



Order Entry Gateway Binary Specification

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Table of Contents

1	Session Management	12
1.1	Authentication	12
1.1.1	Comp ID	12
1.1.2	Password Encryption	12
1.1.3	Password	13
1.1.4	Change Password	13
1.2	Establishing a Binary Session	14
1.3	Message Sequence Numbers	14
1.4	Heartbeat and Test Request	14
1.5	Terminating a Binary Session	15
1.6	Re-establishing a Binary Session	15
1.7	Sequence Reset	15
1.8	Fault Tolerance	16
1.9	Checksum Validation	16
2	Recovery	17
2.1	General Message Recovery	17
2.2	Resend Request	17
2.3	Logon Message Processing – Next Expected Message Sequence	18
2.4	Possible Duplicates	18
2.5	Possible Resends	18
2.6	Gap Fills	18
2.7	Transmission of Missed Messages	19
2.8	Technical Halt	19
3	Service Description	20
3.1	Security Identification	20
3.2	Security Creation	20
3.2.1	Strategies	20
3.3	Order Submission	22
3.4	Order Types	22
3.5	Order Validity Conditions	24
3.6	Order Types and Permitted Order Validity Conditions	24

3.7	Order Identification	25
3.8	Order Expiry.....	25
3.9	Order Restatement	26
3.10	Order Amendment	26
3.11	Order Cancellation.....	27
3.12	Mass Cancellation	28
3.13	Cancel on Disconnect.....	29
3.14	<i>Mass Quote</i>	29
3.15	Auto Cross	31
3.16	<i>Request for Quote (RFQ)</i>	37
3.17	<i>Speed Bumps</i>	38
3.18	Message Throttling	49
3.19	Security Definition Throttle	50
3.20	Merged Order Books	50
3.21	Self Execution Prevention (SEP).....	52
3.22	<i>Market Maker Protection (MMP)</i>	57
3.23	Inflight Order Processing	57
3.24	Trade Reporting.....	58
3.25	Client ID Usage.....	59
4	Message Definitions.....	60
4.1	Inbound Messages	60
4.2	Outbound Messages.....	60
4.3	Data Types	61
4.4	Message Composition	64
4.4.1	Field Presence Map.....	64
4.4.2	Repeating Blocks and Nested Repeating Blocks	65
4.5	Required Fields.....	66
4.6	Message Header	67
4.7	Message Trailer	68
4.8	Administrative Messages.....	68
4.8.1	Logon (5)	68
4.8.2	Heartbeat (0).....	69
4.8.3	Test Request (1).....	69



4.8.4	Resend Request (2).....	69
4.8.5	Sequence Reset (4).....	73
4.8.6	Logout (6)	73
4.8.7	Reject (3)	74
4.9	Other Messages	74
4.9.1	Business Message Reject (7).....	74
4.9.2	News (40)	75
4.10	Application Messages.....	77
4.10.1	Security Definition Request (10).....	77
4.10.2	Security Definition (11)	79
4.10.3	New Order Single (12).....	82
4.10.4	New Order Cross (27).....	89
4.10.5	Amend Order (13).....	98
4.10.6	Order Amend Rejected (14).....	107
4.10.7	Cancel Order (15).....	108
4.10.8	Order Cancel Rejected (16).....	109
4.10.9	Cancel Cross Order (28).....	110
4.10.10	Execution Report (8).....	111
4.10.11	Mass Cancel Request (17)	139
4.10.12	Mass Cancel Report (18).....	141
4.10.13	Mass Quote (22)	145
4.10.14	Mass Quote Ack (23)	148
4.10.15	Quote Request (20)	156
4.10.16	Quote Request Ack (21)	156
4.10.17	MMP Reset Request (30)	158
4.10.18	MMP Reset Ack (31).....	159



Document History

Version	Date	Change Description
1.0	27/07/2020	Initial draft
1.1	28/01/2022	Internal review
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1.3	23/06/2023	4.10.8 added example message flow for order rejected price limits breached. Related High Price description includes Stop order handling 4.10.8 and 4.10.8.1 Direct Electronic Access, Aggregated Order, Pending Allocation Order, Liquidity Provision Order, Risk Reduction Order and Cancel on Disconnect changed to mandatory. Related High Price and Related Low Price conditional for Order Cancelled (Unsolicited) 4.10.4 updated Cancel on Disconnect description
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Version	Date	Change Description
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Version	Date	Change Description
1.9.01	11/11/2025	4.9.1 Added a new enum to Business Reject Code 4.10.8 Updated the description to include Cancel Cross Order messages 4.10.9 Updated the description to include Order Cancel Reject 3.7 Optional cross cancel attributes clarified 3.11 Optional cross cancel attributes clarified and updated the number of messages returned 3.15 Optional cross cancel attributes clarified and corrected an example flow 4.10.9 Clarified the number of messages returned 4.10.11 Updated to include Cross orders 4.9.1 Remove 'Cross order volume mismatch' enum 4.10.10 Updated to include cross processing Corrected typos 4.10.10 Corrected Execution with Firm advice
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<u>1.9.3</u>	<u>23/07/2026</u>	<u>Delivery Phasing removed SEP and Security Creation for Options contracts</u> <u>2.8 Updated behaviour</u> <u>3.2 Updated to include Option Strike</u> <u>3.21 Updated Self Execution Prevention (Service Description) and example flows</u> <u>4.3 String data type note updated to include ExecID</u> <u>4.10.1 Updated to include Options</u> <u>4.10.3 Updated description of SelfMatchPreventionID on New Order Single</u>



Version	Date	Change Description
		<u>4.10.5 Removed Self Match Prevention ID</u>
		<u>4.10.10 Updated description of Self Match Prevention ID on Execution Report</u>
		<u>4.10.10.1 Updated Execution Report Matrix to include Self Match Prevention ID</u>
		<u>4.10.11 Added Options contract to example</u>
		<u>4.10.12 Added Options contract to example</u>



Preface

This document describes the binary interface protocol of the LME Order Entry Gateway.

The terminology used, message format, message flow and event models described throughout this document are similar to that of FIX 5.0 SP2 protocol specifications (<https://www.fixtrading.org>) where applicable, with some specific changes for performance and adaptability reasons.

Message flow examples in this document are illustrations and do not contain all the mandatory fields. The presence of (...) denotes that fields have been omitted.

Bit position is shown as BP in the message definitions.

This document should be read in conjunction with related materials on LME.com for LMEselect v10.

Delivery Phasing

This document covers all the functionality available in LMEselect 10 however functionality will be delivered in phased releases.

Functionality that will be included in a later release is specified in the following table and shown throughout the document in *dark grey italics*. The initial release will contain all functionality that is **not** specified in the table.

Function	Reference
Futures strategies: • 3 Month Average • 6 Month Average • 12 Month Average • Carry Average	3.2.1.1 Exchange Defined Strategy Types 4.10.1 Security Definition Request (10)
Options strategies: • Call spread • Put spread	3.2.1.1 Exchange Defined Strategy Types 4.10.1 Security Definition Request (10)
Custom strategies	3.2.1. Strategies 3.2.1.2 Custom Strategies 4.10.1 Security Definition Request (10) 4.10.2 Security Definition (11) (Example Message Flows) 4.10.8 Execution Report (8) (Example Message Flow)
Option contracts	3.2 Security Creation 3.2.1.1 Exchange Defined Strategy Types 3.2.1.2 Custom Strategies 4.10.1 Security Definition Request (10)



Function	Reference
	4.10.2 Security Definition (11) (Example Message Flows)
Order types: • Market • Stop Market • Iceberg • Post Only • One Cancels Other	3.4 Order Types 3.6 Order Types and Permitted Order Validity Conditions 3.10 Order Amendment (Display Quantity) 4.10.3 New Order Single (12) 4.10.4 Amend Order (13) 4.10.8 Execution Report (8) 4.10.8.1 Execution Report Matrix
Order validity condition: • Fill or Kill (FOK)	3.5 Order Validity Conditions 3.6 Order Types and Permitted Order Validity Conditions 4.10.3 New Order Single (12) 4.10.4 Amend Order (13) 4.10.8 Execution Report (8)
Mass Quote	2.7 Transmission of Missed Messages 3.7 Order Identification 3.3 Order Submission 3.10 Order Amendment 3.11 Order Cancellation 3.12 Mass Cancellation 3.14 Mass Quote 3.17 Message Throttling 3.24 Client ID Usage 4.1 Inbound Messages 4.2 Outbound Messages 4.4.2 Repeating Blocks and Nested Repeating Blocks 4.10.7 Order Cancel Rejected (16) 4.10.8 Execution Report (8) 4.10.8.1 Execution Report Matrix 4.10.9 Mass Cancel Request (17) 4.10.10 Mass Cancel Report (18)

Function	Reference
	4.10.11 Mass Quote (22) 4.10.12 Mass Quote Ack (23)
Request for Quote	2.7 Transmission of Missed Messages 3.15 Request for Quote (RFQ) 3.17 Message Throttling 4.1 Inbound Messages 4.2 Outbound Messages 4.10.13 Quote Request (20) 4.10.14 Quote Request Ack (21)
Speed Bumps	3.16 Speed Bumps 4.10.8 Execution Report (8) 4.10.8.1 Execution Report Matrix
Self Execution Prevention	3.20 Self Execution Prevention (SEP) 4.10.3 New Order Single (12) 4.10.4 Amend Order (13) 4.10.8 Execution Report (8) 4.10.8.1 Execution Report Matrix
Market Maker Protection	2.7 Transmission of Missed Messages 3.7 Order Identification 3.17 Message Throttling 3.21 Market Maker Protection (MMP) 4.1 Inbound Messages 4.2 Outbound Messages 4.9.2 News (40) 4.10.15 MMP Reset Request (30) 4.10.16 MMP Reset Ack (31)

1 Session Management

1.1 Authentication

1.1.1 Comp ID

A participant user should use the Comp ID (a unique session identifier) provided by the Exchange for each session in order to connect to the gateway. A single participant may have multiple connections to the gateway, i.e. multiple binary order entry sessions, each with its own Comp ID.

The messages sent to the gateway should contain the Comp ID assigned to the client in the field Comp ID in the header section of a message.

1.1.2 Password Encryption

The binary protocol requires Password and New Password to be encrypted when they are sent in the Logon (5) message from the client to the gateway.

To encrypt the password, the client is expected to use a 2048-bit RSA ([https://en.wikipedia.org/wiki/RSA_\(cryptosystem\)](https://en.wikipedia.org/wiki/RSA_(cryptosystem))) public key circulated by the Exchange on <https://www.lme.com/Trading/Systems/LMEselect>. The binary output of the RSA encryption must be represented in Big Endian PKCS #1 with padding scheme OAEP (https://en.wikipedia.org/wiki/PKCS_1) and then converted to an alphanumeric value by means of standard base-64 encoding (<http://en.wikipedia.org/wiki/Base64>) when communicating with the gateway.

