoing Sequence Number
06 Aug 11	1.07	3.1.2.3, 7.5.5	Order Cancellation by Market Operations
		7.2, 7.5.1, 7.5.2, 7.5.4	Text (58) in New Order, Cancel Request and Cancel/Replace Request replaced by Order Source (30004).
31 May 11	1.06	7.2, 7.5.5	ClientText (30001) in Execution Report replaced by Order Source (30004).
		3.2.4.1 3.1.1, 7.5 3.1.1, 7.5 6 7.2, 7.5	QuoteID (117) of a Mass Quote not validated for uniqueness. Support for closing price cross introduced. Support for market to limit orders introduced. Reference to the ability for a client to manually request that all messages be retransmitted removed. Clients are able to specify free form text when submitting an order, cancel request or amend request.
18 Apr 11	1.04	3.2.3.1	Clients are unable update or cancel just one side of a quote.
08 Mar 11	1.03	3.1, 3.1.3, 3.1.43.1.4 , 7.5	Support for ATC and GFA orders introduced.
		7.5, 7.6	ApplID (1180) included in Execution Report, Order Cancel Reject, Quote Status Report and Quote Request Reject.

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Date	Ver	Sections	Description
24 Jan 11	1.02	_____, 7 3.1.5.53.1. 5.4	TrdMatchID (880) included in Execution Report.
		3.2.4.3	Duplicate QuoteSetIDs in a Mass Quote will be ignored.
		5.1	Client disconnected if message sent before logon response.
		7.2, 7.7.27.6.2	NoQuoteQualifiers block removed from Mass Quote message.
		7.2, 7.8.27.7.2	SecurityResponseID and SecurityRejectReason removed from Security Definition.
		7.5.6, 7.7.57.6.5 , 7.8.27.7.2	TransactTime (60) included in Order Cancel Reject, Quote Status Report and Security Definition messages
		7.8.17.7.1	NoPartyIDs block, LegRatioQty (623) and LegSide (624) removed from Security Definition Request.
		10.1.1	Unsupported order characteristic removed as OrdRejReason.
19 Oct 10	1.01	3.2, 7.7.57.6.5	Quote Status Report sent when a quote expires.
		3.2.3.1	If an update to an existing quote contains only one side the other side will be cancelled.
		3.113.9 , 7	Support for PriceType (423) field removed.
		5.3	Connection terminated if buffered messages exceed limit.
		7	Support for multiple security identification schemes removed.
		7, 10.3.2	Unsupported message types are rejected by the server.
		7.7.87.6.8	ExecRestatementReason (378) is an optional field in Execution Reports sent for quotes.
5 Jul 10	1.00	3.103.8 , 7.5, 7.6	Account (1) field used to specify investor account. Support for AccountType (581) introduced.
		7.5, 7.6	Support for odd lot orders introduced.
		3.4, 7.5	Support for block trades introduced.

1.4 References

[FIXT 1.1 Specification](#)
[FIX 5.0 \(Service Pack 2\) Specification](#)

1.5 Definitions, Acronyms and Abbreviations

Client	A participant or service bureau connected to the trading gateway.
FIX	Version 5.0 (Service Pack 2) of the Financial Information Exchange Protocol.

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- FIX Connection** A bi-directional stream of ordered messages between the client and server within a particular login. A FIX connection ends when the client logs out or if the TCP/IP connection is terminated.
- FIX Session** A bi-directional stream of ordered messages between the client and server within a continuous sequence number series. A single FIX session can exist across multiple FIX connections.
- FIXT** Version 1.1 of the Financial Information Exchange Session Protocol.

Interest	Executable interest which may be an order or quote.
Order Book	Each instrument is traded across multiple separate and distinct order books (e.g. regular, odd lot, etc.). Each order, quote and RFQ submitted by a client should include an indication of the instrument and order book to which it relates.
Quote Entry	A quote submitted under a particular trading mnemonic for a particular order book of an instrument.
RFQ	Request for Quote.
Server	The trading gateway of <i>NSE</i> .
Trading Mnemonic	Each order, quote, RFQ and tailor-made instrument request must be submitted under a particular trading mnemonic. Trading privileges are assigned to participants at the level of their trading mnemonics.

2 OVERVIEW

NSE¹ offers a trading gateway which will allow participants and service bureaus to send and manage their trading interest. The interface enables clients to perform the activities outlined below.

Order Handling

- (i) Submit an order (ii)
Cancel an order
- (iii) Mass cancel orders
- (iv) Cancel/replace an order

Quote Handling

- (v) Submit and update a quote
- (vi) Submit a mass quote
- (vii) Cancel a quote
- (viii) Mass cancel quotes (ix) Submit a RFQ

Tailor-Made Instruments

- (x) Create a tailor-made instrument

The interface is a point-to-point service based on the technology and industry standards TCP/IP, FIXT and FIX. The session and application event models and messages are based on versions 1.1 and 5.0 (Service Pack 2) of the FIXT and FIX protocols respectively. Please refer to Section 7.2 for the instances where the server varies from the FIX protocol.

The encryption of messages between the client and server is not supported.

2.1 Hours of Operation

The server will operate from <Start Time> to <End Time> each trading day.

2.2 Support

<Insert support information for clients (e.g. contact details and hours of operation for the support desk)>

3 SERVICE DESCRIPTION

3.1 Order Handling

3.1.1 Order Types

Clients may submit the order types outlined below via the [New Order – Single](#) message.

Order Type	Description	Relevant FIX Tags
Market	An order that will execute at the best available prices until it is fully filled. Any remainder will be cancelled.	OrderType (40) = 1

¹ Insert name of market here and press Ctrl A and then F9 to update all other reference to the market.

Limit	An order that will execute at or better than the specified price. The remainder, if any, is added to the order book or expired in terms of its TimeInForce (59).	OrderType (40) = 2 Price (44)
Stop	A market order that remains inactive until the market reaches a specified stop price.	OrderType (40) = 3 StopPx (99)
Stop Limit	A limit order that remains inactive until the market reaches a specified stop price.	OrderType (40) = 4 StopPx (99) Price (44)
Market If Touched	A market order that remains inactive until the market reaches a specified stop price.	OrderType (40) = J StopPx (99)
Trailing Stop	A market order that remains inactive until the market reaches a specified, trailing stop price.	OrderType (40) = 3 PegOffsetValue(211)
Trailing Stop Limit	A limit order that remains inactive until the market reaches a specified trailing stop price.	OrderType (40) = 4 PegOffsetValue(211) Price (44)
Market to Limit	An order that will execute at the best available prices until it is filled. Any remainder will be converted to a limit order at the last traded price	OrderType (40) = K
Iceberg	An order that contains a disclosed quantity which will be the maximum quantity displayed in the order book. Once the displayed quantity is reduced to zero, it will be replenished by the lower of the disclosed quantity and the remainder.	DisplayQty (1138) OrderQty (38)
Reserve	An order that contains no displayed quantity and is not displayed in the order book.	DisplayQty (1138) = 0 or DisplayMethod (1084) = 4
Minimum Fill	An order that contains a minimum quantity. If this quantity cannot be filled on receipt the order will immediately expire. If the minimum quantity is filled, the remainder, if any, is added to the order book as a regular order or expired in terms of its TimeInForce (59).	MinQty (110)
Named	An order for which the identity of the submitting member is disclosed in the market data feed.	PreTradeAnonymity (1091) = N
Day	An order that will expire at the end of the day.	TimeInForce (59) = 0
Immediate or Cancel (IOC)	An order that will be executed on receipt and the remainder, if any, immediately cancelled.	TimeInForce (59) = 3
Fill or Kill (FOK)	An order that will be fully executed on receipt or immediately cancelled.	TimeInForce (59) = 4
At the Open (OPG)	An order that may only be executed in the opening auction.	TimeInForce (59) = 2

At the Close (ATC)	An order that may only be executed in the closing auction.	TimeInForce (59) = 7
Good for Auction (GFA)	An order that may only be executed in an auction (e.g. opening, closing, re-opening, etc.).	TimeInForce (59) = 9
Good Till Time (GTT)	An order that will expire at a specified time during the current day.	TimeInForce (59) = 6 ExpireTime (126)
Good Till Date (GTD)	An order that will expire at the end of a specified day.	TimeInForce (59) = 6 ExpireDate (432)
Good Till Cancelled (GTC)	An order that will never expire.	TimeInForce (59) = 1
Closing Price Cross (CPX)	An order that may only be executed during the closing price cross.	TradingSessionID (336) = a

3.1.1.1 Order Capacity

The server recognises two order capacities; agency and principal. Clients are responsible for indicating the capacity an order is submitted under. If a [New Order – Single](#) message does not contain the OrderCapacity (528) field, the server will treat the order as an agency order.

The order book is sorted in terms of price, capacity and time. Within a particular price point all agency orders will, irrespective of the time they were received, have a higher priority than principal orders. *<Delete this paragraph if the order book is not sorted by price, capacity and time>*

3.1.2 Order Management²

3.1.2.1 Cancellation

The remainder of a live order may be cancelled via the [Order Cancel Request](#) message. The server will respond with an [Execution Report](#) or [Order Cancel Reject](#) to confirm or reject the cancellation request respectively.

The client should identify the order being cancelled by either its OrigClOrdID (41) or OrderID (37). If an [Order Cancel Request](#) contains values for both OrigClOrdID (41) and OrderID (37), the server will only process the OrderID (37). If an order submitted under a different SenderCompID (49) is being cancelled, the [Order Cancel Request](#) should include its OrderID (37).

3.1.2.2 Mass Cancellation

A client may mass cancel live orders via the [Order Mass Cancel Request](#) message. The server will respond with an [Order Mass Cancel Report](#) to indicate, via the MassCancel Response (531) field, whether the request is successful or not. If the mass cancel request is processed by multiple partitions, an [Order Mass Cancel Report](#) will be transmitted for each partition.

If the mass cancel request is accepted by a partition, it will then transmit [Execution Reports](#) for each order that is cancelled and [Order Cancel Rejects](#) for each order that could not be cancelled. The ClOrdID (11) of all such messages will be the ClOrdID (11) of the [Order Mass Cancel Request](#).

² A privileged participant can manage orders on behalf of another user. If they are in two different firms, only the managing user will be receiving Execution Reports (8) generated due to order management actions performed by that user, on behalf of the actual owner.

If the mass cancel request is rejected by a partition, the reason will be specified in the MassCancelRejectReason(532) field of the [Order Mass Cancel Report](#).

Clients may use the [Order Mass Cancel Request](#) to mass cancel all orders or only those for a particular instrument, underlying or segment

A mass cancel request may apply to all the orders of the trading firm or only to those of a particular trading mnemonic. If the target party is not specified, the server will apply the request to the orders submitted by the client connected CompID. The mass cancellation will be limited to a single order book. In the absence of OrderBook (30001) field, the mass cancellation will apply only to the Normal order book

The FIX fields relevant to each of the supported mass cancel combinations are outlined below.

Target Party			
Submitting Mnemonic	Other Mnemonic	Trading Firm	
All Orders	MassCancelRequestType (530) = 7 OrderBook (30001)	MassCancelRequestType (530) = 7 TargetPartyRole (1464) = 53 TargetPartyID (1462) OrderBook (30001)	MassCancelRequestType (530) = 7 TargetPartyRole (1464) = 1 TargetPartyID (1462) OrderBook (30001)
All Orders for an Instrument	MassCancelRequestType (530) = 1 Symbol (55)	MassCancelRequestType (530) = 1 Symbol (55) TargetPartyRole (1464) = 53 TargetPartyID (1462)	MassCancelRequestType (530) = 1 Symbol (55) TargetPartyRole (1464) = 1 TargetPartyID (1462)
All Orders for an Underlying	MassCancelRequestType (530) = 2 UnderlyingSymbol (311)	MassCancelRequestType (530) = 2 UnderlyingSymbol (311) TargetPartyRole (1464) = 53 TargetPartyID (1462)	MassCancelRequestType (530) = 2 UnderlyingSymbol (311) TargetPartyRole (1464) = 1 TargetPartyID (1462)
All Orders for a Segment	MassCancelRequestType (530) = 9 MarketSegmentID (1300)	MassCancelRequestType (530) = 9 MarketSegmentID (1300) TargetPartyRole (1464) = 53 TargetPartyID (1462)	MassCancelRequestType (530) = 9 MarketSegmentID (1300) TargetPartyRole (1464) = 1 TargetPartyID (1462)

Quotes may not be cancelled via an [Order Mass Cancel Request](#).

3.1.2.3 Cancellation by Market Operations

An unsolicited [Execution Report](#) will be sent to the client if an order is cancelled by market operations. The ExecRestatmenetReason (378) of such a message will be Market (Exchange) option (8). It will not include an OrigClOrdID (41).

3.1.2.4 Amending an Order

The following attributes of a live order may be amended via the [Order Cancel/Replace Request](#) message:

- (i) Order quantity
- (ii) Disclosed quantity
- (iii) Price
- (iv) Stop price
- (v) Time qualifier
- (vi) Expiration time (GTT orders)

-
- (vii) Expiration date (GTD orders)
 - (viii) Contra Firm (Block Trade orders)
 - (ix) Client Order Link ID (Block Trade orders)
 - (x) Order Source

The server will respond with an [Execution Report](#) or [Order Cancel Reject](#) to confirm or reject the amendment request respectively.

The client should identify the order being amended by either its OrigClOrdID (41) or OrderID (37). If an [Order Cancel/Replace Request](#) contains values for both OrigClOrdID (41) and OrderID (37), the server will only process the OrderID (37).

If an order submitted under a different SenderCompID (49) is being amended, the [Order Cancel/Replace Request](#) should include its OrderID (37). If the amendment is successful, the order will be treated as one submitted under the SenderCompID (49) that sent the [Order Cancel/Replace Request](#).

An order will lose time priority if its order or disclosed quantity is increased or if its price is amended. A reduction in order or disclosed quantity of an order or the amendment of its time qualifier, expiration time or expiration date will not cause it to lose time priority.

Clients may not amend orders that are fully filled.

3.1.3 Order Status

As specified in the FIX protocol, the OrdStatus (39) field is used to convey the current state of an order. If an order simultaneously exists in more than one order state, the value with highest precedence is reported as the OrdStatus (39). The relevant order statuses are given below from the highest to lowest precedence.

Value	Meaning
E	Pending Replace
2	Filled
9	Suspended
4	Cancelled
C	Expired
1	Partially Filled
0	New
8	Rejected
A	Pending New

Please refer to Section 11.1.1 for process flow diagrams on the various statuses that may apply to an order.

3.1.4 Execution Reports

The [Execution Report](#) message is used to communicate many different events to clients. The events are differentiated by the value in the ExecType (150) field as outlined below.

Exec Type	Usage	Ord Status

0	Order Accepted Indicates that a new order has been accepted. This message will also be sent unsolicited if an order was submitted by market operations on behalf of the client.	0
A	Order Pending Indicates that a new order has been forwarded to the risk management system for validation.	A
8	Order Rejected Indicates that an order has been rejected. The reason for the rejection is specified in the field OrdRejReason (103).	8

Exec Type	Usage	Ord Status
F	Order Executed Indicates that an order has been partially or fully filled. The execution details (e.g. price and quantity) are specified.	1, 2
C	Order Expired This will be sent in the following scenarios: <ul style="list-style-type: none">• To indicate that an order has expired in terms of its time qualifier or due to an execution limit.• When orders are expired upon entering the order book when the number of orders in the order book is at the maximum allowed level. The reason for the expiration is specified in the Text (58) field.• When the remaining orders (except GTC and GTD) are expired at market close.• When orders are expired based on the auto cancellation on disconnect/log out feature.	C
4	Order Cancelled Indicates that an order cancel request has been accepted and successfully processed. This message will also be sent unsolicited if the order was cancelled by market operations. In such a scenario the Execution Report will include an ExecRestatementReason (378) of Market Option (8). It will not include an OrigClOrdID (41).	4
5	Order Cancel/Replaced Indicates that an order cancel/replace request has been accepted and successfully processed.	0, 1
L	Triggered Indicates that a parked ATC, GFA, CPX, stop, or MIT order has been activated and is available for execution.	0, 1, A
9	Suspended Indicates that a GFA order that was active and was available for execution has been parked and is no longer available for execution.	0, 1, A

D	Order Cancel/Replace by Market Operations or has been impacted by an Automatic event. Indicates that an order has been amended by market operations or an automatic event in the system. The unsolicited message will include an ExecRestatementReason (378) of Market Option (8) when amended by market operations. It will include an ExecRestatementReason (378) of GT Renewal/Restatement (1) or OrderRe-Priced(3) when automatically re-priced by the system. When an order has been amended due to a corporate action the ExecRestatementReason (387) will be GT Corporate Action (0). For an iceberg order replenishment at the end of Auction, would include an ExecRestatementReason (378) of Order Replenishment (100) It will not include an OrigClOrdID (41). An iceberg order which gets replenished after executing the visible quantity and the hidden quantity in one aggression (as opposed to executing hidden quantity after replenishment) will also have this exec type stamped with ExecRestatementReason (378) of Order Replenishment (100)	0, 1
E	Order Cancel/Replace Pending Indicates that an order cancel/replace request has been forwarded to the risk management system for validation.	E
H	Trade Cancel Indicates that an execution has been cancelled. An ExecRefID (19) to identify the execution being cancelled will be included.	0, 1, E
G	Trade Correct Indicates that an execution has been corrected. The message will include an ExecRefID (19) to identify the execution being corrected and the updated execution details (e.g. price and quantity).	1, 2, E

3.1.5 Order and Execution Identifiers

3.1.5.1 Client Order IDs

The server validates each ClOrdID (11) for uniqueness. Clients should comply with the FIX protocol and ensure unique ClOrdIDs across all messages (e.g. New Order – Single, Order Cancel Request, etc.) sent under a particular SenderCompID (49). As the server supports GTD and GTC orders, clients should ensure that their ClOrdIDs are unique across trading days (e.g. embed the date within the ClOrdID). The [Execution Report](#) transmitted to reject an order due to a duplicate ClOrdID (11) will not include the fields TransactTime (60), ExecID (17), OrderID (37), LeavesQty (151) and CumQty (14). It may also, under certain circumstance, not include ApplID (1180) and OrderCapacity (528). The [Order Cancel Reject](#) transmitted to reject an [Order Cancel Request](#) due to a duplicate ClOrdID (11) will not include the field ApplID (1180). *<Delete if ClOrdIDs are not validated>*

The server does not validate each ClOrdID (11) for uniqueness. Clients must comply with the FIX protocol and ensure unique ClOrdIDs across all messages (e.g. New Order – Single, Order Cancel Request, etc.) sent under a particular SenderCompID (49). As the server supports GTD and GTC orders, clients must ensure that their ClOrdIDs are unique across trading days (e.g. embed the date within the ClOrdID). *<Delete if ClOrdIDs are validated>*

Clients must, in terms of the FIX protocol, specify the ClOrdID (11) when submitting an [Order Cancel Request](#), [Order Mass Cancel Request](#) or [Order Cancel/Replace Request](#).

The ClOrdID(11) is always expected to be present in the [Execution Report](#) unless the order happens to be an Implied order that has an Owner ID assigned. *<Delete if the market does not use Implied order functionality>*

3.1.5.2 Order IDs

The server uses the OrderID (37) field of the [Execution Report](#) to affix the order identification numbers of the trading engine. Order IDs are unique across trading days.

This is an 11 character base 62 string with an 'O' prefix. After removal of the prefix, when converted to an 8 byte binary format, it will match the corresponding MITCH Order ID. This will be identical to the SecondaryOrderID when converted to a 16 character hexadecimal format. Thus, FIX OrderID (37), FIX SecondaryOrderID (198), and MITCH OrderID are all representations of the same identifier [in base 62 (plus 'O' prefix), hexadecimal, and binary formats respectively].

In terms of the FIX protocol, unlike ClOrdID (11) which requires a chaining through cancel/replace requests and cancel requests, the OrderID (37) of an order will remain constant throughout its life.

Clients have the option of specifying the OrderID (37) when submitting an [Order Cancel Request](#) or [Order Cancel/Replace Request](#).

3.1.5.3 Public Order Ids

The server uses MDEntryID (278) field of the Execution Report to affix the Public Order ID of an order, which is an order identification number that will be stamped for each order that has an OrderID (37). MDEntryID (278) will be the same as the OrderID (37) for all orders that are not iceberg orders. For iceberg orders, the MDEntryID (278) will renew with each replenishment to the visible order size. Participants should identify their orders on the market data feeds using MDEntryID (278) as that is the identification number that will be disseminated for order book updates on market data feeds.

3.1.5.4 Execution IDs

The server uses the ExecID (17) field to affix a unique identifier for each [Execution Report](#). ExecIDs are unique across trading days.

3.1.5.5 Trade IDs

The server uses the TrdMatchID (880) field to affix a unique identifier for each trade. This identifier is referenced in the Trade Capture Reports published by the post trade system and the trade messages of the FAST market data feed. Trade IDs are unique across trading days. An [Execution Report](#) published to notify a client of a trade cancellation or correction includes the TradeID of the trade.

The field Secondary Trade ID (1040) is a numeric code generated by the system for each trade. This identifier is referenced in the Trade Capture Reports published by the post trade system and the trade messages of the FAST market data feed. The Secondary Trade IDs will be unique only for the current trading day. An [Execution Report](#) published to notify a client of a trade cancellation or correction includes the Secondary Trade ID of the original trade.

3.2 Quote Handling

The server supports the submission of tradable quotes. A particular trading mnemonic may only have one active quote per instrument. If the server receives a quote for a trading mnemonic that already has an active quote for the instrument, it will treat it as an update to the quote. All quotes are considered as principal interest.

Quotes must be two-sided (i.e. bid and offer). If one side of a quote fails the validations (e.g. price tick, spread, etc.) of the server, both sides will be rejected. However, if a quote is accepted it is treated as two separate and independent limit orders. One side of a quote will not be automatically cancelled if the other side is fully filled.

Quotes may be submitted individually via the [Quote](#) message or as a block via the [Mass Quote](#) message. The trading engine treats all quotes, whether they are submitted via a [Quote](#) or [Mass Quote](#) message, in an identical manner. All active quotes will expire at the end of the trading day.

Please refer to section 11.2 for process flow diagrams relating to quote handling.

3.2.1 Single Quotes

The server will explicitly acknowledge or reject each [Quote](#) message via the [Quote Status Report](#) message. The QuoteStatus (297) field will indicate whether the quote is Accepted (0) or Rejected (5). If a quote is rejected, the reason will be specified in the QuoteRejectReason (300) field. The client will not be notified if a quote is queued.

By default, a quote will expire at the end of the day. Clients may include a ValidUntilTime (62) when submitting a quote if they require it to expire at a particular time during the current day. If the quote may only participate in the opening auction it should include the QuoteQualifier (695) At the Open (O).

A named quote may be submitted by including a PreTradeAnonymity (1091) of Named (N). The identity of the member that submitted such a quote is disclosed in the market data feed.

3.2.1.1 Execution

The [Execution Report](#) message is used to notify the client if a quote is executed. The CIOrldID (11) of the message will contain the QuoteMsgID (1166) of the last [Quote](#) message that updated the executed quote. The side, quantity and price fields (i.e. Side (54), LastQty (32), LastPx (31), AvgPx(6), LeavesQty (151), OrderQty (38), Price (44), etc.) will contain information for the executed side. As the server does not keep track of cumulative quantity for quotes, the value in the field CumQty (14) will be "0". The CumQty(14) will be zero in the Execution Reports that correspond to leg instrument trades when a quote for a multi-legged instrument executes.

