

LSE 24_MIT 203 – NATIVE TRADING GATEWAY

Issue 1.0

Effective from 19 October 2026



**LONDON
STOCK
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Disclaimer

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1.0 Introduction

LSE 24 provides a Native Trading Gateway as a low latency connectivity solution.

The interface is a point-to-point service based on the TCP/IP standard.

1.1 Purpose

The purpose of this document is to provide an overview of the full range of services via the Native Trading Gateway Interface available on the Millennium Exchange.

1.2 Readership

This document outlines how to connect to the Native Trading Gateway and the detailed message types and fields used.

When read in conjunction with the message specifications, it is intended that these documents provide all of the details directly connected London Stock Exchange customers require to develop to the new services.

This document is particularly relevant to trading and technical staff within the Exchange's member firms, and other market participants interested in developing to London Stock Exchange's Native Trading Gateway.

1.3 Document series

This document is part of series of documents providing a holistic view of full trading and information services available from London Stock Exchange following the migration to Millennium Exchange.

The current series of documents are set out below:

- MIT201 – Guide to the New Trading System •
 - LSE24_MIT202 – FIX Trading Gateway Specification (FIX 5.0)
 - **LSE24_MIT203 – Native Trading Gateway Specification (this document)**
 - LSE24_MIT204 – Post Trade Gateway (FIX 5.0) Specification
 - LSE24_MIT205 – Drop Copy Gateway (FIX 5.0) Specification
- MIT301 – Guide to Market Data Services
 - MIT304 – Regulatory News Service Specification
- MIT401 – Reference Data Service Specification
- MIT501 – Guide to the Customer Testing Services
- MIT502 – Guide to Application Certification
- MIT503 – Certification Report
- MIT601 – Guide to Trading Services Disaster Recovery
- MIT701 – Guide to Sponsored Access
- MIT801 – Reject Codes

This series principally covers non-regulatory information. It does not override or supersede the Rules of London Stock Exchange, the AIM Rules or Admission and Disclosure Standards and is intended to be read in conjunction with these Rules documents and the Millennium Exchange Parameters documents.

The latest version of this document series can be found at the following link:

<http://www.londonstockexchange.com/products-and-services/millennium-exchange/technicalinformation/technicalinformation.htm>

1.4 Document history

This document has been through the follow iterations:

Issue	Date	Description
1.0	19 October 2026	First version for LSE 24
		Section 11.0 has been added to summarize the key differences between the LSE main market and LSE 24

Within this document, where amendments have been made to the previous issue, these will be identified by highlighting the changes in **Red**.

1.5 Enquiries

Please contact either the Technical Account Management Team or your Technical Account Manager if you have any questions about the Millennium Exchange services outlined in this document. Client Technology Services (UK) can be contacted at:

- Telephone: +44 (0)20 7797 3939
- Email: londontam@lseg.com

2.0 Service overview

London Stock Exchange offers a low latency native trading interface which allows member firms to send and manage their trading interest. The interface enables clients to perform the following activities:

(a) Order handling

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

(b) Quote handling

- (vii) Submit and update a 'Request For Quote' (RFQ)
- (viii) Submit and update a quote
- (ix) Cancel a quote
- (x) Mass cancel quotes

The interface is a point-to-point service based on the TCP/IP standard.

3.0 Service description

3.1 System architecture

The Native Trading Gateway consists of two channels. A Real Time Channel, which provides the main order management functionality, and a Recovery Channel that allows clients to subscribe to missed messages due to disconnection from the Real Time Channel.

3.2 Order handling

3.2.1 Order types

Clients may submit the order types outlined below via the New Order message.

Order Type	Description
Market	An order that will execute at the best available prices until it is fully filled. Any remainder will be expired.
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.
Stop	A market order that remains inactive until the market reaches a specified stop price.
Stop Limit	A limit order that remains inactive until the market reaches a specified stop price.
Fixed Peak 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.
Random Replenished Iceberg	An order that contains a disclosed quantity that will be the maximum quantity displayed in the order book. Once the displayed quantity is reduced to zero, the replenishment quantity will be randomly determined within a pre-defined percentage
Hidden	An order that contains no displayed quantity and is not displayed in the order book.
Named	An order for which the identity of the submitting member is disclosed in the pre-trade market data feed.

3.2.1.1 Time in Force (TIF)

The server recognizes the following TIFs:

Time in Force	Description
Day	An order that will expire at the end of the day.
Immediate or Cancel (IOC)	An order that will be executed on receipt and the remainder, if any, immediately cancelled.
Fill or Kill (FOK)	An order that will be fully executed on receipt or immediately cancelled.

3.2.1.2 Order capacity

Clients are responsible for indicating the capacity an order is submitted under. If a New Order – Single message does not contain the Order Capacity field, it will be rejected. Further details can be found in [section 3.12.2](#).

3.2.2 Order management

3.2.2.1 Order ownership

Orders are the legal responsibility of the user specified in the logon message which initiates the session. A user is unable to input orders on behalf of another user.

3.2.2.2 Cancellation

An Order Cancel Request message has to be submitted by the same user who submitted the original order. If an Order Cancel Request is submitted by another user, the cancel request will be rejected.

The client should identify the order being cancelled by either the Original Client Order ID or Order ID. If an Order Cancel/Request contains values for both Original Client Order ID and Order ID, the server will only process the Order ID. The server will respond with an Execution Report or Order Cancel Reject to confirm or reject the cancellation request respectively.

3.2.2.3 Mass cancellation

A client may mass cancel live orders via the Order Mass Cancel Request message with the OrdSubType set to Order (0). The server will respond with an Order Mass Cancel Report to indicate, via the MassCancelResponse field, whether the request is successful or not.

If the mass cancel request is accepted, the Order Mass Cancel Report will be sent first. The server will then immediately transmit Execution Reports for each order that is successfully cancelled and Order Cancel Rejects for each order that could not be cancelled. The Client Order ID of all such messages will be the Client Order ID of the Order Mass Cancel Request.

If the mass cancel request is rejected, the reason will be specified in the MassCancelRejectReason 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 or segment or client specified group of orders. A mass cancel request may apply to all the orders of the trading firm or only to those of a particular trading party. If the target party is not specified, the server will apply the request to the orders of the trading party that the Order Mass Cancel Request is submitted under.

A mass cancel request sent in by the Native Trading Gateway or the FIX Gateway may cancel orders submitted through both gateways. In such a case, the execution reports for the order cancellation will be sent to the gateway through which each order was submitted.

In a scenario where the Order Mass Cancel Request message is submitted by a different user from the user who submitted the original orders, the Execution Reports will be sent to the submitted user, whereas the Order Mass Cancel Report will be sent to the cancelling user. If the user mass cancelling orders does not have permissions to cancel orders on behalf of the firm, the mass cancel request will be rejected.

3.2.2.4 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. Minimum Execution Size (Minimum Quantity)
- iv. Limit price
- v. Stop price
- vi. Account

The following amendments are **not** allowed:

- i. Fully visible order to a hidden order
- ii. Hidden order to an iceberg or fully visible order
- iii. Iceberg to a hidden order
- iv. Limit order to an offset order and vice versa
- v. **Given that Offset order type and GTT, GTD validity types are out of scope, the following amendments should not be performed on LSE 24.**
 - i. **Expiration date/time (GTD/GTT orders)**
 - ii. **Group ID**
 - iii. **Offset**

For attributes the client wishes to update, the new values should be entered on the Order Cancel/Replace Request message. For attributes the client does not want to update, the Order Cancel/Replace Request message should contain the same value as the live version of the order. The Group ID can be set to zero if the client does not want to change the grouping of the order.

For Market and Stop orders, the Limit Price field should be filled with a negative value.

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

An Order Replace Request message has to be submitted by the same user who submitted the original order. If an Order Replace Request is submitted by another user, the replace request will be rejected.

The client should identify the order being amended by either the Original Client Order ID or Order ID. If an Order Cancel/Replace Request contains values for both Original Client Order ID and Order ID, the server will only process the Order ID.

Clients may not amend orders that are fully filled.

When an order receives one or more fills while an amendment request is in flight, the system will not reject the incoming amendment request. Even if the amendment request has a display quantity greater than the order leaves quantity after the partial fill. It will accept the said amendment request and set the display quantity equal to the leaves quantity.

3.2.3 Order status

The Order status 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 Order status. The relevant order statuses are given below from the highest to lowest precedence:

Value	Meaning
2	Filled
4	Cancelled
6	Expired
1	Partially Filled
0	New
8	Rejected
9	Suspended

Please refer to [section 9.1.1](#) process flow diagrams on the various statuses that may apply to an order.

3.2.4 Execution reports

The Execution Report message is used to communicate many different events to clients. The events are differentiated by the value in the Exec Type field as outlined below.

Exec Type	Usage	Order 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 the service desk on behalf of the client. This message will also be sent when a parked order is injected and added to the order book without receiving an execution. This message will also be sent when a parked pegged order is unparked and added to the order book without receiving an execution. Pegged orders are not in scope for LSE 24.	0
8	Order Rejected Indicates that an order has been rejected. The reason for the rejection is specified in the field Order Reject Code.	8
F	Order Executed Indicates that an order has been partially or fully filled. The execution details (e.g., price and quantity) are specified. This message will also be sent when a parked order is injected and receives executions on aggression. This message will also be sent when a parked pegged order is unparked and receives executions on aggression. Pegged orders are not in scope for LSE 24.	1, 2
C	Order Expired Indicates that an order has expired in terms of its time qualifier or due to an execution limit or due to the preference given by the user for Self Execution Prevention ¹ criteria (If SEP is configured as either CIO or CRO).	6
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.	4
5	Order Cancel/Replaced Indicates that an order cancel/replace request has been accepted and successfully processed.	0, 1
D	Order Cancel/Replace by Service Desk This is sent when: <ul style="list-style-type: none"> – Market Operations cancel a trade that previously partially filled the order or quote – An order price/size is changed by the system without being requested by the participants – When there is an iceberg order replenishment, which happens after an aggressing order has fully exhausted first the visible, and then any hidden quantities of passive iceberg orders. 	0, 1

¹.

– Cancel Incoming Order (CIO), leaves the resting order
 Cancel Resting Order (CRO), allows the incoming order to be executed/rest

Exec Type	Usage	Order Status
H	Trade Cancel Indicates that an execution has been cancelled. An Execution Report Ref ID to identify the execution being cancelled will be included.	0, 1, 4, 6
9	Order Suspended Indicates that an order has been parked by the system without adding it to the order book. This message will be sent when an incoming stop or stop limit order is put in to the parked state. This message will be sent when an incoming pegged order is put into the parked state. Pegged orders are not in scope for LSE 24.	9

3.2.5 Order and Execution IDs

The server does not validate each Client Order ID for uniqueness. However, it is recommended that clients ensure unique Client Order IDs across all messages (e.g., New Order, Order Cancel Request, etc...) per user.

Clients must specify the Client Order ID when submitting a New Order, Order Cancel Request, Order Mass Cancel Request or Order Cancel/Replace Request.

3.2.5.1 Order IDs

The server will use the Order ID field of the Execution Report to keep track of orders with the matching system. Order IDs will be unique across trading days.

Unlike Client Order ID, which requires a chaining through cancel/replace requests and cancel requests, the Order ID of an order will remain constant throughout its life.

Clients have the option of specifying the Order ID (instead of the Original Client Order ID) when submitting an Order Cancel Request or Order Cancel/Replace Request.

3.2.5.2 Execution IDs

The server will use the ExecID field to affix a unique identifier for each Execution Report. ExecIDs will be unique across trading days.

3.3 RFQ handling

3.3.1 Submitting and amending RFQ Quotes

A trading party may have two independent RFQ quotes per RFQ, one per side. If a second quote is sent for the same side, the server will treat it as an update to the original quote. However, for a single RFQ, a trading party may not have both a dual sided quote and another single sided quote.

3.3.2 Cancelling a RFQ quote

A live quote may be cancelled via a single Order Cancel Request message. Clients can specify either side of the quote to be cancelled. The server will respond with a Quote Ack message to confirm the acceptance of a quote cancellation. A Order Cancel Reject message will be sent if the cancellation request gets rejected.

LSE 24 does not support executable quotes, and firm quotes are not supported via the Native Gateway.

3.4 Security identification

Instruments may be identified by the Instrument ID assigned by the Exchange to each security. The application messages transmitted by the server will always contain the Instrument ID.

3.5 Market Operations

3.5.1 Order deletion

Market Operations is able to delete an order on behalf of a client.

The client will be notified of the order deletion submitted on its behalf if and when it is accepted. The client will not be notified if the action is rejected. If the cancellation is accepted, the disseminated Execution Report will not be assigned a new Client Order ID.

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

3.5.2 Trade cancellations

Market Operations may also cancel any (automatically executed) trade. Additionally, participants may cancel their own trades. Execution Reports will be sent to the relevant clients to notify them of a trade cancellation.

If an execution resulting from an order is cancelled, the order will be restated to reduce its order quantity by the cancelled quantity. The client will receive two notifications in such a scenario; one for the trade cancel and another for the order restatement.

If an execution resulting from a quote is cancelled, the quote will be restated to reduce its order quantity by the cancelled quantity. The client will receive two notifications in such a scenario; one for the trade cancel and another for the restatement.

3.6 Conditionally required fields

All fields that are not conditionally required will be ignored by the server (e.g., Stop Price field will be ignored for Limit and Market orders).

3.7 Timestamps and dates

ExpireDateTime should be in Unix (Posix) time, which will be the number of seconds elapsed since midnight proleptic Coordinated Universal Time (UTC) of 1 January 1970, not counting leap seconds.

The first four bytes of the TransactTime timestamp will represent the Unix (Posix) time, while the next four bytes will specify the nano seconds. The TransactTime will be in UTC.

3.8 Functional and implementation limitations

- 3.8.1.1 It is not possible to publish the *Total Affected Orders* field in the Order Mass Cancel Report, because the system sends the Order Mass Cancel Report before the Execution Reports (for orders that are cancelled) and/or Order Cancel Rejects (for orders that are not cancelled).
- 3.8.1.2 At present, if an order/quote mass cancel request is sent for instruments which are in multiple matching partitions, an Order Mass Cancel Report will be sent per matching partition with the confirmation/rejection of the cancellations of orders/quotes in that respective partition. This is because the system handles mass cancel requests per partition internally. The relevant partition will be stamped in the *Appl ID* field in the Order Mass Cancel Report.
- 3.8.1.3 It is not possible to populate the *Client Order ID* in the Reject message in the below scenarios:
 - a) If the *Client Order ID* itself is invalid.
 - b) If the *Client Order ID* is not the first field of the message and if any field above the *Client Order ID* is invalid.
 - c) If the native message version is invalid.
 - d) If the message header is incorrect (e.g., message type, message length).
- 3.8.1.4 Passive Only Order functionality is only available for certain instruments. Information on whether Passive Only Order functionality is available for a particular instrument can be found in the Millennium Exchange Business Parameters document.
- 3.8.1.5 The TIF amendment of an order is not allowed. However, if an amendment request is sent with TIF changed to DAY (0) (where the original TIF is a different one – i.e., 1, 3, 4, 5, 6, 8, 9 or 10), the system cannot differentiate whether a TIF was specified in the amend request or not (as DAY is represented by 0).

and when a TIF is not specified, it will also come as 0). Hence it will stamp the original TIF of the order to the amend request.

3.8.1.6 Cancel on disconnect is applicable only if the user is disconnected before the end of day. At the end of the day the user is (not disconnected but) logged off by the system at EOD.

3.9 Mapping Native Order ID to GTP Order ID using base-62

To convert Native Order ID to MITCH Order ID:

Step 1 – Convert the 12 byte Native Order ID from ASCII into a base 62 equivalent using the base 62 mapping table below

Step 2 – Convert this string into a base 10 (decimal) number

Step 3 – The GTP order ID is this base 10 number represented in binary

Note

- 64 bit integer data types should be used for the calculation otherwise integers will overflow
- Excel also rounds the value since its using a 64 bit float data type for the calculation

The Order ID format (ASCII):

12 bytes
0–9, A–Z, a–z
Base 62 encoded order ID

The base 62 mapping table:

0	0	20	K	40	e	60	y
1	1	21	L	41	f	61	z
2	2	22	M	42	g		
3	3	23	N	43	h		
4	4	24	O	44	i		
5	5	25	P	45	j		
6	6	26	Q	46	k		
7	7	27	R	47	l		
8	8	28	S	48	m		
9	9	29	T	49	n		
10	A	30	U	50	o		
11	B	31	V	51	p		
12	C	32	W	52	q		
13	D	33	X	53	r		
14	E	34	Y	54	s		
15	F	35	Z	55	t		
16	G	36	a	56	u		
17	H	37	b	57	v		
18	I	38	c	58	w		
19	J	39	d	59	x		

An Example:

Order ID for Native in ASCII	01hbIXLE8st
Base 62 equivalent	01,43,37,18,33,21,14,08,54,55
Base 10 (decimal) number	23,057,063,777,141,547
GTP order ID	Binary encoding of above decimal

3.9.1 Mapping Native Trade Match ID (TVTIC) to FIX TradeMatchID (TVTIC) using base-36 encoding

Converted examples

Native Trade Match ID/GTP Trade ID (Decimal number)	FIX TradeMatchID (880) (10-character length base-36 encoded literal)
20888591731720253	00ST83OK1P
11298586755194	GKGMXE9F86
1338498875692	GGXICR4MS8

Steps to follow

1. Calculate the remainder (R) and quotient (Q) by dividing the decimal number Native Trade Match ID by 36.
2. Use the mapping table to convert the remainder (R) to base-36 symbol. This will occupy the least significant position in the encoded string.
3. Carry on by repeating steps 1 and 2 with the calculated quotient (Q) of the previous step as the decimal number.
4. Repeat step 3 till the quotient is less than 36, then use the mapping table to convert it to base-36 symbol. This will occupy the most significant position in the encoded string.
5. If the encoded string is less than 10 characters in length, pad the string with symbol 'G' (which is the base-36 equivalent of decimal zero) in front to make the 10-character FIX TradeMatchID.