Password encryption example:

```
public static String encrypt(String value) throws CryptographyException {
    try {
        Cipher cipher = Cipher.getInstance("RSA/ECB/OAEPWithSHA-1AndMGF1Padding");
        cipher.init(Cipher.ENCRYPT_MODE, publicKey);
        byte [] bytes = cipher.doFinal(value.getBytes());
        return Base64.getEncoder().encodeToString(bytes);
    } catch (NoSuchAlgorithmException | NoSuchPaddingException |
        InvalidKeyException | IllegalBlockSizeException | BadPaddingException e) {
        throw new CryptographyException(e.getMessage());
    }
}
.....

String pubKey = new String(keyBytes, "UTF-8");

pubKey = pubKey.replaceAll("(--BEGIN PUBLIC KEY--\\r?\\n|--END PUBLIC KEY--\\r?\\n?)", "");

pubKey = pubKey.replaceAll("(--BEGIN RSA PUBLIC KEY--\\r?\\n|--END RSA PUBLIC KEY--\\r?\\n?)", "");

pubKey = pubKey.replaceAll("\\n|\\r", "");

KeyFactory keyFactory = KeyFactory.getInstance("RSA");
```



```
X509EncodedKeySpec keySpec = new  
X509EncodedKeySpec(Base64.getDecoder().decode(pubKey.getBytes()));  
  
publicKey = keyFactory.generatePublic(keySpec);
```

1.1.3 Password

The client should specify their password in the Password field of the Logon (5) message. This password must be in encrypted form. For security reasons, the client is expected to prefix the login time, in UTC format (YYYYMMDDHHMMSS), to the password before encryption. The client must ensure that login time is in accurate UTC.

The gateway will extract the login time prefix from the decrypted password string and validate that it is within the acceptable tolerance of the actual current time. A logon request from the client that fails this validation is rejected by the gateway.

The gateway validates the password, any validation failure will result in logon attempt being unsuccessful.

Repeated failures in password validation will result in the client account being locked. The participant is expected to contact the Exchange to unlock the client account.

1.1.4 Change Password

Each new Comp ID will be assigned a password by the Exchange. The client is expected to change this password upon initial logon.

Each new Comp ID will be assigned a password on registration. The client is expected to change the password upon first logon whenever a password is (re)issued by the Exchange.

Password change request can be made together with Logon (5) request. The client should specify the encrypted new password in the New Password field and the current encrypted password in the Password field.

The new password must comply with Exchange's password policy¹. The status of the new password (i.e. whether it is accepted or rejected) will be specified in the Session Status response from the gateway. The new password, if accepted, will be effective for subsequent logins. If the new password provided fails validation, the gateway will reject the logon attempt.

1.1.4.1 Password Policy

The Exchange requires the password to contain:

- Minimum of 8 characters
- At least one number
- Combination of uppercase and lowercase characters.

Password history is retained and therefore the last 24 passwords cannot be reused.

¹ Note: The new password should not include the timestamp before it is encrypted. The timestamp should only be used for the login password.



1.2 Establishing a Binary Session

The client must wait for a successful Logon (5) response from the gateway before sending additional messages. If any message is received from the client before the exchange of logon messages, the TCP/IP connection with the client will be disconnected.

If a logon attempt fails, the gateway will send a Logout (6) and terminate the session; the Session Status of the Logout (6) message will indicate the reason for the logout.

If a session level failure occurs due to a message sent by the client which contains a sequence number that is less than what is expected and the PossDup is not set to 1 (Yes), then the gateway will send a Logout (6) and terminate the binary connection. In this scenario, the inbound sequence number will not be incremented but the outbound sequence number will be incremented.

If the gateway does not respond to the session initiation (client initiated Logon message), it is recommended that the client wait for a duration of 60 seconds prior to terminating the connection. The client is expected to retry session initiation after an elapsed time duration of 60 seconds.

If a client is disconnected abruptly or via a Logout message from the gateway, it is recommended that the client wait for a duration of 10 seconds prior to reconnecting to the gateway.

1.3 Message Sequence Numbers

The client and the gateway will each maintain a separate and independent set of incoming and outgoing message sequence numbers. Sequence numbers should be initialized to one (1) at the start of the day and be incremented throughout the session. Either side of a binary session will track the:

- Next Expected MsgSeqNum (starting at 1) in Logon (5)
- Sequence Number in the Message Header (starting at 1) to the contra-party.

The Sequence Number in the Message Header is always incremented by the sender, whereas the Next Expected MsgSeqNum is only updated as a result of an incoming message.

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

Any message sent by either side of a binary session will increment the sequence number unless explicitly specified for a given message type.

If any message sent by one side of a binary session contains a sequence number that is LESS than the Next Expected MsgSeqNum then the other side of this session is expected to send a Logout message and terminate the binary connection immediately, unless the PossDup indicator is set to 1 (Yes)

A binary session will not be continued to the next trading day. Both sides are expected to initialize (reset to 1) the sequence numbers at the start of each day. At the start of each trading day if the client starts with a Next Expected MsgSeqNum greater than 1 then the gateway will send a Logout message and terminate the session immediately without any further exchange of messages.

1.4 Heartbeat and Test Request

The client and the gateway will use the Heartbeat (0) message to monitor the communication line during periods of inactivity and to verify that the interfaces at each end are available.



The gateway will send a Heartbeat anytime it has not transmitted a message for the duration of the heartbeat interval. The client is expected to employ the same logic.

If the gateway detects inactivity for a period longer than 3 heartbeat intervals, it will send a Test Request message to force a Heartbeat from the client. If a response to the Test Request is not received within a reasonable transmission time (recommended being an elapsed time equivalent to 3 heartbeat intervals), the gateway will send a Logout (6) 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 gateway.

1.5 Terminating a Binary Session

Session termination can be initiated by either the gateway or the client by sending a Logout (6) message. Upon receiving the logout request, the contra party will respond with a Logout (6) message signifying a logout reply. Upon receiving the logout reply, the receiving party will terminate the connection.

If the contra-party does not reply with either a Resend Request (2) or a Logout (6) reply, the logout initiator should wait for 60 seconds prior to terminating the connection.

The client is expected to terminate each binary session at the end of each trading day before the gateway service is shut down. Any open binary connection will be terminated by the gateway by sending a Logout (6) when the service is shut down. Under exceptional circumstances, the gateway may initiate the termination of a connection during the trading day by sending the Logout (6) message.

If, during the exchange of logout messages, the client or the gateway detects a sequence gap, it should send a Resend Request (2).

1.6 Re-establishing a Binary Session

If a binary connection is terminated during the trading day, it may be re-established via an exchange of Logon messages.

Once the binary session is re-established, the message sequence numbers will continue from the last message successfully transmitted prior to the termination as described in [2.7 Transmission of Missed Messages](#).

1.7 Sequence Reset

Gap-fill mode can be used by one side when skipping session level messages which can be ignored by the other side.

During a binary session the gateway or the client may use the Sequence Reset (4) message in Gap Fill mode if either side wishes to increase the expected incoming sequence number of the other party.

It will not be possible to reset the client sequence number to 1 using the Logon message. Should a reset be required the participant should contact the Exchange.

The client is required to support a manual request by Exchange to initialize sequence numbers prior to the next login attempt.



1.8 Fault Tolerance

After a failure on the client side or on the gateway side, the client is expected to be able to continue with the same session.

If the sequence number is reset to one (1) by the gateway, all previous messages from the gateway will not be available for the client side.

The client and the gateway are expected to negotiate on the Next Expected MsgSeqNum and Next To Be Received Sequence number by contacting the Exchange prior to initiating the new session and consequently manually setting the sequence number for both ends after having a direct communication with the participant.

1.9 Checksum Validation

The gateway performs a checksum validation on all incoming messages into the input services. Incoming messages that fail the checksum validation will be rejected and the connection will be dropped by the gateway without sending a logout.

Conversely, the gateway stamps an identically calculated checksum field on all outgoing messages from the input interfaces. In case of a checksum validation failure, the client is expected to drop the connection and take any appropriate action before reconnecting. Messages that fail the checksum validation should not be processed.

This checksum is a CRC32C value with the polynomial 0x1EDC6F41, presented as a 32-bit unsigned integer (http://en.wikipedia.org/wiki/Cyclic_redundancy_check#CRC-32C).

2 Recovery

2.1 General Message Recovery

Message gaps may occur which are detected via the tracking of incoming sequence numbers. Recovery will be initiated if a gap is identified when an incoming message sequence number is found to be greater than Next Expected MsgSeqNum during Logon or the Sequence Number at other times.

The Resend Request (2) will indicate the Start Sequence and End Sequence of the message gap identified and when replying to a Resend Request (2), the messages are expected to be sent strictly honouring the sequence.

If messages are received outside of the Start Sequence and End Sequence, then the recovering party is expected to queue those messages until the gap is recovered.

During the message recovery process, the recovering party will increment the Next Expected MsgSeqNum accordingly based on the messages received. If messages applicable to the message gap are received out of sequence then the recovering party will drop these messages.

The party requesting the Resend Request (2) can specify "0" in the End Sequence to indicate that they expect the sender to send ALL messages starting from the Start Sequence. In this scenario, if the recovering party receives messages with a sequence greater than the Start Sequence, out of sequence, the message will be ignored.

Administrative messages such as Sequence Reset (4), Heartbeat (0) and Test Request (1) which can be considered irrelevant for a retransmission could be skipped using the Sequence Reset (4) message in gap-fill mode. Note that the gateway expects the client to skip Sequence Reset (4) messages when replying to a Resend Request (2) at all times.

When resending messages, the gateway would use either PossDup or PossResend indicator to indicate whether the messages were retransmitted earlier. If PossDup is set, it indicates that the same message with the given sequence number with the same business content may have been transmitted earlier. In the case where PossResend is set, it indicates that the same business content may have been transmitted previously but under the different message sequence number. In this case business contents needs to be processed to identify the resend. For example, in execution reports the Exec ID may be used for this purpose.

2.2 Resend Request

The client may use the Resend Request (2) message to recover any lost messages. This message may be used in one of three modes:

1. To request a single message. The Start Sequence and End Sequence should be the same.
2. To request a specific range of messages. The Start Sequence should be the first message of the range and the End Sequence should be the last of the range.
3. To request all messages after a particular message. The Start Sequence should be the sequence number immediately after that of the last processed message and the End Sequence should be zero (0).