3.2.1.2 Expiration

A [Quote Status Report](#) will be sent to the client if a quote is expired. The QuoteStatus (297) of such a message will be Expired (7) and the QuoteMsgID (1166) will be the identifier of the last [Quote](#) message used to update the quote entry.

3.2.1.3 Cancellation by Market Operations

An unsolicited [Quote Status Report](#) will be sent to the client if a quote is cancelled by market operations. The QuoteStatus (297) of such a message will be Removed from Market (6) and the QuoteMsgID (1166) will be the identifier of the last [Quote](#) message used to update the quote entry.

3.2.2 Mass Quotes

The server supports the submission of mass quotes to the regular order book. While this feature is intended to support market making in derivative instruments, clients may use the [Mass Quote](#) message to submit quote entries for any instrument. Mass quotes for nonregular order books (e.g. odd lot) are not supported.

Each [Mass Quote](#) may contain up to <25> individual quote entries. It is recommended that clients include just one quote for a particular instrument in a [Mass Quote](#) message. However, if a [Mass Quote](#) inadvertently contains multiple entries for the same instrument, each will be forwarded to the trading engine.

A client may specify a DefBidSize (293) and DefOfferSize (294) in the [Mass Quote](#) which will apply to all quote entries in the message.

3.2.2.1 Quote Sets and Entries

The [Mass Quote](#) message includes two levels of repeating groups; quote sets and quote entries. A [Mass Quote](#) may contain one or more quote sets each of which may contain multiple quote entries.

A quote set is the first level of repeating fields and should be used to group related quote entries (e.g. for an underlying). A client may specify a default QuoteSetValidUntilTime (367) for the entries in the set. A quote set may not span [Mass Quote](#) messages. Within each quote set, the value in the TotQuoteEntries (304) field is expected to be the same as that in the NoQuoteEntries (295) field.

Each quote set should include a repeating group of entries with each representing a quote for a specific instrument.

3.2.2.2 Acknowledgement

The client may specify the level of acknowledgement required for a [Mass Quote](#) via the QuoteResponseLevel (301) field.

- (i) If the value No Acknowledgement (0) is specified, the client will not receive a response to a [Mass Quote](#) message.
- (ii) If the value Acknowledge Rejected Quotes (1) is specified, the client will be notified, via a single [Mass Quote Acknowledgement](#), if one or more quote entries are rejected. The message will include each of the rejected entries. The reason an entry is rejected will be specified in QuoteEntryRejectReason (368) field.
- (iii) If the value Acknowledge Each Quote (2) is specified, the server will acknowledge or reject each quote entry via a single [Mass Quote Acknowledgement](#). In such cases, the client should process the QuoteEntryStatus (1167) field to determine whether a quote entry has been accepted or rejected. The reason an entry is rejected will be specified in the QuoteEntryRejectReason (368) field.

Notwithstanding the specified level of acknowledgement, the client will be notified via a [Mass Quote Acknowledgement](#) if the [Mass Quote](#) message is itself rejected (e.g. market is closed, client is not authorised for mass quoting, etc.). In such a case, the [Mass Quote Acknowledgement](#) will not contain any quote sets or entries. The QuoteStatus (297) of such a message will be Rejected (5) and the reason for the rejection will be specified in the QuoteRejectReason (300) field.

The client will not be notified if a quote entry is queued.

3.2.2.3 Execution

The [Execution Report](#) message is used to notify the client if a quote entry is executed. The CIOrdID (11) of the message will contain the QuotID (117) of the last [Mass Quote](#) message that updated the executed quote entry. The side, quantity and price fields (i.e. Side (54), LastQty (32), LastPx (31), LeavesQty (151), OrderQty (38), Price (44), etc.) will contain information for the executed side. As the server does not keep track of cumulative quantity for quotes, the value in the field CumQty (14) will be "0".

3.2.2.4 Expiration

A [Quote Status Report](#) will be sent to the client if a quote entry is expired. The QuoteStatus (297) of such a message will be Expired (7) and the QuoteMsgID (1166) will be the QuotID (117) of the last [Mass Quote](#) message used to update the quote entry.

3.2.2.5 Cancellation by Market Operations

An unsolicited [Quote Status Report](#) will be sent to the client if a quote entry is cancelled by market operations. The QuoteStatus (297) of such a message will be Removed from Market

(6) and the QuoteMsgID (1166) will be the QuotID (117) of the last [Mass Quote](#) message used to update the quote entry.

3.2.3 **Quote Management**

3.2.3.1 **Updating a Quote**

A client may update a live quote entry by sending another quote, via the [Quote](#) or [Mass Quote](#) message, for the same instrument. The client must provide updated prices and quantities for both the bid and offer sides and the applicable time qualifier, if any, when updating the quote entry.

The bid or offer side of a quote will lose time priority in the order book if its quantity is increased or its price is updated. A reduction in quantity or an update to the time qualifier will not cause a side to lose time priority.

3.2.3.2 **Cancelling a Single Quote**

A client may use the [Quote Cancel](#) message to cancel a single quote entry for a specified instrument and order book combination. The message should include a QuoteCancelType (298) of Cancel for Instruments (1) and a NoQuoteEntries (295) of "1". The instrument and order book to which the cancellation applies should also be specified. If the NoTargetPartyIDs (1461) block is included in the message, the TargetPartyRole (1464) should be Trading Mnemonic (53).

The server will explicitly acknowledge or reject a [Quote Cancel](#) message via the [Quote Status Report](#) message. The QuoteStatus (297) field will indicate whether the quote is Cancelled (17) or whether the quote cancel request is Rejected (5). If a cancel request is rejected, the reason will be specified in the QuoteRejectReason (300) field.

3.2.3.3 **Mass Cancelling Quotes**

The client may also cancel multiple quote entries via a single [Quote Cancel](#) message. The server will respond with a [Mass Quote Acknowledgement](#) to indicate, via the QuoteStatus (297) field, whether the request is successful or not. If the mass cancel request is processed by multiple partitions, a [Mass Quote Acknowledgement](#) will be transmitted for each partition.

The [Mass Quote Acknowledgement](#) will not contain any quote sets or quote entries if the cancellation of all quotes handled by a partition is either confirmed or rejected. If the entire request is rejected by the partition, the reason will be specified in the QuoteRejectReason (300) field.

If the cancellations of some quotes are confirmed while those of others are rejected by a partition, a [Mass Quote Acknowledgement](#) with QuoteStatus(297) of Accepted is sent out to indicate the request was successful. Thereafter, [Quote Status Reports](#) are sent out for each quote that could not be cancelled with QuoteStatus(297) of Rejected. For each [Quote Status Report](#) the reason the cancellation was rejected will be specified in the field QuoteEntryRejectReason (368).

Clients may use the [Quote Cancel](#) message to mass cancel all quotes, those for a specified list of instruments or those for a specified list of underlyings. If a [Quote Cancel](#) is used to cancel quotes for multiple instruments or underlyings, it may not contain more than <25> entries in the NoQuoteEntries repeating block. If a [Quote Cancel](#) includes a QuoteCancel Type (298) of Cancel All Quotes (4), the contents if any, of the NoQuoteEntries repeating block will be ignored.

A request to cancel quotes for a single instrument may apply to all order books for the instrument or only to a particular order book. If an order book is not specified in such a request, the server will apply the request to all order books for the specified instrument.

Requests to mass cancel all quotes, those for one or more underlyings or those for multiple instruments will always apply to all order books.

A mass quote cancel request may apply to all the quotes of the trading firm or only to those of a particular trading mnemonic. If the target party is not specified, the server will apply the request to the quotes submitted by the connected ComplID. The mass cancellation will be limited to an order book. In the absence of OrderBook (30001) field, the mass cancellation will apply only to the Normal order book.

The FIX fields relevant to each of the supported mass cancel combinations are outlined below.

	Target Party		
	Submitting Mnemonic	Other Mnemonic	Trading Firm
All Quotes	QuoteCancelType (298) = 4 OrderBook (30001)	QuoteCancelType (298) = 4 TargetPartyRole (1464) = 53 TargetPartyID (1462) OrderBook (30001)	QuoteCancelType (298) = 4 TargetPartyRole (1464) = 1 TargetPartyID (1462) OrderBook (30001)
All Quotes for Specified Instruments	QuoteCancelType (298) = 1 NoQuoteEntries (295) = n ➔ Symbol (55)	QuoteCancelType (298) = 1 TargetPartyRole (1464) = 53 TargetPartyID (1462) NoQuoteEntries (295) = n ➔ Symbol (55)	QuoteCancelType (298) = 1 TargetPartyRole (1464) = 1 TargetPartyID (1462) NoQuoteEntries (295) = n ➔ Symbol (55)
All Quotes for Specified Underlyings	Not supported	QuoteCancelType (298) = 3 TargetPartyRole (1464) = 53 TargetPartyID (1462) NoQuoteEntries (295) = n ➔ NoUnderlyings (711) = 1 ➔ ➔ UnderlyingSymbol (311)	QuoteCancelType (298) = 3 TargetPartyRole (1464) = 1 TargetPartyID (1462) NoQuoteEntries (295) = n ➔ NoUnderlyings (711) = 1 ➔ ➔ UnderlyingSymbol (311)

Orders may not be cancelled via a [Quote Cancel](#).

3.2.4 Quote Identifiers

3.2.4.1 Message Identifiers

The server validates each QuoteMsgID (1166) for uniqueness. Clients should comply with the FIX protocol and ensure unique QuoteMsgIDs across all [Quote](#) and [Quote Cancel](#) messages sent under a particular SenderComplID (49). The message transmitted to reject a quote due to a duplicate QuoteMsgID (1166) may, under certain circumstance, not include ApplID (1180). The server does not validate the QuotID (117) of a Mass Quote for uniqueness.
<Delete if QuoteMsgIDs and QuotIDs are not validated>

The server does not validate each QuoteMsgID (1166) and QuotID (117) for uniqueness. Clients must comply with the FIX protocol and ensure unique QuoteMsgIDs and QuotIDs across all [Quote](#), [Mass Quote](#) and [Quote Cancel](#) messages sent under a particular SenderComplID (49). *<Delete if QuoteMsgIDs and QuotIDs are validated>*

3.2.4.2 Entity Identifiers

A particular trading mnemonic may only have one active quote per instrument. The QuotID (117) of a [Quote](#) and the QuoteEntryID (299) of a [Mass Quote](#) should always be "1".

3.2.4.3 Set Identifiers

Clients are required to comply with the FIX protocol and ensure that the QuoteSetIDs in a [Mass Quote](#) are sequential numbers starting at one (1). If a QuoteSetID (302) is used more than once in a [Mass Quote](#) message, the server will process only the first such quote set. All subsequent sets with the same QuoteSetID (302) will be ignored.

If the server sends a [Mass Quote Acknowledgement](#) in response to a [Quote Cancel](#) message, the QuoteSetIDs of the message will be sequential numbers starting at one (1).

3.2.5 Request for Quotes

3.2.5.1 Public Requests for Quotes

Authorised clients may request quotes from market participants publicly for a particular instrument and order book combination via the [Quote Request](#) message. A public RFQ may be for one or both sides. An RFQ for one side may also include an order quantity.

An accepted [Quote Request](#) will be acknowledged by the server via a [Quote Status Report](#) message with a QuoteStatus (297) of Accepted (0). If a RFQ is rejected, the server will transmit a [Quote Request Reject](#) message with the appropriate QuoteRequestRejectReason (658). Public RFQs will be broadcasted via FAST market data feed. Please refer to section [011.2.4](#) for a process flow diagram for RFQs.

Quotes submitted in response to a RFQ may include the identifier of the RFQ in the field QuoteReqID (131).

3.2.5.2 Private Requests for Quotes

Authorised clients can privately negotiate RFQs with a selected set of market makers for a specific instrument. A requester can submit a private RFQ via the [Quote Request](#) message. The [Quote Request](#) can be for both the sides or for a single side.

An accepted RFQ will be acknowledged by the server via a [Quote Status Report](#) message with QuoteStatus (297) of Accepted (0). If an RFQ is rejected, the server will transmit a [Quote Request Reject](#) message with the appropriate QuoteRequestRejectReason (658). Private RFQs will be communicated only to the intended set of market makers via a [Quote Request](#) message. The market maker then can accept the [Quote Request](#) by submitting a [Quote](#) or reject the RFQ via a [Quote Request Reject](#) message. The market maker should specify the QuoteReqID (131), Symbol (55) etc. corresponds to the RFQ that he is responding to. Once a [Quote](#) is submitted by the market maker to accept the RFQ, the server responds the acceptance/rejection of the [Quote](#) via a [Quote Ack](#) message. A QuoteAckStatus (1865) of Accepted (1) or Rejected (2) in the [Quote Ack](#) message will be used to indicate the acceptance/rejection of the [Quote](#). If the [Quote](#) is rejected by the system, QuoteRejectReason (300) and the Text (58) in the [Quote Ack](#) message will specify the reject code and the reason for the rejection respectively. An accepted [Quote](#) will be directed to the requester to inform that the market maker has responded to the RFQ submitted by him. The [Quote](#) message directed to the requester will include the firm and the trading mnemonic of the market maker in the party identification block.

The market maker can reject the RFQ by submitting a [Quote Request Reject](#) message corresponding to the private RFQ which in turn will be transmitted to the requester to inform the rejection. QuoteRequestRejectReason (658) and the Text (58) in the [Quote Request Reject](#) message will specify the reject code and the reason for the rejection. The server responds to the market maker with a [Quote Response](#) to inform the acceptance of the [Quote Request Reject](#) message by the system. The [Quote Response](#) message communicated to the market maker, accepting the [Quote Request Reject](#) message will include a QuoteResponseType (694) of End Trade (7). If the [Quote Request Reject](#) is rejected by the system, a [Quote Ack](#) message will be sent with QuoteAckStatus (1865) of Rejected (2) to indicate the rejection of the [Quote Request Reject](#).

Once the requester receives the quotes in response to the submitted RFQ, he can send a [Quote Response](#) to accept the [Quote](#). The [Quote Response](#) message sent by the requester should include the identification of the [Quote](#) which he is responding to, in the QuoteReqID (131) and a QuoteResponseType (694) of Hit/Lift (1). If this [Quote Response](#) is accepted by the system, the [Quote](#) will be executed and [Execution Reports](#) will be transmitted to both the market maker and the requester. When a quote is executed at the best price the OrdType (40) field of the Execution Report will be stamped as Market (1). The market makers who have open quotes in response to the executed RFQ will be notified of the execution using a [Quote](#)

Response message. The communicated **Quote Response** in this scenario would include a QuoteRespType (694) of Cover (4), Tied (9), Tied Cover (10) or Done Away (5) to indicate the quality of the quote. If the **Quote Response** submitted by the requester to accept a **Quote**, is rejected by the system, the requester will receive a **Quote Status Report** indicating the rejection. The **Quote Status Report** communicating the rejection will include a QuoteStatus (297) of Rejected (0), as well as QuoteRejectReason (300) and Text (58) specifying the reason for the rejection. In this scenario the market maker will not receive any notification.

A private RFQ can be valid indefinitely or valid until a time specified by the requester. The requester can mention the valid until time via the ExpireTime(126), so that the RFQ will be expired at the specified time. When a private RFQ is expired it is communicated to the market makers who received the RFQ and who have not yet submitted a response. If none of the market makers have responded, the expiration is also communicated to the requester. Expiration of a RFQ will be communicated via a **Quote Response** message to both the requester and the market maker with a QuoteRespType (694) of Timed Out (8).

Any message submitted in response to a RFQ should include the identifier of the RFQ in the field QuoteReqID (131). The OrderBook (30001) of Negotiated Trades (11) is included in all the messages used to communicate the private RFQ negotiation process. Please refer the section 11.2.4.2 for the process flow diagram for private RFQs.

3.2.5.3 Cancelling a Request for Quote

The RFQ requester can cancel an existing quote request by sending a **Quote Response** message with QuoteRespType (694) of End Trade (7). All market makers who initially received the RFQ will be notified about cancellation of the request via **Quote Response** message. The **Quote Response** message received by the market makers will have the QuoteRespType (697) stamped with Withdrawn (14). The requester will also be notified about cancellation of the request via **Quote Response** message. The **Quote Response** message received by the requester will have the QuoteRespType (697) stamped with Cancelled (11).

All open quotes submitted in response to a quote request will be expired and the notifications will be sent to the market makers who had open quotes in the system as well as to the requester. The **Quote Response** message sent to communicate the expiry of the quotes will have the QuoteRespType (697) stamped with Expired (3).

3.2.5.4 Mass Cancel quotes submitted for an RFQ

The client may also mass cancel quotes submitted for an RFQ via a single **Quote Cancel** message with the OrderBook (30001) field stated with Negotiated Trades (11). All other functionality is same as described at section 3.2.3.3 with the exception where the requester of the RFQ receives **Quote Response** messages with QuoteRespType (697) stamped with Cancelled (11) for each quote that is cancelled by the system.

3.3 Odd Lot Order Book³

NSE supports the trading of odd lot orders. A separate odd lot order book is available for a selected set of instruments for this purpose. This order book supports the submission of orders, single quotes and RFQs. Mass quotes may not be submitted to the odd lot order book.

Messages (e.g. **New Order – Single**, **Quote**, etc.) intended for the odd lot order book should include an OrderBook (30001) of Odd Lot (3).

³ Delete this section if a separate odd lot order book is not required.
Delete this section if the block trade order book is not required.

3.4 Block Trades⁴

Participants may submit privately negotiated trades for registration. A separate block trade order book is available for a selected set of instruments for this purpose. This order book supports the submission of orders only and can be configured to handle two configurations as described in detail below.

Negotiated non-disclosed orders: When the Block Trade order book is configured for non-disclosure, the order book is not published to the market. Under this configuration, each party should submit an order to the block trade order book specifying the instrument, price, quantity, contra firm for the deal along with the deal identifier, which may be any text string no longer than ten characters, agreed with the counterparty.

Negotiated disclosed orders: When the Block Trade order book is configured for disclosure, the order book is published to the market, such that other traders with interest can execute against these orders. Thus, under this configuration an interested party can submit an order to the block trade order book specifying the instrument, price and quantity.

A client should report a block trade via the [New Order – Single](#) message with an OrderBook (30001) of Block Trade (4). The contra firm and deal identifier should be specified via a PartyRole (452) of Contra Firm (17) and the CIOrdLinkID (583) field respectively, and are required based on the order book configuration.

Each order for the block trade order book is subject to a series of validations (e.g. price within permitted range, greater than a minimum size, valid counterparty, etc.). [NSE](#) will retain an accepted order for the remainder of the trading day and match it against a contra side order from the identified contra firm for the identical instrument, price, quantity and deal identifier. A matched block trade will be disseminated on the market data feed immediately.

3.5 Early Settlement Order Book⁴

[NSE](#) supports the trading of orders on an early settlement cycle. A separate early settlement order book is available for a selected set of instruments for this purpose. This order book supports the submission of orders and quotes.

Messages (e.g. [New Order – Single](#), [Quote](#), etc.) intended for the early settlement order book should include an OrderBook (30001) of Early Settlement (6).

3.6 All or None (AON) Order Book⁵

[NSE](#) supports the concept of an All-or-None (AON) auction . A separate AON order book is available for a selected set of instruments for this purpose. This order book supports the submission of orders only.

Each order for the AON order book is subject to a series of validations (e.g. greater than a minimum size, greater than minimum value, etc.). [NSE](#) will accept an initial AON order and retain it in the order book for the remainder of the auction duration and match it against an appropriate single contra side order at the same or better price at the end of the auction duration.

A client should report an AON order via the. [New Order – Single](#) message with an OrderBook (30001) of All or None (5).

⁴ Delete this section if the early Settlement order book is not required.

⁵ Delete this section if the AON order book is not required

3.7 Default Auction Order Book⁶

NSE supports the concept of a default auction . A separate Default Auction order book is available for a selected set of instruments for this purpose. This order book supports the submission of orders only.

The auction is initiated by the **NSE** submitting orders on behalf of the defaulted party. Once initiation orders are submitted, participants will submit contra orders in order to match the initial order(s).

Each order for the default auction order book is subject to a series of validations (e.g. price within permitted range, valid order type, etc.).

A client should submit an order to the default auction order book via the **New Order – Single** message with an OrderBook (30001) of Default Auction (7).

3.8 Strategies

The server supports the trading of derivatives strategies (e.g. spreads, straddles, etc.). Please refer to Section 9 for details of the supported strategy types.

Each strategy is implemented as a separate multi-legged instrument. The execution of an order for a multi-legged instrument will result in the generation of individual trades for the associated leg instruments (e.g. the execution of a trade for the Jan11-Feb11 spread will result in the generation of trades for the Jan11 future and the Feb11 future). Details of the individual leg trades will be forwarded to the clients that submitted the orders for the multilegged instrument and to clearing.

The Price (44) and StopPx (99) of orders and the BidPx (132) and OfferPx (133) of quotes submitted for multi-legged instruments may contain negative prices.

If a client's order or quote for a strategy receives an execution, it will receive an **Execution Report** message for the multi-legged instrument as well as separate **Execution Reports** for each of the associated leg instruments. The field MultiLegReportingType (442) should be used to determine whether a particular **Execution Report** relates to the multi-legged instrument or a leg instrument.

While the CIOrdID (11) of an **Execution Report** for a leg trade will be the same as the CIOrdID (11), QuoteMsgID (1166) or QuotID (117) of the order or quote for the multilegged instrument, the OrderID (37) will not. The SecondaryOrderID (198) for a leg trade will contain the OrderID (37) of the associated order or quote for the multi-legged instrument.

Execution Reports corresponding to the leg trades will have a CumQty (14) of zero (0) when a quote for a multi-legged instrument executes,

3.8.1 Implied Orders

<Remove this section if implied orders are not enabled for the market>

Implied orders that are generated for a particular client are communicated to the client via **Execution Reports**.⁷

Implied orders will always be created as Limit Orders with a TimeInForce(59) of Day(0). OrderQty(38) and Price(44) will be set to the size and the price of the implied order that was created. Size(54) will refer to the side the order was created for. There will be no MinQty(110) for implied orders.

Implied orders will also be anonymous and will always be fully visible.

⁶ Delete this section if the default auction order book is not required

⁷ Not all implied orders generated by an order entered by a client will be communicated back to the client. Implied orders where the ownership of the order is shared between another user(s) will not be communicated to any of the clients.

3.9 Tailor-Made Instruments

3.9.1 User-Defined Strategies

If a strategy required by a client is not supported by the existing list of multi-legged instruments, it may use the [Security Definition Request](#) message to request the creation of a user-defined strategy.

Clients are only permitted to create new instances of existing strategy types and may not create a new strategy type. If, for example, the market only supports spreads, a client may create a Mar11-Apr11 spread for a particular underlying if it did not already exist, but it may not create a Mar11-Apr11 straddle. Please refer to Section 9 for details of the supported strategy types.

The SecuritySubType (762) field of the [Security Definition Request](#) should be used to specify the strategy type (e.g. calendar spread, straddle, etc.). The number of legs repeating block should be used to identify the instrument for each leg of the strategy. The order in which the legs are specified in the [Security Definition Request](#) should be the same as that expected by the server.