In the example below, the Native TVTIC = 1338498875692 and the encoded FIX TVTIC = GG XICR4MS8 (GG is the padding to make the string length 10 characters).

Steps	Decimal number	Quotient (Q)	Remainder (R)	Base 36 symbol
1	1338498875692	37180524324	28	8
2	37180524324	1032792342	12	S
3	1032792342	28688676	6	M
4	28688676	796907	24	4
5	796907	22136	11	R
6	22136	614	32	C
7	614	17	2	I
8	17		17	X

Base-36 mapping table

0	G	12	S	24	4
1	H	13	T	25	5
2	I	14	U	26	6
3	J	15	V	27	7
4	K	16	W	28	8
5	L	17	X	29	9
6	M	18	Y	30	A
7	N	19	Z	31	B
8	O	20	0	32	C
9	P	21	1	33	D
10	Q	22	2	34	E
11	R	23	3	35	F

3.10 Field value validations

The below validations will be done at the native gateway. If a message is rejected at the gateway, it will be rejected with the Reject message. Note that additional validations will occur at the matching engine which may also result in rejections via an execution report message (populating the order reject code) – please refer to the [Reject Codes](#) document.

The reject codes have to be as below:

- If a value is not specified for a required field, reject code 9900 will be used to reject the message.
- If a field value validation (greater than zero, greater than or equal to zero, equal to zero, less than zero, less than or equal to zero, expected value not there, format is incorrect) fails, reject code 9901 will be used to reject the messages.
- If the instrument is not specified for a mass cancel request, reject code 9900 will be used to reject the message.
- If the segment is not specified for a mass cancel request, reject code 9900 will be used to reject the message.

The problematic field name will be specified in the Reject Reason field in the Reject message.

Message	Field	Validation	Reject code
Message Header	Length	The value has to be the actual length of the message. Otherwise reject the message.	9901
	Message Type	If the value is out of range from the defined set of values, reject the message.	9901
Logon	User Name	If a value is not specified, reject the message.	9900
		If the value contains invalid ASCII characters, reject the message.	9901
	Password	If a value is not specified, reject the message.	9900
		If the value contains invalid ASCII characters, reject the message.	9901
	New Password	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Message Version	The value has to be 1. Otherwise reject the message.	9901
Logout	Reason	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
Missed Message Request	App ID	The value has to be greater than 0 (>0). Otherwise reject the message.	9901
	Last Msg Seq Num	The value has to be greater than 0 (>0). Otherwise reject the message.	9901
New Order	Client Order ID	If a value is not specified, reject the message.	9900
		If the value contains invalid ASCII characters, reject the message.	9901
	Trader ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Account	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Clearing Account	If the value is out of range from the defined set of values, reject the message.	9901
	Instrument ID	The value has to be greater than zero (>0). Otherwise reject the message.	9901

Message	Field	Validation	Reject code
	Reserved Field 1	The value has to be equal to zero (=0). Otherwise reject the message.	9901
	Order Type	If the value is out of range from the defined set of values, reject the message.	9901
	TIF	If the value is out of range from the defined set of values, reject the message.	9901
	ExpireDateTime	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901
	Side	If the value is out of range from the defined set of values, reject the message.	9901
	Order Qty	The value has to be greater than zero (>0). Otherwise reject the message.	9901
	DisplayQty	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901
	Limit Price	The value has to be greater than zero (>0) if Order Type is Limit or Stop Limit. Otherwise reject the message.	9901
	Capacity	If the value is out of range from the defined set of values, reject the message.	9901
	Auto Cancel	If the value is out of range from the defined set of values, reject the message.	9901
	Order Sub Type	If the value is out of range from the defined set of values, reject the message.	9901
	Anonymity	If the value is out of range from the defined set of values, reject the message.	9901
	Stopped Price	The value has to be greater than zero (>0) if Order Type is Stop or Stop Limit.	9901
	Reserved Field	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
Quote	Client Order ID	If a value is not specified, reject the message.	9900
		If the value contains invalid ASCII characters, reject the message.	9901
	Trader ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	ClearingAccount	If the value is out of range from the defined set of values, reject the message.	9901
	Instrument ID	The value has to be greater than zero (>0). Otherwise reject the message.	9901
	BidPrice	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901
	BidSize	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901
	AskPrice	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901
	AskSize	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901

Message	Field	Validation	Reject code
	Capacity	If the value is out of range from the defined set of values, reject the message.	9901
	Auto Cancel	If the value is out of range from the defined set of values, reject the message.	9901
	Reserved Field	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
Cancel Request	Client Order ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Original Client Order ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Order ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Instrument ID	The value has to be greater than zero (>0). Otherwise reject the message.	9901
	Reserved Field 1	No validation will occur.	
	Reserved Field 2	No validation will occur.	
	Side	If the value is out of range from the defined set of values, reject the message.	9901
	Reserved Field	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
Mass Cancel Request	Client Order ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	MassCancel RequestType	If the value is out of range from the defined set of values, reject the message.	9901
	Instrument ID	The value has to be greater than zero (>0) if the Mass Cancel Request Type is 3 or 9. Otherwise reject the message.	9901
	Reserved Field 1	No validation will occur.	
	Reserved Field 2	No validation will occur.	
	Segment	If the value is not specified for Mass Cancel Request Types 4 and 15, reject the message. If the value contains invalid ASCII characters, reject the message.	9900 9901
	Order Sub Type	If the value is out of range from the defined set of values, reject the message.	9901
	Reserved Field	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
Order Modification Request	Client Order ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Original Client Order ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Order ID	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Instrument ID	The value has to be greater than zero (>0). Otherwise reject the message.	9901

Message	Field	Validation	Reject code
	Reserved Field 1	The value has to be equal to zero (=0). Otherwise reject the message.	9901
	Reserved Field 2	The value has to be equal to zero (=0). Otherwise reject the message.	9901
	ExpireDateTime	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901
	Order Quantity	The value has to be greater than zero (>0). Otherwise reject the message.	1000
	Display Quantity	The value has to be greater than or equal to zero (>=0). Otherwise reject the message.	9901
	Account	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	TIF	Reserved field. Value is ignored if specified.	
	Side	If the value is out of range from the defined set of values, reject the message.	9901
	Reserved Field	If a value is specified and it contains invalid ASCII characters, reject the message.	9901
	Limit Price	No validation will be done.	
	Stopped Price	No validation will be done.	

3.10.2 Validation of ASCII characters

The values which correspond to Decimal 0 to 127 should be accepted. Any other ASCII character will be rejected.

3.11 Rejection logic

All client-initiated messages are subjected to two levels of gateway validations before the server receives the message.

Level one pertains to validations on the message header, data type and range defined for each field (valid values for a given field).

If the message successfully passes the first level of gateway validations, the system generates an internal message to check for conditional requirements of each field and any message specific validations. This forms the second level of gateway validations.

If a message fails to comply with any gateway level validations, a Reject message would be generated which contains a reject code, along with the reason specified. The only exception to the gateway level rejection logic is when the server is unavailable in the unlikely event of an outage; a Business Reject message is generated instead of a Reject in this scenario.

Any client-initiated message, after passing gateway level validations, will be subjected to internal validations upon reaching the server. Failure to pass server level validations will be notified to clients via an Execution Report with a reject code to which the reason is specified in the reject code specification.

An exception to the server level rejection logic is when the instrument or the order book could not be found, in which case a Business Reject is generated by the server.

The Business Reject sent to reject an order or quote and Cancel Reject sent to a cancel request or amend request for an unknown instrument should include a Partition ID of zero (0). This is the value used on Business Rejects sent when the system or a partition is suspended.

3.12 MiFID II functionality

3.12.1 Waiver Flags

3.12.1.1 ILQD

If a RFQ transaction was executed under a pre-trade waiver, the relevant Waiver Flag² will be sent in the [RFQ Execution Report](#) for RFQ trades and trade cancellations.

RFQ Trades/ Trade Cancels	Instrument Category		Liquidity		Pre-Trade Transparency Model of the RFQ	Waiver Indicator Flag
	Equity	Non-equity	Liquid	Illiquid	NPT	
		✓		✓	✓	ILQD

3.12.1.2 RFPT

All mid-priced executions taking place on the Secondary Execution Venue (XLOX) will use the Reference Price Waiver flag (RFPT).

3.12.2 Order Capacity

The Order capacities are shown below.

Pre-MiFID II name	MiFID II name
Principal	Dealing on own account (DEAL)
Agency	Any other trading capacity (AOTC)
Riskless Principal	N/A
N/A	Matched Principal (MTCH)

Prior to the MiFID II go-live, the field Capacity =1 was treated as Riskless Principal. Since the MiFID II go-live, it is treated as Matched Principal (MTCH).

3.12.3 Unique System IDs

The system will now send Bid and Offer IDs for RFQ Quotes in the [Quote Ack](#) message.

3.12.4 Order Record Keeping Information

The participants should provide the short code in the 'Client ID', 'Investment Decision Maker' or 'Executing Trader' fields. These fields are named as 'Client ID', 'Investment decision within firm' and 'Execution within firm' in the MiFID II/MiFIR RTS 24 regulatory documentation. The short code should be provided in the following messages: New Order, New Quote, Quote Request, RFQ Quote. The values will not be sent back in the server generated messages. This information can not be amended.

A short code must be in the range from 4 to 4294967295.

The PartyRoleQualifier field contains eight bits, where each pair of two bits represent the Client ID, Investment Decision Maker and 'Executing Trader', as shown in the table below. The permutations in grey are accepted by the system, but are not advised.

Bit	7	6	5	4	3	2	1	0
Relevant Party Identifier	Reserved		Executing Trader		Investment Decision Maker		Client ID	
Party Role Qualifier meaning								
None			0	0	0	0	0	0
LEI/Firm			0	1	0	1	0	1

² Orders executed under large in scale waiver will not be flagged with the waiver indicator since it is not required by MiFID II/MiFIR (RTS22)

Bit	7	6	5	4	3	2	1	0
Algo			1	0	1	0	1	0
Natural person			1	1	1	1	1	1

PartyRoleQualifier = None will be rejected when 'Client ID', 'Investment Decision Maker' or 'Executing Trader' is specified as a short code.

The below table shows the valid combinations of the Party Identifier for 'Client ID', 'Investment Decision Maker' or 'Executing Trader' and Party Role Qualifier, including the use of reserved Party ID values (0-3). Note; other combinations outside of the ranges below maybe accepted but this is not advised.

Party identifier	Native field/value
1. Client – Legal entity (LEI)	Client ID= <Short Code>, PartyRoleQualifier bit0 =1, bit1=0
2. Client – Natural person	Client ID = <Short Code>, PartyRoleQualifier bit0 =1, bit1=1
3. An aggregation of multiple client orders	Client ID = 1 (AGGR)
4. Clients are pending allocation	Client ID = 2 (PNAL)
5. No client for the order	Client ID = 0 (None)
6. Investment Decision Maker – Natural person	Investment Decision Maker = <Short Code>, PartyRoleQualifier bit2 =1, bit3=1
7. Investment Decision Maker – Algorithm	Investment Decision Maker = <Short Code>, PartyRoleQualifier bit2 =0, bit3=1
8. No Investment Decision Maker	Investment Decision Maker = 0 (None)
9. Executing Trader – Natural person	Executing Trader = <Short Code>, PartyRoleQualifier bit4 =1, bit5=1
10. Executing Trader is Algorithm	Executing Trader = <Short Code>, PartyRoleQualifier bit4 =0, bit5=1
11. Executing Trader on behalf of a client	Executing Trader = 3 (CLIENT)

4.0 Connectivity

4.1 UserIDs

UserIDs will be confirmed with each client before communications can begin through the Native Trading Gateway. A single client may have multiple connections to the server (i.e., a user can maintain multiple sessions if he has multiple UserIDs).

4.1.1 Passwords

Each UserID will be assigned a password on registration. Clients will be required to change the password to one of their choosing via the Logon message. When a new password is submitted by the client, a successful login will indicate that the new password is accepted. The new password will, if accepted, be effective for subsequent logins and clients should specify this value in the field password from there on. If a new password is rejected, the system will stamp Reject Code = 3 in the Logon Reply message.

In terms of London Stock Exchange password policy, the initial password of each username must be changed at least once. If not, the client will be unable to login to the server. In such a case, the client should contact London Stock Exchange.

New passwords should adhere to the rules below:

- Minimum length – 8 characters
- Maximum length – 14 characters
- Minimum numeric characters – 1 character
- Minimum alpha characters – 1 character
- Minimum special characters – 1 character

4.2 Production IP addresses and ports

The IP addresses and ports for the Native Trading Gateway are published in a separate configuration document which can be found on the Millennium Exchange Technical Information website.

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, gateway or site outage.

On unexpected disconnection from the primary gateway, a customer should ensure that their application behaves in accordance with London Stock Exchange's connectivity policy.

4.4 Connectivity Policy

An application should attempt to connect a maximum of three times to the primary gateway, with a minimum time out value of three seconds between attempts, before attempting to connect to the secondary gateway – and this should be retried a maximum of a further three times. After six failed connection attempts (three on each gateway), the clients should contact London Stock Exchange for further guidance.

Information on London Stock Exchange's Connectivity Policy can be found at the following link:

<http://www.londonstockexchange.com/products-and-services/technical-library/technical-guidance-notes/technical-guidance-notes.htm>

4.5 Message rate throttling

London Stock Exchange has implemented a scheme for throttling message traffic where each UserID is only permitted to submit up to a specified number of messages per second.

Additional information is provided in *MIT201 - Guide to the New Trading System* document, and also in the *Trading Technical Parameters* document, both available at: <http://www.londonstockexchange.com/products-and-services/technical-library/millennium-exchange-technical-specifications/millennium-exchange-technical-specifications.htm>.

Messages which exceed the maximum rate of a UserID will normally be rejected via a Reject Message. However, a client's connection will be disconnected by the server if its message rate exceeds the maximum rate for a specific time duration. In such a case, the server will transmit a Logout message will terminate the TCP/IP connection within one second, without sending any reject messages.

Please note that client Heartbeat messages as well as any reject messages are all counted towards the throttling limits.

4.6 Mass Cancellation On Disconnect

At the request of the member firm, the server can be configured to automatically cancel certain live orders and quotes submitted by a user whenever it disconnects from the server.

The user can mark each order through its Auto Cancel field; whether it should be automatically cancelled according to its user preferences, should a disconnection or logout happen. For each order an Execution Report generated with the 'Exec Type' and 'Order Status' fields stamped with the value 'Expired', as opposed to 'Cancelled' which would be stamped for all 'Firm Initiated Cancellations'.

This feature does not guarantee that all outstanding marked 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 LSEG Market Operations to verify that all marked orders have been cancelled and all Execution Reports have been received.

If the disconnection is initiated by the server (e.g., when a user is locked, when a user is force logged out, when the maximum message rate is exceeded), the server first logs out the user and then disconnects the connection. In such a scenario, the *Auto Cancel on Logout* feature will be applicable, whereas if the disconnection is initiated by the client (e.g., heartbeat expiration, when a message is sent with an invalid sequence number), the applicable feature will be *Auto Cancel On Disconnect*.

If a disconnection/logout takes place after the end of the post close session, it will not result in a mass cancellation of orders. Therefore, if a user gets disconnected/logged out after post close while mass cancel on disconnect/logout is enforced, any orders open at that point will not be cancelled.

The configuration of the mass cancellation on disconnect feature cannot be updated during a session.

5.0 Connections and sessions

5.1 Establishing a connection

Each client will use the assigned IP address and port to establish a TCP/IP session with the server. The client will initiate a session at the start of each trading day by sending the Logon message. If the client does not initiate the session by sending the Logon message within two heartbeats' interval of establishing the session, the connection will be dropped by the server. The client will identify itself using the Username field. The server will validate the Username and password of the client.

Once the client is authenticated, the server will respond with a Logon Reply message. If the client's logon is successful or if the client's new password is accepted, the RejectCode of the Logon Reply will be Successful (0). If the client's logon is unsuccessful (e.g., invalid or expired password, locked user, etc...), the system will break the TCP/IP connection without sending a Logon Reply message.