2.3 Logon Message Processing – Next Expected Message Sequence

The session initiator should supply the Next Expected MsgSeqNum the value next expected from the session acceptor in Sequence Number. The session acceptor should validate the logon request including that Next Expected MsgSeqNum does not represent a gap. It then constructs its logon response with Next Expected MsgSeqNum containing the value next expected from the session initiator in Sequence Number having incremented the number above the logon request if that was the sequence expected.

The session initiator must wait until the logon response is received in order to submit application messages. Once the logon response is received, the initiator must validate that Next Expected MsgSeqNum does not represent a gap.

In case of gap detection from either party (lower than the next to be assigned sequence) recover all messages from the last message delivered prior to the logon through the specified Next Expected MsgSeqNum sending them in order, then gap fill over the sequence number used in logon and proceed sending newly queued messages with a sequence number one higher than the original logon.

Neither side should generate a Resend Request (2) based on Sequence Number of the incoming Logon message but should expect any gaps to be filled automatically by following the Next Expected Sequence processing described above. Whilst the gateway is resending messages to the client, the gateway does not allow another Resend Request (2) from the client. If a new Resend Request (2) is received during this time, the gateway will terminate the session immediately without sending the Logout (6) message.

Note that indicating the Next Expected MsgSeqNum in Logon (5) is mandatory.

2.4 Possible Duplicates

The gateway handles possible duplicates in the same way as the FIX protocol. The client and the gateway use the PossDup field to indicate that a message may have been previously transmitted with the same Sequence Number.

2.5 Possible Resends

The gateway does not handle possible resends for the client-initiated messages (e.g., New Order, Mass Quote, etc.) and all the messages will be processed without considering the value in the PossResend field. Any message with duplicate Client Order ID will be rejected based on the Client Order ID uniqueness check and those messages that conform to the uniqueness check will be processed as normal messages.

The gateway may use the PossResend field to indicate that an application message may have already been sent under a different sequence number. The client should validate the contents (e.g., Exec ID) of such a message against those of messages already received during the current trading day to determine whether the new message should be ignored or processed.

2.6 Gap Fills

The following messages are expected to be skipped using gap-fills when being retransmitted:

1. Logon



2. Logout
3. Heartbeat
4. Test Request
5. Resend Request
6. Sequence Reset

All other messages are expected to be replayed within a retransmission.

2.7 Transmission of Missed Messages

Following messages will be sent to the client when it reconnects if such messages were generated during a period when this client was disconnected from the gateway:

- Execution Report (includes order reject)
- Order Amend Rejected
- Order Cancel Rejected
- Mass Cancel Report
- Business Message Reject
- Reject
- *Quote Request Ack*
- *Mass Quote Ack*
- Security Definition
- *MMP Reset Ack*
- News.

In the unlikely event the disconnection was due to an outage of the gateway, Business Message Reject and Reject messages may not be retransmitted, and the other messages which will be retransmitted to the client will include a PossResend set to 1 (Yes).

2.8 Technical Halt

In the event of a system component failure, a technical halt will be applied and the Market Data service will publish the Trading State = Technical Halt. On receipt of this message, market participants are required to clear their public and private order books of all orders including persisted orders. Order cancellations will not be transmitted by the gateway. However, any cancellation requests that were submitted prior to the technical halt may still be transmitted by the gateway.



3 Service Description

3.1 Security Identification

Each Tradable Instrument will be identified using the Security ID field which can be a maximum of 19 digits.

3.2 Security Creation

A Security Definition Request (10) can be submitted to create a new tradable instrument:

Instrument Request Type	Binary Fields
Options strike	Security Type = 2 Security Sub Type = 0 Maturity Date Strike Price Put or Call
Strategy	Security Type = 3 Security Sub Type = 1 to 10 Leg Security ID Leg Ratio Leg Side <i>Leg Price</i>

3.2.1 Strategies

A trader can submit Security Definition Request (10) for an Exchange defined strategy type or a *custom strategy*. A *Delta Hedge strategy* can be submitted as a *custom strategy*.

A strategy can be submitted from either a buy or sell perspective and must include the strategy legs in order of expiry. A Security Definition Request expressed from a sell perspective will be returned with a Security Response Type = '2' Accept security proposal with revisions as indicated in the message and the resulting strategy will be created from the buy side perspective.



3.2.1.1 Exchange Defined Strategy Types

The following defined strategy types are supported:

Futures Strategies

Security Sub Type	Strategy Name	Definition (from buy perspective)
1	Carry	Buy near leg, sell far leg
3	Average 3M	Buying 3 consecutive (monthly) legs
4	Average 6M	Buying 6 consecutive (monthly) legs
5	Average 12M	Buying 12 consecutive (monthly) legs
6	Carry Average	Buy an outright (e.g. 3M), sell a Future Average (e.g. first quarter 2023).

An Average strategy is only permitted in monthly prompts and only the front leg needs to be specified as the remaining legs will be consecutive.

A Carry Average is the only permitted nested strategy type.

Options Strategies

Security Sub Type	Strategy Name	Definition (from buy perspective)
7	Call Spread	Buy a (call) strike, sell a (call) higher strike within the same option expiry
8	Put Spread	Buy a (put) strike, sell a (put) lower strike within the same option expiry

3.2.1.2 Custom Strategies

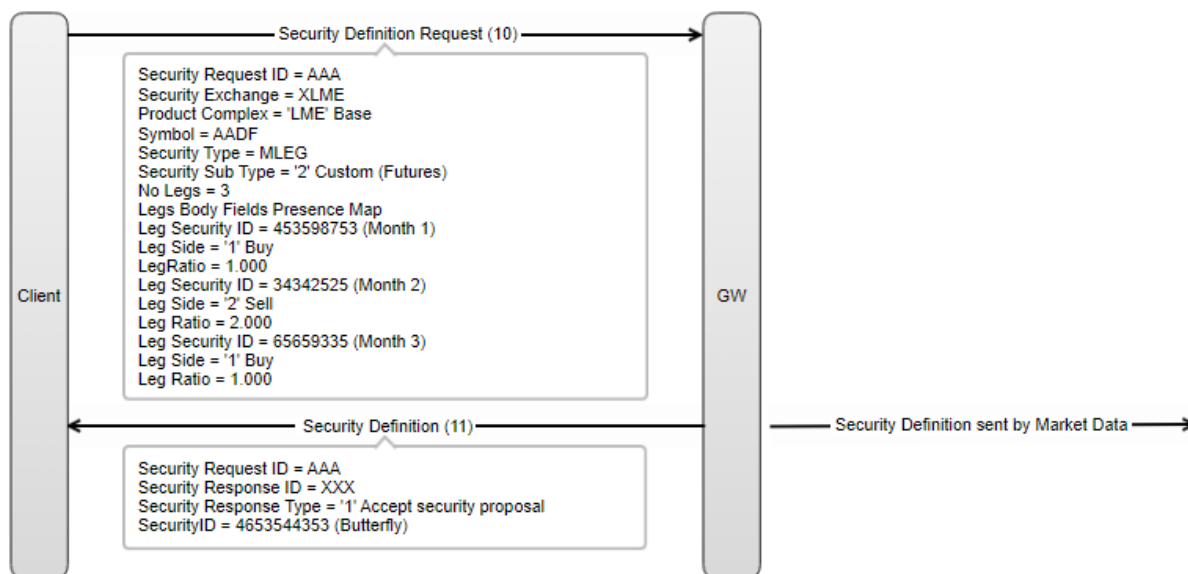
A non-Exchange defined strategy can be submitted in a Security Definition Request as a custom strategy using either:

- Security Sub Type = '2' Custom (Futures)
- Security Sub Type = '9' Custom (Delta Hedge)
- Security Sub Type = '9' Custom (Options).

A custom strategy may consist of up to five legs in a Futures contract or premium quoted Option. Each leg in the strategy must be in the same contract except for a delta hedge custom strategy in premium-based options where the last 1 to 2 legs belong to the underlying futures contract. Note, an Exchange defined strategy cannot be used within a custom strategy.

For example, a Futures Butterfly is defined as buy Month 1, sell Month 2 twice and buy Month 3.





3.3 Order Submission

It is possible to submit orders for outright futures, options series or strategies using any of the order types specified in [3.4.1 Order Types](#). An individual order can be submitted using New Order Single (12) whereas *multiple orders can be submitted using Mass Quote (22)*.

A cross order can be submitted using New Order Cross (27) which includes a unique CrossID, see Auto Cross

3.4 Order Types

The following order types are supported:

Order Type	Binary Field
Limit An order submitted with a price and volume that will trade at the limit price or better for as much of its stated volume as is available in the order book.	Order Type = 2 Order Price
Market <i>An order submitted with a volume specified but no price. The order is executed at the best available price(s) up / down to their assigned limit price. Any order volume which is not fully executed rests in the order book as a limit order at the assigned limit price.</i>	Order Type = 10
Stop Market <i>An order that is submitted but not visible in the order book until it is triggered by the last traded price and/or best bid/offer. Once triggered the order is entered into the order book as a Stop Market order.</i>	Order Type = 3 Trigger Price Trigger Price Type



Order Type	Binary Field
<i>A previously triggered Stop order will be restated as a Limit order. Triggering fields will not be present.</i>	
Stop Limit An order that is submitted but not visible in the order book until it is triggered by the last traded price and/or best bid/offer. Once triggered the order is entered into the order book as a Stop Limit order at the specified price. A previously triggered Stop order will be restated as a Limit order. Triggering fields will not be present.	Order Type = 4 Trigger Price Trigger Price Type Order Price
Iceberg An order submitted with a visible order quantity and a total order quantity. The visible order quantity must be fully executed before it can be replenished with the next visible order quantity.	Order Type = 11 Order Price Display Quantity Order Quantity
Post Only The order must rest in the order book before it can trade. If the order can be executed on entry into the order book it is rejected. If an amendment to the order can result in execution it also is rejected and the original order remains.	Order Type = 12 Order Price
One Cancels Other (OCO) – Market A single order which is a combination of a Limit and a Stop. On submission the Limit price and a Stop trigger price is specified. A partial trade at the Limit price will reduce the quantity available in the OCO. If the order is traded out at the Limit price the Stop component will be cancelled. Similarly if the Stop is triggered then the Limit component is cancelled. Note: No Execution Report will be generated for the cancelled component. If the Stop component is triggered the order becomes a Market order.	Order Type = 13 Order Price Trigger Price Trigger Price Type
One Cancels Other (OCO) – Limit A single order which is a combination of a Limit and a Stop. On submission the Limit price and a Stop trigger price is specified.	Order Type = 14 Order Price Trigger Price

Order Type	Binary Field
A partial trade at the Limit price will reduce the quantity available in the OCO. If the order is traded out at the Limit price the Stop component will be cancelled. Similarly if the Stop is triggered then the Limit component is cancelled. Note: No Execution Report will be generated for the cancelled component. If the Stop component is triggered it becomes a Limit order at a new price.	Trigger Price Type Trigger New Price

3.5 Order Validity Conditions

Validity Condition	Binary Field
Day An order that will expire at the end of the day.	Time In Force = 0
Good Till Cancelled (GTC) An order that is valid until it is either cancelled or matched.	Time In Force = 1
Immediate or Cancel (IOC) An order that is executed at the stated price or better for as much order volume that is available. Any order volume that cannot be traded is cancelled.	Time In Force = 3
Fill or Kill (FOK) An order that is only executed if there is sufficient volume available, at the stated price or better, for them to execute fully. Otherwise the entire order is cancelled.	Time In Force = 4
Good Till Date (GTD) The order is valid until the end of the trading date specified.	Time In Force = 6 Expire Date

Note: A GTC or GTD order cannot be entered into the TOM prompt.