The creation of the requested multi-legged instrument or the rejection of the request will be communicated via the [Security Definition](#) message. Once the creation of the user-defined strategy is confirmed, the client may submit an order, quote or RFQ for it.

3.9.2 User Defined Futures and Options

Similar to strategies, clients can create tailor made futures and options via FIX using [Security Definition Request](#) message. Clients can only able to create a Future/option instrument if there are already existing futures contracts with the same underlying instrument. If no contract is available, the system will reject the request. The acceptance or rejection of the request to create the future or option will be notified via the [Security Definition](#) message.

If a user submits a request for a strategy that does not match the derivative type, the request will be rejected. Please refer Section 9 for valid combinations of strategy vs derivative. The underlying instrument submitted in the [Security Definition Request](#) should be an equity instrument that already exists in the system. If it is not, it will be rejected with reason 'Unknown underlying'.

3.10 Party Identification

ID	Description	Relevant FIX Tags
Trading Mnemonic	Identifier of the trading mnemonic the message is submitted under. Trading privileges are assigned at the level of trading mnemonics. If a PartyRole (452) of Trading Mnemonic (53) is not included in a message, the server will treat the SenderCompID (49) as the trading mnemonic.	PartyRole (452) = 53 and PartyID (448) or SenderCompID (49)
Executing Firm	Identifier of the trading firm the interest is submitted under.	PartyRole (452) = 1 PartyID (448)
Clearing Mnemonic	Identifier of the mnemonic through which the trade should clear. The trading mnemonic's default clearing arrangement will apply if a clearing mnemonic is not provided.	PartyRole (452) = 83 PartyID (448)
Investor Account	Identifier of the investor account on whose behalf the interest is submitted.	Account (1) AccountType (581)

Contra Firm	Identifier of the counterparty trading firm in the case of a block trade or the firm on the contra-side of a privately negotiated RFQ.	PartyRole (452) = 17 PartyID (448)
Market Makers	Identifier of the market maker firms to whom a private RFQ is directed at.	PartyRole (452) = 66 PartyID (448)
Contra Trader	The trading mnemonic of the contra-side of a privately negotiated RFQ.	PartyRole (452) = 37 PartyID (448)

It is mandatory to specify a Trading Mnemonic (Party Role (452) = 53) in New Order – Single, Order Cancel and Order Cancel/Replace messages; it will be optional to specify a Executing Firm (Party Role (452) = 1) in these messages. Contra Firm (Party Role (452) = 17) should never be specified in New Order – Single, Order Cancel and Order Cancel/Replace messages.

<Insert/delete party identifiers as required by the market>

3.11 Quotation Conventions

The limit price, stop price, bid price and offer price specified with an order or quote will be interpreted by the server in terms of the applicable quotation convention for the instrument.

The values specified in these fields will be interpreted as the price per share for equity instruments. They will be interpreted as price per contract for futures, options and derivative strategies. For a fixed income instrument, they will, depend on the applicable convention, which would be interpreted as price per unit, percentage of par, discount rate or yield.

3.12 Fixed Income Securities

If the order or quote for a fixed income instrument⁸ is partially or fully filled, the accrued interest associated with the cumulative executed quantity will be included in the AccruedInterestAmt (159) field of the [Execution Report](#). The value in this field will generally be positive indicating the total accrued interest due from the buyer to the seller. However, in the case of trades executed on or after the ex-coupon date of an instrument, this value will be negative to indicate the accrued interest due from the seller to the buyer.

Based on the instrument configurations, for fixed income instruments quoted in discount rate or yield, the notification of an execution may include the limit price in the field ParPx (32032) and traded price in the field LastParPx (669). The [Execution Report](#) may include the implied yield of the order in the ConvertedYield (30005) and trade in the Yield (236) field in the case of instruments quoted on price per unit or on percentage of par.

Fixed Income information will be republished for carried forward orders at the start of the Market. The [Execution Report](#) will include an ExecType(150) of Restated(D) and ExecRestatementReason(378) of GTRenewal/Restatement(1) to indicate the automatic repricing.

3.13 Corporate Actions

When a carried forward order is adjusted, cancelled or expired as a result of a corporate action, the [Execution Report](#) transmitted at the start of the market will include an ExecType(150) of Restated(D) and ExecRestatementReason(378) of GT Corporate

⁸ Among Fixed Income instruments, only Regular Coupon Bonds and TIPS have accrued interest associated with them.¹⁰
Delete this section if a third party risk management system is not deployed.

Action(0) to indicate the order adjustment or expiration.

If a user wishes, an order can be exempted from price reductions due to corporate actions by including an ExecInst (18) of Do Not Reduce (F) when submitting the order. Similarly, an order can be exempted from size increments due to corporate actions by including an ExecInst (18) of Do Not Increase (E).

3.14 Risk Management System¹⁰

The trading engine is deployed with a third party real-time risk management system.

Certain orders, order cancel/replace requests and quote entries will be forwarded to the risk management system for validation. Such an order, quote entry or request will be in a pending state until the risk management system instructs the trading engine whether to accept or reject it.

If the client submits a cancel/replace request for an order in a pending state, the request will be queued until the order comes out of the pending state. If the client submits a cancel request for an order or quote in a pending state, it will be immediately cancelled.

3.15 Market Operations

3.15.1 Interest Submission and Management

Market operations are able to submit an order, order cancel request, order cancel/replace request, quote or quote cancel request on behalf of a client.

The client will be notified of the order, quote, cancel request or cancel/replace request submitted on its behalf if and when it is accepted. The client will not be notified if the action is rejected or queued.

This feature is intended to help a client manage an emergency situation and should not be relied upon as a normal business practice.

3.15.2 Trade Cancellations and Corrections

NSE may cancel or correct any trade. The server will transmit [Execution Reports](#) to the relevant clients to notify them of a trade cancellation or correction. The trade being cancelled or corrected will be identified via the ExecRefID (19) field. This field will contain the ExecID (17) of the [Execution Report](#) that was originally transmitted to notify the client of the trade.

If an execution received by an order is cancelled or corrected to reduce the executed quantity, the cancelled/reduced quantity will either be cancelled or reinstated in the order book. If the quantity is cancelled, the order will be restated to reduce its order quantity by the cancelled/reduced quantity. The client will receive two notifications in such a scenario: one for the trade cancel/correction and another for the restatement. The LeavesQty (151) and CumQty (14) of a live order will always add up to its OrderQty (38).

If an execution received by a quote is cancelled or corrected to reduce the executed quantity, the cancelled/reduced quantity will not be added back to the order book. The client will receive the two [Execution Reports](#) outlined above.

Market operations may also correct the price of an execution. A trade will not be corrected to increase the executed quantity.

3.16 Timestamps and Dates

The timestamps SendingTime (52), OrigSendingTime (122) and TransactTime (60) should be in UTC and in the YYYYMMDD-HH:MM:SS.sss format. ExpireTime (126), ValidUntilTime (62) and QuoteSetValidUntilTime (367) should be in UTC and in the YYYYMMDDHH:MM:SS format.

All dates (i.e. MaturityDate (541), LegMaturityDate (611) and ExpireDate (432)) should be in the YYYYMMDD format and specified in the local date for the server (i.e. not in UTC).

3.17 Announcements

The client will receive market announcements via the [News](#) message. It will contain the announcement headline, text, urgency, the time that it was generated and the list of instruments and underlying instruments if any, to which the announcement relates to.

The client will receive only the announcements which are directed to him via the Service Desk.
<Delete this sentence if announcements are both private and public>

The client will receive the announcements which are directed only to him as well as public Announcements which are directed to all market participants. A Service Bureau will also receive the private Announcements directed at the customers of the Service Bureau.*<Delete this sentence if announcements are private only>*

<Delete this section if publication of announcements is not supported>

3.18 Repeating Groups (Components/Component Block)

If a repeating group is used in a message, the NoXXX field (for example NoPartyIDs field in the trading party repeating group) should be specified first before the repeating group starts. This is applicable for both the messages generated by the client and the server.

3.19 Validations

If a required tag is missing in a message sent by a client, the server will send a session reject message for that.

If a conditionally required tag is missing in a message sent by a client, the server will send a business reject message for that.

Server will also send a session reject message if the same FIX tag has been repeated within the client request.

Also if an unsupported value is sent with a tag, an execution report or an order cancel reject is sent by the server.

Session level validations are done first, and Business Rejects and rejections via Execution Reports follow in that order.

4 CONNECTIVITY

4.1 ComplIDs

The ComplID of each client must be registered with **NSE** before FIX communications can begin. A single client may have multiple connections to the server (i.e. multiple FIX sessions, each with its own ComplID).

The ComplID of the server will be *<insert ComplID of market>*. The messages sent to the server should contain the ComplID assigned to the client in the field SenderComplID (49) and *<insert ComplID of market>* in the field TargetComplID (56). The messages sent from the server to the client will contain *<insert ComplID of market>* in the field SenderComplID (49) and the ComplID assigned to the client in the field TargetComplID (56).

4.1.1 Passwords⁹

Each new ComplID will be assigned a password on registration. Clients are strongly encouraged to change the password to one of their choosing via the **Logon** message. The acceptance of a login request indicates that the new password has been accepted. The new password will, if accepted, be effective for subsequent logins.

In terms of the password policy of **NSE**, the password of each ComplID should be changed at least every *<30>* days. If not, the password will expire and the client will be unable to login to the server. In such a case, the client should contact **NSE** to have its password reset. The SessionStatus (1409) of the server's **Logon** message will be Password Due to Expire (2) for the last *<5>* days of a password's validity period. *<Delete this paragraph if this aspect of the password policy is disabled>*

4.2 Production IP Addresses and Ports

The IP address of each client must be registered with **NSE** before FIX communications can begin. The IP addresses and ports of the production servers are given below.

Server	Primary		Backup	
	IP Address	Port	IP Address	Port
1	xxx.xxx.xx.xx	xxxxx	xxx.xxx.xx.xx	xxxxx
2	xxx.xxx.xx.xx	xxxxx	xxx.xxx.xx.xx	xxxxx
3	xxx.xxx.xx.xx	xxxxx	xxx.xxx.xx.xx	xxxxx
4	xxx.xxx.xx.xx	xxxxx	xxx.xxx.xx.xx	xxxxx

NSE will assign each registered client to one of the above primary IP addresses and ports and one of the above secondary IP addresses and ports.

4.3 Failover and Recovery

The system has been designed with fault tolerance and disaster recovery technology that ensures that trading should continue in the unlikely event of a process or site outage.

If the client is unexpectedly disconnected from the server, it should attempt to re-connect to primary site within a few seconds. The client should only attempt to connect to the secondary IP address and port if so requested by **NSE**.

⁹ Delete this section if password validation is disabled.

4.4 Message Rate Throttling

NSE has implemented a scheme for throttling message traffic where each Compid is only permitted to submit up to a specified number of messages per second. The maximum rate may be negotiated with NSE.

Every message that exceeds the maximum rate of a Compid will be rejected via a **Business Message Reject**. Such a message will include a BusinessRejectReason (380) of Other (0) and an indication that the rejection was due to throttling in the Text (58) field.

A Compid will be disconnected by the server if its message rate exceeds its maximum rate more than <5> times in any <30> second duration. In such a case, the server will transmit a **Logout** message and immediately terminate the TCP/IP connection. <*Delete if this feature is disabled*>

4.5 Mass Cancellation On Disconnect

At the request of the participant, the server can be configured to automatically cancel all live orders and quotes submitted under a Compid whenever it disconnects and/or logs out from the server.

This feature does not guarantee that all outstanding orders will be successfully cancelled as executions that occur very near the time of disconnect may not be reported to the client. During such a situation, the client should contact market operations to verify that all orders have been cancelled and all **Execution Reports** have been received.

The configuration of the mass cancellation on disconnect feature may be updated during a FIX session.

This feature, if configured for a Compid, can be overridden for an individual order or quote by including an ExecInst (18) of Do Not Cancel on Disconnect/Logout (n).

5 FIX CONNECTIONS AND SESSIONS

5.1 Establishing a FIX Connection

FIX connections and sessions between the client and server are maintained as specified in the FIXT protocol.

Each client will use the assigned IP address and port to establish a TCP/IP session with the server. The client will initiate a FIX session at the start of each trading day by sending the **Logon** message. The client will identify itself using the SenderCompid (49) field.

The server will validate the Compid, password <*delete if password validation is disabled*> and IP address <*delete if IP validation is disabled*> of the client. Once the client is authenticated, the server will respond with a **Logon** message. The SessionStatus (1409) of this message will be Session Active (0).

The server will break the TCP/IP connection if messages are received before the exchange of **Logons**.

Immediately after the response to the **Logon** message, if the **Logon** was successful, the server will send a **Test Request** with a specific TestRequestID, to identify if the client is in sync with the server's outgoing Sequence Number prior to sending any (i.e. new or missed) Application Messages. If the client replies to the Test Request with a Heartbeat message with the same ID as in the Test Request, then that would imply that the client recognises the messages outgoing from the server and that the sequence numbers are in sync. The server would start sending any new or missed Application Messages to the client only after receiving this **Heartbeat** message. Any application messages submitted before responding to the **Test Request** will be rejected with a **Business Message Reject**. Such a message will include a

BusinessRejectReason (380) of Session not in sync (30) and an indication that the rejection was due client session not being in sync with the server in the Text (58) field. *<Delete this section if client session confirmation is disabled>*

The client must send additional messages to the server only after responding to the [Test Request](#). If the client sends any Application Messages (e.g. New Orders, Cancel Requests) before responding to the [Test Request](#) as mentioned above, those messages will be processed by the system but the client would not receive any responses to them as the server has not established that the client is in sync with the Server's outgoing sequence numbers. *<Delete this section if client session confirmation is disabled>*

Once a response to the [Logon](#) message has been received, a client can start sending additional messages to the server. System will start sending the client any new or missed Application Messages immediately after the [Logon Reply](#) is sent. *<Delete this section if client session confirmation is enabled>* If a logon attempt fails because of an invalid SenderCompID, TargetCompID, password or IP address *<delete if IP validation is disabled>*, the server will break the TCP/IP connection with the client without sending a [Logout](#) or [Reject](#). As the logon attempt failed, the server will not increment the next inbound message sequence number expected from the client.

If a logon attempt fails because of an expired password *<delete if password validation is disabled>*, a locked CompID or if logins are not currently permitted, the server will send a [Logout](#) message and then break the TCP/IP connection with the client. The server will increment the next inbound message sequence number expected from the client but will not increment its own outbound message sequence number.

If a logon attempt fails because of a session level failure (e.g. due to invalid EncryptMethod or DefaultApplVerID...etc) both inbound sequence number and the outbound sequence number will not be incremented. In this scenario the message sequence number 1 will be sent with the [Error! Reference source not found.](#)[Logout](#) message.

However if a session level failure occurs due to a message sent by a client which contains a sequence number that is less than what is expected and the PossDupFlag (43) not being set to "Y", then the server will send a [Logout](#) message and terminate the FIX connection. In this scenario the inbound sequence number will not be incremented but the outbound sequence number will be incremented.

If during a logon of a SenderCompID, the server receives a second connection attempt via the same TCP/IP connection while a valid FIX session is already underway for that same SenderCompID, the server will send a [Reject](#) message and then break the TCP/IP connection with the client. The server will increment the next inbound message sequence number expected from the client as well as its own outbound message sequence number.

5.2 Maintaining a FIX Session

5.2.1 Message Sequence Numbers

As outlined in the FIXT protocol, the client and server will each maintain a separate and independent set of incoming and outgoing message sequence numbers. Sequence numbers should be initialized to 1 (one) at the start of the FIX session and be incremented throughout the session.

Monitoring sequence numbers will enable parties to identify and react to missed messages and to gracefully synchronize applications when reconnecting during a FIX session.

If any message sent by the client contains a sequence number that is less than what is expected and the PossDupFlag (43) is not set to "Y", the server will send a [Logout](#) message and terminate the FIX connection. The [Logout](#) will contain the next expected sequence number in the Text (58) field.

If the server receives a message that cannot be processed (malformed message) it will not respond to that message and will not increment the sequence number maintained. In such a scenario, when the next readable message is received by the server it will detect a sequence gap between the client and server. The server will send a [Resend Request](#) to the client requesting for messages from the sequence number the server is maintaining. If the client does not correct the malformed message to a readable one, the above event model will be repeated until there is no sequence gap.

A FIX session will not continue to the next trading day. The server will initialize its sequence numbers at the start of each day. The client is expected to employ the same logic.

5.2.2 Heartbeats

The client and server will use the [Heartbeat](#) message to exercise the communication line during periods of inactivity and to verify that the interfaces at each end are available. The heartbeat interval will be the HeartBtInt (108) specified in the client's [Logon](#) message.

The server will send a [Heartbeat](#) anytime it has not transmitted a message for the heartbeat interval. The client is expected to employ the same logic.

If the server detects inactivity for a period longer than the heartbeat interval plus a reasonable transmission time, it will send a [Test Request](#) message to force a [Heartbeat](#) from the client. If a response to the [Test Request](#) is not received by a reasonable transmission time, the server will send a [Logout](#) and break the TCP/IP connection. The client is expected to employ similar logic if inactivity is detected on the part of the server.

5.2.3 Increasing Expected Sequence Number

The client or server may use the [Sequence Reset](#) message in Gap Fill mode if it wishes to increase the expected incoming sequence number of the other party.

The client or server may also use the [Sequence Reset](#) message in Sequence Reset mode if it wishes to increase the expected incoming sequence number of the other party. The MsgSeqNum (34) in the header of such a message will be ignored. The Sequence Reset mode should only be used to recover from an emergency situation. It should not be relied upon as a regular practice.

5.3 Terminating a FIX Connection

The client is expected to terminate each FIX connection at the end of each trading day before the server shuts down. The client will terminate a connection by sending the [Logout](#) message. The server will respond with a [Logout](#) to confirm the termination and then break the TCP/IP connection with the client. As recommended in the FIXT protocol, clients are advised to transmit a [Test Request](#), to force a [Heartbeat](#) from the server, before initiating the logout process.

All open TCP/IP connections will be terminated by the server when it shuts down (a [Logout](#) will not be sent). Under exceptional circumstances the server may initiate the termination of a connection during the trading day by sending the [Logout](#) message. The server will terminate the TCP/IP connection (a [Logout](#) will not be sent) if the number of messages that are buffered for a client exceeds <1,000>.

If, during the exchange of [Logout](#) messages, the client or sever detects a sequence gap, it should send a [Resend Request](#).

5.4 Re-Establishing a FIX Session

If a FIX connection is terminated during the trading day it may be re-established via an exchange of [Logon](#) messages. Once the FIX session is re-established, the message

sequence numbers will continue from the last message successfully transmitted prior to the termination.

5.4.1 Resetting Sequence Numbers: Starting a New FIX Session

5.4.1.1 Reset Initiated by the Client

If the client requires both parties to initialize (i.e. reset to 1) sequence numbers, it may use the ResetSeqNumFlag (141) field of the [Logon](#) message. The server will respond with a [Logon](#) with the ResetSeqNumFlag (141) field set to "Y" to confirm the initialization of sequence numbers. In such cases, if the MsgSeqNo (34) of the [Logon](#) message is not reset to 1, the server will break the TCP/IP connection after sending a [Logout](#). It will include a SessionStatus (1409) of Logout due to session level failure (101) and an indication of the rejection in the Text (58) field.

A client may also manually inform market operations that it would like the server to initialize its sequence numbers prior to the client's next login attempt.

These features are intended to help a client manage an emergency situation. Initializing sequence numbers on a re-login should not be relied upon as a regular practice.

5.4.1.2 Reset Initiated by the Server

The system has been designed with fault tolerance and disaster recovery technology that should ensure that the server retains its incoming and outgoing message sequence numbers for each client in the unlikely event of an outage.

However, clients are required to support a manual request by [NSE](#) to initialize sequence numbers prior to the next login attempt.

6 RECOVERY

6.1 Resend Requests

The client may use the [Resend Request](#) message to recover lost messages. As outlined in the FIXT protocol, this message may be used in one of three modes:

- (i) To request a single message. The BeginSeqNo (7) and EndSeqNo (16) should be the same.
- (ii) To request a specific range of messages. The BeginSeqNo (7) should be the first message of the range and the EndSeqNo (16) should be the last of the range.
- (iii) To request all messages after a particular message. The BeginSeqNo (7) should be the sequence number immediately after that of the last processed message and the EndSeqNo (16) should be zero (0).

The server caches the last <1,000> messages transmitted to each ComID. Clients are unable to use a [Resend Request](#) to recover messages not in the server's cache. If the client requests for a range of messages that have sequence numbers falling outside the cache size, a [Sequence Reset](#) message in Gap Fill mode will be sent for the missing messages and will send the available messages as per the request after that.

6.2 Possible Duplicates

The server handles possible duplicates according to the FIX protocol. The client and server will use the PossDupFlag (43) field to indicate that a message may have been previously transmitted with the same MsgSeqNum (34).

6.3 Possible Resends

6.3.1 Client-Initiated Messages

The server does not handle possible resends for client-initiated messages (e.g. New Order – Single, Quote, etc.) and ignores the value in the PossResend (97) field of such messages.

6.3.2 Server-Initiated Messages

The server may, in the circumstances outlined in Section 6.4, use the PossResend (97) field to indicate that an application message may have already been sent under a different MsgSeqNum (34). The client should validate the contents (e.g. ExecID) of such a message against those of messages already received during the current trading day to determine whether the new message should be ignored or processed.

6.4 Transmission of Missed Messages

The [Execution Report](#), [Order Cancel Reject](#), [Order Mass Cancel Report](#), [Quote Status Report](#), [Mass Quote Acknowledgement](#), [Quote Request Reject](#) and [Business Message Reject](#) messages generated during a period when a client is disconnected from the server will be sent to the client when it next reconnects. In the unlikely event the disconnection was due to an outage of the server, all such messages will include a PossResend (97) of "Y". Missed [Security Definition](#) messages will not be sent when the client reconnects. *<Delete if the feature to send missed messages is disabled>*

The application messages (e.g. [Execution Report](#), [Quote Status Report](#), etc.) generated during a period when a client is disconnected from the server will not be sent to the client when it next reconnects. *<Delete if the feature to send missed messages is enabled>*

7 MESSAGE FORMATS

This section provides details on the header and trailer, the seven administrative messages and seventeen application messages utilized by the server. Client-initiated messages not included in this section are rejected by the server via a [Reject](#) or [Business Message Reject](#).

7.1 Supported Message Types

7.1.1 Administrative Messages

All administrative messages may be initiated by either the client or the server.

Message	MsgType Usage	
Logon	A	Allows the client and server to establish a FIX session.
Logout	5	Allows the client and server to terminate a FIX session.
Heartbeat	0	Allows the client and server to exercise the communication line during periods of inactivity and verify that the interfaces at each end are available.
Test Request	1	Allows the client or server to request a response from the other party if inactivity is detected.
Resend Request	2	Allows for the recovery of messages lost during a malfunction of the communications layers.
Reject	3	Used to reject a message that does not comply with FIXT.

Sequence Reset	4	Allows the client or server to increase the expected incoming sequence number of the other party.
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7.1.2 Application Messages: Order Handling

7.1.2.1 Client-Initiated

Message	MsgType	Usage
New Order – Single	D	Allows the client to submit a new order.
Order Cancel Request	F	Allows the client to cancel a live order.
Order Mass Cancel Request	q	Allows the client to mass cancel: (i) All live orders. (ii) All live orders for a particular instrument. (iii) All live orders for a particular underlying. (iv) All live orders for a particular segment. The mass cancel may apply to the orders of a particular trading mnemonic or to all orders of the firm.
Order Cancel/Replace Request	G	Allows the client to cancel/replace a live order.