The client must wait for the server's Logon before sending additional messages. The server will reject messages received prior to sending the Logon message and prior to receiving the Logon response. Subsequently, the Logon sent by the client will be accepted, and the user will be logged in successfully.

The number of connection limits and the number of logins allowed to the server will be configured in the system. The client will not be able to connect to the server if they have exceeded the maximum number of connections allowed. If the client has exceeded the number of maximum number of logins allowed to the server, but hasn't exceeded the maximum number of connections, the login request will be rejected.

A protection mechanism is in place in order to protect the gateway from rapid login/logouts. If a user reaches the thresholds for rapid login/logouts, any future logins/logouts will be delayed exponentially.

5.2 Maintaining a session

5.2.1 Application sequence numbers

While the Server-initiated application messages will always have an App ID and a Sequence Number, the Client-initiated application messages will not be numbered. The App ID will correspond to the partition ID of the instrument the message is sent for, and the Sequence No will be a sequence number assigned to messages of the given partition.

The Sequence Number received by a client for a particular App ID, although incremental, will not be sequential, since the sequence numbers are not maintained per client. Therefore, a client should not connect to the recovery channel and request for missed messages if the difference in Sequence No between two consecutive messages is more than one. Recovery should be requested only upon a reconnection after a session disconnection.

Uniqueness of Client-initiated messages will be achieved through the provision of unique Client Order IDs per user. It is the responsibility of the customer to ensure that a Client Order ID is unique over the life of an order.

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 three seconds.

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 five heartbeat intervals, the server will send a Logout and break the TCP/IP connection with the client. The client is expected to employ similar logic if inactivity is detected on the part of the server.

5.3 Terminating a connection

The client is expected to terminate each 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 message if the client's request is successful. The client will then break the TCP/IP connection with the server.

All open TCP/IP connections will be terminated by the server when it shuts down (a Logout will be sent). Under exceptional circumstances, the server may initiate the termination of a connection during the trading day by sending the Logout message.

Either party that wishes to terminate the connection may wait for the heartbeat interval duration before breaking the TCP/IP connection, in order to ensure that the other party received the Logout message.

6.0 Recovery

If a client gets disconnected from the server, the recovery channel shall be used to recover missed messages. This section explains the protocol to be followed when recovering missed messages.

6.1 Requesting missed messages

When a client needs to recover missed messages they must first connect to the Real Time Channel and establish a session by exchanging Logon and Logon Reply messages. The client may then connect to the Recovery Channel and exchange Logon and Logon Reply messages to establish a recovery session. Any attempt to connect to the Recovery Channel without first connecting to the Real Time

Channel shall be rejected and the server will send a Logon Reply message, which will include the appropriate Reject Code. The client must ensure proper authentication (i.e., same username and password) when logging in to both channels. Any values sent for the NewPassword field in the Logon message sent to the Recovery Channel will be ignored.

After establishing a connection with the Recovery Channel, the client can send heartbeats to maintain the session or send a Missed Message Request with the relevant App ID and the last received Sequence No corresponding to that App ID. The user will have to send separate Missed Message Request messages to retrieve messages from each partition.

If a service interruption occurs in the Native Recovery Channel, the Native Gateway will send a System Status message to all logged in clients of that gateway's recovery channel with App ID stamped to indicate the service/partition is unavailable. When this message is received, clients can identify that the recovery service is not available for the partition indicated by App ID. They would be able to continue recovery activities on other partitions without interruptions. If the gateway was in the middle of serving a Missed Message Request, it will send a Missed Message Report message with 'ResponseType' = 3 (service unavailable) to the client. If a new Missed Message Request is sent by a user, the gateway will reject the message with a 'Missed Message Request Ack' with 'ResponseType' = 3 (service unavailable) to the client. Once the service is available again, Native Gateway will send another System Status message with App ID to indicate the service availability of the partition to the clients who are still connected on to the recovery channel with 'AppStatus' = 1. When this message is received, the clients are expected to resend the request for missed messages (preferably from the point of interruption) to the gateway to resume the missed message recovery

If a client is logged in and receives the System Status message indicating the system is unavailable, they can stay logged in (i.e., they will not get disconnected after three heartbeats from this message) and can stay heartbeating until they receive the System Status message indicating the system is available again. Clients can then request missed messages and, once satisfied, they will be disconnected after three heartbeats interval and will need to log back in again.

If the matching system becomes unavailable, clients will receive a BusinessReject message with a value of "9998", indicating "Matching Partition Suspended," upon order entry.

6.2 Missed Message Request Response

The server will respond to the Missed Message Request with a Missed Message Request Ack to indicate whether the recovery request is successful or not. If the request is unsuccessful, the reason will be specified in the field ResponseType.

The total number of Missed Message Requests that a client may send on the Recovery channel is limited³. Once this limit is reached, the server will reject any additional request via a Missed Message Request Ack with a ResponseType of Recovery Request limit reached.

In the case of a successful recovery request, the server will transmit the requested messages, along with the last successfully acknowledged message, immediately after the Missed Message Request Ack. It should be noted that due to race conditions, duplicate messages may be transmitted via the recovery channel. Clients are advised to use the App ID and SeqNum to carry out duplicate discard.

³ Please refer to the Trading Technical Parameters document for details of these limits:
<https://docs.londonstockexchange.com/sites/default/files/documents/tradingtechnicalparameters-issue10.pdf>

Missed Messages sent in response to a Missed Message Request will not contain Order Cancel Reject messages and Business Reject messages, since these messages are not retained in Order Cache.

Upon transmitting all the missed messages (i.e., messages from and including the last received Sequence No to the first message received through the Real Time Channel), the Recovery Channel will send a Missed Message Report, which will indicate whether or not all requested messages have been sent.

The total number of messages that a client may receive is limited³ per Missed Message Request. Therefore, if the client's missed message request exceeds this limit, the server will send the first limited number of messages from the App ID and Sequence No provided, followed by a Missed Message Report with a Response Type of Message Limit Reached.

[Missed Message Requests](#) sent by the client prior to receiving the [Missed Message Report](#) will be queued, to be processed after the [Missed Message Report](#) has been sent for previous requests.

Upon receiving the Missed Message Report, the client can send a Logout message and terminate the connection or submit a new Missed Message Request for any more messages that need to be transmitted.

6.3 Terminating the recovery session

Upon sending the Missed Message Report or Missed Message Request Ack, the server will wait five heartbeat intervals prior to disconnecting the client. If the client has received only part of the message set that was requested, the client may send in a new Missed Message Request message for the messages that were not recovered in the first attempt. However, if such a request is not sent within three heartbeat intervals, the server will terminate the connection. The client can send multiple [Missed Message Request](#) messages before the recovery connection is terminated. The recovery connection will not be terminated in the middle of serving a [Missed Message Request](#). If the client is unable to send a new request within this time, the client can re-login to the Recovery Channel and send in the Missed Message Request.

7.0 Data types

The fields of the messages utilised by the server will support the data types outlined below:

Data Type	Length	Description
Alpha	1	A single byte used to hold one ASCII character.
Float	4	Signed Little-Endian encoded four byte integer field with four implied decimal places.
Price	8	Signed Little-Endian encoded eight byte integer field with eight implied decimal places.
Int8	1	Little-Endian encoded eight bit signed integer.
Int16	2	Little-Endian encoded 16 bit signed integer.
UInt32	4	Little-Endian encoded 32 bit unsigned integer.
Int32	4	Little-Endian encoded 32 bit signed integer.
UInt64	8	Little-Endian encoded 64 bit unsigned integer.
String	Variable	These fields use standard ASCII character bytes. A field will be null terminated if the full fixed length is unused. The first byte will contain a null if the field is unused. Fields will not be null terminated if the full length is used.

The description section of each of the messages will describe how each optional field should be represented when no data is sent through it.

Customers should design their applications such that:

- When sending messages, it populates all Reserved fields with nulls (hex 0x00)
- When receiving messages, it disregards and does not process any fields marked as Reserved

8.0 Message formats

This section provides details on the administrative messages and application messages utilised by the server. Any message not included in this section will be rejected by the server.

8.1 Supported message types

8.1.1 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 session.
Logon Reply	B	Allows the server to acknowledge a client's Logon.
Logout	5	Allows the client and server to terminate a 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.
Missed Message Request	M	Allows the client to subscribe to missed messages through the Recovery Channel.
Missed Message Request Ack	N	Allows the server to acknowledge a client's Missed Message Request.
Missed Message Report	P	Allows the Server to communicate the result of a Missed Message Request.
Reject	3	Used to reject a message that does not comply with the Native Trading Gateway messaging protocol.
System Status	n	This message will be disseminated in the recovery channel (with AppStatus = 2) and for realtime channel (with AppStatus = 3) to indicate Service Non Availability of a partition (due to order cache outage).

8.1.2 Application messages: order handling

8.1.2.1 Client-initiated

Message	MsgType	Usage
New Order	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: <ul style="list-style-type: none"> (i) All live orders (ii) All live orders for a particular instrument (iii) All live orders for a particular segment The mass cancel may apply to the orders of a particular trading party or to all orders of the firm.
Order Cancel/Replace Request	G	Allows the client to cancel/replace a live order.

8.1.2.2 Server-initiated

Message	MsgType	Usage
Execution Report	8	Indicates one of the following: (i) Order accepted (ii) Order rejected (iii) Order executed (iv) Order expired (v) Order cancelled (vi) Order cancel/replaced (vii) Trade cancel (viii) Order restated (ix) Order Suspended
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

8.1.3 Application messages: Quote handling

8.1.3.1 Client-initiated

Message	MsgType	Usage
New Quote	S	Allows the client to submit and update a quote
Quote Request	a	Allows the Requester to submit an RFQ
Quote Request Reject	b	Allows the Market Maker to reject the RFQ
RFQ Quote	d	Allows the Market Maker to accept an RFQ Quote
Quote Response	f	Allows the Requester to execute (accept) an RFQ Quote or initiate an RFQ cancellation Quote Response can also be used for RFQ Amendments

8.1.3.2 Server-initiated

Message	MsgType	Usage
Quote Request	a	Allows the server to send the RFQ to the Market Maker
Quote Status Report	c	(i) Allows the server to communicate the status of the RFQ to the Requester
Quote Request Reject	b	(i) Allows the server to reject an RFQ from a Requester (ii) Allows the server to communicate the rejection of the RFQ by a Market Maker to the Requester
RFQ Quote	d	Allows the server to send the Requester the RFQ Quote provided by the Market Maker
Quote Ack	e	Allows the server to acknowledge a new or modified RFQ Quote to the Market Maker
Quote Response	f	Allows the server to communicate the status of a quote and RFQ to the Requester and Market Makers
RFQ Execution Report	g	Allows the system to notify the Requester and the Market Maker about a trade or the status of the quote

8.1.4 Application messages: other

8.1.4.1 Server-initiated

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

8.2 Message header

Field	Offset	Length	Data Type	Description
Start of Message	0	1	Int8	Indicates the start of the message. Clients will have to send the binary value of '2' at the start of each message. Server will also follow the same protocol.
Message Length	1	2	Int16	Length of the message from the Message Type field onwards.
Message Type	3	1	Alpha	Type of Message

8.3 Administrative messages

8.3.1 Logon

Field	Offset	Length	Data Type	Description
Header				
User Name	4	25	String	User name
Password	29	25	String	Password
New Password	54	25	String	New Password
Message Version	79	1	UInt8	Message Version that will be used in this session. The value has to be always 1.

8.3.2 Logon Reply

Field	Offset	Length	Data Type	Description
Header				
Reject Code	4	4	Int32	Code specifying the reason for the reject. Please refer to the Reject Code Specification for the list of reject codes and meanings specific to LSEG.
Password Expiry Day Count	8	30	String	The number of days before the password will expire

8.3.3 Logout

Field	Offset	Length	Data Type	Description
Header				
Reason	4	20	String	Reason for the logout.

8.3.4 Heartbeat

Field	Offset	Length	Data Type	Description
Header				

8.3.5 Missed Message Request

Field	Offset	Length	Data Type	Description
Header				
App ID	4	1	Int8	App ID this message relates to.
Last Msg Seq Num	5	4	Int32	Last received Sequence No.

8.3.6 Missed Message Request Ack

Field	Offset	Length	Data Type	Description	
Header					
Response Type	4	1	UInt8	Value	Meaning
				0	Successful
				1	Recovery Request limit reached
				2	Invalid App ID
				3	Service Unavailable

8.3.7 Missed Message Report

Field	Offset	Length	Data Type	Description	
Header					
Response Type	4	1	UInt8	Value	Meaning
				0	Download Complete
				1	Message limit reached
				3	Service Unavailable

8.3.8 Reject

Field	Offset	Length	Data Type	Description
Header				
Reject Code	4	4	Int32	Code specifying the reason for the reject. Please refer to the Reject Code Specification for the list of reject codes and meanings specific to LSEG.
Reject Reason	8	30	String	Reject Reason.
Rejected Message Type	38	1	Alpha	Message type of the rejected message.
Client Order ID	39	20	String	Client specified identifier of the rejected message if it is available. RFQ ID will be stamped when the system rejects a client's Quote Request Reject message, and when the system rejects a Quote Response message from the Requester.

8.3.9 System Status

Field	Offset	Length	Data Type	Description	
Header					
App ID	4	1	UInt8	Partition ID	
				Value	Meaning
				1	Partition 1
				2	Partition 2
				3	Partition 3
				4	Partition 4
App Status	5	1	UInt8	Value	Meaning
				1	Recovery service resumed
				2	Recovery service not available
				3	Realtime channel to indicate Service Non Availability of a partition (due to order cache outage)

8.4 Application messages: orders/quotes

8.4.1 New Order

Field	Offset	Length	Data Type	Description
Header				
Client Order ID	4	20	String	<p>Client specified identifier of the order. It is mandatory to specify this.</p> <p>The valid range of ASCII characters (decimal) to preserve data integrity and not to cause an issue on CCP side is 0 and 32-126 except:</p> <ul style="list-style-type: none"> – 35 # (hash) – 47 / (forward slash) – 59 ; (semi colon) – 92 \ (back slash) <p>The characters outside of this range will be replaced by LSEG with “-” (hyphen) in Trade Capture Report (Message Type=AE) sent to clients and to CCP/s.</p> <p>X-Clear customers should not use more than 16 characters as a longer value will be truncated by CCP.</p>
Trader ID	24	11	String	Optional Trader ID that clients may submit
Account	35	10	String	<p>Optional reference of the investor the order is submitted for</p> <p>The valid range of ASCII characters (decimal) to preserve data integrity and not to cause an issue on CCP side is 0 and 32-126 except:</p> <ul style="list-style-type: none"> – 35 # (hash) – 47 / (forward slash) – 59 ; (semi colon) – 92 \ (back slash) <p>The characters outside of this range will be replaced by LSEG with “-” (hyphen) in Trade Capture Report (Message Type=AE) sent to clients and to CCP/s.</p>

Field	Offset	Length	Data Type	Description		
Clearing Account	45	1	UInt8	Clearing Account Type.		
				Value	Meaning	
				1	Client	
				3	House	
Instrument ID	46	4	Int32	Identifier of the instrument for which the order is submitted.		
MiFID Flags	50	1	Bit-Field	Flags introduced to identify DEA involvement, Algo and Liquidity provision activity. '0' will be accepted as a valid value. If a bit is not specified, it will be set to '0'.		
				Bit	Name	Meaning
				0	DEA Flag	0: No 1:Yes
				1	Liquidity Provision	0: No 1:Yes
				2	ALGO	0: No 1:Yes
				3	Reserved	-
				4	Reserved	-
				5	Reserved	-
				6	Reserved	-
				7	Reserved	-
Party Role Qualifiers	51	1	Bit-Field	Provides a further qualification for the value specified via the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' IDs. It will not be allowed to specify the value (0,0 – None) for the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' two-bit positions when the 'Client ID', 'Investment Decision Maker' and/or 'Executing Trader' ID is being specified as a short code (i.e., 4-4294967295).		
				Description	Bit Position	Bit Value
				Client ID	0	0, 1
				Client ID	1	0, 1
				Investor Information	2	0, 1
				Executing Trader Information	4	0, 1
				Executing Trader Information	5	0, 1
				Reserved	-	-
				Reserved	-	-
				The combination of two relevant bits represent the following:		
				Bit Value	Bit Value	Meaning
				0	0	None
				0	1	LEI/Firm
				1	0	Algo

Field	Offset	Length	Data Type	Description
				1 1 Natural Person
				Please refer to the Order Record Keeping Information section for more details.
Order Type	52	1	UInt8	Type of order:
				Value Meaning
				1 Market
				2 Limit
				3 Stop
				4 Stop Limit
TIF	53	1	UInt8	Time qualifier of the order:
				Value Meaning
				0 Day
				3 Immediate or Cancel (IOC)
				4 Fill or Kill (FOK)
				5 At the Opening (OPG)
				6 Good Till Date (GTD)
				8 Good Till Time (GTT)
				10 At the Close (ATC)
				12 Closing Price Cross (CPX)
				50 Good for Auction (GFA)
				51 Good for Intraday Auction (GFX)
				52 Good for Scheduled Auction (GFS)
				54 Auction Volume Discovery (AVD)
				55 Auction Volume Close (AVC)
Expire Date Time	54	4	UInt32	This field will indicate the date or the time the order expires on. For non GTD/GTT orders, the value in this field will be ignored. GTD/GTT orders are not in scope for LSE 24.
Side	58	1	UInt8	Side of the order.
				Value Meaning
				1 Buy
				2 Sell
Order Qty	59	4	Int32	Total order quantity.
Display Qty	63	4	Int32	Maximum quantity that may be displayed.