A GTD will be rejected if the expiry date entered is the current trading date. A GTD in a single prompt will be rejected if the date entered exceeds the last trading date.

3.6 Order Types and Permitted Order Validity Conditions

Order Type	Day	GTC	IOC	FOK	GTD
Limit	✓	✓	✓	✓	✓



Order Type	Day	GTC	IOC	FOK	GTD
Market	✓	✓	✓	✓	✓
Stop Market	✓	✓			✓
Stop Limit	✓	✓			✓
Iceberg	✓	✓			✓
Post Only	✓	✓			✓
OCO Market	✓	✓			✓
OCO Limit	✓	✓			✓

3.7 Order Identification

The client must specify a Client Order ID when submitting a New Order Single (12), Amend Order (13), Cancel Order (15) or Mass Cancel Request (17). As with the FIX protocol, the client should ensure that each Client Order ID for this Comp ID is unique for the duration of the trading day and has not been used already for any of the currently persisted orders belonging to this Comp ID.

In addition, a Quote ID supplied on a Mass Quote (22) and MMP Reset Request ID supplied in a MMP Reset Request (30) must also be unique and must not have been specified as a Client Order ID.

When an order is accepted, the system assigns an Order ID that is unique for all orders and quotes.

When modifying or cancelling an order, the Original Client Order ID is used to identify the original order.

A cross order is specified by the originator using Cross ID instead. For each of the bid / ask order contained in the cross order, Client Order ID is used to identify the order. When the cross order is accepted, the system assigns a Host Cross ID for the whole cross order, and an Order ID for each of the orders within the cross order.

When cancelling a cross order, the Original Cross ID is used to identify the cross order. The Host Cross ID is optional and will be validated if specified. If this attribute does not match the original cross order, the cancel request will be rejected.

3.8 Order Expiry

No Execution Report will be sent for orders with a Time in Force = '0' Day when they expire at the end of the trading day.



At the end of the day, the order originator will receive an Execution Report with Exec Type = 'C' and Order Status = '12' Expired for Time in Force = '1' Good Till Cancelled and Time in Force = '6' Good Till Date in the following cases:

- Expiry Date has passed for a Good Till Date order*
- Last trading date for the tradable instrument has passed
- To prevent restatement into the Tom order book
- Any other Exchange specific configuration for order expiry of persisted orders
- Strategy contains a leg that has expired or meets any of the conditions above
- Legs of a strategy have the same prompt date.

*Note where the expiry date is a non-business date, the order will expire at the start of the next trading date.

3.9 Order Restatement

GTC/GTD orders that have not hit their expiry condition are persisted when the respective tradable instrument enters the Close state. The order originator is notified by Execution Report with Exec Type = '3' and Order Status = 3 = Done for Day.

On initial logon on the next trading day, Execution Reports are sent for persisted orders that have been returned with Exec Type = 'D' Restated, Order Status = '0' New or '1' Partially Filled and Exec Restatement Reason = '1' GT renewal / restatement.

A previously triggered Stop order will be restated as a Limit order.

3.10 Order Amendment

An order can be amended by using Amend Order (13) and specifying the Original Client Order ID. The client can optionally specify the Order ID in the Amend Order (13). If Order ID is specified the system will validate whether the Order ID is associated with the correct order as identified using the Original Client Order ID. The Amend Order (13) will be rejected if the specified Order ID is invalid based on this validation.

The following order attributes can be modified if they have been specified on the original order:

- Order Price
- Trigger Price
- *Trigger New Price*
- Order Quantity
- *Display Quantity*
- Expiry Date
- Order Capacity
- Order Restrictions
- Execution Decision Within Firm.



The following optional order attributes can be modified. If the attribute is not present in the Amend Order (13), this indicates that the default value will be used:

- Direct Electronic Access
- Aggregated Order
- Pending Allocation Order
- Liquidity Provision Order
- Risk Reduction Order.

The following optional order attributes can be added or modified. If the attribute is not present in the Amend Order (13) it indicates that the value have been removed or not applicable:

- Text
- Investment Decision Within Firm
- Investment Decision Country
- Execution Decision Country
- Client Branch Country.

The client cannot amend an order that is fully filled or cancelled or expired.

Amend Order (13) cannot be used to amend an order submitted using Mass Quote.

The Trigger Price or *Trigger New Price* cannot be amended if the Stop order has been triggered. Note, a previously triggered Stop Limit or *Stop Market* order will be restated as a Limit order.

If the client sends an Amend Order (13) for an order for which an Amend Order (13) or a Cancel Order (15) is already being processed the incoming Amend Order (13) is rejected.

3.11 Order Cancellation

An individual order can be cancelled using Cancel Order (15) by specifying the Original Client Order ID.

The client can optionally specify the Order ID in the Cancel Order (15). If the Order ID is specified the system will validate whether the Order ID is associated with the correct order as identified using the Original Client Order ID. The Cancel Order (15) will be rejected if the specified Order ID is invalid based on this validation.

A successful cancellation will return an Execution Report (8). If the cancellation request is rejected, an Order Cancel Rejected (16) is sent containing the reason for rejection.

A cross order can be cancelled using Cancel Cross Order (28) by specifying the Original Cross ID.

The Host Cross ID is optional and will be validated if specified. If this attribute does not match the original cross order, the cancel request will be rejected.

A successful cancellation of a cross order will return an Execution Report (8) per side. If the cancellation request is rejected, an Order Cancel Rejected (16) per side is sent containing the reason for rejection.



The client may not cancel an order that is fully filled or cancelled or expired.

Cancel Order (15) cannot be used to cancel an order submitted using Mass Quote.

If the client sends a Cancel Order (15) for an order for which a Cancel Order (15) is already being processed the incoming Cancel Order (15) is rejected.

If the client sends a cancel request for an order for which an amendment is being processed the incoming cancel request will be processed (i.e. accepted or rejected) once the outcome of the amendment is known.

3.12 Mass Cancellation

Multiple orders/quotes can be cancelled using Mass Cancel Request (17) by specifying which orders/*quotes* are to be cancelled:

Cancellation Type	Binary Field
All orders/ <i>quotes</i> for a Comp ID	Mass Cancel Request Type = 7 Mass Cancel Scope
All orders/ <i>quotes</i> for a specific tradable instrument	Mass Cancel Request Type= 1 Mass Cancel Scope Security ID
All orders/ <i>quotes</i> for a specific contract	Mass Cancel Request Type= 3 Mass Cancel Scope Contract Code
All orders/ <i>quotes</i> for a specific contract and side of the market	Mass Cancel Request Type= 3 Mass Cancel Scope Contract Code Side
<i>All quotes for a specific Quote ID</i>	<i>Mass Cancel Request Type = 101</i> <i>Mass Cancel Scope = 2</i> <i>Quote ID</i>
All orders/ <i>quotes</i> for a specific end client	Mass Cancel Request Type= 7 Mass Cancel Scope Broker Client ID

If the Mass Cancel Request is accepted, Execution Reports will be sent for each order cancellation and will include the Client Order ID provided on the Mass Cancel Request (17). The Mass Cancel Report (18) will reflect the action taken and indicate the Total Affected Orders.

If the Mass Cancel Request is rejected, the Mass Cancel Response = '0' Cancel Request Rejected and will include the Mass Cancel Reject Reason.

A mass cancellation request for a tradable instrument will not result in the cancellation of any orders in a merged tradable instrument. Orders will only be cancelled in the SecurityID specified in the Mass Cancel Request (17).

3.13 Cancel on Disconnect

The gateway will not automatically cancel a user's non-persisted orders and quotes in the event of a Logout. A user should explicitly cancel such orders and quotes prior to Logout using a Mass Cancel Request (17).

On order submission, a user can specify whether non-persisted orders should be cancelled on system disconnection (due to, for example, a network issue or in the event of inactivity such as too many missed heartbeats) using Cancel on Disconnect.

On detection of a loss of connectivity, the system will determine whether a user's non-persisted orders are to be cancelled based on Cancel on Disconnect attribute for an order. Orders from a Mass Quote are by default classified as non-persisted orders and are therefore automatically cancelled.

This feature does not guarantee that all live orders will be successfully cancelled as executions that occur very near to the time of disconnect may not be reported to the client. It also depends on the tradable instrument trading state when the abrupt disconnection is identified by the Exchange system.

3.14 Mass Quote

Multiple orders can be submitted by permissioned trading users in multiple tradable instruments in the same contract using a Mass Quote (22).

Orders in the form of quotes are submitted as a quote pair (bid and offer) in a quote entry with a Quote Entry ID. Up to 20 quote entries can be submitted in a Mass Quote.

Each quote entry is related to a Quote Set which identifies the tradable instrument. All the quote sets must belong to the same contract. Within each quote set, up to three prices levels can be specified using Quote Price Level.

Quote entries within a Mass Quote can be replaced or cancelled using a Mass Quote.

Replacement quotes can overwrite or cancel both sides of a quote entry or a single side of a quote pair leaving the other side unchanged. Note, an existing quote entry is identified using the Security ID, Quote Price Level and Side. If there is no such quote entry, the instruction will result in a new quote.

Cancellation is indicated by a zero value for Bid Size for bid side or Offer Size for offer side and a null value for Bid Price or Offer Price.



Unchanged is indicated by a value of -1 for Bid Size for bid side or Offer Size for offer side and a null value for Bid price or Offer Price. The quote side that has not changed will retain its current price time priority.

During mass quote processing, resting quotes that will be updated are removed to prevent execution with replacement quotes. An Execution Report will be sent for each quote side cancelled. An Execution Report will be sent to report quotes that have been replaced and replacement quotes that have been rejected. Order Cancel Reject (16) will be returned for cancellations that have been rejected.

The Quote Price Level that is assigned to a quote pair will remain unchanged by either cancellation or replacement. For example, if three price level have been specified in a Quote Set, the cancellation of quote pair at a quote price level will not reorder the quote price level of the other two quote entries in the Quote Set.