7.1.2.2 Server-Initiated

Message	MsgType	Usage
Execution Report	8	Indicates one of the following: (i) Order accepted. (ii) Order pending. (iii) Order rejected. (iv) Order executed. (v) Order expired. (vi) Order cancelled. (vii) Order cancelled/replaced. (viii) Order cancel/replace pending. (ix) Trade cancelled. (x) Trade corrected.
Order Cancel Reject	9	Indicates that an order cancel request or order cancel/replace request has been rejected.
Order Mass Cancel Report	r	Indicates one of the following: (i) Mass order cancel request accepted. (ii) Mass order cancel request rejected.

7.1.3 Application Messages: Quote Handling

7.1.3.1 Client-Initiated

Message	MsgType	Usage
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Quote	S	Allows the client to submit a quote for a single instrument.
Mass Quote	i	Allows the client to submit multiple quotes in a single message.
Quote Cancel	Z	Allows the client to cancel a quote for a particular instrument. It may also use this message to mass cancel all quotes or those for a specified list of instruments or underlyings.
Quote Request	R	Allows the client to submit a RFQ.

7.1.3.2 Server-Initiated

Message	MsgType	Usage
Quote Status Report	AI	Indicates one of the following: (i) Quote accepted. (ii) Quote rejected. (iii) Quote expired. (iv) Request to cancel a single quote accepted. (v) Request to cancel a single quote rejected. (vi) Quote cancelled by market operations. (vii) RFQ accepted.
Mass Quote Acknowledgement	b	Indicates one of the following: (i) Mass quote accepted. (ii) Mass quote rejected. (iii) Request to mass cancel quotes accepted. (iv) Request to mass cancel quotes rejected.
Quote Request Reject	AG	Indicates that a RFQ has been rejected.
Execution Report	8	Indicates one of the following: (i) Quote executed. (ii) Trade cancelled. (iii) Trade corrected.

7.1.4 Application Messages: Tailor-Made Instruments

7.1.4.1 Client-Initiated

Message	MsgType	Usage
Security Definition Request	c	Allows the client to create a tailor-made instrument.

7.1.4.2 Server-Initiated

Message	MsgType	Usage
Security Definition	d	Indicates one of the following: (i) Tailor-made instrument created. (ii) Tailor-made instrument creation request rejected.

7.1.5 Application Messages: Market Data

Message	MsgType	Usage
News	B	Disseminates market announcements.

<Delete this section is publication of announcements is disabled>

7.1.6 Application Messages: Other

7.1.6.1 Server-Initiated

Message	MsgType	Usage
Business Message Reject	j	Indicates that an application message could not be processed.

7.2 Variations from the FIX Protocol

The server conforms to the FIX protocol except as follows:

- (i) Many of the order and quotes messages include the custom fields OrderBook (30001) and OrderSource (30004). The data types of these fields are Int (i.e. integer) and String respectively.
- (ii) The [Execution Report](#) message includes the custom field OrderSource (30004). The data type of this field is String.
- (iii) The AccountType (581) field of the [New Order – Single](#) and [Execution Report](#) messages includes the custom value Custodian (100).
- (iv) The [Order Cancel Reject](#), [Order Mass Cancel Report](#), [Quote Status Report](#), [Mass Quote Acknowledgement](#) and [Quote Request Reject](#) messages include the field ApplID (1180).
- (v) The [Security Definition](#) message includes the NoOfLegUnderlyings (1342) block.
- (vi) The [Order Cancel Reject](#) message includes the NoPartyIDs (453) block which was introduced in Extension Pack 115.
- (vii) The [Quote](#) message includes ExecInst (18) field.

7.3 Message Header and Trailer

7.3.1 Message Header

Tag	Field Name	Req	Description
8	BeginString	Y	FIXT.1.1
9	BodyLength	Y	Number of characters after this field up to and including the delimiter immediately preceding the CheckSum.
35	MsgType	Y	Message type.
49	SenderCompID	Y	CompID of the party sending the message.
56	TargetCompID	Y	CompID of the party the message is sent to.
34	MsgSeqNum	Y	Sequence number of the message.

43	PossDupFlag	N	Whether the message was previously transmitted under the same MsgSeqNum (34). Absence of this field is interpreted as Original Transmission (N).
Value Meaning			
Y Possible Duplicate			
N Original Transmission			
97	PossResend	N	Whether the message was previously transmitted under a different MsgSeqNum (34). Absence of this field is interpreted as Original Transmission (N).
Value Meaning			
Y Possible Resend			
N Original Transmission			
52	SendingTime	Y	Time the message was transmitted.
122	OrigSendingTime	N	Time the message was originally transmitted. If the original time is not available, this should be the same value as SendingTime (52). Required if PossDupFlag (43) is Possible Duplicate (Y).
1128	ApplVerID	N	Version of FIX used in the message. Required if the message is generated by the server.
Value Meaning			
9 FIX50SP2			

7.3.2 Message Trailer

Tag	Field Name	Req	Description
10	CheckSum	Y	

7.4 Administrative Messages

7.4.1 Logon

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	A = Logon
Message Body			
98	EncryptMethod	Y	Method of encryption.
Value Meaning			
0 None			
108	HeartBtInt	Y	Indicates the heartbeat interval in seconds.

141	ResetSeqNum Flag	N	Indicates whether the client and server should reset sequence numbers. Absence of this field is interpreted as Do Not Reset Sequence Numbers (N). Value Meaning Y Reset Sequence Numbers N Do Not Reset Sequence Numbers
554	Password	N	Password assigned to the ComplID. Required if the message is generated by the client. <i><Delete this field if password validation is disabled></i>
925	NewPassword	N	New password for the ComplID. <i><Delete this field if password validation is disabled></i>
1409	SessionStatus	N	Status of the FIX session. Required if the message is generated by the server. Value Meaning 0 Session Active 2 Password Due to Expire <i><Delete if password expiration is disabled></i>
1137	DefaultApplVerID	Y	Default version of FIX messages used in this session. Value Meaning 9 FIX50SP2
Standard Trailer			

7.4.2 Logout

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	5 = Logout
Message Body			
1409	SessionStatus	N	Status of the FIX session. Required if the message is generated by the server. Value Meaning 4 Session logout complete 6 Account locked 7 Logons are not allowed at this time 8 Password expired <i><Delete if password validation is disabled></i> 100 Other 101 Logout due to session level failure

			102	Logout by market operations
58	Text	N	Text specifying reason for the logout.	
Standard Trailer				

7.4.3 Heartbeat

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	0 = Heartbeat
Message Body			
112	TestReqID	N	Required if the heartbeat is a response to a Test Request. The value in this field should echo the TestReqID (112) received in the Test Request.
Standard Trailer			

7.4.4 Test Request

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	1 = Test Request
Message Body			
112	TestReqID	Y	Identifier for the request.
Standard Trailer			

7.4.5 Resend Request

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	2 = Resend Request
Message Body			

7	BeginSeqNo	Y	Sequence number of first message in range.
16	EndSeqNo	Y	Sequence number of last message in range.
Standard Trailer			

7.4.6 Reject

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	3 = Reject
Message Body			
45	RefSeqNum	Y	MsgSeqNum (34) of the rejected message.
372	RefMsgType	N	MsgType (35) of the rejected message.
371	RefTagID	N	If a message is rejected due to an issue with a particular field its tag number will be indicated.
373	SessionReject Reason	N	Code specifying the reason for the reject. Please refer to Section 10.3.1 for a list of reject codes.
58	Text	N	Text specifying the reason for the rejection.
Standard Trailer			

7.4.7 Sequence Reset

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	4 = Sequence Reset
Message Body			
36	NewSeqNo	Y	Sequence number of the next message to be transmitted.
123	GapFillFlag	N	Mode in which the message is being used. Absence of this field is interpreted as Sequence Reset (N). Value Meaning Y Gap Fill N Sequence Reset
Standard Trailer			

7.5 Application Messages: Order Handling

7.5.1 New Order – Single

Tag	Field Name	Req	Description
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Standard Header																	
35	MsgType	Y	D = New Order - Single														
Message Body																	
11	CIOrdID	Y	Client specified identifier of the order.														
453	NoPartyIDs	N	Number of party identifiers.														
►	448	PartyID	Identifier of the party.														
►	447	PartyID Source	<p>Required if PartyID (448) is specified.</p> <p>Value Meaning</p> <hr/> <p>D Proprietary/Custom Code</p>														
►	452	Party Role	<p>Role of the PartyID (448). Required if PartyID (448) is specified.</p> <p>Value Meaning</p> <hr/> <table border="1"> <tr><td>17</td><td>Contra Firm</td></tr> <tr><td>53</td><td>Trading Mnemonic</td></tr> <tr><td>83</td><td>Clearing Mnemonic</td></tr> </table>	17	Contra Firm	53	Trading Mnemonic	83	Clearing Mnemonic								
17	Contra Firm																
53	Trading Mnemonic																
83	Clearing Mnemonic																
1	Account	N	Identifier of the investor account on whose behalf the order is submitted.														
581	AccountType	N	<p>Type of the investor account.</p> <p>Value Meaning</p> <hr/> <table border="1"> <tr><td>1</td><td>Client</td></tr> <tr><td>3</td><td>House</td></tr> <tr><td>100</td><td>Custodian</td></tr> </table>	1	Client	3	House	100	Custodian								
1	Client																
3	House																
100	Custodian																
55	Symbol	Y	Identifier of the instrument.														
30001	OrderBook	N	<p>Identifier of the order book. Absence of this field is interpreted as Regular (1).</p> <p>Value Meaning</p> <hr/> <table border="1"> <tr><td>1</td><td>Regular</td></tr> <tr><td>3</td><td>Odd Lot</td></tr> <tr><td>4</td><td>Block Trade</td></tr> <tr><td>5</td><td>All or None</td></tr> <tr><td>6</td><td>Early Settlement</td></tr> <tr><td>7</td><td>Auction</td></tr> <tr><td>9</td><td>Bulletin Board</td></tr> </table>	1	Regular	3	Odd Lot	4	Block Trade	5	All or None	6	Early Settlement	7	Auction	9	Bulletin Board
1	Regular																
3	Odd Lot																
4	Block Trade																
5	All or None																
6	Early Settlement																
7	Auction																
9	Bulletin Board																

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40	OrdType	Y	Type of the order. Value Meaning 1 Market 2 Limit 3 Stop 4 K Market to Limit Stop Limit J Market If Touched
59	TimeInForce	N	Time qualifier of the order. Absence of this field is interpreted as Day (0). Value Meaning 0 Day 1 Good Till Cancel (GTC) 2 At the Open (OPG) 3 Immediate or Cancel (IOC) 4 Fill or Kill (FOK) 6 Good Till Date (GTD) 7 At the Close (ATC) 9 Good for Auction (GFA)
126	ExpireTime	N	Time the order expires which must be a time during the current trading day. Required if TimeInForce (59) is GTD (6) and ExpireDate (432) is not specified.
432	ExpireDate	N	Date the order expires. Required if TimeInForce (59) is GTD (6) and ExpireTime (126) is not specified.
386	NoTrading Sessions	N	Number of sessions the order is valid for. If specified, the value in this field should always be "1".
➔	336	Trading Session ID	Session the order is valid for. Value Meaning a Closing Price Cross ¹⁰

¹⁰ A suitable value for tag 59 could not be identified when implementing CPX orders. Therefore, tag TradingSessionID(336) = "a" is used along with TIF(59)=0 to identify CPX orders

18	ExecInst	N	Space separated field indicating specific instructions to be carried out on the order due to the events, (1) User disconnect/logout and corporate actions Value Meaning n Do Not Cancel on Disconnect/Logout E Do Not Increase F Do Not Reduce (2) When submitting order for the ordr book 'Block Trade' (4) Value Meaning B Basic Block Trade j Repo
54	Side	Y	Side of the order. Value Meaning 1 Buy 2 Sell 5 Sell Short
38	OrderQty	Y	Total order quantity.
1138	DisplayQty	N	Maximum quantity that may be displayed.
1084	DisplayMethod	N	Whether the order is a reserve order. Value Meaning 4 Undisclosed (Reserve Order)
110	MinQty	N	Minimum quantity that must be filled.
44	Price	N	Limit price. Required if OrderType (40) is Limit (2) or Stop Limit (4).
99	StopPx	N	Stop price. Required if OrderType (40) is Stop (3) or Stop Limit (4) and no value specified for PegOffsetValue (211)..
211	PegOffsetValue	N	Trailing Offset added to trailing stop/stop limit orders. Only positive values are allowed with the value zero.
1091	PreTrade Anonymity	N	Whether the order is anonymous or named. Absence of this field is interpreted as Anonymous (Y). Value Meaning Y Anonymous N Named

528	OrderCapacity	N	Capacity of the order. Absence of this field is interpreted as Agency (A). Value Meaning Agency A P Principal
583	CIOrdLinkID	N	Deal identifier agreed with counterparty. Required if OrderBook (30001) is Block Trade (4) and order book configuration is to support negotiated nondisclosure orders
30004	OrderSource	N	Free form text of up to ten characters. The specified string will be included in all Execution Reports generated for the order.
60	TransactTime	Y	Time the order was created.
63	Settle Type	N	Settlement Cycle applicable for the order. Only valid when Order Book is Block Trade (4). Value Meaning 0 Regular (T+3) 1 Cash (T) 2 Early Settle (T+1) 3 (T+2) If the user does not send the settlement cycle, the normal settlement cycle will be applied.
232	NoStipulations	N	Number of stipulations. Should be always set to '2' if the ExecInst (18) value is 'j' (Repo).
➡	233	StipulationType	N Required if NoStipulations(232) is specified above Value Meaning TERM Term of the repo trade RATE Rate of the repo trade
➡	234	StipulationValue	N Value of the stipulation. Only positive values will be accepted when the StipulationType(233) is set to 'TERM'
79	AllocAccount	N	Sub-account mnemonic. The CP Code of the Client ID will be mentioned here.
Standard Trailer			

7.5.2 Order Cancel Request

Tag	Field Name	Req	Description

Standard Header															
35	MsgType	Y	F = Order Cancel Request												
Message Body															
11	ClOrdID	Y	Client specified identifier of the cancel request.												
41	OrigClOrdID	N	ClOrdID (11) of the order being cancelled. Required if OrderID (37) is not specified.												
37	OrderID	N	Server specified identifier of the order being cancelled. Required if OrigClOrdID (41) is not specified.												
Component Block <Trading Mnemonic>		N	Identifier of the trading mnemonic.												
55	Symbol	Y	Must match the values in the order.												
30001	OrderBook	N	Identifier of the order book. Absence of this field is interpreted as Regular (1). Value Meaning <table border="1" style="margin-left: 20px;"> <tr><td>1</td><td>Regular</td></tr> <tr><td>3</td><td>Odd Lot</td></tr> <tr><td>4</td><td>Block Trade</td></tr> <tr style="background-color: #cccccc;"><td>6</td><td>Early Settlement</td></tr> <tr><td>7</td><td>Auction</td></tr> <tr style="background-color: #cccccc;"><td>9</td><td>Bulletin Board</td></tr> </table>	1	Regular	3	Odd Lot	4	Block Trade	6	Early Settlement	7	Auction	9	Bulletin Board
1	Regular														
3	Odd Lot														
4	Block Trade														
6	Early Settlement														
7	Auction														
9	Bulletin Board														
54	Side	Y	Must match the value in the order.												
30004	OrderSource	N	Free form text of up to ten characters. The specified string will be included in the Execution Report transmitted to confirm the cancellation.												
60	TransactTime	Y	Time the order cancel request was created.												
Standard Trailer															

7.5.3 Order Mass Cancel Request

Tag	Field Name	Req	Description								
Standard Header											
35	MsgType	Y	q = Order Mass Cancel Request								
Message Body											
11	CIOrdID	Y	Client specified identifier of mass cancel request.								
530	MassCancelRequestType	Y	Scope of the mass cancel request.								
Value Meaning <table> <tr><td>1</td><td>Cancel All Orders for Instrument</td></tr> <tr><td>2</td><td>Cancel All Orders for Underlying</td></tr> <tr><td>7</td><td>Cancel All Orders</td></tr> <tr><td>9</td><td>Cancel All Orders for Segment</td></tr> </table>				1	Cancel All Orders for Instrument	2	Cancel All Orders for Underlying	7	Cancel All Orders	9	Cancel All Orders for Segment
1	Cancel All Orders for Instrument										
2	Cancel All Orders for Underlying										
7	Cancel All Orders										
9	Cancel All Orders for Segment										
1461	NoTargetPartyIDs	N	Number of parties the mass cancel relates to. If specified, the value in this field will always be "1".								
►	1462	TargetPartyID	Identifier of the party the mass cancel relates to. Required if NoTargetPartyIDs (1461) is specified.								
►	1463	TargetPartyIDSource	Required if NoTargetPartyIDs (1461) is specified.								
Value Meaning <table> <tr><td>D</td><td>Proprietary/Custom Code</td></tr> </table>				D	Proprietary/Custom Code						
D	Proprietary/Custom Code										
►	1464	TargetPartyRole	Role of the TargetPartyID (1462). Required if NoTargetPartyIDs (1461) is specified.								
Value Meaning <table> <tr><td>1</td><td>Executing Firm</td></tr> <tr><td>53</td><td>Trading Mnemonic</td></tr> </table>				1	Executing Firm	53	Trading Mnemonic				
1	Executing Firm										
53	Trading Mnemonic										
55	Symbol	N	Identifier of the instrument the mass cancel relates to. Required if MassCancelRequestType (530) is Cancel All for Instrument (1).								
311	UnderlyingSymbol	N	Identifier of the underlying the mass cancel relates to. Required if MassCancelRequestType (530) is Cancel All for Underlying (2).								
1300	MarketSegmentID	N	Identifier of the segment the mass cancel relates to. Please refer to Section 8 for the valid segments. Required if MassCancelRequestType (530) is Cancel All for Segment (9).								
60	TransactTime	Y	Time the mass cancel request was created.								

30001	OrderBook	N	Identifier of the order book. Absence of this field is interpreted as Regular (1).
Value Meaning			
1			Regular
3			Odd Lot
4			Block Trade
6			Early Settlement
7			Auction
9			Bulletin Board
Standard Trailer			

7.5.4 Order Cancel/Replace Request

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	G = Order Cancel/Replace Request
Message Body			
11	CIOrgID	Y	Client specified identifier of the cancel/replace request.
41	OrigCIOrgID	N	CIOrgID (11) of the order being amended. Required if OrderID (37) is not specified.
37	OrderID	N	Server specified identifier of the order being amended. Required if OrigCIOrgID (41) is not specified.
453	NoPartyIDs	Y	Number of party identifiers.
► 448	PartyID	Y	Identifier of the party.
► 447	PartyID Source	Y	<p>Required if PartyID (448) is specified.</p> <p>Value Meaning</p> <hr/> <p>D Proprietary/Custom Code</p>
► 452	Party Role	Y	<p>Role of the PartyID (448). Required if PartyID (448) is specified. (Specifying Trading Mnemonic (53) is mandatory when submitting a cancel replace request)</p> <p>Value Meaning</p> <hr/> <p>17 Contra Firm</p> <hr/> <p>53 Trading Mnemonic</p>
55	Symbol	Y	Must match the values in the order.
30001	OrderBook	N	<p>Identifier of the order book. Absence of this field is interpreted as Regular (1).</p> <p>Value Meaning</p> <hr/> <p>1 Regular</p> <hr/> <p>3 Odd Lot</p> <hr/> <p>4 Block Trade</p> <hr/> <p>6 Early Settlement</p> <hr/> <p>7 Auction</p> <hr/> <p>9 Bulletin Board</p>
40	OrdType	Y	Must match the value in the order.

59	TimeInForce	N	Time qualifier of the order. Absence of this field is interpreted as Day (0). Value Meaning 0 Day 1 Good Till Cancel (GTC) 2 At the Opening (OPG) 3 Immediate or Cancel (IOC) 4 Fill or Kill (FOK) 6 Good Till Date (GTD) 7 At the Close (ATC) 9 Good for Auction (GFA)
126	ExpireTime	N	Time the order expires which must be a time during the current trading day. Required if TimeInForce (59) is GTD (6) and ExpireDate (432) is not specified.
432	ExpireDate	N	Date the order expires. Required if TimeInForce (59) is GTD (6) and ExpireTime (126) is not specified.
386	NoTrading Sessions	N	Number of sessions the order is valid for. If specified, the value in this field should always be "1".
➡	336	Trading Session ID	Session the order is valid for. Value Meaning A Closing Price Cross
18	ExecInst	N	Space separated field indicating specific instructions to be carried out on the order due to the events, (1) user disconnect/logout and corporate actions. Value Meaning N Do Not Cancel on Disconnect/Logout E Do Not Increase F Do Not Reduce (2) When submitting order for the ordr book 'Block Trade' (4) Value Meaning B Basic Block Trade J Repo

54	Side	Y	Must match the value in the order.
38	OrderQty	Y	Total order quantity.
1138	DisplayQty	N	Maximum quantity that may be displayed. If not specified, existing DisplayQty of the order is assumed

1084	DisplayMethod	N	Whether the order is a reserve order.										
			Value Meaning										
			4 Undisclosed (Reserve Order)										
44	Price	N	Limit price. Required if OrderType (40) is Limit (2) or Stop Limit (4).										
99	StopPx	N	Stop price. Required if OrderType (40) is Stop (3), Stop Limit (4) or Market If Touched(J) and no value specified for PegOffsetValue (211)..										
211	PegOffsetValue	N	Trailing Offset added to trailing stop/stop limit orders. Only positive values are allowed with the value zero.										
583	ClOrdLinkID	N	Deal identifier agreed with counterparty. Required if OrderBook (30001) is Block Trade (4) and order book configuration is to support negotiated non-disclosure orders										
30004	OrderSource	N	Free form text of up to ten characters. The specified string will be included in all subsequent Execution Reports generated for the order.										
60	TransactTime	Y	Time the cancel/replace request was created.										
63	Settle Type	N	<p>Settlement Cycle applicable for the order. Only valid when Order Book is Block Trade (4).</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Regular (T+3)</td> </tr> <tr> <td>1</td> <td>Cash (T)</td> </tr> <tr> <td>2</td> <td>Early Settle (T+1)</td> </tr> <tr> <td>3</td> <td>(T+2)</td> </tr> </tbody> </table> <p>If the user does not send the settlement cycle, the normal settlement cycle will be applied.</p>	Value	Meaning	0	Regular (T+3)	1	Cash (T)	2	Early Settle (T+1)	3	(T+2)
Value	Meaning												
0	Regular (T+3)												
1	Cash (T)												
2	Early Settle (T+1)												
3	(T+2)												
232	NoStipulations	N	Number of stipulations. Should be always set to '2' if the ExecInst (18) value is 'j' (Repo).										