Field	Offset	Length	Data Type	Description										
Limit Price	67	8	Price	Limit Price. Required if OrderType = Limit (2) or Stop Limit (4). Else this field will be ignored. It can be left zero for Offset orders (OrderType = Limit (2) and Order Sub Type = Offset (55)) Offset orders are not in scope for LSE 24.										
Capacity	75	1	UInt8	Capacity of the order. <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Matched Principal (MTCH)</td></tr><tr><td>2</td><td>Dealing on own account (DEAL)</td></tr><tr><td>3</td><td>Any other trading capacity (AOTC)</td></tr></table>	Value	Meaning	1	Matched Principal (MTCH)	2	Dealing on own account (DEAL)	3	Any other trading capacity (AOTC)		
Value	Meaning													
1	Matched Principal (MTCH)													
2	Dealing on own account (DEAL)													
3	Any other trading capacity (AOTC)													
Auto Cancel	76	1	UInt8	Cancel orders on logout/disconnection of session <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Do not Cancel</td></tr><tr><td>1</td><td>Conform to user's configuration</td></tr></table>	Value	Meaning	0	Do not Cancel	1	Conform to user's configuration				
Value	Meaning													
0	Do not Cancel													
1	Conform to user's configuration													
Order Sub Type	77	1	UInt8	Whether the order is a pegged order. If the client submits a Pegged Order with a limit price (so called a "Hard Limit"), the Order Type has to be Limit (2) along with Order Sub Type Pegged Order (5). If the client submits a Pegged order without a limit price, the Order Type has to be Market (1) along with Order Sub Type Pegged Order (5). If this is populated with value "51" while a value which is greater than zero and less than the Order Quantity is populated in DisplayQty, the DisplayQty after replenishment will be randomly sized based on a percentage range upwards from the original DisplayQty. The DisplayQty after replenishment will be "fixed peak". If the client submits an Offset order, the Order Type has to be Limit (2) along with Order Sub Type Offset Order (55). If this value is '55' all other Order Type combinations will be rejected. Pegged and Offset orders are not in scope for LSE 24. <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Order</td></tr><tr><td>5</td><td>Pegged Order</td></tr><tr><td>51</td><td>Random Peak size</td></tr><tr><td>55</td><td>Offset</td></tr></table>	Value	Meaning	0	Order	5	Pegged Order	51	Random Peak size	55	Offset
Value	Meaning													
0	Order													
5	Pegged Order													
51	Random Peak size													
55	Offset													
Anonymity	78	1	UInt8	Whether the order is a named or anonymous order <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Anonymous</td></tr><tr><td>1</td><td>Named</td></tr></table>	Value	Meaning	0	Anonymous	1	Named				
Value	Meaning													
0	Anonymous													
1	Named													

Field	Offset	Length	Data Type	Description														
Stop Price	79	8	Price	Stop price. Required if OrderType is Stop or Stop Limit. Else this field will be ignored.														
Passive Only Order	87	1	UInt8	Order level parameter to allow clients to specify that they would like their order to rest prior to execution, with flexibility for visible orders to rest at a specified price level on the book. Passive Only Orders will execute against hidden orders sat within the BBO on order entry. Any fully hidden order will be rejected if it has enum 100, 1, 2, or 3. No passive only order validation will be done if field is not stamped or has '0' stamped on it. <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>No constraint</td></tr><tr><td>99</td><td>Only accept order if it will not match with visible contra order. Otherwise expire order.</td></tr><tr><td>100</td><td>Only accept order if setting new visible BBO. Otherwise expire order.</td></tr><tr><td>1</td><td>Only accept order if setting new BBO or joining existing BBO. Otherwise expire order.</td></tr><tr><td>2</td><td>Only accept order if will be at BBO or within one visible price-point. Otherwise expire order.</td></tr><tr><td>3</td><td>Only accept order if will be at BBO or within two visible price-points. Otherwise expire order.</td></tr></table>	Value	Meaning	0	No constraint	99	Only accept order if it will not match with visible contra order. Otherwise expire order.	100	Only accept order if setting new visible BBO. Otherwise expire order.	1	Only accept order if setting new BBO or joining existing BBO. Otherwise expire order.	2	Only accept order if will be at BBO or within one visible price-point. Otherwise expire order.	3	Only accept order if will be at BBO or within two visible price-points. Otherwise expire order.
Value	Meaning																	
0	No constraint																	
99	Only accept order if it will not match with visible contra order. Otherwise expire order.																	
100	Only accept order if setting new visible BBO. Otherwise expire order.																	
1	Only accept order if setting new BBO or joining existing BBO. Otherwise expire order.																	
2	Only accept order if will be at BBO or within one visible price-point. Otherwise expire order.																	
3	Only accept order if will be at BBO or within two visible price-points. Otherwise expire order.																	
Client ID	88	4	UInt32	Identifier of the client. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>AGGR</td></tr><tr><td>2</td><td>PNAL</td></tr><tr><td>4 – 4294967295</td><td>Short code</td></tr></table>	Value	Meaning	0	None	1	AGGR	2	PNAL	4 – 4294967295	Short code				
Value	Meaning																	
0	None																	
1	AGGR																	
2	PNAL																	
4 – 4294967295	Short code																	
Investment Decision Maker	92	4	UInt32	Identifier of the trading member/participant who made investment decision. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>None</td></tr><tr><td>4 – 4294967295</td><td>Short code</td></tr></table>	Value	Meaning	0	None	4 – 4294967295	Short code								
Value	Meaning																	
0	None																	
4 – 4294967295	Short code																	
Group ID	96	1	UInt8	Specified by the user as order submission. Used by the traders to group their orders. Users who do not want to group their orders will leave this field '0'. Valid Group ID values are 1 to 255.														

Field	Offset	Length	Data Type	Description								
Minimum Quantity	97	4	Int32	Minimum Execution Size (MES) of an order. A value of zero (0) means no MES. MES is only applicable to pegged DAY/GTT orders. It is not applicable to pegged IOC/FOK orders. If a non zero value is specified for a non-pegged order type, the message will be rejected. Pegged orders are not in scope for LSE 24.								
Executing Trader	101	4	UInt32	Identifier of the trading member/participant who made the execution decision. '0' will not be accepted as a valid value. Only the following values will be accepted: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>3</td><td>CLIENT</td></tr><tr><td>4 – 4294967295</td><td>Short code</td></tr></table>	Value	Meaning	3	CLIENT	4 – 4294967295	Short code		
Value	Meaning											
3	CLIENT											
4 – 4294967295	Short code											
Offset	105	4	Int32	Offset to the Dynamic Reference Price (in basis points) for ATC TIF orders. Required if Order Sub Type = 55 'Offset'. An offset value of zero is expected if Order Sub Type is not 55. Zero is a valid offset. Positive offset denotes aggressive pricing on the DRP and negative offset, conservative pricing on the DRP. Zero offset will be priced at DRP. See the example in section 3.2.1.3 Offset orders are not in scope for LSE 24.								
Pegged Exec Inst	109	1	UInt8	The instruction for permissioning for any incoming order to trade against mid-priced pegged orders. Any execution generated against a mid-priced pegged order will be on trading venue XLOX. Pegged orders are not in scope for LSE 24. <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Default If the order is a mid-priced pegged order, it will be eligible for execution against other pegged orders as well as all other orders. If the order is a non-mid-priced pegged order, it will not be eligible for execution against pegged orders.</td></tr><tr><td>1</td><td>Where any incoming order is permitted to execute against mid-priced pegged orders in addition to all other order types. If this value is entered for hidden orders, it will be converted to 2 to prevent hidden orders executing with mid-priced pegged orders.</td></tr><tr><td>2</td><td>Not permitted to execute against mid-priced pegged orders This option is invalid for mid-priced pegged orders.</td></tr></table>	Value	Meaning	0	Default If the order is a mid-priced pegged order, it will be eligible for execution against other pegged orders as well as all other orders. If the order is a non-mid-priced pegged order, it will not be eligible for execution against pegged orders.	1	Where any incoming order is permitted to execute against mid-priced pegged orders in addition to all other order types. If this value is entered for hidden orders, it will be converted to 2 to prevent hidden orders executing with mid-priced pegged orders.	2	Not permitted to execute against mid-priced pegged orders This option is invalid for mid-priced pegged orders.
Value	Meaning											
0	Default If the order is a mid-priced pegged order, it will be eligible for execution against other pegged orders as well as all other orders. If the order is a non-mid-priced pegged order, it will not be eligible for execution against pegged orders.											
1	Where any incoming order is permitted to execute against mid-priced pegged orders in addition to all other order types. If this value is entered for hidden orders, it will be converted to 2 to prevent hidden orders executing with mid-priced pegged orders.											
2	Not permitted to execute against mid-priced pegged orders This option is invalid for mid-priced pegged orders.											
Owner Type	110	1	UInt8	Optional identification (non-public): <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Default No flag applied.</td></tr></table>	Value	Meaning	0	Default No flag applied.				
Value	Meaning											
0	Default No flag applied.											

Field	Offset	Length	Data Type	Description
				1 Retail investor An end retail order that meets the required definition ⁴
				2 Retail Liquidity Provider An order that is only permitted to execute against an identified end retail order Value 2 is only permitted for <ul style="list-style-type: none"> • Mid-Priced Pegged Orders; • Mid-Priced Pegged Limit Orders; • Hidden Limit Orders; or • Orders with an IOC or FOK TIF.
Pegged orders are not in scope for LSE 24.				
Reserved field	111	14	STRING	Reserved for future use

8.4.2 New Quote

Field	Offset	Length	Data Type	Description	
Header					
Message Body					
Client Order ID	4	20	String	Client specified identifier of the quote. It is mandatory to specify this. X-Clear customers should not use more than 16 characters as a longer value will be truncated by CCP. The valid range of ASCII characters (decimal) to preserve data integrity and not to cause an issue on CCP side is 0 and 32-126 except: <ul style="list-style-type: none">– 35 # (hash)– 47 / (forward slash)– 59 ; (semi colon)– 92 \ (back slash) The characters outside of this range will be replaced by LSEG with “-” (hyphen) in Trade Capture Report (Message Type=AE) sent to clients and to CCP/s.)	
Trader ID	24	11	String	Optional Trader ID that clients may submit.	
Clearing Account	35	1	UInt8	Clearing Account Type.	
				Value	Meaning
				1	Client
				3	House
Instrument ID	36	4	Int32	Identifier of the instrument for which the quote is submitted.	
Bid Price	40	8	Price	Bid price	
Bid Size	48	4	Int32	Bid quantity	
Ask Price	52	8	Price	Offer price	
Ask Size	60	4	Int32	Offer quantity	
Capacity	64	1	UInt8	Capacity of the order.	
				Value	Meaning

⁴ Refer to related documentation for the definition of a retail order.

Field	Offset	Length	Data Type	Description
				1 Matched Principal (MTCH)
				2 Dealing on own account (DEAL)
				3 Any other trading capacity (AOTC)
Auto Cancel	65	1	UInt8	Cancel orders on logout/disconnection of session
				Value Meaning
				0 Do not cancel
				1 Conform to user's configuration
Client ID	66	4	UInt32	Identifier of the client. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted:
				Value Meaning
				0 None
				1 AGGR
				2 PNAL
				4 – 4294967295 Short code
				During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.
Investment Decision Maker	70	4	UInt32	Identifier of the trading member/participant who made investment decision. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted:
				Value Meaning
				0 None
				4 – 4294967295 Short code
				During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.
Executing Trader	74	4	UInt32	Identifier of the trading member/participant who made the execution decision. '0' will not be accepted as a valid value. Only the following values will be accepted:
				Value Meaning
				3 CLIENT
				4 – 4294967295 Short code
				During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.
MiFID Flags	78	1	Bit-Field	Flags introduced to identify DEA involvement, Algo and Liquidity provision activity. '0' will be accepted as a valid value. If a bit is not specified, it will be set to '0'. During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.
				Bit Name Meaning

Field	Offset	Length	Data Type	Description																																										
				<table><tr><td>0</td><td>DEA Flag</td><td>0: No 1:Yes</td></tr><tr><td>1</td><td>Liquidity Provision</td><td>0: No 1:Yes</td></tr><tr><td>2</td><td>ALGO</td><td>0: No 1:Yes</td></tr><tr><td>3</td><td>Reserved</td><td>-</td></tr><tr><td>4</td><td>Reserved</td><td>-</td></tr><tr><td>5</td><td>Reserved</td><td>-</td></tr><tr><td>6</td><td>Reserved</td><td>-</td></tr><tr><td>7</td><td>Reserved</td><td>-</td></tr></table>	0	DEA Flag	0: No 1:Yes	1	Liquidity Provision	0: No 1:Yes	2	ALGO	0: No 1:Yes	3	Reserved	-	4	Reserved	-	5	Reserved	-	6	Reserved	-	7	Reserved	-																		
0	DEA Flag	0: No 1:Yes																																												
1	Liquidity Provision	0: No 1:Yes																																												
2	ALGO	0: No 1:Yes																																												
3	Reserved	-																																												
4	Reserved	-																																												
5	Reserved	-																																												
6	Reserved	-																																												
7	Reserved	-																																												
Party Role Qualifiers	79	1	Bit-Field	<p>Provides a further qualification for the value specified via the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' fields. It will not be allowed to specify the value (0,0 – None) for the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' two-bit positions when the Client ID, Investment Decision Maker and/or 'Executing Trader ID' is being specified as a short code (i.e., 4-4294967295).</p> <p>Provides a further qualification for the value specified via the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' IDs. It will not be allowed to specify the value (0,0 – None) for the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' two-bit positions when the 'Client ID', 'Investment Decision Maker' and/or 'Executing Trader' ID is being specified as a short code (i.e., 4-4294967295).</p> <p>During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.</p> <table><tr><th>Description</th><th>Bit Position</th><th>Bit Value</th></tr><tr><td>Client ID</td><td>0</td><td>0, 1</td></tr><tr><td>Client ID</td><td>1</td><td>0, 1</td></tr><tr><td>Investor Information</td><td>2</td><td>0, 1</td></tr><tr><td>Investor Information</td><td>3</td><td>0, 1</td></tr><tr><td>Executing Trader Information</td><td>4</td><td>0, 1</td></tr><tr><td>Executing Trader Information</td><td>5</td><td>0, 1</td></tr><tr><td>Reserved</td><td>-</td><td>-</td></tr><tr><td>Reserved</td><td>-</td><td>-</td></tr></table> <p>The combination of two relevant bits represent the following:</p> <table><tr><th>Bit Value</th><th>Bit Value</th><th>Meaning</th></tr><tr><td>0</td><td>0</td><td>None</td></tr><tr><td>0</td><td>1</td><td>LEI/Firm</td></tr><tr><td>1</td><td>0</td><td>Algo</td></tr><tr><td>1</td><td>1</td><td>Natural Person</td></tr></table> <p>Please refer to the Order Record Keeping Information section for more details.</p>	Description	Bit Position	Bit Value	Client ID	0	0, 1	Client ID	1	0, 1	Investor Information	2	0, 1	Investor Information	3	0, 1	Executing Trader Information	4	0, 1	Executing Trader Information	5	0, 1	Reserved	-	-	Reserved	-	-	Bit Value	Bit Value	Meaning	0	0	None	0	1	LEI/Firm	1	0	Algo	1	1	Natural Person
Description	Bit Position	Bit Value																																												
Client ID	0	0, 1																																												
Client ID	1	0, 1																																												
Investor Information	2	0, 1																																												
Investor Information	3	0, 1																																												
Executing Trader Information	4	0, 1																																												
Executing Trader Information	5	0, 1																																												
Reserved	-	-																																												
Reserved	-	-																																												
Bit Value	Bit Value	Meaning																																												
0	0	None																																												
0	1	LEI/Firm																																												
1	0	Algo																																												
1	1	Natural Person																																												