A single sided quote can be submitted with a dummy quote to make up the quote pair. The dummy quote is indicated by a value of -1 for Bid Size/Offer Size and a null value for Bid Price/Offer Price as specified in [4.3 Data Types](#).

For each quote entry side in the Mass Quote, an Execution Report (8) is returned to indicate whether the quote entry has been accepted or rejected. The Execution Report (8) can be mapped back to the quote in the Mass Quote message through the:

1. Quote ID returned as Client Order ID
2. Quote an amendment Entry ID returned as Secondary Client Order ID.

If a cancellation to a quote side fails validation Order Cancel Rejected (16) will be returned.

Crossed quotes submitted in the same quote pair will be rejected but will be executed if supplied in different quote pairs.

If a Mass Quote message is rejected, the gateway will return a Mass Quote Ack (23) containing the Quote Reject Reason. For example, if quotes for different contracts have been specified.

An order resulting from a quote is always treated as a Limit order which expires at the end of the current day. In the event of a system related connection loss, orders from Mass Quotes will be automatically cancelled, see [3.11 Cancel on Disconnect](#).

An order resulting from a quote is assigned the order attributes as defined in the Mass Quote message and will be assigned as a Liquidity Provision Order in the Execution Report. For an existing quote that is being amended, only the following attributes will be amended:

- Bid Size
- Bid Price
- Offer Size
- Offer Price.

All other order attributes that are not amendable will retain their original value.



3.15 Auto Cross

A New Order Cross indicates a trading interest in a specific instrument which is published to market participants via a Request for Cross (RFC) on the Market Data service. The platform will then wait for a predefined period, then will determine whether the cross order will be executed on book, offbook, a mixture of both on and offbook, or if the cross is cancelled. The Cross order will contain a buy and a sell order with the same price and quantity within itself.

Cross ID is used for the identifier of the cross, then an individual Client Order ID for the order specified on each side. When an order is accepted, the system assigns a Host Cross ID in response to the Cross ID, and an Order ID for each of the individual order.

Cross Type specifies whether a guaranteed or non guaranteed cross is requested. CrossPrioritization indicates the order on which side of the Cross Order is prioritized.

A pair of Execution Reports, one for each side, will be returned by the gateway to acknowledge a successful Cross Request. The Host Cross ID and Cross ID will be returned in the Execution Report.

Amendment to the Cross Order is not allowed. Cancellation can be done via Cancel Cross Order, by specifying Original Cross ID. The Host Cross ID is optional and will be validated if specified. If this attribute does not match the original cross order, the cancel request will be rejected.

When a cross is cancelled using a Cross Order Cancel Request, the ClOrdID and CrossID in the Execution Report are populated with the values provided in the cancel request, while the OrigClOrdID and OrigCrossID are populated with the values from the original cross order entry.

When a cross is cancelled as part of an Order Mass Cancel Request, the ClOrdID in the Execution Report is populated with the value from the mass cancel request, and the OrigClOrdID and OrigCrossID are populated with the values from the original cross order entry. The CrossID is not populated.

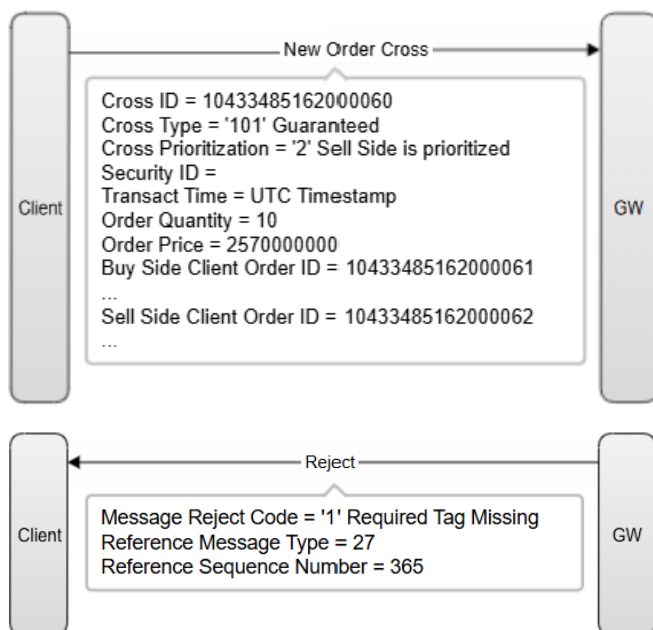
When a cross is cancelled via an unsolicited cancel, the ClOrdID in the Execution Report is populated with the value from the original cross order entry, while the OrigCrossID is populated with the CrossID from the original cross order entry. The OrigClOrdID and CrossID are not populated.

Example message flow

New Order Cross fails session level validation and is rejected

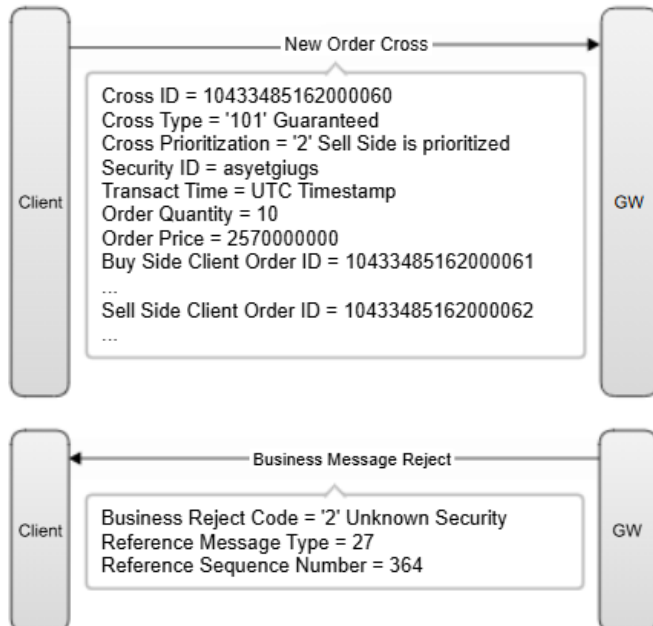
A New Order Cross is submitted. The message fails validation and is therefore rejected. The Reject message includes the reason Message Reject Code = Required Tag Missing





New Order Cross fails business level validation and is rejected

A New Order Cross is submitted. The message fails business validation and is therefore rejected. The Business Message Reject includes the reason Business Reject Code = Unknown Security



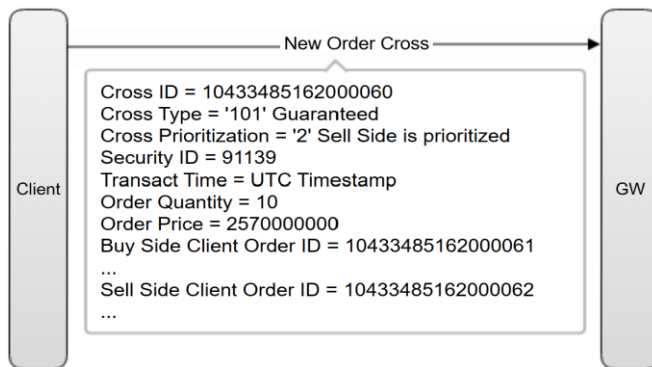
New Order Cross executes Offbook

A New Order Cross is submitted. The orders pass validation and are held in the RFC interval.

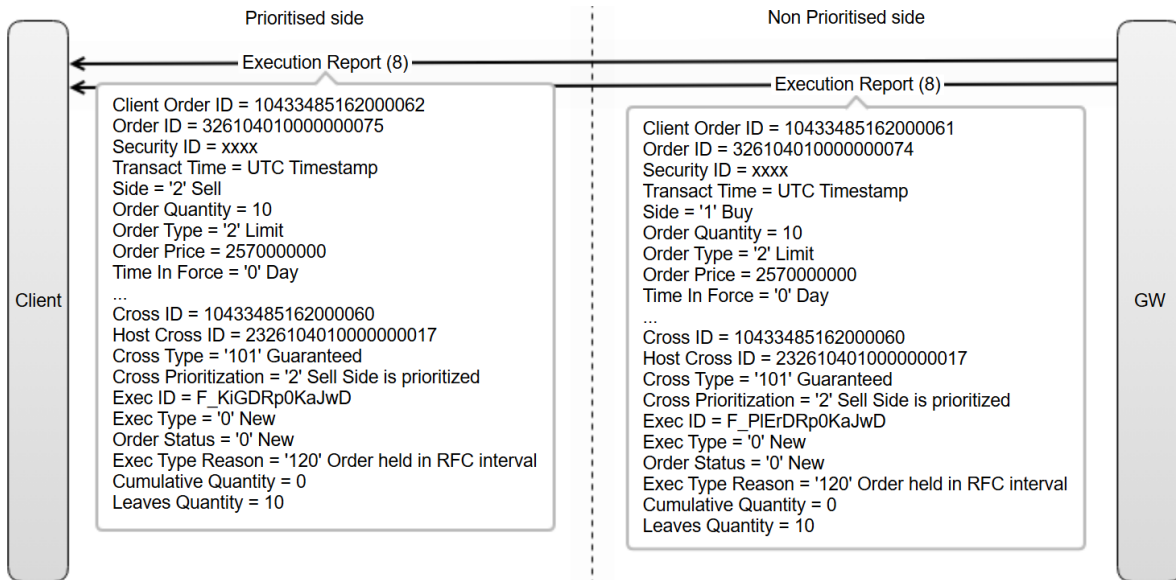
The interval elapses and the orders are released and revalidated.