⇒	233	StipulationType	N	Required if NoStipulations(232) is specified above <table border="1"> <thead> <tr> <th>Value</th><th>Meaning</th></tr> </thead> <tbody> <tr> <td>TERM</td><td>Term of the repo trade</td></tr> <tr> <td>RATE</td><td>Rate of the repo trade</td></tr> </tbody> </table>	Value	Meaning	TERM	Term of the repo trade	RATE	Rate of the repo trade
Value	Meaning									
TERM	Term of the repo trade									
RATE	Rate of the repo trade									
⇒	234	StipulationValue	N	Value of the stipulation. Only positive values will be accepted when the StipulationType(233) is set to 'TERM'						
79		AllocAccount	N	Sub-account mnemonic. The CP Code of the Client ID may be added, amended or removed via this field.						
Standard Trailer										

7.5.5 Execution Report

Standard Header			
Message Body			
35	MsgType	Y	8 = Execution Report
1180	ApplID	Y	Identity of the partition.
17	ExecID	Y	Server specified identifier of the message.
11	ClOrdID	Y	Client specified identifier of the order ¹¹ .
278	MDEntryID	Y	Server specified public order identified or the order.
41	OrigClOrdID	N	ClOrdID (11), of the order which has been amended or cancelled. Stamped only in the immediate ER generated to convey an amendment/cancellation ¹² .
37	OrderID	Y	Server specified identifier of the order.
442	MultiLeg	N	Type of Trade. Absence of this field is interpreted as ReportingType Trade of Single Instrument (1).
			Value Meaning
			1 Trade of Single Instrument
			2 Leg Trade of a Multi-Leg Instrument Trade
			3 Trade of a Multi-Leg Instrument
198	Secondary OrderID	N	Server specified identifier of the order for the multi legged instrument. Required if MultiLegReportingType (442) is Leg Trade of a Multi-Leg Instrument Trade (2).

¹¹ In an amendment/cancellation the ClOrdID(11) submitted with the order cancel or cancel/replace request will be stamped here

¹² Any subsequent ERs sent regarding to any executions, expirations etc. of the order will not be stamped the OrigClOrdID(41).

150	ExecType	Y	Reason the execution report was generated.																												
			<table border="1"> <thead> <tr> <th>Value</th><th>Meaning</th></tr> </thead> <tbody> <tr><td>0</td><td>New</td></tr> <tr><td>4</td><td>Cancelled</td></tr> <tr><td>5</td><td>Replaced</td></tr> <tr><td>8</td><td>Rejected</td></tr> <tr><td>9</td><td>Suspended</td></tr> <tr><td>A</td><td>Pending New</td></tr> <tr><td>C</td><td>Expired</td></tr> <tr><td>D</td><td>Restated</td></tr> <tr><td>E</td><td>Pending Replace</td></tr> <tr><td>F</td><td>Trade</td></tr> <tr><td>G</td><td>Trade Correct</td></tr> <tr><td>H</td><td>Trade Cancel</td></tr> <tr><td>L</td><td>Triggered</td></tr> </tbody> </table>	Value	Meaning	0	New	4	Cancelled	5	Replaced	8	Rejected	9	Suspended	A	Pending New	C	Expired	D	Restated	E	Pending Replace	F	Trade	G	Trade Correct	H	Trade Cancel	L	Triggered
Value	Meaning																														
0	New																														
4	Cancelled																														
5	Replaced																														
8	Rejected																														
9	Suspended																														
A	Pending New																														
C	Expired																														
D	Restated																														
E	Pending Replace																														
F	Trade																														
G	Trade Correct																														
H	Trade Cancel																														
L	Triggered																														
880	TrdMatchID	N	Identifier of the trade. Required if ExecType (150) is Trade (F), Trade Correct (G) or Trade Cancel (H).																												
1040	Secondary Trade ID	N	Numeric trade ID assigned for the trade. Required if ExecType (150) is Trade (F), Trade Correct (G) or Trade Cancel (H).																												
19	ExecRefID	N	Reference to the execution being cancelled or corrected. Required if ExecType (150) is Trade Cancel (H) or Trade Correct (G).																												
378	Exec Restatement Reason	N	<p>Reason the order was restated or cancelled by Market Operations. Required if ExecType (150) is Restated (D) or if the execution report is sent for an unsolicited cancellation.</p> <table border="1"> <thead> <tr> <th>Value</th><th>Meaning</th></tr> </thead> <tbody> <tr><td>0</td><td>GT Corporate Action</td></tr> <tr><td>1</td><td>GT Renewal/Restatement</td></tr> <tr><td>3</td><td>Order Re-Priced</td></tr> <tr><td>8</td><td>Market Option</td></tr> <tr><td>100</td><td>Order Replenishment</td></tr> </tbody> </table>	Value	Meaning	0	GT Corporate Action	1	GT Renewal/Restatement	3	Order Re-Priced	8	Market Option	100	Order Replenishment																
Value	Meaning																														
0	GT Corporate Action																														
1	GT Renewal/Restatement																														
3	Order Re-Priced																														
8	Market Option																														
100	Order Replenishment																														
39	OrdStatus	Y	Current status of the order.																												

Value Meaning

- 0 New
 - 1 Partially Filled
 - 2 Filled
 - 4 Cancelled
 - 8 Rejected

			<p>9 Suspended A Pending New C Expired E Pending Replace</p>
636	Working Indicator	N	Whether the order is currently being worked.
			Value Meaning
			N Order is Not in a Working State Y Order is Being Worked
103	OrdRejReason	N	Code specifying the reason for the reject. Please refer to Section 10.1.1 for a list of reject codes. Required if ExecType (150) is Rejected (8).
58		N	Text N Text specifying the reason for the rejection, cancellation or expiration
32	LastQty	N	Quantity executed in this fill. Required if ExecType (150) is Trade (F) or Trade Correct (G).
31	LastPx	N	Price of this fill. Required if ExecType (150) is Trade (F) or Trade Correct (G).
669	LastParPx	N	Price per unit of the trade. Required if LastPx (31) is specified and the trade is for a fixed income instrument quoted on discount rate or yield.
236	Yield	N	Implied yield of this fill. Required if LastPx (31) is specified and the trade is for a fixed income instrument quoted on price per unit or on percentage of par.
159	AccruedInterest Amt	N	Accrued Interest for a unit trade if executed on the current trading day. Multiplying this by the LastPx(31) if available, gives the Total accrued interest. May only apply for a Regular Coupon Bond or TIPS.
151	LeavesQty	Y	Quantity available for further execution. Will be "0" if OrdStatus (39) is Filled (2), Cancelled (4), Rejected (8) or Expired (C).
14	CumQty	Y	Total cumulative quantity filled.
6	AvgPx	N	Average price of all fills for the order.
55	Symbol	Y	Identifier of the instrument.

32021	ParPx	N	Converted clean price of an order's limit price. If computed, it will be on the Price (44) of an order belonging to a fixed income instrument quoted on discount rate or yield.																
30005	ConvertedYield	N	Converted yield value of an order's limit price. If computed, it will be on the Price (44) of an order belonging to a fixed income instrument quoted on price per unit or on percentage-of-par.																
30001	OrderBook	Y	<p>Identifier of the order book.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Regular</td> </tr> <tr> <td>3</td> <td>Odd Lot</td> </tr> <tr> <td>4</td> <td>Block Trade</td> </tr> <tr> <td>5</td> <td>All or None</td> </tr> <tr> <td>6</td> <td>Early Settlement</td> </tr> <tr> <td>7</td> <td>Auction</td> </tr> <tr> <td>9</td> <td>Bulletin Board</td> </tr> </tbody> </table>	Value	Meaning	1	Regular	3	Odd Lot	4	Block Trade	5	All or None	6	Early Settlement	7	Auction	9	Bulletin Board
Value	Meaning																		
1	Regular																		
3	Odd Lot																		
4	Block Trade																		
5	All or None																		
6	Early Settlement																		
7	Auction																		
9	Bulletin Board																		
453	NoPartyIDs	N	Number of party identifiers.																
►	448	PartyID	<p>Identifier of the party.</p>																
►	447	PartyID Source	<p>Required if PartyID (448) is specified.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary/Custom Code</td> </tr> </tbody> </table>	Value	Meaning	D	Proprietary/Custom Code												
Value	Meaning																		
D	Proprietary/Custom Code																		
►	452	Party Role	<p>Role of the PartyID (448). Required if PartyID (448) is specified.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Executing Firm</td> </tr> <tr> <td>17</td> <td>Contra Firm</td> </tr> <tr> <td>53</td> <td>Trading Mnemonic</td> </tr> <tr> <td>83</td> <td>Clearing Mnemonic</td> </tr> </tbody> </table>	Value	Meaning	1	Executing Firm	17	Contra Firm	53	Trading Mnemonic	83	Clearing Mnemonic						
Value	Meaning																		
1	Executing Firm																		
17	Contra Firm																		
53	Trading Mnemonic																		
83	Clearing Mnemonic																		
1	Account	N	Identifier of the investor account.																
581	AccountType	N	<p>Type of the investor account.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Client</td> </tr> <tr> <td>3</td> <td>House</td> </tr> <tr> <td>100</td> <td>Custodian</td> </tr> </tbody> </table>	Value	Meaning	1	Client	3	House	100	Custodian								
Value	Meaning																		
1	Client																		
3	House																		
100	Custodian																		
40	OrdType	Y	Value submitted with the order.																
59	TimeInForce	N	Value submitted with the order.																
126	ExpireTime	N	Value submitted with the order.																
432	ExpireDate	N	Value submitted with the order.																
336	Trading SessionID	N	Value submitted with the order.																
18	ExecInst	N	Value submitted with the order.																

54	Side	Y	Value submitted with the order.										
38	OrderQty	Y	Value submitted with the order.										
1138	DisplayQty	N	Quantity currently displayed in the order book.										
1084	DisplayMethod	N	Value submitted with the order.										
110	MinQty	N	Value submitted with the order.										
44	Price	N	Value submitted with the order.										
99	StopPx	N	Value submitted with the order.										
211	PegOffsetValue	N	Value submitted with the order.										
1091	PreTrade Anonymity	N	Value submitted with the order.										
528	OrderCapacity	Y	<p>Capacity of the order.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Agency</td> </tr> <tr> <td>P</td> <td>Principal</td> </tr> </tbody> </table>	Value	Meaning	A	Agency	P	Principal				
Value	Meaning												
A	Agency												
P	Principal												
583	CIOrdLinkID	N	Deal identifier of a block trade.										
30004	OrderSource	N	Value submitted with the order, cancel request or amend request. ¹⁵										
60	TransactTime	Y	Time the transaction represented by the Execution Report occurred.										
63	Settle Type	N	<p>Settlement Cycle applicable for the order. Only valid when Order Book is Block Trade (4).</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Regular (T+3)</td> </tr> <tr> <td>1</td> <td>Cash (T)</td> </tr> <tr> <td>2</td> <td>Early Settle (T+1)</td> </tr> <tr> <td>3</td> <td>(T+2)</td> </tr> </tbody> </table> <p>If the user does not send the settlement cycle and if the settlement type is required, the normal settlement cycle will be stamped. If the user sends the settlement cycle when the settlement cycle is not required for matching, then the field will be reset to null.</p>	Value	Meaning	0	Regular (T+3)	1	Cash (T)	2	Early Settle (T+1)	3	(T+2)
Value	Meaning												
0	Regular (T+3)												
1	Cash (T)												
2	Early Settle (T+1)												
3	(T+2)												
232	NoStipulations	N	Number of stipulations.										
➡	233	Stipulation Type	<p>Stipulation Type</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>TERM</td> <td>Term of the repo trade</td> </tr> <tr> <td>RATE</td> <td>Rate of the repo trade</td> </tr> </tbody> </table>	Value	Meaning	TERM	Term of the repo trade	RATE	Rate of the repo trade				
Value	Meaning												
TERM	Term of the repo trade												
RATE	Rate of the repo trade												

¹⁵ Execution Reports generated subsequent to the Order Cancel Reject message being generated would not consist of the data submitted by the user in the OrderSource (30004)Text (58) field of the rejected Order Cancel or Order Cancel/Replace Request message

➡	234	Stipulation Value	N	Value of the stipulation.
32022	LastOptPx		N	Converted price of the executed volatility of the options instrument.
1188	Volatility		N	Converted volatility of the executed price of the options instrument.
79	AllocAccount		N	Sub-account mnemonic. The CP Code of the Client ID will be mentioned here.
Standard Trailer				

7.5.6 Order Cancel Reject

Tag	Field Name	Req	Description																				
Standard Header																							
35	MsgType	Y	9 = Order Cancel Reject																				
Message Body																							
1180	ApplID	Y	Identity of the partition.																				
11	ClOrdID	Y	ClOrdID (11) that was submitted with the order cancel or cancel/replace request being rejected.																				
41	OrigClOrdID	N	OrigClOrdID (41), if any, that was submitted with the order cancel or cancel/replace request being rejected.																				
37	OrderID	Y	Server specified identifier of the order for which the cancel or cancel/replace was submitted. Will be "NONE" if the order is unknown.																				
Component Block <Trading Mnemonic>		N	Values specified in the order cancel or cancel/replace request.																				
39	OrdStatus	Y	<p>Current status of the order. Will be Rejected (8) if the order is unknown or the request cannot be processed.</p> <table> <thead> <tr> <th colspan="2">Value Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td><td>New</td></tr> <tr> <td>1</td><td>Partially Filled</td></tr> <tr> <td>2</td><td>Filled</td></tr> <tr> <td>4</td><td>Cancelled</td></tr> <tr> <td>8</td><td>Rejected</td></tr> <tr> <td>9</td><td>Suspended</td></tr> <tr> <td>A</td><td>Pending New</td></tr> <tr> <td>C</td><td>Expired</td></tr> <tr> <td>E</td><td>Pending Replace</td></tr> </tbody> </table>	Value Meaning		0	New	1	Partially Filled	2	Filled	4	Cancelled	8	Rejected	9	Suspended	A	Pending New	C	Expired	E	Pending Replace
Value Meaning																							
0	New																						
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8	Rejected																						
9	Suspended																						
A	Pending New																						
C	Expired																						
E	Pending Replace																						
434	CxlRejResponseTo	Y	<p>Type of request being rejected.</p> <table> <thead> <tr> <th colspan="2">Value Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td><td>Order Cancel Request</td></tr> <tr> <td>2</td><td>Order Cancel/Replace Request</td></tr> </tbody> </table>	Value Meaning		1	Order Cancel Request	2	Order Cancel/Replace Request														
Value Meaning																							
1	Order Cancel Request																						
2	Order Cancel/Replace Request																						
102	CxlRejReason	Y	Code specifying the reason for the rejection. Please refer to Section 10.1.2 for a list of reject codes.																				
58	Text	N	Text specifying the reason for the rejection.																				
60	TransactTime	Y	Time the reject was generated.																				

30001	OrderBook	N	Identifier of the order book. Absence of this field is interpreted as Regular (1).
Value Meaning <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>			

Value Meaning

Standard Trailer

7.5.7 Order Mass Cancel Report

Tag	Field Name	Req	Description														
Standard Header																	
35	MsgType	Y	r = Order Mass Cancel Report														
Message Body																	
1180	ApplID	Y	Identity of the partition.														
1369	MassActionReportID	Y	Server specified identifier of the message.														
11	ClOrdID	Y	Client specified identifier of mass cancel request. When mass cancellation is performed due to a partition failover, this will be the same value as MassActionReportID (1369).														
530	MassCancel RequestType	Y	Value specified in the mass cancel request. This field will be 'z' to indicate 'Partition Suspended'														
531	MassCancel Response	Y	<p>Action taken by server.</p> <table> <thead> <tr> <th colspan="2">Value Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Mass Cancel Request Rejected</td> </tr> <tr> <td>1</td> <td>Cancelled All Orders for Instrument</td> </tr> <tr> <td>2</td> <td>Cancelled All Orders for Underlying</td> </tr> <tr> <td>7</td> <td>Cancelled All Orders</td> </tr> <tr> <td>9</td> <td>Cancelled All Orders for Segment</td> </tr> <tr> <td>z</td> <td>Cancelled All Orders for Partition</td> </tr> </tbody> </table>	Value Meaning		0	Mass Cancel Request Rejected	1	Cancelled All Orders for Instrument	2	Cancelled All Orders for Underlying	7	Cancelled All Orders	9	Cancelled All Orders for Segment	z	Cancelled All Orders for Partition
Value Meaning																	
0	Mass Cancel Request Rejected																
1	Cancelled All Orders for Instrument																
2	Cancelled All Orders for Underlying																
7	Cancelled All Orders																
9	Cancelled All Orders for Segment																
z	Cancelled All Orders for Partition																
532	MassCancelReject Reason	N	Code specifying the reason for the rejection. Please refer to Section 10.1.3 for a list of reject codes. Required if MassCancelResponse (531) is Mass Cancel Request Rejected (0).														
30001	OrderBook	N	<p>Identifier of the order book. Absence of this field is interpreted as Regular (1). OrderBook (30001) is not sent when mass cancelled due to a partition failover</p> <table> <thead> <tr> <th colspan="2">Value Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Regular</td> </tr> <tr> <td>3</td> <td>Odd Lot</td> </tr> <tr> <td>4</td> <td>Block Trade</td> </tr> <tr> <td>6</td> <td>Early Settlement</td> </tr> <tr> <td>7</td> <td>Auction</td> </tr> <tr> <td>9</td> <td>Bulletin Board</td> </tr> </tbody> </table>	Value Meaning		1	Regular	3	Odd Lot	4	Block Trade	6	Early Settlement	7	Auction	9	Bulletin Board
Value Meaning																	
1	Regular																
3	Odd Lot																
4	Block Trade																
6	Early Settlement																
7	Auction																
9	Bulletin Board																

Standard Trailer

7.6 Application Messages: User Management

7.6.1 User and Collateral Management

7.6.1.1 User Limits and Collateral Setup

7.6.1.1.1 Party Risk Limits Definition Request Message

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	CS = Party Risk Limits Definition Request
Message Body			
166 6	RiskLimitRequestID	Y	Client specified identifier of the request.
79	AllocAccount	N	CP Code for whom limits should be set for.
<Party Risk Limits Update Group>			
167 7	NoPartyRiskLimits	N	Number of party risk identifiers. This will always be set to '1'.
→	1324	ListUpdateAction	<p>Specifies the action to be taken. Required if NoPartyRiskLimits (1677) is not zero (0).</p> <p>Value Meaning</p> <p>M Modify</p>
<Parties Group>			
→	1671	NoPartyDetails	<p>Number of party details. Required if NoPartyRiskLimits (1677) is not zero (0). This will always be set to '1'.</p>
→	→ 1691	PartyDetailID	<p>Identifier of the party. Required when NoPartyDetails(1671) is not zero (0).</p>
→	→ 1692	PartyDetailIDSource	<p>Required if PartyDetailID (1691) is specified.</p> <p>Value Meaning</p> <p>D Proprietary/Custom Code</p>
→	→ 1693	PartyDetailRole	<p>Role of the PartyDetailID (1691). Required if PartyDetailID (1691) is specified.</p> <p>Value Meaning</p> <p>1 Executing Firm</p> <p>53 Trading Mnemonic</p>
<Risk Limits Group>			

►	1669		<u>NoRiskLimits</u>		N	Number of risk details. Required if NoPartyRiskLimits (1677) is not zero (0).
►	►	1529	<u>NoRiskLimitTypes</u>		N	Number of risk limit types. Required if NoRiskLimits (1669) is not zero (0).
►	►	►	<u>1530</u>	<u>RiskLimit Type</u>	Y	Type of Risk Limit being defined.
						<u>Value Meaning</u> <u>8 Total Margin</u>
►	►	►	<u>1531</u>	<u>RiskLimit Amount</u>	N	Specifies the risk limit amount.
Standard Trailer						

7.6.1.1.2 Party Risk Limits Definition Request Acknowledgment message

<u>Tag</u>	<u>Field Name</u>	<u>Req</u>	<u>Description</u>
Standard Header			
35	<u>MsgType</u>	<u>Y</u>	CT = Party Risk Limits Definition RequestAck
Message Body			
<u>1666</u>	<u>RiskLimitRequestID</u>	<u>Y</u>	Client specified identifier of the Party Risk Limits Definition Request.
<u>1761</u>	<u>RiskLimitRequestResult</u>	<u>N</u>	<p>Result of risk limit definition request.</p> <u>Value Meaning</u> <ul style="list-style-type: none"> <u>0 Successful</u> <u>1 Invalid party</u> <u>3 Invalid risk limit type(s)</u> <u>5 Invalid risk limit amounts</u> <u>12 Risk limit not approved for party</u> <u>13 Risk limit already defined</u> <u>98 Not authorised</u> <u>99 Other</u>
<u>1762</u>	<u>RiskLimitRequestStatus</u>	<u>Y</u>	<p>Status of risk limit definition request.</p> <u>Value Meaning</u> <ul style="list-style-type: none"> <u>0 Accepted</u> <u>2 Rejected</u>
<u>58</u>	<u>Text</u>	<u>N</u>	Gives the reason for rejection of the risk limit definition request
Standard Trailer			

7.67.7 Application Messages: Quote Handling

7.6.17.7.1 Quote

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	S = Quote
Message Body			
1166	QuoteMsgID	Y	Client specified identifier of the message.
117	QuoteID	Y	Identifier of the quote entry. The value is this field should always be "1".
131	QuoteReqID	N	RFQ the quote is generated in response to.
30006	RFQID	N	The unique identifier assigned to the RFQ by the system. Mandatory if the quote is submitted to the negotiated trades book
30007	Bid ID	N	With regards to private negotiations via RFQs functionality, the system generated Order ID for the Bid Side. Will be stamped when the quote is routed to the requester
30008	Offer ID	N	With regards to private negotiations via RFQs functionality, the system generated Order ID for the Sell Side. Will be stamped when the quote is routed to the requester
1171	PrivateQuote	N	Absence of this field should be interpreted as Public Quote (N). Value Meaning N Public Quote Y Private Quote
453	NoPartyIDs	N	Number of party identifiers.
►	448	PartyID	Identifier of the party.

➡	447	PartyID Source	N	Required if PartyID (448) is specified. Value Meaning D Proprietary/Custom Code
➡	452	Party Role	N	Role of the PartyID (448). Required if PartyID (448) is specified. Value Meaning 37 Contra Trader 53 Trading Mnemonic 66 Market Maker (Firm IDs) 83 Clearing Mnemonic
1	Account		N	Identifier of the investor account on whose behalf the quote is submitted.
55	Symbol		Y	Identifier of the instrument.
110	MinQty		N	Minimum quantity that must be filled.
30001	OrderBook		N	Identifier of the order book. Absence of this field is interpreted as Regular (1). Value Meaning 1 Regular 3 Odd Lot 6 Early Settlement 9 Bulletin Board 11 Negotiated Trades
132	BidPx		N	Bid price. Required if BidSize (134) is specified.
134	BidSize		N	Bid quantity. Required if BidPx (132) is specified.
133	OfferPx		N	Offer price. Required if OfferSize (135) is specified.
135	OfferSize		N	Offer quantity. Required if OfferPx (133) is specified.
735	NoQuote Qualifiers		N	Number of quote qualifiers. If specified, the value in this field should always be "1".
➡	695	Quote Qualifier	N	Time qualifier of the quote. Required if NoQuote Qualifiers (735) is specified. Value Meaning O At the Open
62	ValidUntilTime		N	Time during the current day that the quote expires.