Field	Offset	Length	Data Type	Description								
Pegged Exec Inst	80	1	UInt8	<p>The instruction for permissioning to trade against mid-priced pegged orders. Any execution generated against a mid-priced pegged order will be on trading venue XLOX.</p> <p>Pegged orders are not in scope for LSE 24.</p>								
				<table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td><p>Default</p><p>If the order is a mid-priced pegged order, it will be eligible for execution against other pegged orders as well as all other orders.</p><p>If the order is a non-mid-priced pegged order, it will not be eligible for execution against pegged orders.</p></td></tr><tr><td>1</td><td><p>Where any incoming order is permitted to execute against mid-priced pegged orders in addition to all other order types.</p></td></tr><tr><td>2</td><td><p>Not permitted to execute against mid-priced pegged orders</p><p>This option is invalid for mid-priced pegged orders</p></td></tr></table>	Value	Meaning	0	<p>Default</p> <p>If the order is a mid-priced pegged order, it will be eligible for execution against other pegged orders as well as all other orders.</p> <p>If the order is a non-mid-priced pegged order, it will not be eligible for execution against pegged orders.</p>	1	<p>Where any incoming order is permitted to execute against mid-priced pegged orders in addition to all other order types.</p>	2	<p>Not permitted to execute against mid-priced pegged orders</p> <p>This option is invalid for mid-priced pegged orders</p>
Value	Meaning											
0	<p>Default</p> <p>If the order is a mid-priced pegged order, it will be eligible for execution against other pegged orders as well as all other orders.</p> <p>If the order is a non-mid-priced pegged order, it will not be eligible for execution against pegged orders.</p>											
1	<p>Where any incoming order is permitted to execute against mid-priced pegged orders in addition to all other order types.</p>											
2	<p>Not permitted to execute against mid-priced pegged orders</p> <p>This option is invalid for mid-priced pegged orders</p>											

8.4.3 Order Cancel/Replace Request

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Client Order ID	4	20	String	<p>Client specified identifier of the request. It is mandatory to specify this.</p> <p>The valid range of ASCII characters (decimal) to preserve data integrity and not to cause an issue on CCP side is 0 and 32-126 except:</p> <ul style="list-style-type: none"> – 35 # (hash) – 47 / (forward slash) – 59 ; (semi colon) – 92 \ (back slash) <p>The characters outside of this range will be replaced by LSEG with "-" (hyphen) in Trade Capture Report (Message Type=AE) sent to clients and to CCP/s.</p>
Original Client Order ID	24	20	String	Client Order ID of the order being amended. This field will be ignored if Order ID is also specified.
Order ID	44	12	String	Unique identifier of the order assigned by the matching system.
Instrument ID	56	4	Int32	Identifier of the instrument of the order being amended.
Group ID	60	1	UInt8	<p>Specifies the Group ID of an order. If user does not want to amend the Group ID of the order, it can be set to zero.</p> <p>Zero can be amended to non-zero value. Already grouped order (1-255) cannot be amended to zero.</p>
Reserved field 2	61	1	Int8	This will always be zero (0).
Expire Date Time	62	4	UInt32	<p>This field will indicate the date or the time the order expires on. It is mandatory to specify a valid value in this field for GTD/GTT orders. The value in this field will be ignored for non GTT/GTD orders.</p> <p>GTD/GTT orders are not in scope for LSE 24.</p>
Order Qty	66	4	Int32	Total order quantity.
Display Qty	70	4	Int32	<p>Maximum quantity that may be displayed.</p> <p>The intended display quantity has to be inserted as this is a mandatory field.</p>
Limit Price	74	8	Price	<p>Only for Market and Stop orders this field should be filled with a negative value.</p> <p>If a negative Limit Price is sent (in error) for an offset order, the amendment will not be rejected but the previous limit price of the order will be retained and the negative price ignored.</p> <p>For Order Sub Type = 55 'Offset':</p> <p>If Limit Price was sent in the New order, this field must be specified in the Order/Cancel replace request.</p> <p>If Limit Price was not sent in the New order, this field should be empty in the Order/Cancel replace request.</p> <p>Offset orders are not in scope for LSE 24.</p>

Field	Offset	Length	Data Type	Description														
Account	82	10	String	<p>The reference of the investor the order is submitted for.</p> <p>This field should be null if it is not being amended.</p> <p>The valid range of ASCII characters (decimal) to preserve data integrity and not to cause an issue on CCP side is 0 and 32-126 except:</p> <ul style="list-style-type: none">– 35 # (hash)– 47 / (forward slash)– 59 ; (semi colon)– 92 \ (back slash) <p>The characters outside of this range will be replaced by LSEG with “-” (hyphen) in Trade Capture Report (Message Type=AE) sent to clients and to CCP/s.</p>														
Reserved Field 3	92	1	Int8	Reserved for future use.														
Side	93	1	Int8	<p>Side of the order.</p> <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Buy</td></tr><tr><td>2</td><td>Sell</td></tr></table>	Value	Meaning	1	Buy	2	Sell								
Value	Meaning																	
1	Buy																	
2	Sell																	
Stop Price	94	8	Price	<p>Stop Price.</p> <p>A negative value should be entered if this field is not being amended. This applies to all order types.</p> <p>Order level parameter to allow clients to specify that they would like their order to rest prior to execution, with flexibility for visible orders to rest at a specified price level on the book.</p> <p>Passive Only Orders will execute against hidden orders sat within the BBO on order entry.</p> <p>Any fully hidden order will be rejected if it has enum 100, 1, 2 or 3.</p> <p>No passive only order validation will be done if field is not stamped or has ‘0’ stamped on it.</p> <p>The value set on this field will be ignored unless a price amendment is also done to the order.</p>														
Passive Only Order	102	1	Int8	<table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>No constraint</td></tr><tr><td>99</td><td>Only accept order if it will not match with visible contra order. Otherwise expire order.</td></tr><tr><td>100</td><td>Only accept order if setting new visible BBO. Otherwise expire order.</td></tr><tr><td>1</td><td>Only accept order if setting new BBO or joining existing BBO. Otherwise expire order.</td></tr><tr><td>2</td><td>Only accept order if will be at BBO or within one visible price-point. Otherwise expire order.</td></tr><tr><td>3</td><td>Only accept order if will be at BBO or within two visible price-points. Otherwise expire order.</td></tr></table>	Value	Meaning	0	No constraint	99	Only accept order if it will not match with visible contra order. Otherwise expire order.	100	Only accept order if setting new visible BBO. Otherwise expire order.	1	Only accept order if setting new BBO or joining existing BBO. Otherwise expire order.	2	Only accept order if will be at BBO or within one visible price-point. Otherwise expire order.	3	Only accept order if will be at BBO or within two visible price-points. Otherwise expire order.
Value	Meaning																	
0	No constraint																	
99	Only accept order if it will not match with visible contra order. Otherwise expire order.																	
100	Only accept order if setting new visible BBO. Otherwise expire order.																	
1	Only accept order if setting new BBO or joining existing BBO. Otherwise expire order.																	
2	Only accept order if will be at BBO or within one visible price-point. Otherwise expire order.																	
3	Only accept order if will be at BBO or within two visible price-points. Otherwise expire order.																	
Offset	103	4	Int32	<p>Offset to the Dynamic Reference Price (in basis points) for ATC TIF orders</p> <p>Required if Order Sub Type = 55 ‘Offset’. An offset value of zero is expected if Order Sub Type is not 55.</p> <p>Offset orders are not in scope for LSE 24.</p>														

Field	Offset	Length	Data Type	Description
Reserved Field	107	5	String	Reserved for future use
Minimum Quantity	112	4	Int32	Minimum execution size (MES) of an order. A value of zero (0) means no MES. MES is only applicable to pegged DAY/GTT orders. It is not applicable to pegged IOC/FOK orders. To maintain the previous MES on a pegged order, the value must be explicitly specified again on the order cancel/replace. If a non zero value is specified when amending a non pegged order, the system will reject the message. Pegged orders are not in scope for LSE 24.

8.4.4 Order Cancel Request

Field	Offset	Length	Data Type	Description	
Header					
Message Body					
Client Order ID	4	20	String	Client specified identifier of the request. It is mandatory to specify this.	
Original Client Order ID	24	20	String	Client Order ID of the order being amended. Or Quote Msg ID of the RFQ Quote being cancelled. For orders, this field will be ignored if Order ID is also specified. For single sided RFQ Quote cancellation, this field is mandatory together with the RFQ ID. If both buy and sell RFQ Quotes have the same Quote Msg ID which is populated in the Original Client Order ID, the buy quote will be cancelled. Another subsequent cancel message will cancel the sell quote.	
Order ID	44	12	String	Unique identifier of the order assigned by the matching system	
Instrument ID	56	4	Int32	Identifier of the instrument of the order being cancelled.	
Reserved field 1	60	1	Int8	This will always be 0.	
Reserved field 2	61	1	Int8	This will always be 0.	
Side	62	1	UInt8	Side of the order.	
				Value	Meaning
				1	Buy
				2	Sell
RFQ ID	63	10	String	Identifier of the initial RFQ by the Requester. It is mandatory to specify this when cancelling an RFQ Quote.	

8.4.5 Order Mass Cancel Request

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Client Order ID	4	20	String	Client specified identifier of mass cancel request. It is mandatory to specify this. Should not be prefixed or suffixed with a forward slash, or contain two consecutive forward slashes.
	24	1	UInt8	Type of Mass Cancellation:

Field	Offset	Length	Data Type	Description																				
Mass Cancel Request Type				<table><tr><th>Value</th><th>Meaning</th></tr><tr><td>3</td><td>All firm orders of an instrument</td></tr><tr><td>4</td><td>All firm orders of a segment</td></tr><tr><td>7</td><td>All orders submitted by the trader</td></tr><tr><td>8</td><td>All firm orders</td></tr><tr><td>9</td><td>All orders of an instrument, submitted by the trader</td></tr><tr><td>15</td><td>All orders of a segment, submitted by the trader.</td></tr><tr><td>56</td><td>All orders submitted by the trader, in a particular group</td></tr><tr><td>57</td><td>All firm orders of an instrument, in a particular group</td></tr><tr><td>58</td><td>All firm orders, in a particular group</td></tr></table>	Value	Meaning	3	All firm orders of an instrument	4	All firm orders of a segment	7	All orders submitted by the trader	8	All firm orders	9	All orders of an instrument, submitted by the trader	15	All orders of a segment, submitted by the trader.	56	All orders submitted by the trader, in a particular group	57	All firm orders of an instrument, in a particular group	58	All firm orders, in a particular group
	Value	Meaning																						
	3	All firm orders of an instrument																						
	4	All firm orders of a segment																						
	7	All orders submitted by the trader																						
	8	All firm orders																						
	9	All orders of an instrument, submitted by the trader																						
	15	All orders of a segment, submitted by the trader.																						
	56	All orders submitted by the trader, in a particular group																						
57	All firm orders of an instrument, in a particular group																							
58	All firm orders, in a particular group																							
Instrument ID	25	4	Int32	Identifier of the instrument of the orders being cancelled. Required if MassCancelRequetType = 3 or 9 or 57 . Else this field will be ignored																				
Reserved field 1	29	1	Int8	This will always be 0.																				
Group ID	30	1	UInt8	The Group ID will be specified at order submission by Traders. Valid values are between 1-255. Group ID to which the order mass cancellation is directed to. This is a conditionally required field when Mass Cancel Request Type = '56' or '57' or '58'. Else this field will be ignored.																				
Segment	31	4	String	The segment for which the orders will be cancelled. Required if MassCancelRequestType = 4 or 15. Else this field will be ignored.																				
Order Sub Type	35	1	UInt8	Whether cancellation should apply to orders or quotes.																				
				<table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Order</td></tr><tr><td>3</td><td>Quote</td></tr></table>	Value	Meaning	0	Order	3	Quote														
				Value	Meaning																			
				0	Order																			
3	Quote																							
Reserved Field	36	10	String	Reserved for future use																				

8.4.6 Execution Report

Field	Offset	Length	Data Type	Description
Header				
Message Body				
App ID	4	1	UInt8	Partition ID
Sequence No	5	4	Int32	Sequence number of the message.
Execution ID	9	12	String	Unique ID of the Execution Report. Unique across all partitions, all days. This will be a 62 base encoded value in ASCII format.
Client Order ID	21	20	String	Client specified identifier of the order.

Field	Offset	Length	Data Type	Description																				
				If the execution report is generated as a response to an order cancel or an order mass cancel request, this will be the client order ID specified in the client-initiated message.																				
Order ID	41	12	String	Unique identifier of the order assigned by the matching system. This will be a 62 base encoded value in ASCII format. By converting this to binary, this can be mapped with MITCH Order ID.																				
Exec Type	53	1	Alpha	The reason the Execution Report is being sent. <table><tr><th>Value</th><th>Meaning</th></tr><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>C</td><td>Expired</td></tr><tr><td>D</td><td>Restated</td></tr><tr><td>F</td><td>Trade</td></tr><tr><td>H</td><td>Trade Cancel</td></tr><tr><td>9</td><td>Suspended</td></tr></table>	Value	Meaning	0	New	4	Cancelled	5	Replaced	8	Rejected	C	Expired	D	Restated	F	Trade	H	Trade Cancel	9	Suspended
Value	Meaning																							
0	New																							
4	Cancelled																							
5	Replaced																							
8	Rejected																							
C	Expired																							
D	Restated																							
F	Trade																							
H	Trade Cancel																							
9	Suspended																							
Execution Report Ref ID	54	12	String	Reference to the trade being cancelled or corrected. Required if Exec Type is Trade Cancel.																				
Order Status	66	1	UInt8	The status of the order. <table><tr><th>Value</th><th>Meaning</th></tr><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>6</td><td>Expired</td></tr><tr><td>8</td><td>Rejected</td></tr><tr><td>9</td><td>Suspended</td></tr></table>	Value	Meaning	0	New	1	Partially filled	2	Filled	4	Cancelled	6	Expired	8	Rejected	9	Suspended				
Value	Meaning																							
0	New																							
1	Partially filled																							
2	Filled																							
4	Cancelled																							
6	Expired																							
8	Rejected																							
9	Suspended																							
Order Reject Code	67	4	Int32	Code specifying the reason for the reject or the expiry. Please refer to the Reject Code Specification for the list of reject codes and meanings specific to LSEG. The value in this field should be disregarded if Exec Type is not Rejected (8) or Expired(C).																				
Executed Price	71	8	Price	Value of this fill. Required if Exec Type is Trade. Should be ignored for Exec type other than Trade (F) or Restated (D), or the Execution Report is the acknowledgement of a new price or an amendment to the price of an Offset Order (Order Sub Type = 55). For restatements this field represents the re-priced value. If Exec Type is 'Restated (D)', this field represents the re-priced value at the start of CPX with new price equal to closing price.																				

Field	Offset	Length	Data Type	Description																
				Will not be populated for restatements related to Trade Cancellations and Corrections. For Offset Orders (Order Sub Type = 55), this field will contain the calculated price of the order once it has been elected to the order book. Offset orders are not in scope for LSE 24.																
Executed Qty	79	4	Int32	Quantity that was executed in this fill.																
Leaves Qty	83	4	Int32	Quantity available for further execution. Will be '0' if Order Status is Filled, Cancelled, Rejected or Expired.																
Waiver Flags/Post Trade Flags	87	1	UInt8	Pre-trade waiver or Post Trade flag. Populated when Execution Type is F or H. <table><tr><th>Bit</th><th>Name</th><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>CLSE</td><td>0 : No 1 : Yes</td><td>Post Trade flag, Trade Executed During CPX session at closing price</td></tr><tr><td>3</td><td>ILQD</td><td>0 : No 1 : Yes</td><td>Waiver Flag</td></tr><tr><td>5</td><td>RFPT</td><td>0 : No 1 : Yes</td><td>Waiver Flag</td></tr></table>	Bit	Name	Value	Meaning	1	CLSE	0 : No 1 : Yes	Post Trade flag, Trade Executed During CPX session at closing price	3	ILQD	0 : No 1 : Yes	Waiver Flag	5	RFPT	0 : No 1 : Yes	Waiver Flag
Bit	Name	Value	Meaning																	
1	CLSE	0 : No 1 : Yes	Post Trade flag, Trade Executed During CPX session at closing price																	
3	ILQD	0 : No 1 : Yes	Waiver Flag																	
5	RFPT	0 : No 1 : Yes	Waiver Flag																	
Display Qty	88	4	Int32	Current visible quantity. This field will also be populated for un-elected/parked orders.																
Instrument ID	92	4	Int32	Identifier of the instrument the Execution Report is sent for.																
Restatement Reason	96	1	UInt8	Reason order was restated or cancelled. Required if ExecType (53) is Restated (D) or if the execution report is sent for an unsolicited cancellation. <table><tr><td>3</td><td>Order re-priced (at the start of CPX session)</td></tr><tr><td>8</td><td>Market Option<ul style="list-style-type: none">Order is cancelled by market operationsTrade is cancelled by market operationsOn-book trade is cancelled via Post Trade Gateway</td></tr><tr><td>100</td><td>Order Replenishment (with a new Public Order ID)</td></tr></table>	3	Order re-priced (at the start of CPX session)	8	Market Option <ul style="list-style-type: none">Order is cancelled by market operationsTrade is cancelled by market operationsOn-book trade is cancelled via Post Trade Gateway	100	Order Replenishment (with a new Public Order ID)										
3	Order re-priced (at the start of CPX session)																			
8	Market Option <ul style="list-style-type: none">Order is cancelled by market operationsTrade is cancelled by market operationsOn-book trade is cancelled via Post Trade Gateway																			
100	Order Replenishment (with a new Public Order ID)																			
Pegged Exec Inst	97	1	UInt8	The instruction for permissioning to trade against mid-priced pegged orders. Any execution generated against a mid-priced pegged order will be on trading venue XLOX. Pegged orders are not in scope for LSE 24. <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Permissioned for execution against mid-priced pegged orders</td></tr><tr><td>2</td><td>Not permissioned for execution against mid-priced pegged orders</td></tr></table>	Value	Meaning	1	Permissioned for execution against mid-priced pegged orders	2	Not permissioned for execution against mid-priced pegged orders										
Value	Meaning																			
1	Permissioned for execution against mid-priced pegged orders																			
2	Not permissioned for execution against mid-priced pegged orders																			
Side	98	1	Int8	Side of the order. <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Buy</td></tr><tr><td>2</td><td>Sell</td></tr></table>	Value	Meaning	1	Buy	2	Sell										
Value	Meaning																			
1	Buy																			
2	Sell																			

Field	Offset	Length	Data Type	Description	
Owner Type	99	1	UInt8	Not applicable for Quotes. Optional identification (non-public) submitted with the order:	
				Value	Meaning
				0	Default No flag applied.
				1	Retail investor An end retail order that meets the required definition ⁵
				2	Retail Liquidity Provider An order that is only permitted to execute against an identified end retail order Value 2 is only permitted for <ul style="list-style-type: none">• Mid-Priced Pegged Orders;• Mid-Priced Pegged Limit Orders;• Hidden Limit Orders; or• Orders with an IOC or FOK TIF.
Pegged orders are not in scope for LSE 24.					
Reserved Field 2	100	7	String	Reserved for future use.	
Counterparty	107	11	String	Counterparty Firm. Will be populated only if Exec Type is Trade (F) or Trade Cancel (H) for an order/quote. . If a trade is internalised, the Counterparty Firm will be populated with the user's own Firm ID. If a trade is cleared, the Counterparty Firm will be populated with CCP derived based on user/instrument configuration. If a trade is not cleared, the Counterparty Firm will be populated with Contra Party Firm ID.	
Trade Liquidity Indicator	118	1	Alpha	Whether the order added or removed liquidity. The value in this field should only be considered if the Exec Type is Trade (F), or Trade Cancel (H), For the rest of exec types, the value in this field should be ignored. Value Meaning AAdded Liquidity RRemoved Liquidity CAuction	
Trade Match ID (TVTIC)	119	8	UInt64	Identifier of the trade. This will be the binary format value of the base 36 encoded trade id in the system. This will be same as MITCH Trade ID. Also the identifier sent to the clearer.	
Transact Time	127	8	UInt64	Time the Execution Report was generated.	
LastMarket	135	1	UInt8	Market (Segment MIC) where execution took place. The value in this field should be disregarded if Exec Type is not Trade (F). Value Meaning	

⁵ Refer to related documentation for the definition of a retail order.