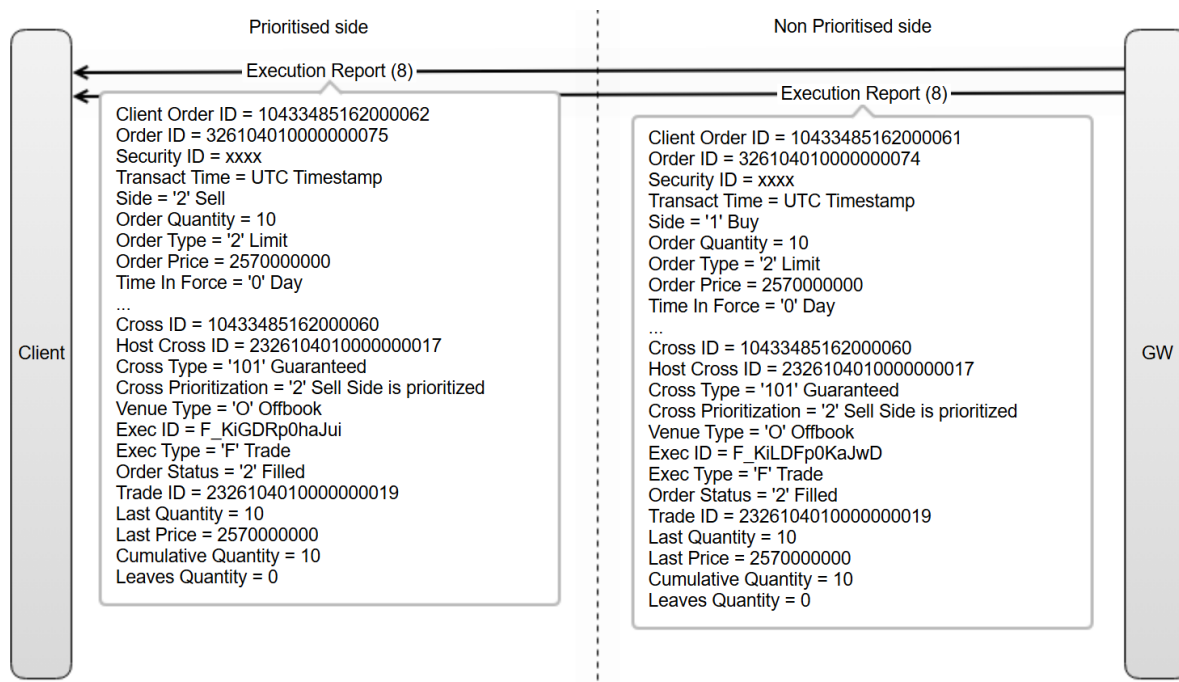
The cross is processed and the prioritised order is executed against the non prioritised order offbook





An Execution Report is returned for each side, for each event





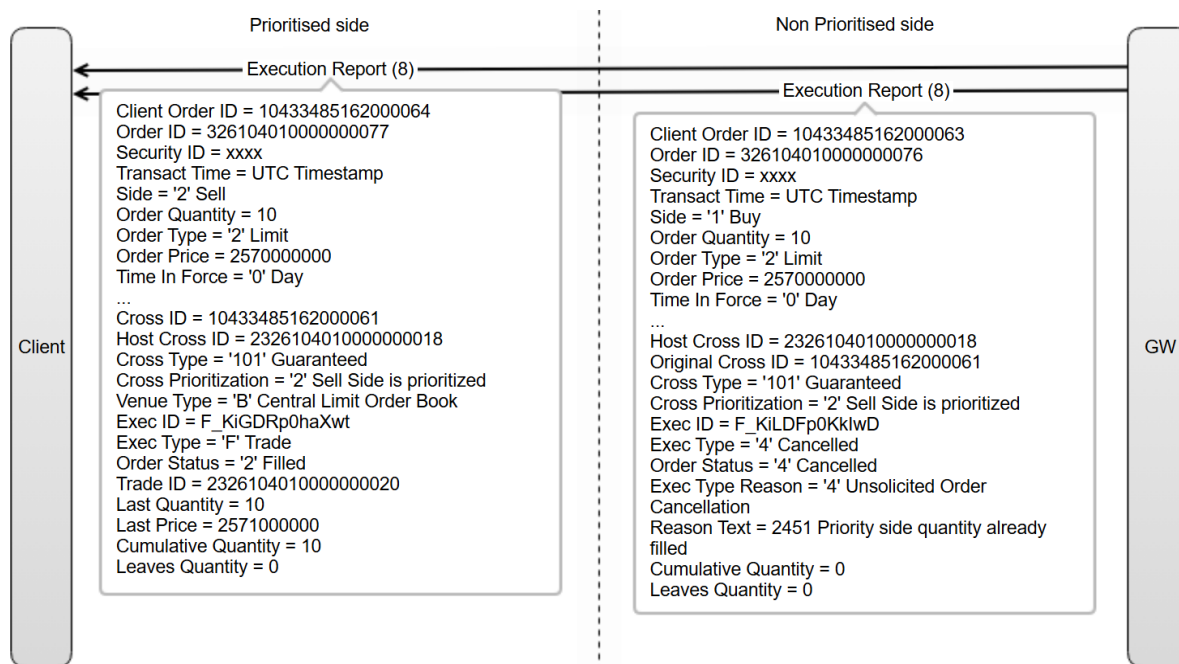
New Order Cross - Prioritised order filled Onbook

A New Order Cross is submitted. The orders pass validation and are held in the RFC interval.

The interval elapses and the orders are released and revalidated.

The cross is processed and the prioritised order trades against a price improvement in the orderbook and is filled. The non prioritised order is cancelled.

An Execution Report is returned for each side, for each event



New Order Cross - Prioritised order partially filled Onbook, filled Offbook

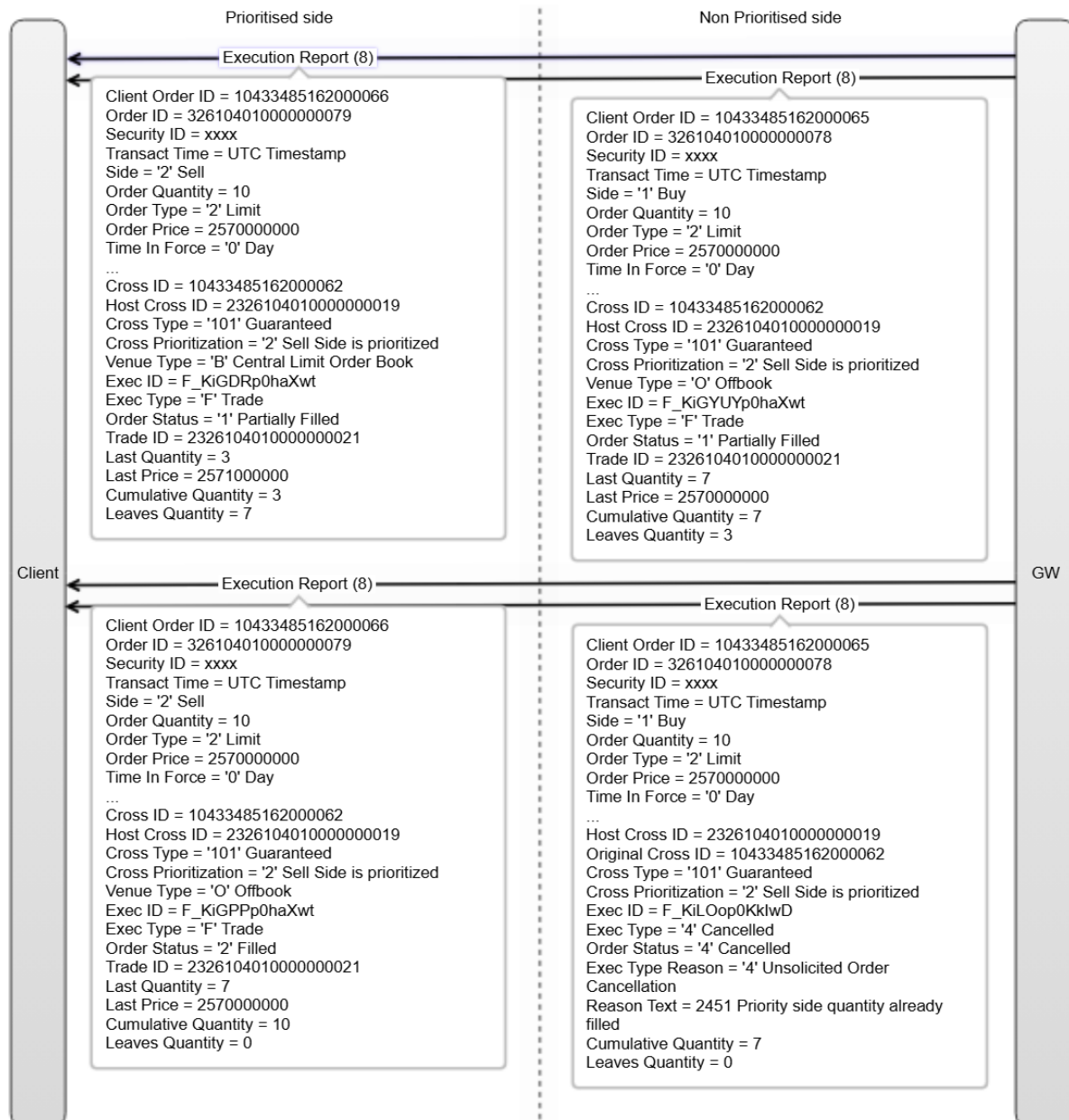
A New Order Cross is submitted. The orders pass validation and are held in the RFC interval.

The interval elapses and the orders are released and revalidated.

The cross is processed and the prioritised order trades against a price improvement in the orderbook and is partially filled. Any residual volume is crossed offbook against the non prioritised order.

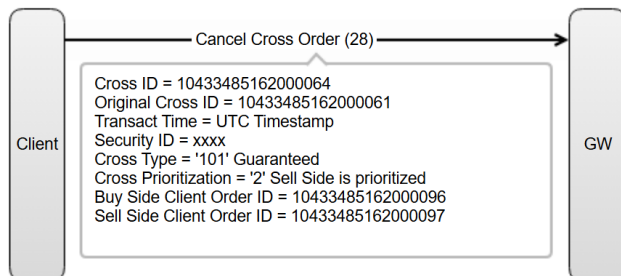
Any remaining non prioritised volume is cancelled.