18	ExecInst	N	Value Meaning
n Do Not Cancel on Disconnect/Logout			
1091	PreTrade Anonymity	N	Whether the quote is anonymous or named. Absence of this field is interpreted as Anonymous (Y).
			Value Meaning
			Y Anonymous
			N Named
Standard Trailer			

7.6.27.7.2 Mass Quote

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	i = Mass Quote
Message Body			
117	QuoteID	Y	Client specified identifier of the message.
Component Block <Trading Mnemonic>		N	Identifier of the trading mnemonic.
1	Account	N	Identifier of the investor account on whose behalf the quote is submitted.
301	QuoteResponseLevel	N	Level of acknowledgement requested. Absence of this field is interpreted as No Acknowledgement (0).
Value Meaning			
0 No Acknowledgement			
Acknowledge Rejected			
1 Quotes			
2 Acknowledge Each Quote			
293	DefBidSize	N	Default bid quantity for a quote entry in this message if one is not explicitly provided.
294	DefOfferSize	N	Default offer quantity for a quote entry in this message if one is not explicitly provided
296	NoQuoteSets	Y	Number of quote sets in the mass quote.

►	302	QuoteSetID		Y	Identifier of the quote set. This should be the first entry in the repeating group.
►	367	QuoteSetValidUntilTime		N	Default time a quote entry in this quote set expires if one is not explicitly provided. This must be a time during the current day.
►	304	TotQuoteEntries		Y	Total number of quote entries for this quote set across all mass quote messages. The value in this field is expected to be the same as that in NoQuoteEntries (295) and is ignored by the server.
►	295	NoQuoteEntries		Y	Number of quote entries in the quote set.
►	►	299	QuoteEntryID	Y	Identifier of the quote entry which should be the first entry in the repeating group. The value in this field should always be "1".
►	►	55	Symbol	Y	Identifier of the instrument.
►	►	132	BidPx	N	Bid price. Required if BidSize (134) is specified.
►	►	133	OfferPx	N	Offer price. Required if OfferSize (135) is specified.
►	►	134	BidSize	N	Bid quantity. Required if BidPx (132) is specified.
►	►	135	OfferSize	N	Offer quantity. Required if OfferPx (133) is specified.
►	►	62	ValidUntilTime	N	Time during the current day that the quote expires.
Standard Trailer					

7.6.37.7.3 Quote Cancel

Tag	Field Name	Req	Description												
Standard Header															
35	MsgType	Y	Z = Quote Cancel												
Message Body															
1166	QuoteMsgID	Y	Client specified identifier of the message.												
30006	RFQID	N	The unique identifier assigned to the RFQ by the system for private negotiations. RFQ ID will be considered when the quote cancellation refers to a single quote. In all other scenario where cancellation implies a mass cancellation, the RFQ ID should be ignored.												
298	QuoteCancelType	Y	<p>Type of quote cancel request.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cancel for Instruments</td> </tr> <tr> <td>3</td> <td>Cancel for Underlyings</td> </tr> <tr> <td>4</td> <td>Cancel All Quotes</td> </tr> </tbody> </table>	Value	Meaning	1	Cancel for Instruments	3	Cancel for Underlyings	4	Cancel All Quotes				
Value	Meaning														
1	Cancel for Instruments														
3	Cancel for Underlyings														
4	Cancel All Quotes														
30001	OrderBook	N	<p>Identifier of the order book. Absence of this field is interpreted as Regular (1).</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Regular</td> </tr> <tr> <td>3</td> <td>Odd Lot</td> </tr> <tr> <td>6</td> <td>Early Settlement</td> </tr> <tr> <td>9</td> <td>Bulletin Board</td> </tr> <tr> <td>11</td> <td>Negotiated Trades</td> </tr> </tbody> </table>	Value	Meaning	1	Regular	3	Odd Lot	6	Early Settlement	9	Bulletin Board	11	Negotiated Trades
Value	Meaning														
1	Regular														
3	Odd Lot														
6	Early Settlement														
9	Bulletin Board														
11	Negotiated Trades														
1461	NoTargetPartyIDs	N	Number of parties. If specified, the value in this field should always be "1".												
►	1462	TargetPartyID	Identifier of the party the quote cancel relates to. Required if NoTargetPartyIDs (1461) is specified.												
►	1463	TargetPartyIDSource	Required if NoTargetPartyIDs (1461) is specified.												
►	1464	TargetParty Role	<p>Role of the TargetPartyID (1462). Required if NoTargetPartyIDs (1461) is specified.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary/Custom Code</td> </tr> <tr> <td>1</td> <td>Executing Firm</td> </tr> <tr> <td>37</td> <td>Contra Trader</td> </tr> <tr> <td>53</td> <td>Trading Mnemonic</td> </tr> </tbody> </table>	Value	Meaning	D	Proprietary/Custom Code	1	Executing Firm	37	Contra Trader	53	Trading Mnemonic		
Value	Meaning														
D	Proprietary/Custom Code														
1	Executing Firm														
37	Contra Trader														
53	Trading Mnemonic														

295	NoQuoteEntries			N	Number of instruments or underlyings for which quotes are to be cancelled. The value in this field may not be greater than <25>. Required if QuoteCancelType (298) is not Cancel All Quotes (4).
►	55	Symbol		N	Identifier of the instrument. Required if No QuoteEntries (295) is specified. Should be “[N/A]” if QuoteCancelType (298) is not Cancel for Instruments (1).
►	711	NoUnderlyings		N	Number of underlyings. If specified, the value in this field should always be “1”. Required if QuoteCancelType (298) is Cancel for Underlyings (3).
►	►	311	Underlying Symbol	N	Identifier of the underlying. Required if No Underlyings (711) is specified.
Standard Trailer					

7.6.47.7.4 **Quote Request**

Tag	Field Name	Req	Description										
Standard Header													
35	MsgType	Y	R = Quote Request										
Message Body													
131	QuoteReqID	Y	Client specified identifier of the RFQ.										
30006	RFQ ID	N	System generated unique identifier of the RFQ. Will be stamped when routing the Quote Request to the market maker/s.										
1171	PrivateQuote	N	Absence of this field should be interpreted as Public Quote (N). Value Meaning <table border="1"> <tr> <td>N</td> <td>Public Quote</td> </tr> <tr> <td>Y</td> <td>Private Quote</td> </tr> </table>	N	Public Quote	Y	Private Quote						
N	Public Quote												
Y	Private Quote												
30001	OrderBook	N	Identifier of the order book. Absence of this field is interpreted as Regular (1). Value Meaning <table border="1"> <tr> <td>1</td> <td>Regular</td> </tr> <tr> <td>3</td> <td>Odd Lot</td> </tr> <tr> <td>6</td> <td>Early Settlement</td> </tr> <tr> <td>9</td> <td>Bulletin Board</td> </tr> <tr> <td>11</td> <td>Negotiated Trades</td> </tr> </table>	1	Regular	3	Odd Lot	6	Early Settlement	9	Bulletin Board	11	Negotiated Trades
1	Regular												
3	Odd Lot												
6	Early Settlement												
9	Bulletin Board												
11	Negotiated Trades												

126	Expire Time			UTC time stamp of the time the quote negotiation process is terminated Will be in YYYYMMDD-HH:MM:SS format.
146	NoRelatedSym		Y	Value in this field should always be "1".
►	55	Symbol	Y	Identifier of the instrument.
►	54	Side	N	Side, if any, a one-sided RFQ is submitted for. Value Meaning _____ 1 _____ 2 Buy Sell
►	38	Order Qty	N	Quantity, if any, a one-sided RFQ is submitted for.
►	Component Block <Trading Mnemonic>		N	Identifier of the trading mnemonic.
Standard Trailer				

7.6.57.7.5 Quote Status Report

Tag	Field Name	Req	Description												
Standard Header															
35	MsgType	Y	AI = Quote Status Report												
Message Body															
1180	ApplID	Y	Identity of the partition.												
1166	QuoteMsgID	N	Client specified identifier of the quote, mass quote or quote cancel request the message relates to. Required unless the message is sent in response to a RFQ.												
131	QuoteReqID	N	Client specified identifier of the RFQ. Required if the message is sent in response to a RFQ.												
30006	RFQ ID	N	Unique identifier assigned to the RFQ negotiation session by the system.												
30007	BidID	N	The system generated unique ID for the Bid Side												
30008	OfferID	N	The system generated unique ID for the Offer Side												
298	QuoteCancel Type	N	If the message is sent in response to a Quote Cancel, the value specified in the Quote Cancel request. If the message is sent due to a quote cancellation done by the exchange, value will always be "1" (Cancel for symbols)												
297	QuoteStatus	Y	<p>Status of the quote, cancel request or RFQ.</p> <table> <thead> <tr> <th colspan="2">Value Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td><td>Accepted</td> </tr> <tr> <td>5</td><td>Rejected</td> </tr> <tr> <td>6</td><td>Removed from Market</td> </tr> <tr> <td>7</td><td>Expired</td> </tr> <tr> <td>17</td><td>Cancelled</td> </tr> </tbody> </table>	Value Meaning		0	Accepted	5	Rejected	6	Removed from Market	7	Expired	17	Cancelled
Value Meaning															
0	Accepted														
5	Rejected														
6	Removed from Market														
7	Expired														
17	Cancelled														
300	QuoteReject Reason	N	Code specifying the reason for the reject. Please refer to Section 10.2.1 for a list of reject codes. Required if QuoteStatus (297) is Rejected (5).												
58	Text	N	Text specifying the reason for the rejection or cancellation.												
60	TransactTime	Y	Time the message was generated.												
30001	OrderBook	N	<table> <thead> <tr> <th colspan="2">Value Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td><td>Regular</td> </tr> <tr> <td>3</td><td>Odd Lot</td> </tr> <tr> <td>6</td><td>Early Settlement</td> </tr> </tbody> </table>	Value Meaning		1	Regular	3	Odd Lot	6	Early Settlement				
Value Meaning															
1	Regular														
3	Odd Lot														
6	Early Settlement														

			9 Bulletin Board
			11 Negotiated Trades
126	Expiry Time	N	The time until which the quote negotiation process is valid
Component Block <Trading Mnemonic>		N	Value, if any, submitted with the quote or RFQ.
Standard Trailer			

7.6.67.7.6 Mass Quote Acknowledgement

Tag	Field Name	Req	Description														
Standard Header																	
35	MsgType	Y	b = Mass Quote Acknowledgement														
Message Body																	
1180	ApplID	N	Identity of the partition.														
117	QuoteID	Y	QuoteID (117) of the Mass Quote or QuoteMsgID (1166) of the Quote Cancel the message is sent in response to.														
Component Block <Trading Mnemonic>		N	Identifier of the trading mnemonic in the case of a response to a mass quote.														
301	QuoteResponseLevel	N	Value submitted in the mass quote. Required if response is to a mass quote.														
298	QuoteCancelType	N	Value submitted in the quote cancel request. Required if the message is sent in response to a Quote Cancel.														
297	QuoteStatus	Y	<p>Status of the mass quote or cancel request.</p> <table> <tr> <td>Value Meaning</td> </tr> <tr> <td>0</td> </tr> <tr> <td>5</td> <td>Accepted</td> </tr> <tr> <td></td> <td>Rejected</td> </tr> </table>	Value Meaning	0	5	Accepted		Rejected								
Value Meaning																	
0																	
5	Accepted																
	Rejected																
300	QuoteRejectReason	N	Code specifying the reason for the rejection. Please refer to Section 10.2.2 for a list of reject codes. Required if QuoteStatus (297) is Rejected (5).														
58	Text	N	Text specifying the reason for the rejection.														
30001	OrderBook	N	<table> <tr> <td>Value</td> <td>Meaning</td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>3</td> <td>Regular</td> </tr> <tr> <td></td> <td>Odd Lot</td> </tr> <tr> <td>6</td> <td>Early Settlement</td> </tr> <tr> <td>9</td> <td>Bulletin Board</td> </tr> <tr> <td>11</td> <td>Negotiated Trades</td> </tr> </table>	Value	Meaning	1		3	Regular		Odd Lot	6	Early Settlement	9	Bulletin Board	11	Negotiated Trades
Value	Meaning																
1																	
3	Regular																
	Odd Lot																
6	Early Settlement																
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11	Negotiated Trades																
296	NoQuoteSets	N	Number of quote sets. Required if the message is a response is to a mass quote.														

➡	302	QuoteSetID		N	Identifier of the quote set which should be the first entry in the repeating group. Required if NoQuoteSets (296) is specified.
➡	295	NoQuoteEntries		N	Number of quote entries in the quote set.
➡	➡	299	Quote EntryID	N	Identifier of the quote entry which should be the first entry in the repeating group. If specified, the value in this field will always be "1". Required if NoQuoteEntries (295) is specified.
➡	➡	55	Symbol	N	Identifier of the instrument. Required if NoQuoteEntries (295) is specified.
➡	➡	1167	Quote Entry Status	N	Status of the quote or cancel request for the quote entry. Required if NoQuoteEntries (295) is specified. Value Meaning 0 5 Accepted Rejected
➡	➡	368	Quote Entry Reject Reason	N	Code specifying the reason the quote or cancel request for the quote entry was rejected. Please refer to Section 10.2.240.2.2 for a list of reject codes. Required if QuoteEntry Status (1167) is Rejected (5).
Standard Trailer					

7.6.77.7.7 Quote Request Reject

Tag	Field Name	Req	Description												
Standard Header															
35	MsgType	Y	AG = Quote Request Reject												
Message Body															
1180	ApplID	N	Identity of the partition.												
131	QuoteReqID	N	Client specified identifier of the RFQ being rejected.												
30006	RFQ ID	Y	System generated identifier of the RFQ being rejected.												
658	QuoteRequest RejectReason	N	Code specifying the reason for the rejection. Please refer to Section 10.2.3 for a list of reject codes.												
58	Text	N	Text specifying the reason for the rejection.												
30001	OrderBook	N	<table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Regular</td> </tr> <tr> <td>3</td> <td>Odd Lot</td> </tr> <tr> <td>6</td> <td>Early Settlement</td> </tr> <tr> <td>9</td> <td>Bulletin Board</td> </tr> <tr> <td>11</td> <td>Negotiated Trades</td> </tr> </tbody> </table>	Value	Meaning	1	Regular	3	Odd Lot	6	Early Settlement	9	Bulletin Board	11	Negotiated Trades
Value	Meaning														
1	Regular														
3	Odd Lot														
6	Early Settlement														
9	Bulletin Board														
11	Negotiated Trades														
146	NoRelatedSym	Y	Value in this field should always be "1".												
➔	55	Symbol	Identifier of the instrument.												
➔	54	Side	Value submitted with the RFQ.												
➔	38	Order Qty	Value submitted with the RFQ.												
➔	Component Block <Trading Mnemonic>		N Value submitted with the RFQ.												
Standard Trailer															

7.6.87.7.8 Execution Report

Standard Header

35 MsgType Y 8 = Execution Report

Message Body

1180 ApplID Y Identity of the partition.

17 ExecID Y Server specified identifier of the message.

11	ClOrdID	Y	QuoteMsgID (1166) or QuoteID (117) of the message last used to update the quote entry.
278	MDEntryID	Y	Server specified public order identified or the order.
37			OrderID Y Server specified identifier of the executed side. With regards to private negotiations via RFQs functionality, if the Bid side is executed, this will be stamped with the Bid ID. If the Offer side is executed, this will be stamped with the Offer ID.
30006	RFQID	N	Server specified identifier of a private RFQ.
442	MultiLeg ReportingType	N	Type of instrument the message is generated for. Absence of field is interpreted as Trade of Single Instrument (1).
			Value Meaning
			1 Trade of Single Instrument
			2 Leg Trade of a Multi-Leg Instrument Trade
			3 Trade of a Multi-Leg Instrument
198	Secondary OrderID	N	Server specified identifier of the executed side of the quote entry for the multi-legged instrument. Required if MultiLegReportingType (442) is Individual Leg of Multi-Leg Security (2).
150	ExecType	Y	Reason the execution report was generated.
			Value Meaning
			4 Cancelled
			C Expired
			D Restated F
			Trade
			G Trade Correct
			H Trade Cancel
880	TrdMatchID	N	Identifier of the trade. Required if ExecType (150) is Trade (F), Trade Correct (G) or Trade Cancel (H).
1040	Secondary Trade ID	Y	Numeric trade ID assigned for the trade. Required if ExecType (150) is Trade (F), Trade Correct (G) or Trade Cancel (H).

19 ExecRefID N Reference to the execution being cancelled or corrected. Required if ExecType (150) is Trade Cancel (H) or Trade Correct (G).

378 Exec Restatement N Reason the order was restated. Required if Reason ExecType (150) is Restated (D).

Value Meaning

8 Market Option

54 Side Y Side of the quote that was executed.

Value Meaning

1 Buy
2 Sell

32 LastQty N Quantity executed in this fill. Required if ExecType (150) is Trade (F) or Trade Correct (G).

31 LastPx N Price of this fill. Required if ExecType (150) is Trade (F) or Trade Correct (G).

669 LastParPx N Price per unit of the trade. Required if LastPx (31) is specified and the trade is for a fixed income instrument quoted on price per unit or on discount rate or yield.

236 Yield N Implied yield of this fill. Required if LastPx (31) is specified and the trade is for a fixed income instrument quoted on percentage of par.

159 AccruedInterest Amt N Accrued Interest for a unit trade if executed on the current trading day. Multiplying this by the LastPx(31), if available, gives the Total Accrued Interest. May only apply for a Regular Coupon Bond or TIPS.

39 OrdStatus Y Current status of the executed side of the quote entry.

Value Meaning

0 New
1 Partially Filled
2 Filled
4 Cancelled
C Expired
E Pending Replace

151 LeavesQty Y Quantity available for further execution. Will be "0" if OrdStatus (39) is Filled (2), Cancelled (4) or Expired (C).

14 CumQty Y Will always be "0".

6 AvgPx N Average price of all fills for the quote side¹³.

¹³ This will be filled for private negotiations via RFQs as well.

55	Symbol	Y	Identifier of the instrument.
1917	CoverPrice N	The price that	was the best available price in the quote negotiation. Could refer to the price of this market maker's quote as well. Required if the EXR is sent to a market maker denoting a successful execution.

32021	ParPx	N	Converted clean price of a quote side's limit price. If computed, it will be on the BidPx (132) or OfferPx (133) of the quote side belonging to a fixed income instrument quoted on discount rate or yield. This will not be available for Mass Quotes												
30005	ConvertedYield	N	Converted yield value of a quote side's limit price. If computed, it will be on the BidPx (132) or OfferPx (133) of the quote side belonging to a fixed income instrument quoted on price per unit or on percentage-of-par . This will not be available for Mass Quotes												
30001	OrderBook	Y	<p>Identifier of the order book.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Regular</td> </tr> <tr> <td>3</td> <td>Odd Lot</td> </tr> <tr> <td>6</td> <td>Early Settlement</td> </tr> <tr> <td>9</td> <td>Bulletin Board</td> </tr> <tr> <td>11</td> <td>Negotiated Trades</td> </tr> </tbody> </table>	Value	Meaning	1	Regular	3	Odd Lot	6	Early Settlement	9	Bulletin Board	11	Negotiated Trades
Value	Meaning														
1	Regular														
3	Odd Lot														
6	Early Settlement														
9	Bulletin Board														
11	Negotiated Trades														
453	NoPartyIDs	N	Number of party identifiers.												
►	448	PartyID	<p>Identifier of the party.</p>												
►	447	PartyID Source	<p>Required if PartyID (448) is specified.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary/Custom Code</td> </tr> </tbody> </table>	Value	Meaning	D	Proprietary/Custom Code								
Value	Meaning														
D	Proprietary/Custom Code														
►	452	Party Role	<p>Role of the PartyID (448). Required if PartyID (448) is specified.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Executing Firm</td> </tr> <tr> <td>53</td> <td>Trading Mnemonic</td> </tr> <tr> <td>83</td> <td>Clearing Mnemonic</td> </tr> <tr> <td>17</td> <td>Contra Firm</td> </tr> </tbody> </table>	Value	Meaning	1	Executing Firm	53	Trading Mnemonic	83	Clearing Mnemonic	17	Contra Firm		
Value	Meaning														
1	Executing Firm														
53	Trading Mnemonic														
83	Clearing Mnemonic														
17	Contra Firm														
1	Account	N	Identifier of the investor account.												
581	AccountType	N	<p>Type of the investor account.</p> <table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>House</td> </tr> </tbody> </table>	Value	Meaning	3	House								
Value	Meaning														
3	House														
40	OrdType	Y	<table> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Limit</td> </tr> <tr> <td>1</td> <td>Market</td> </tr> </tbody> </table>	Value	Meaning	2	Limit	1	Market						
Value	Meaning														
2	Limit														
1	Market														

59	TimeInForce	Y	Time qualifier of the quote entry. Value Meaning 0 Day 2 At the Open 6 Good Till Date (GTD)
126	ExpireTime	N	Time the quote entry expires. Required if TimeInForce (59) is GTD (6).
18	ExecInst	N	Value submitted with the quote.
38	OrderQty	Y	Bid or offer size submitted with the last update for the quote entry.
44	Price	Y	Bid or offer price submitted with the last update for the quote entry.
1091	PreTrade Anonymity	N	Value submitted with the quote.
528	OrderCapacity	Y	Capacity of the quote entry. Value Meaning P Principal
60	TransactTime	Y	Time the transaction represented by the Execution Report occurred.
58	Text	N	Text specifying the reason for the expiration or cancellation.
32022	LastOptPx	N	Converted price of the executed volatility of the options instrument.
1188	Volatility	N	Converted volatility of the executed price of the options instrument.
Standard Trailer			

7.6.97.7.9 Quote Ack

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	CW = Quote Ack
Message Body			
1180	ApplID	Y	Identity of the partition
117	QuoteID	Y	Should be always set to 1.
1166	QuoteMsgID	N	Client specified identifier of the quote message for which the message is generated for.

30006	RFQID	Y	The unique identifier assigned to the RFQ by the system.
30007	BidID	N	With regards to private negotiations via RFQs functionality, the unique identifier assigned to the bid side of the quote.

30008	OfferID		N	With regards to private negotiations via RFQs functionality, the unique identifier assigned to the offer side of the quote.
453	NoPartyIDs		N	Number of party identifiers.
►	448	PartyID	N	Identifier of the party.
►	447	PartyID Source	N	Required if PartyID (448) is specified. Value Meaning D Proprietary/Custom Code
►	452	Party Role	N	Role of the party. Required if PartyID (448) is specified. Value Meaning 53 Trading Mnemonic
1865	QuoteAckStatus		Y	Value Meaning 1 Accepted 2 Rejected
300	QuoteRejectReason		N	Conditionally required if QuoteAckStatus(1865) is Rejected(2).
58	Text		N	Text specifying the reason for the rejection or cancellation.
60	TransactTime		Y	Time the message was generated.
30001	OrderBook		Y	Value Meaning 11 Negotiated Trades
Standard Trailer				

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	AJ = Quote Response
Message Body			
1180	ApplID	N	Identity of the partition
1166	QuoteMsgID	N	Client specified identifier of the quote message, in case the message was generated by the client. If the message is generated by the server, the client specified identifier of the quote message for which the message is generated for should be stamped. In this scenario it should only be stamped if sent for market makers w.r.t a specific quote only. Else will not be stamped.
30006	RFQID	Y	The unique identifier assigned to the RFQ by the system.