Field	Offset	Length	Data Type	Description								
				21XLON (On Exchange LSE RM)								
				22XLOM (On Exchange Non-AIM MTF)								
				23AIMX (On Exchange AIM MTF)								
				24XPVT (On Exchange Private Securities Market)								
				25XLOX (On Exchange Mid-Priced Executions)								
				26XLOE (LSE 24 Extended Trading)								
Type Of Trade	136	1	UInt8	<p>Indicates whether the executed portion of a passive order during continuous trading session is visible or hidden.</p> <p>The below values are populated accordingly during Regular trading and CPX sessions, while for all other sessions enum 2 will be stamped.</p> <p>Valid only if ExecType = F. Ignore value in all other cases. Ignore value in all other cases</p> <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>0</td><td>Visible</td></tr><tr><td>1</td><td>Hidden</td></tr><tr><td>2</td><td>Not Specified (for aggressive side, auction trades and RFQ trades)</td></tr></tbody></table>	Value	Meaning	0	Visible	1	Hidden	2	Not Specified (for aggressive side, auction trades and RFQ trades)
Value	Meaning											
0	Visible											
1	Hidden											
2	Not Specified (for aggressive side, auction trades and RFQ trades)											
Capacity	137	1	UInt8	<p>Capacity of the order.</p> <table><thead><tr><th>Value</th><th>Meaning</th></tr></thead><tbody><tr><td>1</td><td>Matched Principal (MTCH)</td></tr><tr><td>2</td><td>Dealing on own account (DEAL)</td></tr><tr><td>3</td><td>Any other trading capacity (AOTC)</td></tr></tbody></table>	Value	Meaning	1	Matched Principal (MTCH)	2	Dealing on own account (DEAL)	3	Any other trading capacity (AOTC)
Value	Meaning											
1	Matched Principal (MTCH)											
2	Dealing on own account (DEAL)											
3	Any other trading capacity (AOTC)											
Reserved Field 4	138	1	Alpha	Reserved for future use.								
Public Order ID	139	12	String	Maintained by matching engine, will be unique for each replenishment of a particular iceberg order. This will be a 62 base encoded value in ASCII format.								
Minimum Quantity	151	4	Int32	Minimum Execution Size (MES) specified on a pegged order. Following an execution if the remaining quantity of order < MES specified in the order, Minimum Quantity = Remaining Quantity. Minimum Quantity will equal zero if the Remaining Quantity of an order becomes zero. For order types other than pegged, this field will always contain zero '0'.								

Pegged orders are not in scope for LSE 24.

8.4.7 Order Cancel Reject

Field	Offset	Length	Data Type	Description
Header				
Message Body				
App ID	4	1	UInt8	Partition ID
Sequence No	5	4	Int32	Sequence number of the message.

Field	Offset	Length	Data Type	Description
Client Order ID	9	20	String	Client Order ID that was submitted with the order cancels or cancel/replace request being rejected. Should not be prefixed or suffixed with a forward slash, or contain two consecutive forward slashes.
Order ID	29	12	String	Server specified identifier of the order for which the cancel or cancel/replace was submitted. Will be "NONE" if the order is unknown. For RFQ quotes, this field will be stamped with either Bid ID or Offer ID.
Cancel Reject Reason	41	4	Int32	Code specifying the reason for the reject. Please refer to the Reject Code Specification for the list of reject codes and meanings specific to LSEG.
Transact Time	45	8	UInt64	Time the Order Cancel Reject occurred. The first four bytes of the Transact Time timestamp will represent the Unix (Posix) time, while the next four bytes will specify the nanoseconds. The Transact Time will be in UTC.
RFQ ID	53	10	String	The unique identifier of the initial RFQ automatically generated via the server.

8.4.8 Order Mass Cancel Report

Field	Offset	Length	Data Type	Description	
Header					
Message Body					
App ID	4	1	UInt8	Partition ID	
Sequence No	5	4	Int32	Sequence number of the message.	
Client Order ID	9	20	String	Client specified identifier of mass cancel request. Should not be prefixed or suffixed with a forward slash, or contain two consecutive forward slashes.	
Mass Cancel Response	29	1	UInt8	Whether the Mass Cancel Request was accepted or rejected.	
				Value	Meaning
				0	Rejected
				7	Accepted
Mass Cancel Reject Reason	30	4	Int32	The code that identifies the reason the order mass cancel was rejected. Please refer to the Reject Code Specification for the list of reject codes and meanings..	
Reserved Field 1	34	4	Int32	Reserved for future use.	
Transact Time	38	8	UInt64	Time the order mass cancel report was generated. The first four bytes of the TransactTime timestamp will represent the Unix (Posix) time, while the next four bytes will specify the nanoseconds. The Transact Time will be in UTC.	
Reserved Field 2	46	10	String	Reserved for future use.	

8.4.9 Quote Request

Generated by:

- (i) The Requester to submit an RFQ
- (ii) The server to send the RFQ to the Market Maker

8.4.9.1 Client-initiated Request For Quote

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The value will be ignored in client-initiated messages.
Sequence Number	5	4	Int32	The value will be ignored in client-initiated messages.
Quote Req ID	9	10	String	Client specified identifier of the RFQ. The valid range of ASCII characters (decimal) to preserve data integrity and not to cause an issue on CCP side is 0 and 32-126 except: <ul style="list-style-type: none">– 35 # (hash)– 47 / (forward slash)– 59 ; (semi colon)– 92 \ (back slash) The characters outside of this range will be replaced by LSEG with “-” (hyphen) in Trade Capture Report (Message Type=AE) sent to clients and to CCP/s.
Order Book	19	1	UInt8	Value Meaning
				11 RFQ Trades
Private Quote	20	1	UInt8	Value Meaning
				2 Private Quote
Instrument ID	21	4	Int32	Instrument ID of the instrument
Side	25	1	UInt8	Side of the Quote Request. A valid side (i.e., 1 or 2) must be specified when the Quote Request Type = 1, 4 or 5 (automatic) in the client-initiated message.
				Value Meaning
				0 None
				1 Buy
				2 Sell
Order Quantity	26	4	Int32	Quantity that the Requester is expecting to trade. Should be greater than zero.
Expire Time	30	4	UInt32	Indicates the date or the time the RFQ expires, in Unix (Posix) time format (number of seconds after 1 January 1970). A value of zero ('0') means no expiry time. It is also possible to have a millisecond expiry time component (see field 'Expire Time Milliseconds').
Market Makers	34	60	String	Pipe separated list of Firm IDs, if it is required to target this quote request to specific Market Makers. A value of null means send to all Market Makers.
Contra Trader	94	11	String	The value will be ignored in client-initiated messages.
Contra Firm	105	11	String	The value will be ignored in client-initiated messages.
RFQ ID	116	10	String	The value will be ignored in client-initiated messages.
Client ID	126	4	UInt32	Identifier of the client. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted:
				Value Meaning

Field	Offset	Length	Data Type	Description
				0 None
				1 AGGR
				2 PNAL
				4 – 4294967295 Short code
Investment Decision Maker	130	4	UInt32	Identifier of the trading member/participant who made investment decision. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted:
				Value Meaning
				0 None
				4 – 4294967295 Short code
Executing Trader	134	4	UInt32	Identifier of the trading member/participant who made the execution decision. '0' will not be accepted as a valid value. Only the following values will be accepted:
				Value Meaning
				3 CLIENT
				4 – 4294967295 Short code
MiFID Flags	138	1	Bit-Field	Flags introduced to identify DEA involvement, Algo and Liquidity provision activity. '0' will be accepted as a valid value. If a bit is not specified, it will be set to '0'.
				Bit Name Meaning
				0 DEA Flag 0: No 1: Yes
				1 Liquidity Provision 0: No 1: Yes
				2 ALGO 0: No 1: Yes
				3 Reserved -
				4 Reserved -
				5 Reserved -
				6 Reserved -
				7 Reserved -
Party Role Qualifiers	139	1	Bit-Field	Provides a further qualification for the value specified via the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' fields. It will not be allowed to specify the value (0,0 – None) for the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' two-bit positions when the Client ID, Investment Decision Maker and/or 'Executing Trader ID' is being specified as a short code (i.e., 4-4294967295).
				Provides a further qualification for the value specified via the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' IDs. It will not be allowed to specify the value (0,0 – None) for the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' two-bit positions when the 'Client ID', 'Investment Decision Maker' and/or 'Executing Trader ID' is being specified as a short code (i.e., 4-4294967295).
				Description Bit Position Bit Value
				Client ID 0 0, 1
				1 0, 1

Field	Offset	Length	Data Type	Description		
				Investor Information		
				2	0, 1	
				3	0, 1	
				Executing Trader Information		
				4	0, 1	
				5	0, 1	
				Reserved		
				6	-	
				Reserved		
				7	-	
				The combination of two relevant bits represent the following:		
				Bit Value	Bit Value	Meaning
				0	0	None
				0	1	LEI/Firm
				1	0	Algo
				1	1	Natural Person
Please refer to the Order Record Keeping Information section for more details.						
Quote Request Type	140	1	UInt8	Indicates the type of Quote Request		
Value	Meaning					
0	Manual (Named if any Market Maker IDs are specified, else Anonymous)					
1	Automatic (Named if any Market Maker IDs are specified, else Anonymous)					
2	Manual (Named)					
3	Manual (Anonymous)					
4	Automatic (Named)					
5	Automatic (Anonymous)					
Price	141	8	Price	Limit Price. A value of '0' will be interpreted as opting to auto peg the limit price to far touch.		
RFQ Execution Delay	149	1	UInt8	The minimum number of seconds from the time of RFQ submission to be elapsed for the RFQ execution to be triggered automatically. Values supported in the range 0 – 255 (seconds). Note that for a value of zero ('0') seconds, the system will default to the system minimum delay (refer to Service & Technical Description). Only valid when Quote Request Type = 1, 4 or 5 (Automatic). This will be ignored when the RFQ is not automatic.		
RFQ Min Quotes	150	1	UInt8	The minimum number of market maker quotes to be available for the RFQ execution to be triggered automatically. Only valid when Quote Request Type = 1, 4 or 5 (Automatic). This will be ignored when the RFQ is not automatic.		
Account Type	151	1	UInt8	Clearing Account Type.		

Field	Offset	Length	Data Type	Description
				Value Meaning
				1 Client
				3 House
				Only valid when Quote Request Type = 4 or 5 (Automatic). This will be ignored when the RFQ is not automatic
Order Capacity	152	1	UInt8	Capacity of the RFQ.
				Value Meaning
				1 Matched Principal (MTCH)
				2 Dealing on own account (DEAL)
				3 Any other trading capacity (AOTC)
				Only valid when Quote Request Type = 4 or 5 (Automatic). This will be ignored when the RFQ is not automatic
RFQ Disclose Side	153	1	UInt8	Instructs the system whether to disclose the side of the request as stated in the Side field to the market makers or not.
				Value Meaning
				0 Do not disclose
				1 Disclose
				Only valid when Quote Request Type = 4 or 5 (Automatic). This will be ignored when the RFQ is not automatic
				For Quote Request Type = 2 or 3 (Manual) the side is always disclosed to the Market Makers.
				For Auto RFQ Execution Strategy 'Sub LIS Auction RFQ with Order Book Sweep' – 1 (Disclose) is not allowed and will be rejected.
Expire Time Milliseconds	154	4	UInt32	Indicates the number of milliseconds to be added to the date or the time the RFQ expires on specified in the 'Expire Time' field. The maximum allowed value is 999, the minimum is 0.
				If the RFQ is to be expired in less than one second, then this field needs to be populated whilst the 'Expire Time' field is set to the current time (system time).
				The value specified in this field will be ignored if 'Expire Time' is not specified (i.e., set to zero ('0')).
AutoRFQExecStrategy	158	1	UInt8	The value will be ignored in client-initiated message
NumOfCompetitors	159	1	UInt8	The value will be ignored in client-initiated message
Market Maker Rank	160	1	UInt8	The rank of the market makers the request should be routed to.
				If specified, the request will be routed to the market makers with a rank equal to or better than the specified rank for the instrument, provided rank based routing is valid for the RFQ.
				This field is only valid for an auto RFQ.
				A value of '0' will be considered as unspecified.
Reserved Field	161	23		Reserved For Future Use

8.4.9.2 Server-initiated Quote Request to Market Maker

Field	Offset	Length	Data Type	Description	
Header					
Message Body					
Partition ID	4	1	UInt8	The server will stamp the identifier of the matching partition for the instrument	
Sequence Number	5	4	Int32	The server will stamp the message sequence number of the matching partition.	
Quote Req ID	9	10	String	This field is not received by the MM and will always be stamped with '0'.	
Order Book	19	1	UInt8	Value	Meaning
				11	RFQ Trades
Private Quote	20	1	UInt8	Value	Meaning
				2	Private Quote
Instrument ID	21	4	Int32	Instrument ID of the instrument	
Side	25	1	UInt8	Side of the Quote Request.	
				Value	Meaning
				0	None
				1	Buy
				2	Sell
Order Quantity	26	4	Int32	Quantity that the Requester is expecting to trade. Will always be greater than '0'.	
Expire Time	30	4	UInt32	This field is not received by the MM and is always stamped with '0'.	
Market Makers	34	60	String	This field is not received by the MM and is always stamped with null.	
Contra Trader	94	11	String	For Named Models only, the server will stamp the User ID of the Requester to send to the Market Maker. For Anonymous Models this field will be null.	
Contra Firm	105	11	String	For Named Models only, the server will stamp the Firm ID of the Requester to send to the Market Maker. For Anonymous Models this field will be null.	
RFQ ID	116	10	String	The unique identifier of the initial RFQ automatically generated via the server.	
Client ID	126	4	UInt32	This field is not received by the MM and is always stamped with '0'.	
Investment Decision Maker	130	4	UInt32	This field is not received by the MM and is always stamped with '0'.	
Executing Trader	134	4	UInt32	This field is not received by the MM and is always stamped with '0'.	
MiFID Flags	138	1	Bit-Field	This field is not received by the MM and is always stamped with '0'.	
Party Role Qualifiers	139	1	Bit-Field	This field is not received by the MM and will always be stamped with '0'.	