An Execution Report is returned for each side, for each event

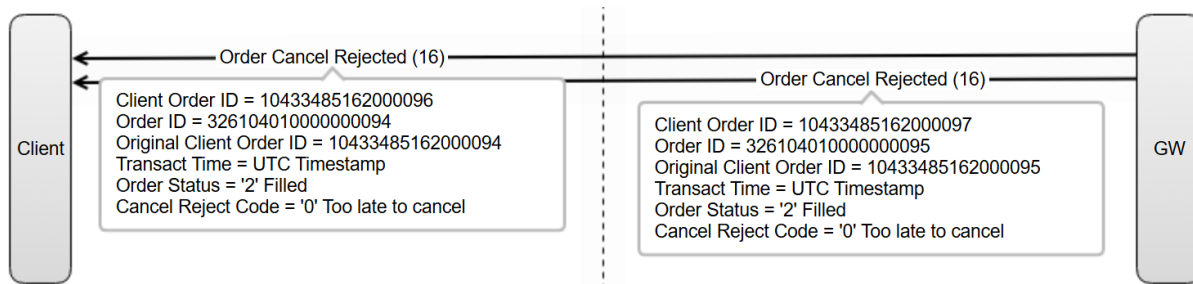


Cancel Cross Order Request – Rejected

A Cancel Cross Order request is submitted but is rejected as the cross has already been filled



An Order Cancel Reject is returned for each side

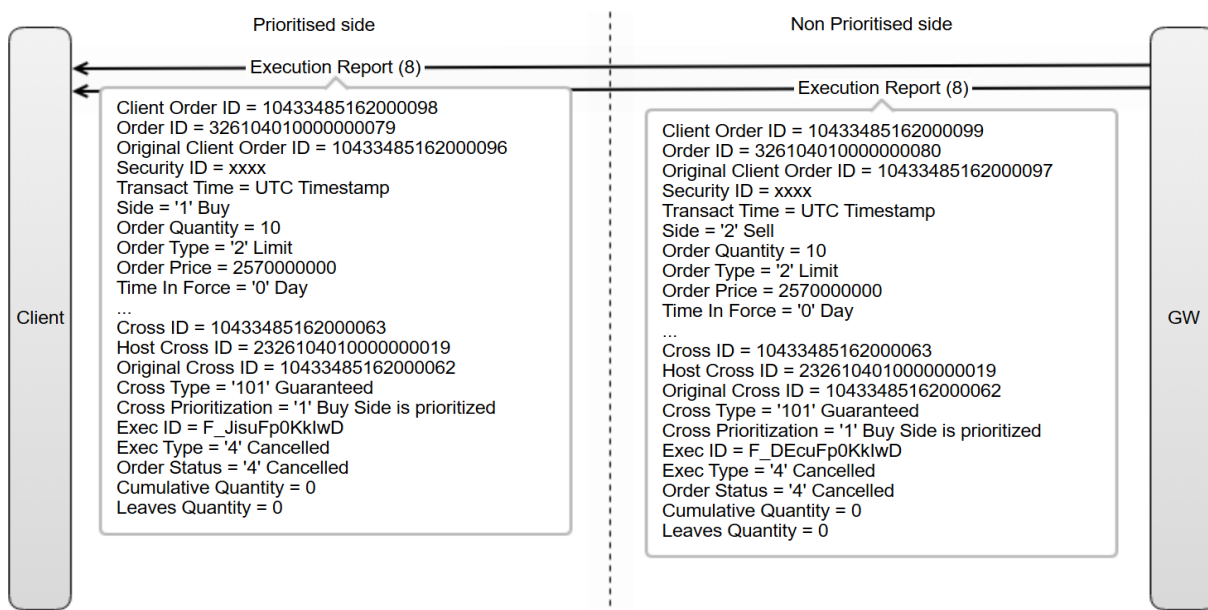


Cancel Cross Order Request – Accepted

A Cancel Cross Order is submitted and is accepted.

The cross orders, that are being held in the RFC interval, are cancelled.

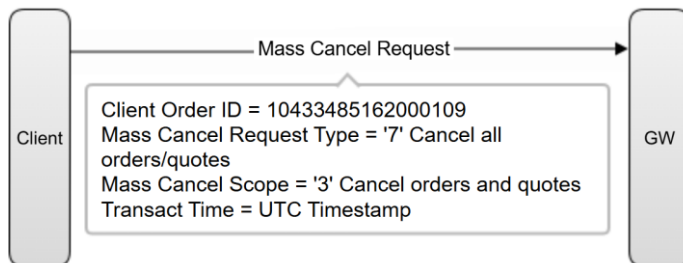
An Execution Report is returned for each side, for each event.



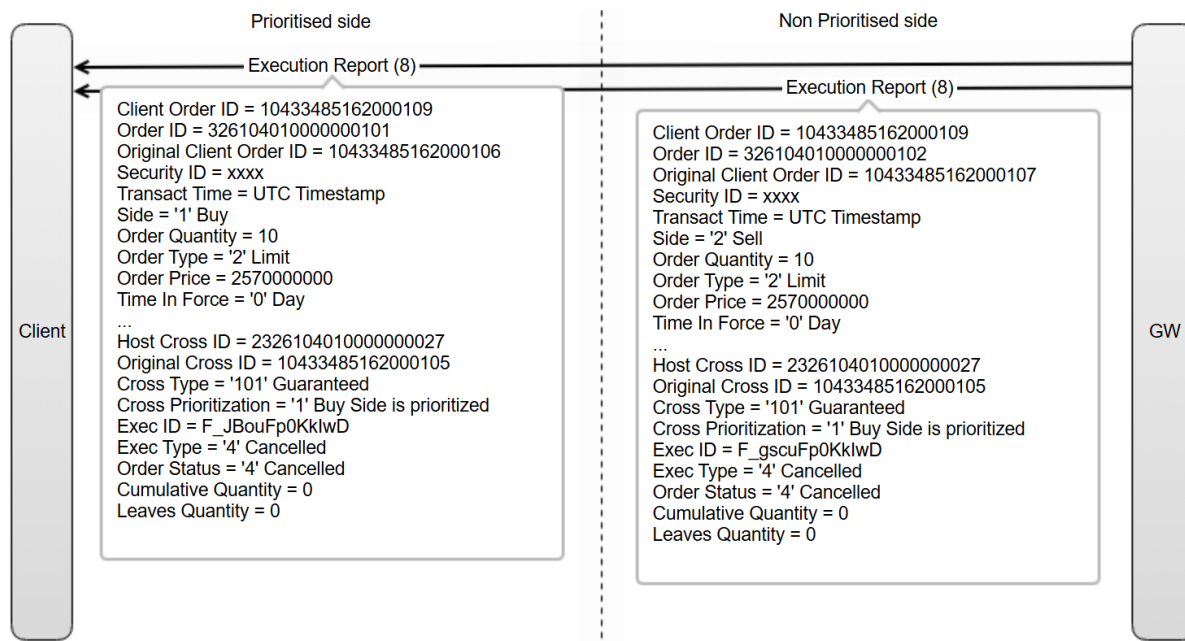
Mass Cancel Request – Accepted

A Mass Cancel Request is submitted and is accepted.

Any cross orders held in the RFC interval are cancelled



An Execution Report is returned for each side, for each event



3.16 Request for Quote (RFQ)

A Quote Request (20) indicates a trading interest in a specific instrument which is published to market participants by the Market Data service.

The Quote Request (20) will include the Quote Request Type which specifies whether a single quote or streaming quotes are requested. It can optionally specify the side and the quantity for which a price is required.

A Quote Request Ack (21) will be returned by the gateway in response to a Quote Request.

Trading participants can respond to an RFQ using standard order and quote functionality.



3.17 Speed Bumps

Exchange contracts may be configured with speed bumps. A speed bump will only be applicable to New Order Single (12) and Amend Order (13).

Passive orders, cancellations using Cancel Order (15) or Mass Cancel Request (17) and Mass Quote (22) will be exempt.

The status of an order in a speed bump will be reported in Exec Type Reason in the Execution Report (8):

101 = Order accepted but speed bump applied

102 = Order added after speed bump

103 = Order cancelled whilst in speed bump delay

104 = Original order is in speed bump enforced delay

105 = Order updated after speed bump delay

106 = Amend is in speed bump delay

107 = Order amended after speed bump delay

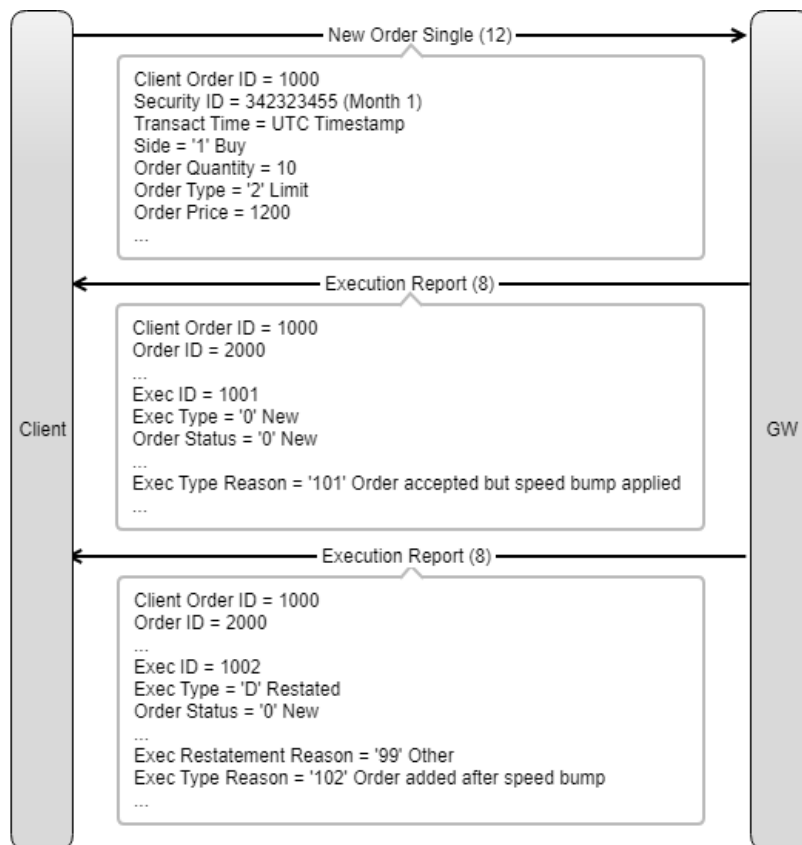
108 = Order rejected after speed bump delay

109 = Unsolicited cancel while in speed bump

Order submission is speed bumped

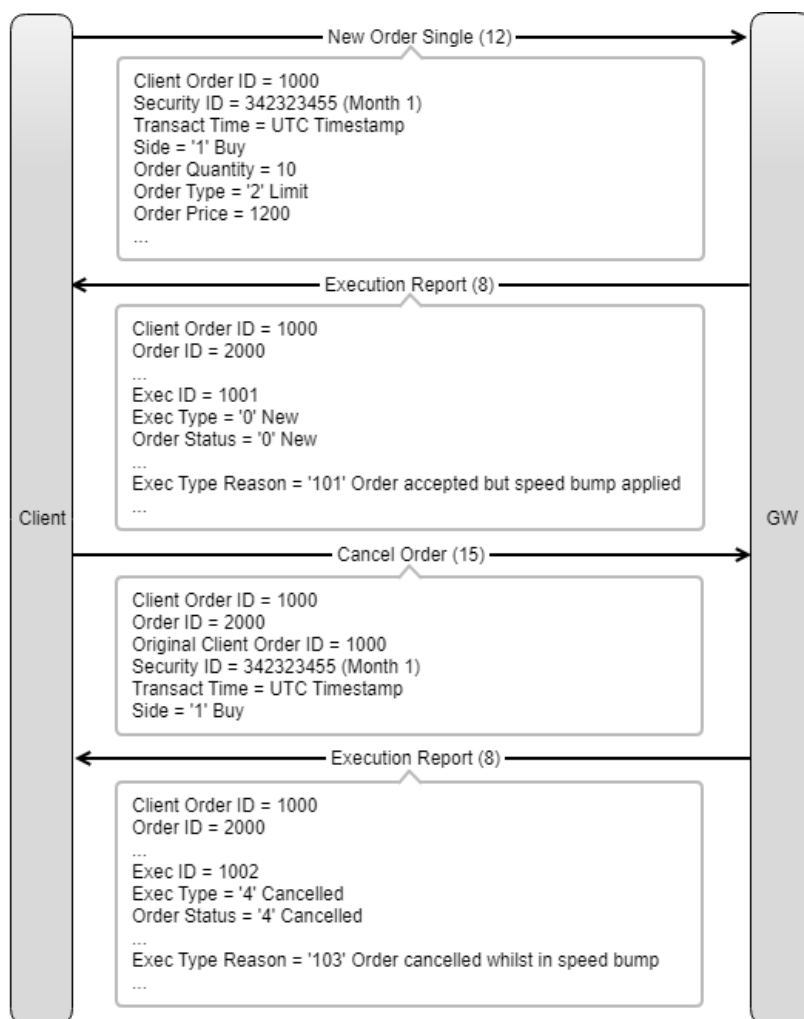
If an order is submitted but is subject to a speed bump, the order is held and not added to the order book until the order has been released from the speed bump. The Execution Report sent in acknowledgement includes an Exec Type Reason = '101' Order accepted but speed bump applied.