30007	BidID	N	The unique identifier of the bid side of the quote. When quote response is used to accept a quote, this field will be required if Side (54) is Buy(1).
-------	-------	---	--

7.6.107.7.10 Quote Response

30008	OfferID	N	The unique identifier of the offer side of the quote. When quote response is used to accept a quote, this field will be required if Side (54) is Sell(2).
131	QuoteReqID	Y	Client specified identifier of the RFQ. Required if the message is sent in response to a RFQ.
694	QuoteRespType	Y	<p>Value Meaning</p> <hr/> 1 Hit/Lift <hr/> 3 Expired <hr/> 4 Cover <hr/> 5 Done Away <hr/> 7 End Trade <hr/> 8 Timed Out <hr/> 9 Tied <hr/> 10 Tied Cover <hr/> 11 Cancelled <hr/> 12 Contra Side <hr/> 13 Done <hr/> 14 Withdrawn
55	Symbol	Y	Symbol of the Instrument.
38	OrderQty	N	Order quantity. Mandatory to be stamped if the message was sent by a client.
1917	Cover Price	N	The price that was the best available price in the quote negotiation.
44	Price	N	Bid or offer price. Mandatory to be stamped if the message was sent by a client.
54	Side	N	Side specified with the message this is a response to. <p>Value Meaning</p> <hr/> 1 Buy <hr/> 2 Sell
60	TransactTime	N	Time the message was generated.

			Y	Value Meaning
30001	OrderBook		Y	11 Negotiated Trades
453	NoPartyIDs		N	Number of party identifiers.
►	448	PartyID	N	Identifier of the party.
►	447	PartyID Source	N	Required if PartyID (448) is specified. Value Meaning D Proprietary/Custom Code
►	452	Party Role	N	Role of the party. Required if PartyID (448) is specified. Value Meaning 53 Trading Mnemonic
Standard Trailer				

7.77.8 Application Messages: Tailor-Made Instruments

7.77.8.1 Security Definition Request

Tag	Field Name	Req													
Standard Header			c = Security Definition Request												
35	MsgType	Y													
Message Body			Client specified identifier of the request.												
320	SecurityReqID	Y	Value Meaning												
321	Security Y	RequestType	1 Request Security Identity for the Provided Specifications												
461	CFICode	Y	<p>Indicates type of security. When creating a Strangles or Straddles as a user defined strategy, client can specify either OC or OP since these two types of strategies correspond to both Put and Call options by definition. (Unlike other strategies which corresponds to either a Future, Call option or Put option)</p> <table border="1"> <tr> <td>Value</td> <td>Meaning</td> </tr> <tr> <td>F</td> <td>Future</td> </tr> <tr> <td>OC</td> <td>Call</td> </tr> <tr> <td>Call</td> <td>Option</td> </tr> <tr> <td>Option</td> <td>OP</td> </tr> <tr> <td>Put</td> <td>Put</td> </tr> </table>	Value	Meaning	F	Future	OC	Call	Call	Option	Option	OP	Put	Put
Value	Meaning														
F	Future														
OC	Call														
Call	Option														
Option	OP														
Put	Put														
202	StrikePrice	N	Strike price of an options instrument. Required for options instruments. Value may only be shown up to 8 decimals.												
541	MaturityDate	N	Date an instrument expires. The date will be the local date (i.e. not in UTC) and will be specified in YYYYMMDD format. Required for futures, options and fixed income instruments.												
119 4	ExerciseStyle	N	<table border="1"> <tr> <td>Exercise style of an options instrument. Required for options instruments.</td> </tr> <tr> <td>Value</td> <td>Meaning</td> </tr> <tr> <td>0</td> <td>European</td> </tr> <tr> <td>1</td> <td>American</td> </tr> </table>	Exercise style of an options instrument. Required for options instruments.	Value	Meaning	0	European	1	American					
Exercise style of an options instrument. Required for options instruments.															
Value	Meaning														
0	European														
1	American														
762	SecuritySubType	Y	American												
711	NoUnderlying	N	Indicates the type of strategy for which the request is submitted. Please refer to Section 9 for the valid strategy types.												
►	311 UnderlyingSymb N ol		Number of underlying instruments that make up the instrument. If filled, should be set to 1. Required for futures and options.												
555	NoLegs	Y	Id of the underlying instrument. Conditionally required if NoUnderlying(711) is filled.												
►	600 LegSymbol	Y	Number of legs that make up the strategy.												

Identifier of the leg instrument.

Standard Trailer

7.7.27.8.2 Security Definition

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	d = Security Definition
Message Body			
320	SecurityReqID	Y	Identifier of the security definition request being accepted or rejected.
323	SecurityResponseType	Y	Status of the security definition request. Value Meaning 1 Accepted 5 Rejected
58	Text	N	Text specifying the reason for the rejection.
Component Block <Instrument>		N	Identifier and specifications of instrument. Required if SecurityResponseType (323) is Accepted (1).
Standard Trailer			

7.87.9 Application Messages: Market Data

7.8.17.9.1 News

Tag	Field Name		Req	Description										
Standard Header														
35	MsgType		Y	B = News										
Message Body														
1180	ApplID		Y	Identifier of the partition.										
42	OrigTime		Y	Time the announcement was published which will be specified in UTC and in the YYYYMMDD-HH:MM:SS format.										
61	Urgency		Y	<p>Level of urgency of the announcement.</p> <table> <tr> <td>Value Meaning</td> <td></td> </tr> <tr> <td>0</td> <td>Normal</td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td>Background (Low Priority)</td> </tr> <tr> <td></td> <td>Flash (High Priority)</td> </tr> </table>	Value Meaning		0	Normal	1		2	Background (Low Priority)		Flash (High Priority)
Value Meaning														
0	Normal													
1														
2	Background (Low Priority)													
	Flash (High Priority)													
148	Headline		Y	Headline or the subject of the announcement.										
33	NoLinesOfText		Y	Number of lines of text. The value in this field will always be "1".										
→ 58	Text		Y	Text of the announcement.										
→ 146	NoRelatedSym		N	Number of related instruments.										
→ → 55	Symbol	N	Unique identifier of the instruments. Required if NoRelatedSym(146) is specified.											
→ 711	NoUnderlyings		N	Number of related underlying instruments.										
→ → 311	Underlying Symbol	N	Unique identifier of the instruments. Required if NoUnderlyings(711) is specified.											
215	NoRoutingIDs		N	Number of repeating groups of RoutingID (217) and RoutingType (216) values. Specifies the number of recipients to whom the announcement message should be sent by the service bureau.										

➡	216	RoutingType	N	Indicates the type of RoutingID (217) specified. Required if NoRoutingIDs (215) is >0
Value Meaning				
		1		Firms
		10		Users
Standard Trailer				

7.97.10 Application Messages: Others

7.97.10.1 Business Message Reject

Tag	Field Name	Req	Description
Standard Header			
35	MsgType	Y	j = Business Message Reject
Message Body			
379	BusinessRejectRefID	N	Client specified identifier (e.g. ClOrdID, QuoteMsgID, etc.) of the rejected message if it is available.
45	RefSeqNum	Y	MsgSeqNum (34) of the rejected message.
372	RefMsgType	Y	MsgType (35) of the rejected message.
371	RefTagID	N	If a message is rejected due to an issue with a particular field its tag number will be indicated.
380	BusinessRejectReason	Y	Code specifying the reason for the rejection. Please refer to Section 10.3.2 for a list of reject codes.
58	Text	N	Text specifying the reason for the rejection.
Standard Trailer			

[7.107.11 Components of Application Messages](#)

[7.10.17.11.1 Trading Mnemonic](#)

Tag	Field Name		Req	Description
453	NoPartyIDs		N	Number of party identifiers.
►	448	PartyID	N	Identifier of the party. Required if NoPartyIDs (453) is specified.
►	447	PartyID Source	N	Required if PartyID (448) is specified. Value Meaning D Proprietary/Custom Code
►	452	Party Role	N	Role of the specified PartyID (448). Required if PartyID (448) is specified. Value Meaning 17 Contra Firm 37 Contra Trader 53 Trading Mnemonic 66 Market Makers (Firm IDs)

7.10.27.11.2 Instrument

Tag	Field Name	Req	Description
55	Symbol	Y	Identifier of the instrument.
461	CFICode	Y	Indicates type of security.
			Value Meaning
			F Future
			OC Call Option
			OP Put Option
762	SecuritySubType	Y	Indicates the type of strategy. Please refer to Section 9 for the valid strategy types.
541	MaturityDate	Y	Date the instrument expires.
1194	ExerciseStyle	N	Exercise style of an options instrument. Required for options instruments.
			Value Meaning
			E European
			A American
711	NoUnderlying	N	Number of underlying instruments that make up the instrument. If filled, should be set to 1.
►	309	UnderlyingSecurityId	Id of the underlying instrument. Conditionally required if NoUnderlying(711) is filled.
►	305	UnderlyingSecurityIdSource	Conditionally required if NoUnderlying(711) is filled.
			Value Meaning
			8 Exchange Symbol
555	NoLegs	Y	Number of legs that make up the strategy.
►	600	LegSymbol	Identifier of the leg instrument. This should be the first field in the repeating group.
►	608	LegCFICode	Instrument type of leg. Required for futures and options instruments.
			Value Meaning
			F Future

				OC Call Option
				OP Put Option
►	611	LegMaturityDate	N	Date the leg expires. Required for futures and options instruments.
►	612	LegStrikePrice	N	Strike price of leg. Required for options instruments.

►	623	LegRatioQty		N	Quantity of this leg relative to that of the other legs.
►	624	LegSide		N	Side this leg represents from the point of view of the purchaser of the strategy.
					Value Meaning
				1	Buy
				2	Sell
►	1342	NoOfLeg Underlyings		N	Number of underlyings for the leg. If specified, the value in this field will always be "1". Required for futures and options instruments.
►	►	1330	Underlying Leg Symbol	N	Identifier of the leg's underlying. Required if NoOfLegUnderlyings (1342) is specified.

8 SEGMENTS

Segment	Description
Main	Main Board
Secondary	Secondary Board
Default	Default Board
<Specify>	<Specify>
<Specify>	<Specify>

9 SUPPORTED STRATEGIES

The types of derivative strategies supported by NSE are given below. Information for the legs is specified from the point of view of an order to purchase the strategy. All legs are derivatives based on the same underlying.

Type	Security SubType	Legs Specifications
Calendar Spread	CS	<u>Leg 1</u> <i>Instrument: Futures contract</i> <i>Side: Buy</i> <i>Ratio Quantity: 1</i> <u>Leg 2</u> <i>Instrument: Futures contract that expires after the Leg 1 futures contract</i> <i>Side: Sell</i> <i>Ratio Quantity: 1</i>
Butterfly	BF	<u>Leg 1</u> <i>Instrument: Futures contract</i> <i>Side: Buy</i> <i>Ratio Quantity: 1</i> <u>Leg 2</u> <i>Instrument: Futures contract that expires after the Leg 1 futures contract</i> <i>Side: Sell</i> <i>Ratio Quantity: 2</i> <u>Leg 3</u> <i>Instrument: Futures contract that expires after the Leg 2 futures contract</i> <i>Side: Buy</i> <i>Ratio Quantity: 1</i>
Condor	CD	<u>Leg 1</u> <i>Instrument: Futures contract</i> <i>Side: Buy</i> <i>Ratio Quantity: 1</i> <u>Leg 2</u> <i>Instrument: Futures contract that expires after the Leg 1 futures contract</i> <i>Side: Sell</i> <i>Ratio Quantity: 1</i> <u>Leg 3</u> <i>Instrument: Futures contract that expires after the Leg 2 futures contract</i> <i>Side: Sell</i> <i>Ratio Quantity: 1</i> <u>Leg 4</u> <i>Instrument: Futures contract that expires after the Leg 3 futures contract</i> <i>Side: Buy</i> <i>Ratio Quantity: 1</i>
Call Spread	OCS	<u>Leg 1</u> <i>Instrument: Call option</i> <i>Side: Buy</i> <i>Ratio Quantity: 1</i> <u>Leg 2</u> <i>Instrument: Call option for the same expiration date as the Leg 1 option but a higher strike price</i> <i>Side: Sell</i> <i>Ratio Quantity: 1</i>

Type	Security SubType	Legs Specifications
------	------------------	---------------------

<i>Put Spread</i>	OPS	<p><u>Leg 1</u> <i>Instrument: Put option Side: Buy Ratio Quantity: 1</i></p> <p><u>Leg 2</u> <i>Instrument: Put option for the same expiration date as the Leg 1 option but a lower strike price Side: Sell Ratio Quantity: 1</i></p>
<i>Call Calendar Spread</i>	OCCS	<p><u>Leg 1</u> <i>Instrument: Call option Side: Buy Ratio Quantity: 1</i></p> <p><u>Leg 2</u> <i>Instrument: Call option for the same strike price as the Leg 1 option but an earlier expiration date Side: Sell Ratio Quantity: 1</i></p>
<i>Put Calendar Spread</i>	OPCS	<p><u>Leg 1</u> <i>Instrument: Put option Side: Buy Ratio Quantity: 1</i></p> <p><u>Leg 2</u> <i>Instrument: Put option for the same strike price as the Leg 1 option but an earlier expiration date Side: Sell Ratio Quantity: 1</i></p>
<i>Straddle</i>	OSD	<p><u>Leg 1</u> <i>Instrument: Call option Side: Buy Ratio Quantity: 1</i></p> <p><u>Leg 2</u> <i>Instrument: Put option for the same strike price and expiration date as the Leg 1 option Side: Buy Ratio Quantity: 1</i></p>
<i>Strangle</i>	OSG	<p><u>Leg 1</u> <i>Instrument: Put option Side: Buy Ratio Quantity: 1</i></p> <p><u>Leg 2</u> <i>Instrument: Call option for the same expiration date as the Leg 1 option but a higher strike price Side: Buy Ratio Quantity: 1</i></p>

10 REJECT CODES

Order

10.1 Handling Execution

10.1.1 Report

OrdRej Reason	Meaning
2	Exchange closed
3	Order exceeds limit (i.e. rejected by risk system)
5	Unknown order
6	Duplicate order (i.e. duplicate CIOrdID)
16	Price exceeds current price band

Please refer to the [*<Reject Code Specification>*](#) for the list of reject codes and meanings specific to [NSE](#).

10.1.2 Order Cancel Reject

CxIRej Reason	Meaning
1	Unknown order
6	Duplicate CIOrdID
8	Price exceeds current price band

Please refer to the [*<Reject Code Specification>*](#) for the list of reject codes and meanings specific to [NSE](#).

10.1.3 Order Mass Cancel Report

Mass Cancel Reject Reason	Meaning
1	Unknown instrument
2	Unknown underlying

Please refer to the [*<Reject Code Specification>*](#) for the list of reject codes and meanings specific to [NSE](#).

10.2 Quote

Handling

Quote Status

10.2.1 Report

Quote Reject Reason	Meaning
1	Unknown instrument
2	Exchange closed
3	Quote exceeds limit (i.e. rejected by risk system)
6	Duplicate quote (i.e. duplicate QuoteMsgID (1166))
7	Invalid bid/ask spread
8	Invalid BidPx (132) or OfferPx (133)
9	Trading mnemonic not registered to quote instrument
10	Price exceeds current price band

Please refer to the [*<Reject Code Specification>*](#) for the list of reject codes and meanings specific to [NSE](#).

10.2.2 Mass Quote Acknowledgement

Quote Reject Reason	Meaning
1	Unknown instrument
2	Exchange closed
3	Quote exceeds limit (i.e. rejected by risk system)
6	Duplicate quote (i.e. duplicate QuoteMsgID (1166))

7	Invalid bid/ask spread
8	Invalid BidPx (132) or OfferPx (133)
9	Trading mnemonic not registered to quote security
10	Price exceeds current price band

The above reject codes apply to both the QuoteRejectReason (300) and QuoteEntryRejectReason (368) fields of the [Mass Quote Acknowledgement](#). Please refer to the [*<Reject Code Specification>*](#) for the list of reject codes and meanings specific to [NSE](#).

10.2.3 Quote Request Reject

Quote Request Reject Reason	Meaning
1	Unknown instrument
2	Exchange closed
6	Unauthorized to submit a RFQ

Please refer to the [*<Reject Code Specification>*](#) for the list of reject codes and meanings specific to [NSE](#).

10.3 Others

10.3.1 Reject

Session Reject Reason	Meaning
1	Required tag missing ¹⁴
2	Tag not defined for this message type ¹⁵
4	Tag specified without a value
5	Value is incorrect (out of range) for this tag
6	Incorrect data format for value
9	CompID problem
10	SendingTime accuracy problem
11	Invalid MsgType ¹⁶
13	Tag appears more than once

¹⁴ This reject reason is sent when required tags for the message are not present in a message that is recognized by the gateway. The exception to this is when SendingTime and OrigSendingTime tags are not present in a message. In these two cases, the system responds with reject reason 'Required SendingTime field missing' and 'Conditionally required OrigSendingTime field missing' respectively.

¹⁵ Delete this reject reason if the configuration to reject unknown fields in application messages is disabled.

¹⁶ This reject reason is sent when a message that is not defined in the FIX data dictionary is received by the gateway

14	Tag specified out of required order
15	Repeating group fields out of order
16	Incorrect NumInGroup count for repeating group
18	Invalid or unsupported application version
99	Other

10.3.2 Business Message Reject

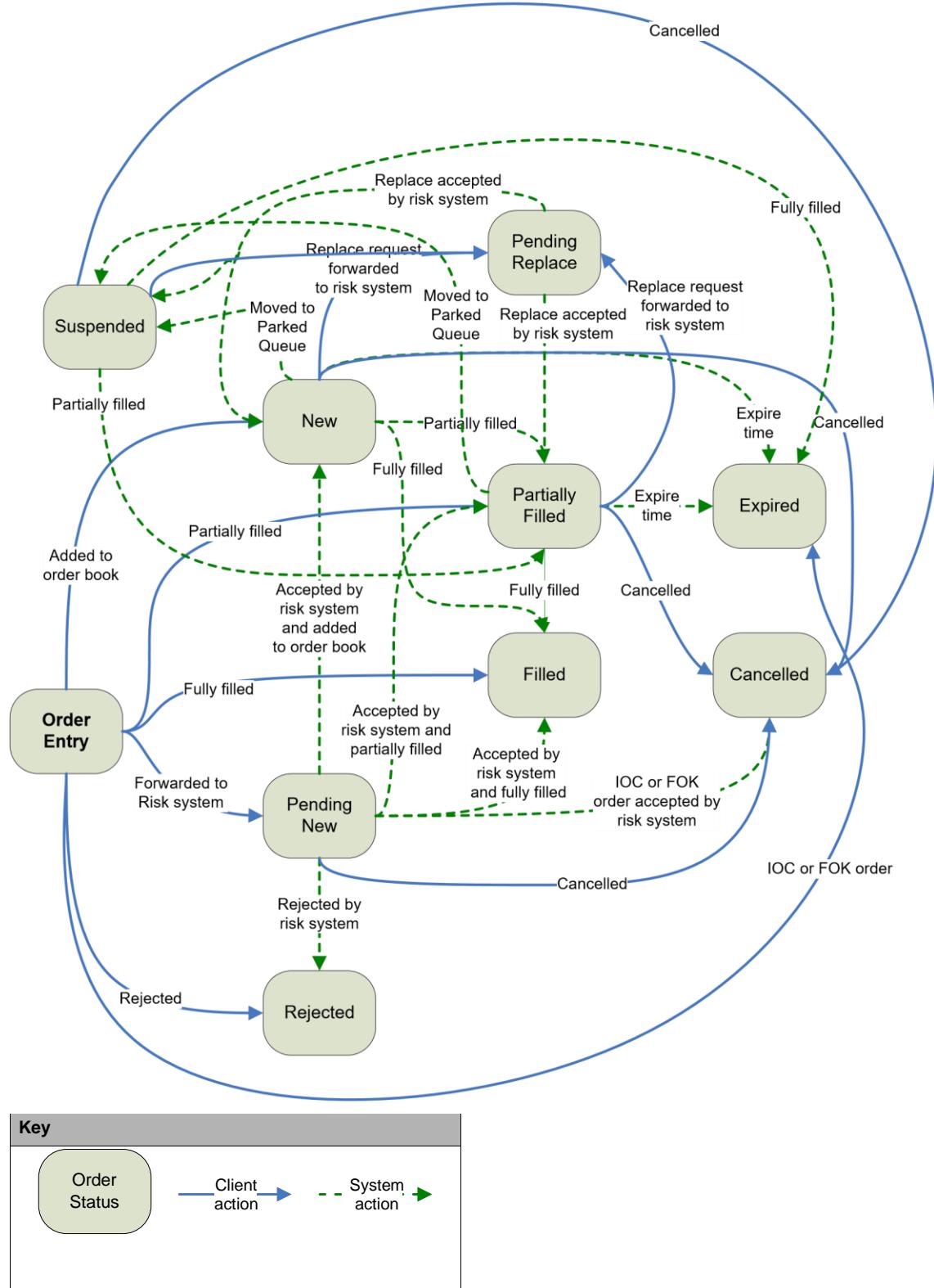
Business Reject Reason	Meaning
0	Other
2	Unknown instrument
3	Unsupported message type ¹⁷
4	Application not available
5	Conditionally required field missing
30	Session not established

¹⁷ This reject reason is sent when the received message is not defined as a valid message for the Trading Gateway