Field	Offset	Length	Data Type	Description
Quote Request Type	140	1	UInt8	Indicates the type of Quote Request
				Value Meaning
				0 Manual
				1 Automatic
Price	141	8	Price	This field is not received by the MM and will always be stamped with '0'.
RFQ Execution Delay	149	1	UInt8	This field is not received by the MM and will always be stamped with '0'.
RFQ Min Quotes	150	1	UInt8	This field is not received by the MM and will always be stamped with '0'.
Account Type	151	1	UInt8	This field is not received by the MM and will always be stamped with '0'.
Order Capacity	152	1	UInt8	This field is not received by the MM and will always be stamped with '0'.
RFQ Disclose Side	153	1	UInt8	This field is not received by the MM and will always be stamped with '0'.
Expire Time Milliseconds	154	4	UInt32	This field is not received by the MM and is always stamped with '0'.
AutoRFQExecStrategy	158	1	UInt8	This field will include the applicable Auto RFQ Execution Strategy 'Sub LIS Auction with Order Book Sweep or LIS Winner Takes All' model. This is applicable for ETPs Only.
				Value Meaning
				1 Sub LIS Auction
				4 LIS Winner Takes All
				This field will not be populated for manual RFQs and for Auto RFQ Winner Takes All for Equities & DRs

Field	Offset	Length	Data Type	Description
NumOfCompetitors	159	1	UInt8	The number of competing Respondents (the total number of market maker firms) the quote request has been routed to. This field will not be populated for manual RFQs and for Auto RFQ Winner Takes All. This field will be populated for Auto-complete Auction RFQ with Order Book Sweep.
Market Maker Rank	160	1	UInt8	This field is not received by the MM and is always stamped with '0'.
Reserved Field	161	23		Reserved For Future Use

8.4.10 Quote Status Report

Generated by:

- (i) the server to communicate the status of the RFQ to the Requester

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The server will stamp the identifier of the matching partition for the instrument.
Sequence Number	5	4	Int32	The server will stamp the message sequence number of the matching partition.
Quote Msg Id	9	20	String	Identifier specified by the client in the RFQ modification/cancellation/execution request.
Quote Req ID	29	10	String	Client specified identifier of the RFQ that is being responded to.
Quote Status	39	1	UInt8	Value Meaning
				1 Accepted
				2 Rejected
Reject Code	40	4	Int32	Reject code. If the request is accepted by the system, the reject code will equal -1.
Order Book	44	1	UInt8	Value Meaning
				11 RFQ Trades
Market Makers	45	60	String	Pipe separated list of MM Firm IDs where specified by Requester otherwise null.
RFQ ID	105	10	String	The unique identifier of the RFQ automatically generated via the server.
Expire Time	115	4	UInt32	Indicates the date or the time the RFQ expires, in Unix (Posix) time format (number of seconds after 1 January 1970). A value of zero (0) means no expiry time.
Bid ID	119	12	String	Unique identifier assigned to the bid side of the quote. Should be ignored if a RFQ quote amendment is rejected.
Offer ID	131	12	String	Unique identifier assigned to the offer side of the quote. Should be ignored if a RFQ quote amendment is rejected.
Expire Time Milliseconds	143	4	UInt32	Indicates the number of milliseconds to be added to the date or time the RFQ expires on specified in the 'Expire Time' field.

8.4.11 Quote Request Reject

Generated by:

- (iii) The server to reject an RFQ from a Requester
- (iv) The Market Maker to reject the RFQ
- (v) The server to communicate the rejection of the RFQ by a Market Maker to the Requester

8.4.11.1 The Server to reject an RFQ from a Requester or communicate Market maker rejection

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The server will stamp the identifier of the matching partition for the instrument.
Sequence Number	5	4	Int32	The server will stamp the message sequence number of the matching partition.
Quote Req ID	9	10	String	Client specified identifier of the RFQ being rejected. Only valid when the server rejects the RFQ.
Reject Code	19	4	Int32	Reject code.
Order Book	23	1	UInt8	Value Meaning
				11 RFQ Trades
Instrument ID	24	4	Int32	Instrument ID of the instrument
Side	28	1	UInt8	Value Meaning
				0 None
				1 Buy
				2 Sell
Order Quantity	29	4	Int32	Only valid when the server rejects the RFQ, with the quantity specified in the RFQ message.
Market Makers	33	60	String	Contains the pipe separated list of Market Maker Firm IDs (or null) as specified by the Requester if the message was generated by the server to reject an RFQ. Contains the individual Market Maker Firm ID in the named model if the message is sent by the server to the Requester to communicate the rejection of the RFQ by the Market Maker.
Contra Trader	93	11	String	Contains the individual Market Maker ID if the message is sent by the server to the Requester to communicate the rejection by the Market Maker.
RFQ ID	104	10	String	The unique identifier of the RFQ automatically generated via the server

8.4.11.2 The Market Maker to reject the RFQ

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The value will be ignored in client-initiated messages.
Sequence Number	5	4	Int32	The value will be ignored in client-initiated messages.
Quote Req ID	9	10	String	The value will be ignored in client-initiated messages.
Reject Code	19	4	Int32	Reject code.
Order Book	23	1	UInt8	Value Meaning
				11 RFQ Trades
Instrument ID	24	4	Int32	Instrument ID of the instrument
Side	28	1	UInt8	Value Meaning
				1 Buy
				2 Sell
Order Quantity	29	4	Int32	The value will be ignored in client-initiated messages.
Market Makers	33	60	String	The value is not applicable to Market Maker rejects.
Contra Trader	93	11	String	The value is not applicable to Market Maker rejects.
RFQ ID	104	10	String	The unique identifier of the RFQ that was automatically generated via the server.

8.4.12 RFQ Quote

Generated by:

- (i) The Market Maker to accept an RFQ
- (ii) The system to send the Requester the RFQ Quote provided by the Market Maker

An RFQ Quote also can be cancelled by using the Order Cancel request message (see section 8.4.4) and amendments to RFQ Quotes can be effected by using the order Cancel/Replace Request message (see section 8.4.3)

8.4.12.1 Market Maker to accept an RFQ

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The value will be ignored in client-initiated messages.
Sequence Number	5	4	Int32	The value will be ignored in client-initiated messages.
Quote Msg ID	9	20	String	Identifier of the RFQ quote request that is being accepted. X-Clear customers should not use more than 16 characters as a longer value will be truncated by CCP. The valid range of ASCII characters (decimal) to preserve data integrity and not to cause an issue on CCP side is 0 and 32-126 except: – 35 # (hash) – 47 / (forward slash)

Field	Offset	Length	Data Type	Description										
				<div><div><div>– 59 ; (semi colon)</div><div>– 92 \ (back slash)</div></div><div>The characters outside of this range will be replaced by LSEG with “-” (hyphen) in Trade Capture Report (Message Type=AE) sent to clients and to CCP/s.</div><div>If submitting two independent single sided RFQ Quotes for the same RFQ, the Quote Msg ID should be different in both quotes as this field is used to identify the RFQ Quote.</div></div>										
RFQ ID	29	10	String	Unique identifier assigned to the RFQ by the system.										
Instrument ID	39	4	Int32	Identifier of the instrument.										
Bid Price	43	8	Price	Bid price.										
Bid Quantity	51	4	Int32	Bid quantity.										
Offer Price	55	8	Price	Offer price.										
Offer Quantity	63	4	Int32	Offer quantity.										
Auto Cancel	67	1	UInt8	<table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Do not cancel</td></tr><tr><td>1</td><td>Conform</td></tr></table>	Value	Meaning	0	Do not cancel	1	Conform				
Value	Meaning													
0	Do not cancel													
1	Conform													
Market Maker	68	11	String	The value will be ignored in client-initiated messages.										
Market Maker Firm	79	11	String	The value will be ignored in client-initiated messages.										
Bid ID	90	12	String	The value will be ignored in client-initiated messages.										
Offer ID	102	12	String	The value will be ignored in client-initiated messages.										
Capacity	114	1	UInt8	<div>Capacity of the quote:</div> <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Matched Principal (MTCH)</td></tr><tr><td>2</td><td>Dealing on own account (DEAL)</td></tr><tr><td>3</td><td>Any other trading capacity (AOTC)</td></tr></table>	Value	Meaning	1	Matched Principal (MTCH)	2	Dealing on own account (DEAL)	3	Any other trading capacity (AOTC)		
Value	Meaning													
1	Matched Principal (MTCH)													
2	Dealing on own account (DEAL)													
3	Any other trading capacity (AOTC)													
Clearing Account	115	1	UInt8	<div>Clearing Account Type:</div> <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Client</td></tr><tr><td>3</td><td>House</td></tr></table>	Value	Meaning	1	Client	3	House				
Value	Meaning													
1	Client													
3	House													
Client ID	116	4	UInt32	<div>Identifier of the client. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted:</div> <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>AGGR</td></tr><tr><td>2</td><td>PNAL</td></tr><tr><td>4 – 4294967295</td><td>Short code</td></tr></table>	Value	Meaning	0	None	1	AGGR	2	PNAL	4 – 4294967295	Short code
Value	Meaning													
0	None													
1	AGGR													
2	PNAL													
4 – 4294967295	Short code													

Field	Offset	Length	Data Type	Description																											
				During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.																											
Investment Decision Maker	120	4	UInt32	Identifier of the trading member/participant who made investment decision. '0' will be stamped in a situation where the field is not specified. Only the following values will be accepted: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>None</td></tr><tr><td>4 – 4294967295</td><td>Short code</td></tr></table>	Value	Meaning	0	None	4 – 4294967295	Short code																					
Value	Meaning																														
0	None																														
4 – 4294967295	Short code																														
				During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.																											
Executing Trader	124	4	UInt32	Identifier of the trading member/participant who made the execution decision. '0' will not be accepted as a valid value. Only the following values will be accepted: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>3</td><td>CLIENT</td></tr><tr><td>4 – 4294967295</td><td>Short code</td></tr></table>	Value	Meaning	3	CLIENT	4 – 4294967295	Short code																					
Value	Meaning																														
3	CLIENT																														
4 – 4294967295	Short code																														
				During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.																											
MiFID Flags	128	1	Bit-Field	Flags introduced to identify DEA involvement, Algo and Liquidity provision activity. '0' will be accepted as a valid value. If a bit is not specified, it will be set to '0'. During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored. <table><tr><th>Bit</th><th>Name</th><th>Meaning</th></tr><tr><td>0</td><td>DEA Flag</td><td>0: No 1:Yes</td></tr><tr><td>1</td><td>Liquidity Provision</td><td>0: No 1:Yes</td></tr><tr><td>2</td><td>ALGO</td><td>0: No 1:Yes</td></tr><tr><td>3</td><td>Reserved</td><td>-</td></tr><tr><td>4</td><td>Reserved</td><td>-</td></tr><tr><td>5</td><td>Reserved</td><td>-</td></tr><tr><td>6</td><td>Reserved</td><td>-</td></tr><tr><td>7</td><td>Reserved</td><td>-</td></tr></table>	Bit	Name	Meaning	0	DEA Flag	0: No 1:Yes	1	Liquidity Provision	0: No 1:Yes	2	ALGO	0: No 1:Yes	3	Reserved	-	4	Reserved	-	5	Reserved	-	6	Reserved	-	7	Reserved	-
Bit	Name	Meaning																													
0	DEA Flag	0: No 1:Yes																													
1	Liquidity Provision	0: No 1:Yes																													
2	ALGO	0: No 1:Yes																													
3	Reserved	-																													
4	Reserved	-																													
5	Reserved	-																													
6	Reserved	-																													
7	Reserved	-																													
Party Role Qualifiers	129	1	Bit-Field	Provides a further qualification for the value specified via the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' fields. It will not be allowed to specify the value (0,0 – None) for the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' two-bit positions when the Client ID, Investment Decision Maker and/or 'Executing Trader ID' is being specified as a short code (i.e., 4-4294967295).																											

Field	Offset	Length	Data Type	Description																								
				<p>Provides a further qualification for the value specified via the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' IDs. It will not be allowed to specify the value (0,0 – None) for the 'Client ID', 'Investment Decision Maker' and 'Executing Trader' two-bit positions when the 'Client ID', 'Investment Decision Maker' and/or 'Executing Trader' ID is being specified as a short code (i.e., 4-4294967295).</p> <p>During amendments, the same value should be submitted as in the original message. Other valid values submitted during an amendment will be ignored.</p>																								
				<table><tr><th>Description</th><th>Bit Position</th><th>Bit Value</th></tr><tr><td rowspan="2">Client ID</td><td>0</td><td>0, 1</td></tr><tr><td>1</td><td>0, 1</td></tr><tr><td rowspan="2">Investor Information</td><td>2</td><td>0, 1</td></tr><tr><td>3</td><td>0, 1</td></tr><tr><td rowspan="2">Executing Trader Information</td><td>4</td><td>0, 1</td></tr><tr><td>5</td><td>0, 1</td></tr><tr><td>Reserved</td><td>-</td><td>-</td></tr><tr><td>Reserved</td><td>-</td><td>-</td></tr></table>	Description	Bit Position	Bit Value	Client ID	0	0, 1	1	0, 1	Investor Information	2	0, 1	3	0, 1	Executing Trader Information	4	0, 1	5	0, 1	Reserved	-	-	Reserved	-	-
Description	Bit Position	Bit Value																										
Client ID	0	0, 1																										
	1	0, 1																										
Investor Information	2	0, 1																										
	3	0, 1																										
Executing Trader Information	4	0, 1																										
	5	0, 1																										
Reserved	-	-																										
Reserved	-	-																										
				<p>The combination of two relevant bits represent the following:</p> <table><tr><th>Bit Value</th><th>Bit Value</th><th>Meaning</th></tr><tr><td>0</td><td>0</td><td>None</td></tr><tr><td>0</td><td>1</td><td>LEI/Firm</td></tr><tr><td>1</td><td>0</td><td>Algo</td></tr><tr><td>1</td><td>1</td><td>Natural Person</td></tr></table>	Bit Value	Bit Value	Meaning	0	0	None	0	1	LEI/Firm	1	0	Algo	1	1	Natural Person									
Bit Value	Bit Value	Meaning																										
0	0	None																										
0	1	LEI/Firm																										
1	0	Algo																										
1	1	Natural Person																										
				<p>Please refer to the Order Record Keeping Information section for more details.</p>																								
Reserved Field	130	16		Reserved For Future Use.																								

8.4.12.2 System to send Requester the RFQ Quote provided by the Market Maker

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The server will stamp the identifier of the matching partition for the instrument.
Sequence Number	5	4	Int32	The server will stamp the message sequence number of the matching partition.
Quote Msg ID	9	20	String	This field is not received by Requestor and is stamped with '0'.
RFQ ID	29	10	String	Unique identifier assigned to the RFQ by the system.
Instrument ID	39	4	Int32	Identifier of the instrument.

Field	Offset	Length	Data Type	Description						
Bid Price	43	8	Price	Bid price.						
Bid Quantity	51	4	Int32	Bid quantity.						
Offer Price	55	8	Price	Offer price.						
Offer Quantity	63	4	Int32	Offer quantity.						
Auto Cancel	67	1	UInt8	Value is specified by MM in RFQ Quote: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>0</td><td>Do not cancel</td></tr><tr><td>1</td><td>Conform</td></tr></table>	Value	Meaning	0	Do not cancel	1	Conform
Value	Meaning									
0	Do not cancel									
1	Conform									
Market Maker	68	11	String	The Market Maker ID who is the owner of the quote. Only populated for Named models.						
Market Maker Firm	79	11	String	The Market Makers' Firm ID.						
Bid ID	90	12	String	Only populated for Named models.						
Offer ID	102	12	String	System generated Order ID for the Bid Side of the RFQ.						
Capacity	114	1	UInt8	Not applicable in the server-initiated message.						
Clearing Account	115	1	UInt8	Not applicable in the server-initiated message.						
Client ID	116	4	UInt32	This field is not received by Requestor and is stamped with '0'.						
Investment Decision Maker	120	4	UInt32	This field is not received by Requestor and is stamped with '0'.						
Executing Trader	124	4	UInt32	This field is not received by Requestor and is stamped with '0'.						
MiFID Flags	128	1	Bit-Field	This field is not received by Requestor.						
Party Role Qualifiers	129	1	Bit-Field	This field is not received by Requestor.						
Reserved Field	130	16		Reserved For Future Use.						

8.4.13 Quote Ack

Generated by:

- (i) The server to acknowledge a new or modified RFQ Quote to the Market Maker
- (ii) The server to respond to an RFQ Quote cancellation

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The server will stamp the identifier of the matching partition for the instrument.
Sequence Number	5	4	Int32	The server will stamp the message sequence number of the matching partition.
Quote Msg ID	9	20	String	Market Maker specified identifier of the quote or quote cancel request the message relates to.