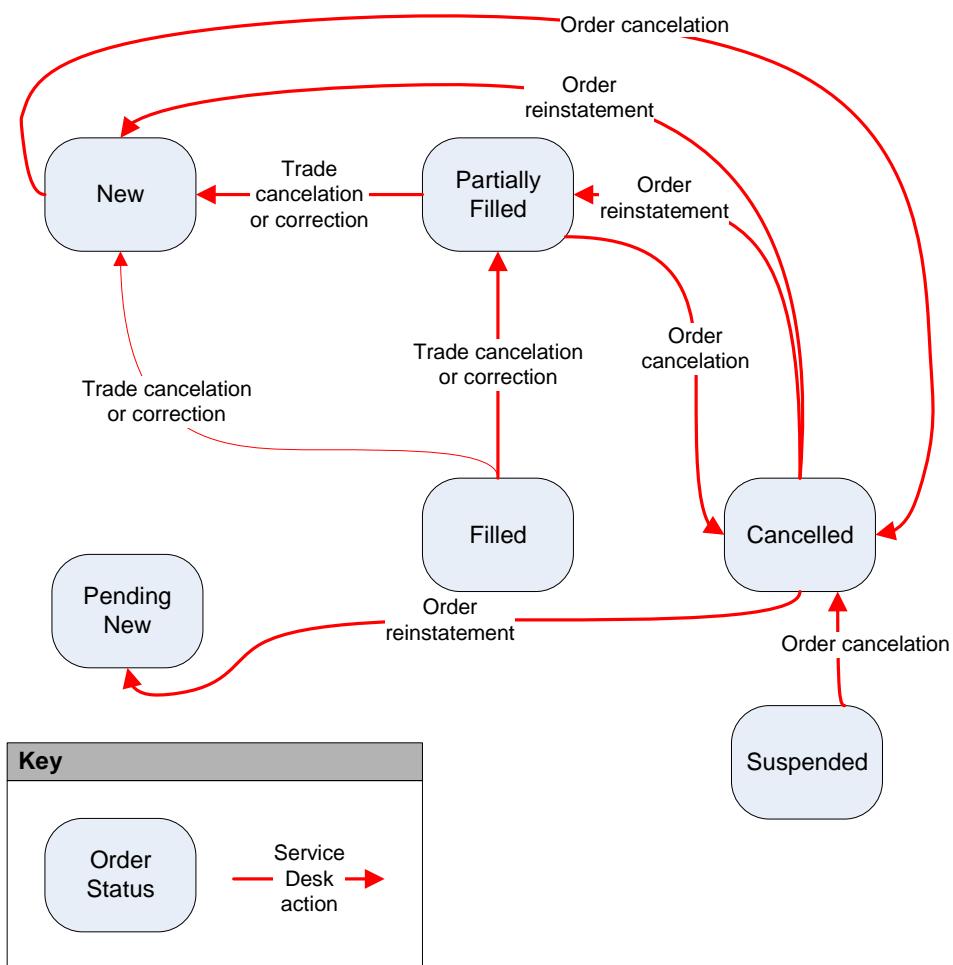
11 PROCESS FLOWS

11.1 Order Handling

11.1.1 Order Status Changes

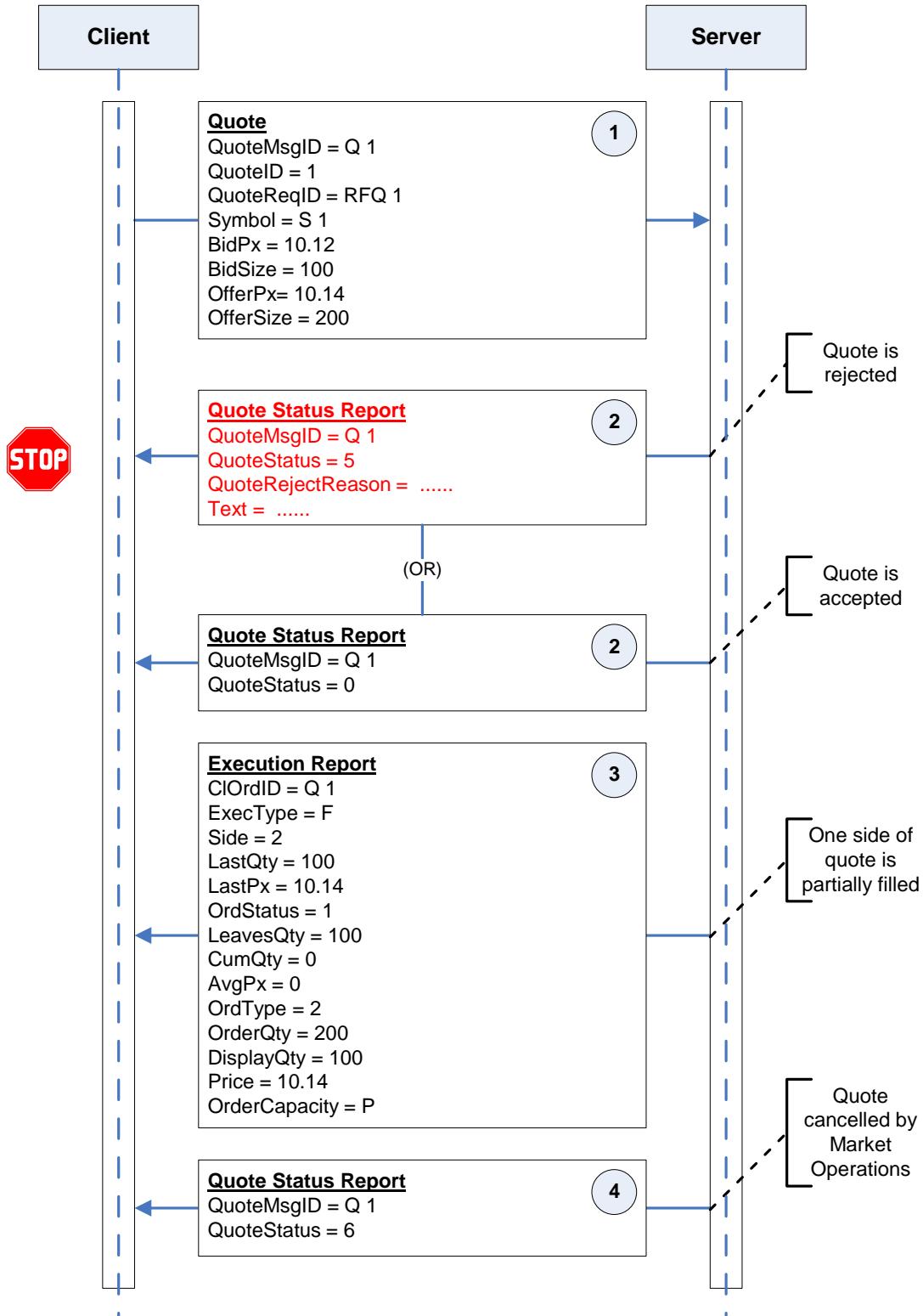


11.1.1.1 Market Operations Actions



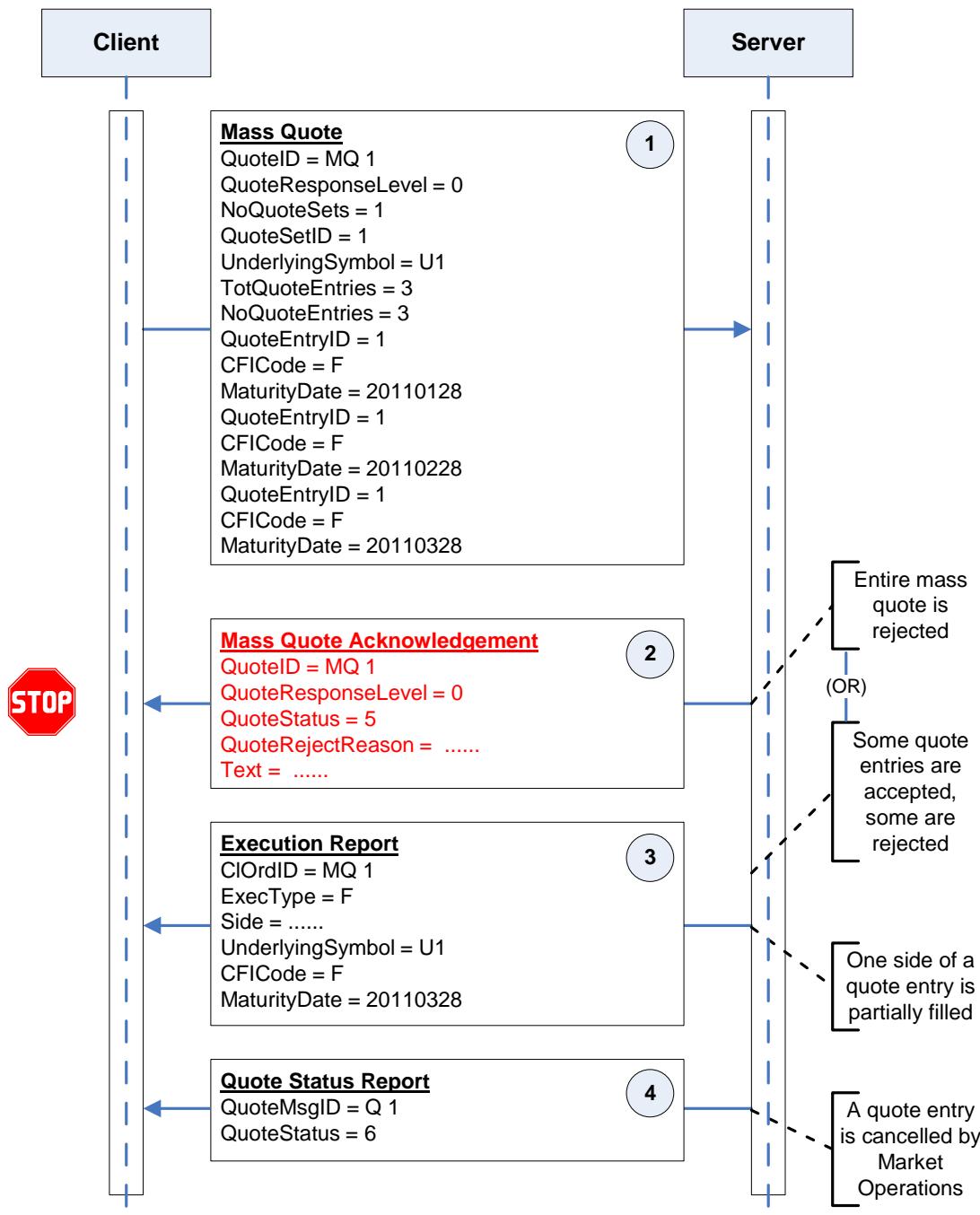
11.2 Quote Handling

11.2.1 Single Quotes

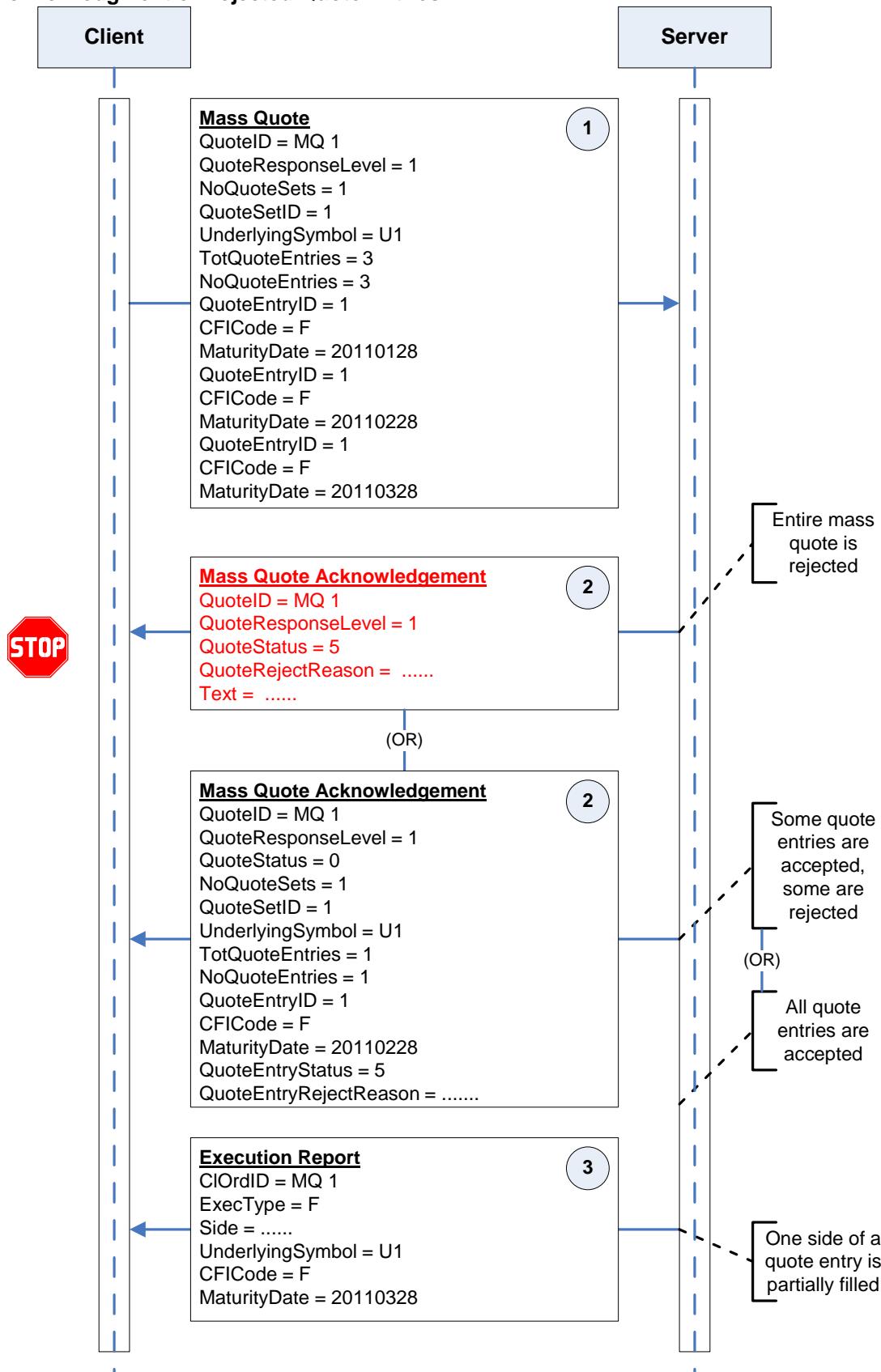


11.2.2 Mass Quotes

11.2.2.1 No Acknowledgement



11.2.2.2 Acknowledgment of Rejected Quote Entries

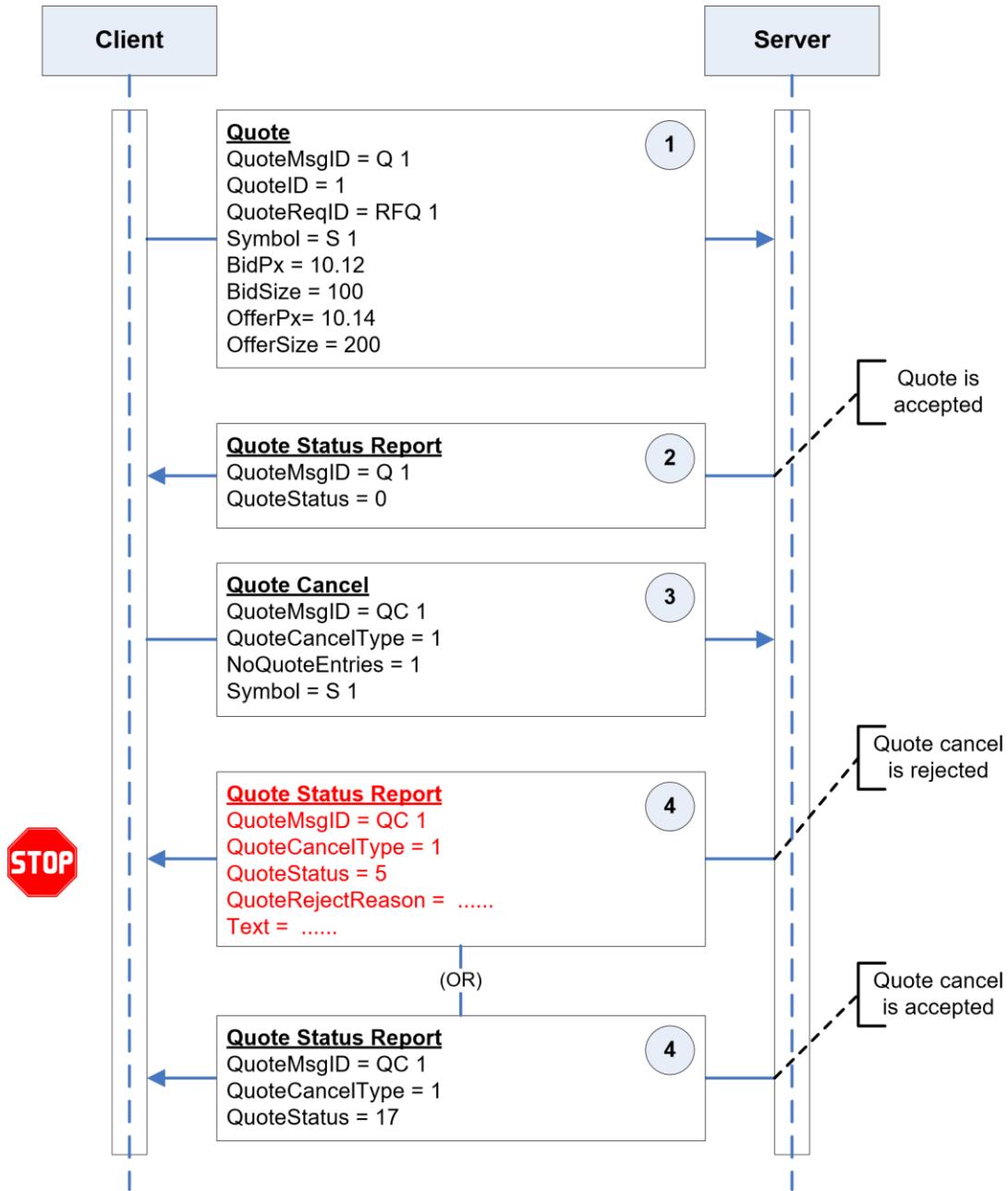


11.2.2.3 Acknowledgment of Each Quote Entry

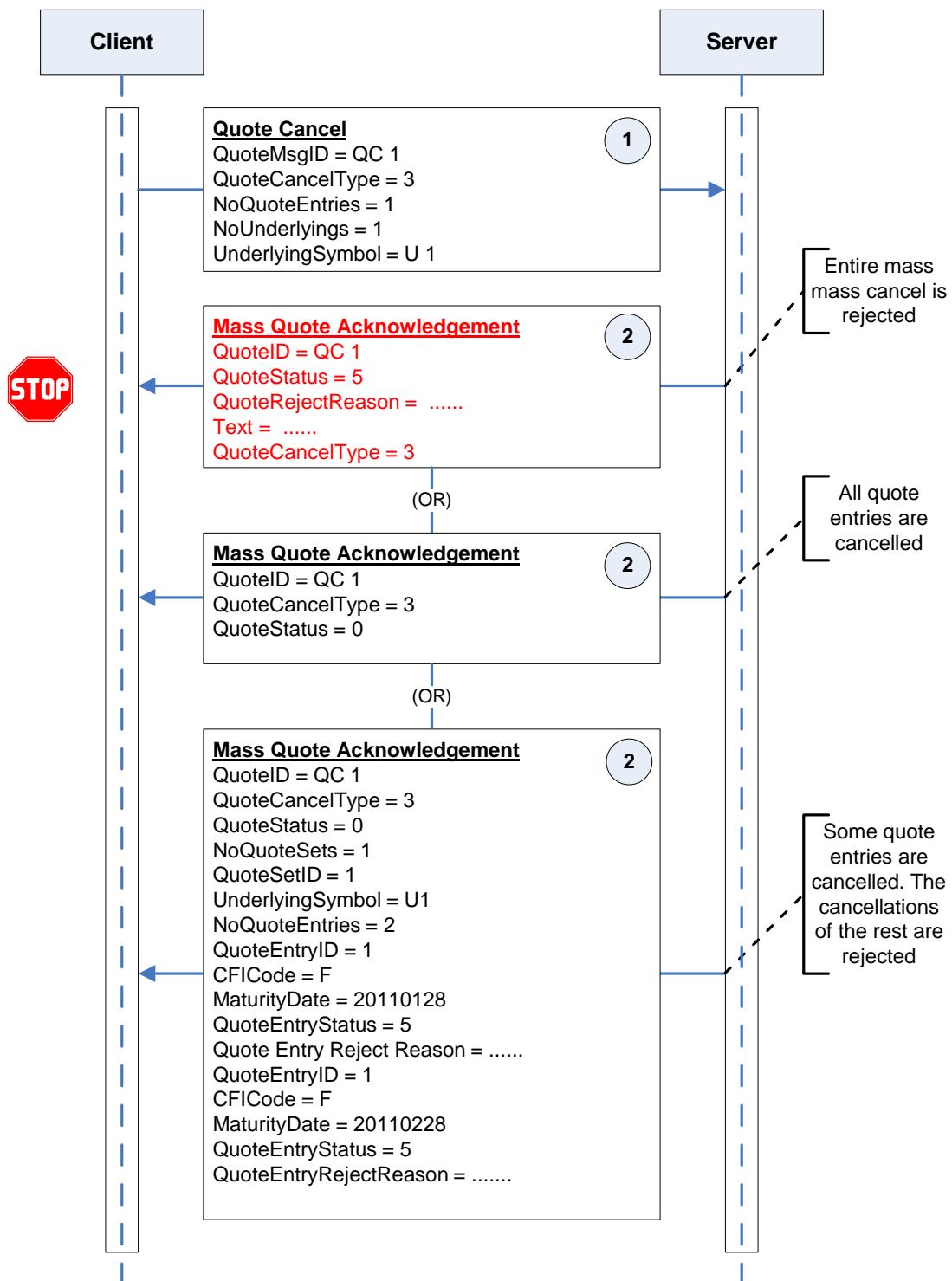


11.2.3 Quote Cancellation

11.2.3.1 Cancellation of a Single Quote

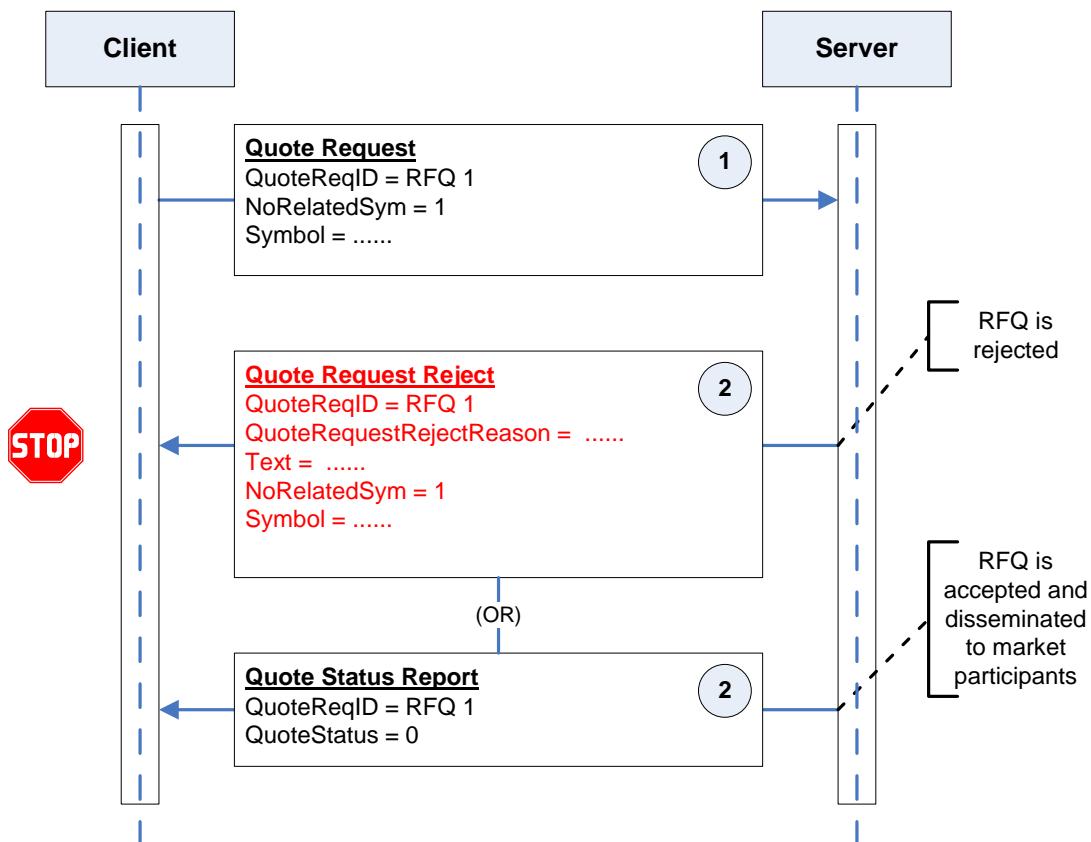


11.2.3.2 Mass Cancellation of Quotes



11.2.4 Request for Quote

11.2.4.1 Public Requests for Quotes



11.2.4.2 Private Requests for Quotes