Field	Offset	Length	Data Type	Description	
RFQ ID	29	10	String	Server specified identifier of the initial RFQ sent by the Requester.	
Bid ID	39	12	String	Server specified identifier of the bid side of the quote/RFQ quote. Should be ignored if a RFQ quote amendment is rejected. In the case of a Dual-sided RFQ Quote rejections, only Bid ID will be stamped in the Native Quote Ack message.	
Offer ID	51	12	String	Server specified identifier of the offer side of the quote/RFQ quote. Should be ignored if a RFQ quote amendment is rejected.	
Quote Ack Status	63	1	UInt8	Value	Meaning
				1	Accepted
				2	Rejected
Reject Code	64	4	Int32	Reason code.	
Order Book	68	1	UInt8	Value	Meaning
				11	RFQ Trades

8.4.14 Quote Response

Generated by:

- (i) The Requester to execute (accept) an RFQ Quote
- (ii) The Requestor to amend/cancel an RFQ
- (iii) The Requestor to make RFQ quotes public
- (iv) The server to communicate the status of an RFQ and RFQ Quote to the Requester and Market Makers

8.4.14.1 Requester to execute (accept) an RFQ Quote (only relevant for manual model) or initiate an RFQ amend/cancellation or make RFQ quotes public (relevant for both manual and automatic models)

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The value will be ignored in client-initiated messages.
Sequence Number	5	4	Int32	The value will be ignored in client-initiated messages.
Quote Msg ID	9	20	String	Required field. The client specified identifier of the RFQ modification/cancellation/execution request should be unique per user.
RFQ ID	29	10	String	The unique identifier assigned to the RFQ by the system.
Quote Resp Type	39	1	UInt8	Value Meaning
				1 Hit/Lift
				7 End Trade
				100 Replace
				102 Make RFQ quotes public

Field	Offset	Length	Data Type	Description
Instrument ID	40	4	Int32	Identifier of the Instrument.
Side	44	1	UInt8	Value submitted in the RFQ.
Order Quantity	45	4	Int32	Quantity to be traded when executing a manual RFQ. When cancelling/amending an RFQ, quantity should be the same as the quantity in the initial RFQ.
Limit Price	49	8	Price	When the quote response is used to accept a specific quote (QuoteRespType =1), the bid or offer price of the selected quote should be specified. When the quote response is used to amend the RFQ (QuoteRespType =100), the new limit price should be specified. A value of '0' will be interpreted as opting to auto peg the limit price to far touch.
Order Book	57	1	UInt8	Value Meaning
				11 RFQ Trades
Bid ID	58	12	String	Required in the Select and Match execution policy. Unique identifier assigned to the bid side of the quote.
Offer ID	70	12	String	Required in the Select and Match execution policy. Unique identifier assigned to the offer side of the quote.
Capacity	82	1	UInt8	Not applicable this will be ignored.
Clearing Account	83	1	UInt8	Not applicable this will be ignored.
Reserved Field	84	8	UInt64	Reserved for Future use

8.4.14.2 The server to communicate the status of an RFQ and RFQ Quote to the Requester and Market Makers

Field	Offset	Length	Data Type	Description	
Header					
Message Body					
Partition ID	4	1	UInt8	The server will stamp the identifier of the matching partition for the instrument.	
Sequence Number	5	4	Int32	The server will stamp the message sequence number of the matching partition.	
Quote Msg ID	9	20	String	The client specified identifier of the RFQ modification/cancellation/execution request.	
RFQ ID	29	10	String	The unique identifier assigned to the RFQ by the system.	
Quote Resp Type	39	1	UInt8	Value	Meaning
				3	Expired
				7	End Trade
				8	Timed Out
				11	Cancelled
				100	Replace
				101	Executable

Field	Offset	Length	Data Type	Description
Instrument ID	40	4	Int32	Identifier of the Instrument.

Field	Offset	Length	Data Type	Description								
Side	44	1	UInt8	<u>To Requester</u> Value submitted in the RFQ. <u>To Market Maker</u> For Manual RFQ, the Side is always disclosed. For Automatic RFQ: – If the DiscloseSide = N, then Side is not Disclosed (0 is sent) – If the DiscloseSide = Y, then side is Disclosed								
Order Quantity	45	4	Int32	In server generated messages, the quantity is not stamped.								
Limit Price	49	8	Price	In server generated messages, the price is not stamped.								
Order Book	57	1	UInt8	<table><tr><th>Value</th><th>Meaning</th></tr><tr><td>11</td><td>RFQ Trades</td></tr></table>	Value	Meaning	11	RFQ Trades				
Value	Meaning											
11	RFQ Trades											
Bid ID	58	12	String	For Quote Response, about RFQ status contains the system generated Order ID for the Bid Side of the RFQ. Not applicable for Quote Response about RFQ Quote Status (will contain null).								
Offer ID	70	12	String	For Quote Response, about RFQ status contains the system generated Order ID for the Offer Side of the RFQ. Not applicable for Quote Response about RFQ Quote Status (will contain null).								
Capacity	82	1	UInt8	Capacity of the order/quote: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Matched Principal (MTCH)</td></tr><tr><td>2</td><td>Dealing on own account (DEAL)</td></tr><tr><td>3</td><td>Any other trading capacity (AOTC)</td></tr></table>	Value	Meaning	1	Matched Principal (MTCH)	2	Dealing on own account (DEAL)	3	Any other trading capacity (AOTC)
Value	Meaning											
1	Matched Principal (MTCH)											
2	Dealing on own account (DEAL)											
3	Any other trading capacity (AOTC)											
Clearing Account	83	1	UInt8	Clearing Account Type: <table><tr><th>Value</th><th>Meaning</th></tr><tr><td>1</td><td>Client</td></tr><tr><td>3</td><td>House</td></tr></table>	Value	Meaning	1	Client	3	House		
Value	Meaning											
1	Client											
3	House											
Reserved Field	84	8	UInt64	Reserved for Future Use.								

8.4.15 RFQ Execution Report

Generated by:

- (i) The system to notify the Requester and the Market Maker about a trade or the status of the quote

Field	Offset	Length	Data Type	Description
Header				
Message Body				
Partition ID	4	1	UInt8	The server will stamp the identifier of the matching partition for the instrument.
Sequence Number	5	4	Int32	The server will stamp the message sequence number of the matching partition.

Field	Offset	Length	Data Type	Description	
Execution ID	9	12	String	Identifier of the message. This will be a base 62 encoded value in ASCII format.	
RFQ ID	21	10	String	Unique identifier assigned to RFQ by the system.	
Order ID	31	12	String	Stamped with the unique identifier assigned to quote response submitted by the Requester, sent to the Requester. Stamped with the unique identifier assigned to the corresponding side of the quote (Bid ID/Offer ID) submitted by the Market Maker, sent to the Market Maker.	
Execution Type	43	1	Alpha	Value	Meaning
				4	Cancelled
				C	Expired
				D	Restated
				F	Trade
				H	Trade Cancel
Trade Match ID (TVTIC)	44	8	UInt64	Identifier of the trade. This will be same as the MITCH Trade ID. This will be the binary format value of the base 36 encoded trade id in the system.	
Side	52	1	UInt8	Value	Meaning
				1	Buy
				2	Sell
Executed Quantity	53	4	Int32	Quantity executed.	
Executed Price	57	8	Price	Price executed. Will not be populated for restatements related to Trade Cancellations	
Transact Time	65	8	UInt64	Time the Execution Report was generated. The first four bytes of the Transact Time time stamp represents the Unix (Posix) time, while the next four bytes specify the nanoseconds. The Transact Time is in UTC.	
Reserved Field 2	73	8	Price	Reserved for future use.	
Reserved Field 3	81	8	Price	Reserved for future use.	
Order Status	89	1	UInt8	Value	Meaning
				1	PFill
				2	Fill
				4	Cancelled
				6	Expired
Leaves Quantity	90	4	Int32	Remaining quantity of the quote.	
Instrument ID	94	4	Int32	Instrument Identifier.	
Reserved field 4.	98	8	Price	Reserved field.	
Reserved field 5.	106	8	Price	Reserved field.	

Field	Offset	Length	Data Type	Description
Contra Firm	114	11	String	Contra firm of the execution. Contra firm will only be populated if Exec Type (150) is Trade (F) or Trade Cancel (H). If a trade is cleared, the Contra Firm will be populated with a CCP value derived based on user/instrument configuration. If a trade is not cleared, the Contra Firm will be populated with the Contra Party Firm ID.
Capacity	125	1	UInt8	Capacity of the order.
				Value Meaning
				1Matched Principal (MTCH)
				2Dealing on own account (DEAL)
				3Any other trading capacity (AOTC)
Clearing Account	126	1	UInt8	Clearing Account Type.
				Value Meaning
				1Client
				3House
Waiver Flags	127	1	UInt8	Pre-trade waiver flag. Populated when Execution Type is F or H. The Pre-Trade Waiver Flags section describes in which scenarios the values are populated.
				Bit Name Value
				3ILQD0 : No 1 : Yes
Execution Report Ref ID	128	12	String	Reference to the trade being cancelled.
Contra Order Book	140	1	UInt8	Identifier of the order book of the contra party of an RFQ execution. This field will only be populated in the Execution Report sent to the requestor when an RFQ executes with an order in the normal book Absence of this field is interpreted as RFQ Trade book for RFQ related executions
				Value Meaning
				1Regular
AvgPx	141	8	Price	Volume Weighted Average Price of all the executions reported so far for an RFQ on the requestor side and it will be the executed price on the quote side. This will be updated for trade cancels/corrections as well. AvgPx will be populated for all types of RFQs with an execution.

Field	Offset	Length	Data Type	Description	
LastMarket	149	1	UInt8	Market (Segment MIC) where execution took place. The value in this field should be disregarded if Exec Type is not Trade (F).	
				Value	Meaning
				21	XLON (On Exchange LSE RM)
				22	XLOM (On Exchange Non-AIM MTF)
				23	AIMX (On Exchange AIM MTF)
				26	XLOE (LSE 24 Extended Trading)
Reserved Field	150	7	String	Reserved For Future Use.	

8.5 Application messages: others

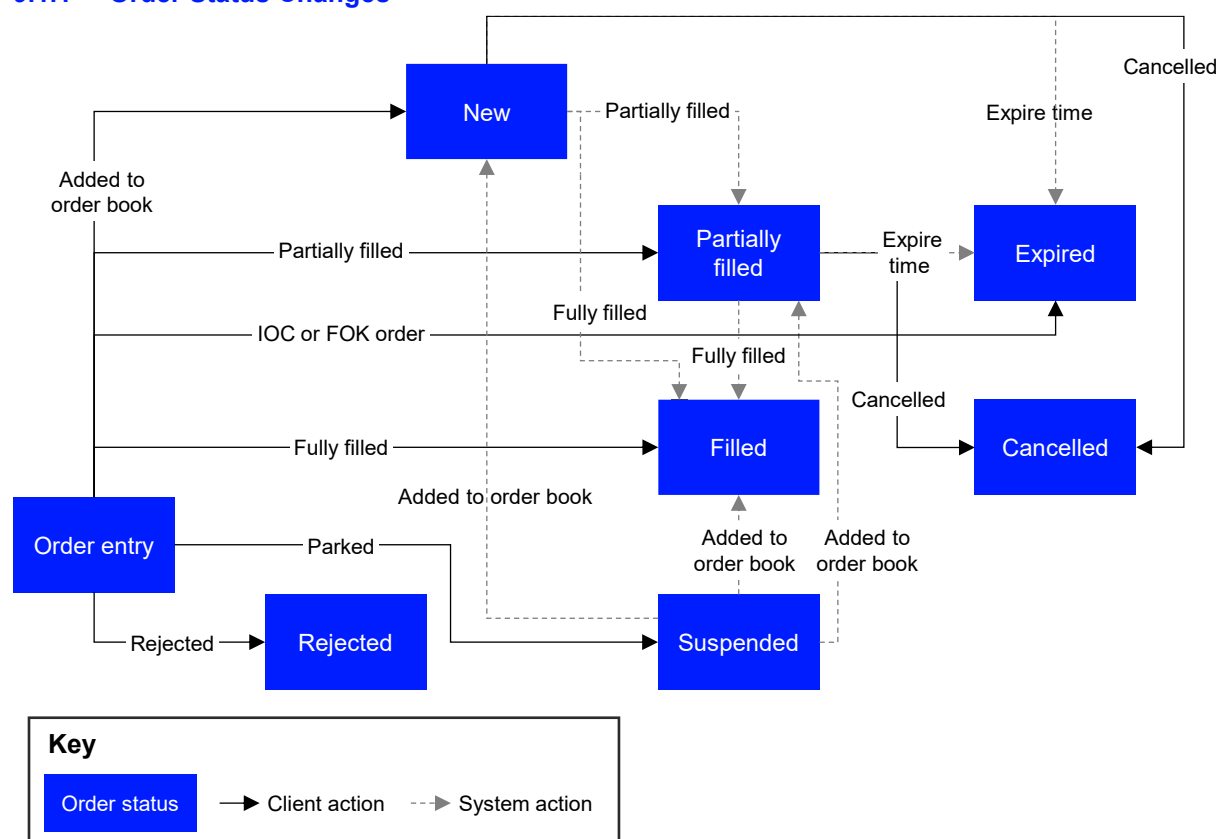
8.5.1 Business Reject

Field	Offset	Length	Data Type	Description	
Header					
Message Body					
App ID	4	1	UInt8	Partition ID	
				Value	Meaning
				1	Partition 1
				2	Partition 2
				3	Partition 3
				4	Partition 4
0	System Suspended/Unknown Instrument				
Sequence No	5	4	Int32	Sequence number of the message. Note that in the event the matching partition is unavailable or suspended this field will contain zero.	
Reject Code	9	4	Int32	Code specifying the reason for the reject. Please refer to the Reject Code Specification for the list of reject codes and meanings specific to LSEG.	
Client Order ID	13	20	String	Client specified identifier of the order.	
Order ID	33	12	String	Unique identifier of the order assigned by the matching system.	
Transact Time	45	8	UInt64	Time the message was generated by the matching partition. The first four bytes of the TransactTime timestamp will represent the Unix (Posix) time, while the next four bytes will specify the nanoseconds. The Transact Time will be in UTC. Note that in the event the matching partition is unavailable or suspended this field will contain zero.	
Reserved Field	53	10	String	Reserved for future use.	

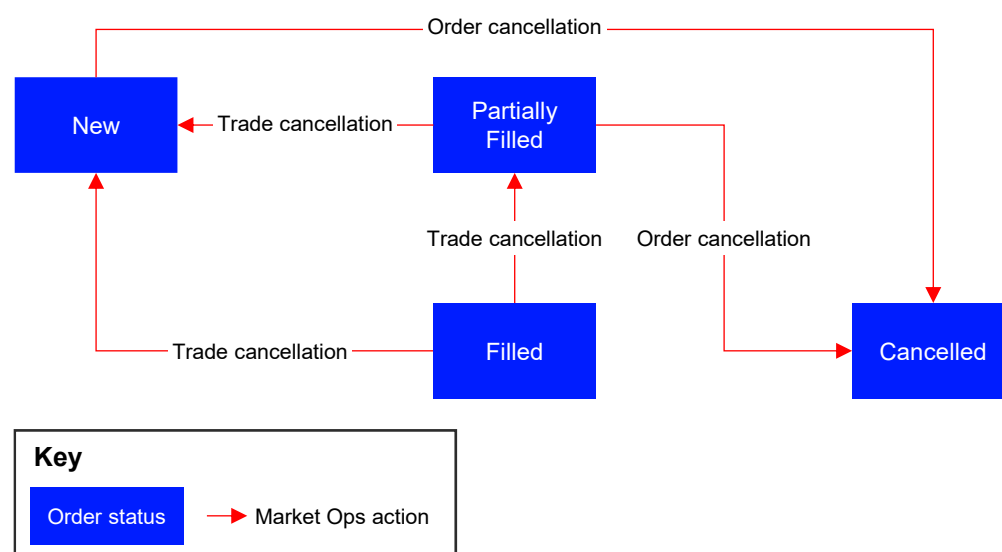
9.0 Process flows

9.1 Order handling

9.1.1 Order Status Changes



9.1.1.1 Market Operations actions



10.0 Service availability

Customer Activity	Availability
Telnet Access	16:55 – 15:10 (the following business day)
Login Access	16:55 – 15:10 (the following business day)
Order Deletion	17:00 – 14:50 (the following business day)

The early access trading hours are designed to maximise the testing time available to customers in the Customer Development Service (CDS) and will differ from the trading hours for the Production service, which will be communicated separately.

Clients wishing to test connectivity outside of these hours should review **MIT501 – Guide to Testing Services** for more information.

11.0 LSE main market vs LSE 24: Key Differences

This section summarises the differences between LSE 24 and the LSE main market.

Impacted Section	Differences between the Main LSE market vs LSE 24
3.2.1 Order types & validity types	<p>The following order types are out of scope for LSE 24;</p> <ul style="list-style-type: none"> • Pegged • Pegged Limit • Offset <p>The following validity types are out of scope for LSE 24;</p> <ul style="list-style-type: none"> • At the Open (OPG) • At the Close (ATC) • Good for EDSP Auction (GFX) • Good for Auction (GFA) • Good Till Date (GTD) • Good Till Time (GTT) • Good for Scheduled Auction (GFS) • Closing Price Crossing (CPX) • Auction Volume Discovery (AVD) • Auction Volume Discovery & Closing Price Crossing (AVC)
Application Messages	<p>The following RFQ models are out of scope for LSE 24;</p> <ul style="list-style-type: none"> • Manual Named RFQ to all MMs • Manual Anonymous RFQ to listed MMs • Manual Anonymous RFQ to all MMs • Automatic Named RFQ to all MMs • Automatic Anonymous RFQ to listed MMs • Automatic Anonymous RFQ to all MMs
3.3 Quote Handling	Electronic/Executable Quotes are not in scope for LSE 24.

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