The Execution Report sent once the order has cleared the speed bump and is added to the order book includes Exec Type = 'D' Restated and Exec Type Reason = '102' Order added after speed bump.



Order cancellation for a speed bumped order

An order cancellation submitted while an order is in the speed bump will be processed without any delay as the Cancel Order (15) is not subject to speed bump conditions. The Execution Report sent in response to the cancellation includes Exec Type Reason = '103' Order cancelled whilst in speed bump delay.

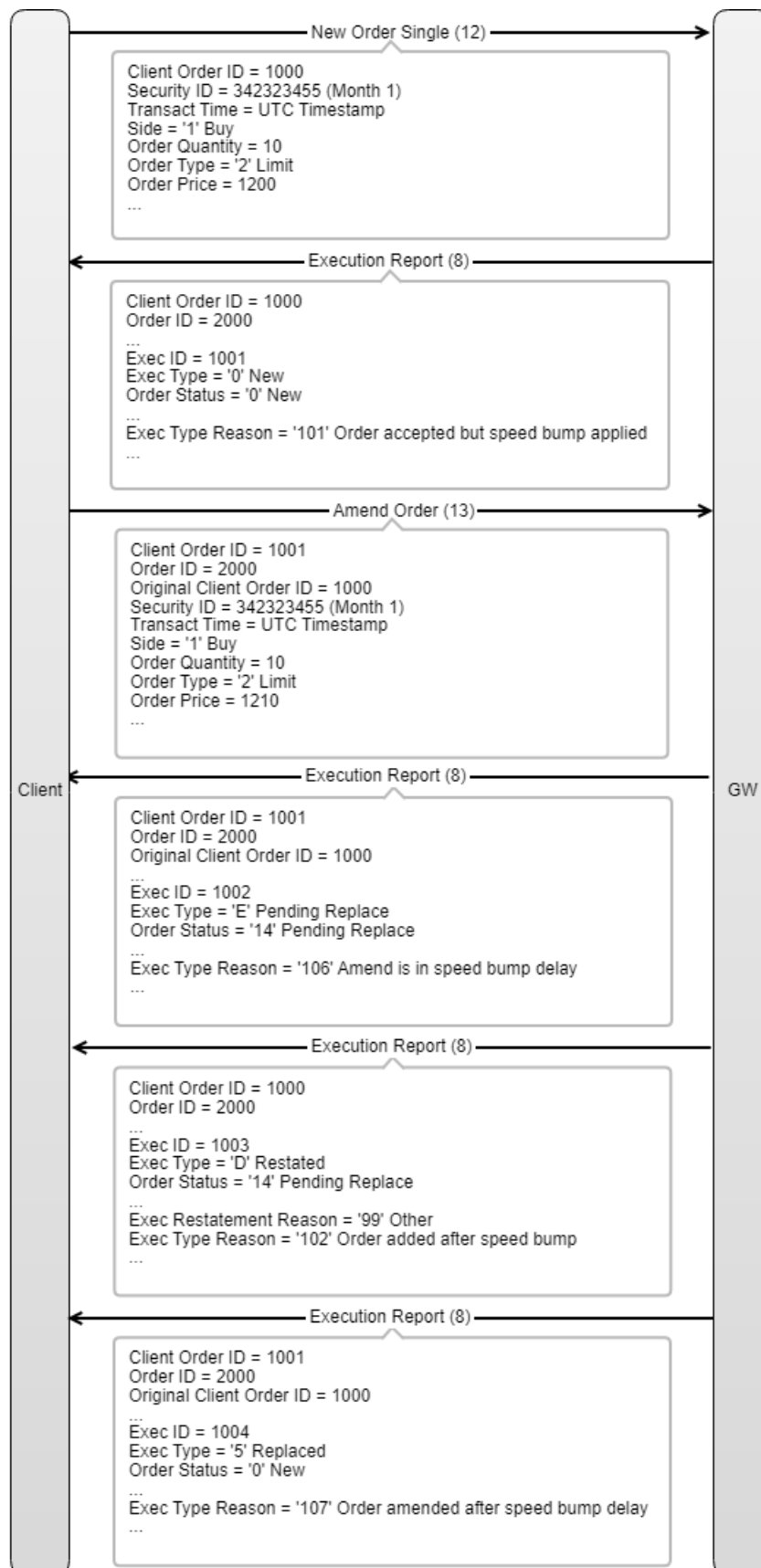


Executable order amendment for a speed bumped order will be speed bumped

An order is submitted which is subject to a speed bump. An Amend Order (13) is submitted while the order submission is in the speed bump queue. The amended order is executable and therefore speed bumped. The Execution Report for the order revision includes Exec Type Reason = '106' Amend is in speed bump delay. The Amend Order will not be processed until the original order has cleared the speed bump.

The Execution Report sent when the original order submission is released from the speed bump and added to the order book includes Exec Type = 'D' Restated, Order Status = '14' Pending Replace and Exec Type Reason = '102' Order added after speed bump.

Another Execution Report is sent when the order revision clears the speed bump and replaces the original order. The Execution Report includes Exec Type = '5' Replaced and Exec Type Reason (2431) = '107' Order amended after speed bump delay.

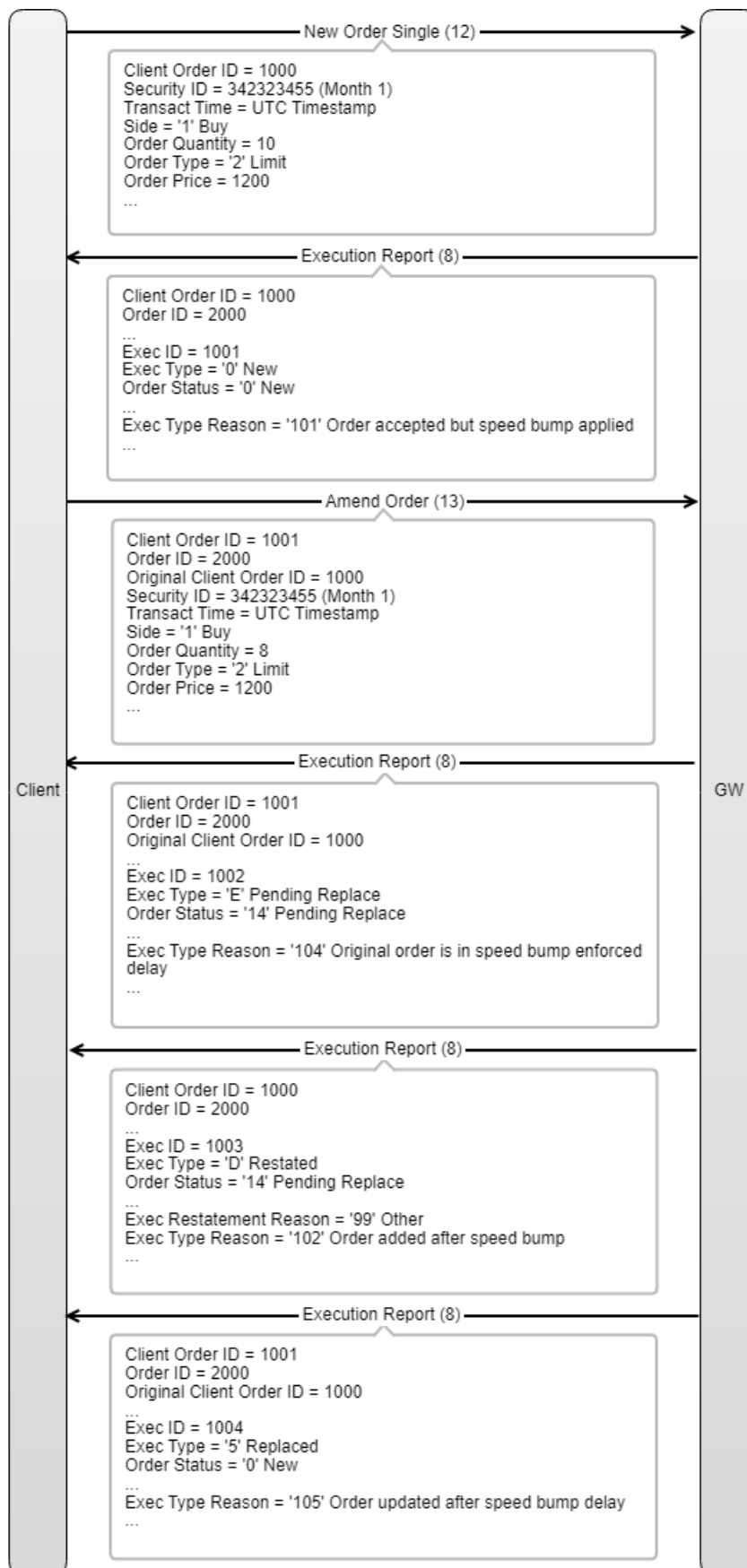


Non-executable order amendment for a speed bumped order will not be speed bumped

An order is submitted which is subject to a speed bump. An Amend Order (13) is submitted while the order submission is in the speed bump queue. The amended order will rest in the order book and is therefore not subject to speed bump conditions. The Amend Order will not be processed until the original order has cleared the speed bump therefore the Execution Report for the revision includes Exec Type = 'E' Pending Replace and Exec Type Reason = '104' Original order is in speed bump enforced delay.

The Execution Report sent once the order submission has cleared the speed bump and is added to the order book includes Exec Type = 'D' Restated and Exec Type Reason = '102' Order added after speed bump.

When the order is replaced the Execution Report includes Exec Type = '5' Replaced and Exec Type Reason = '105' Order updated after speed bump delay.

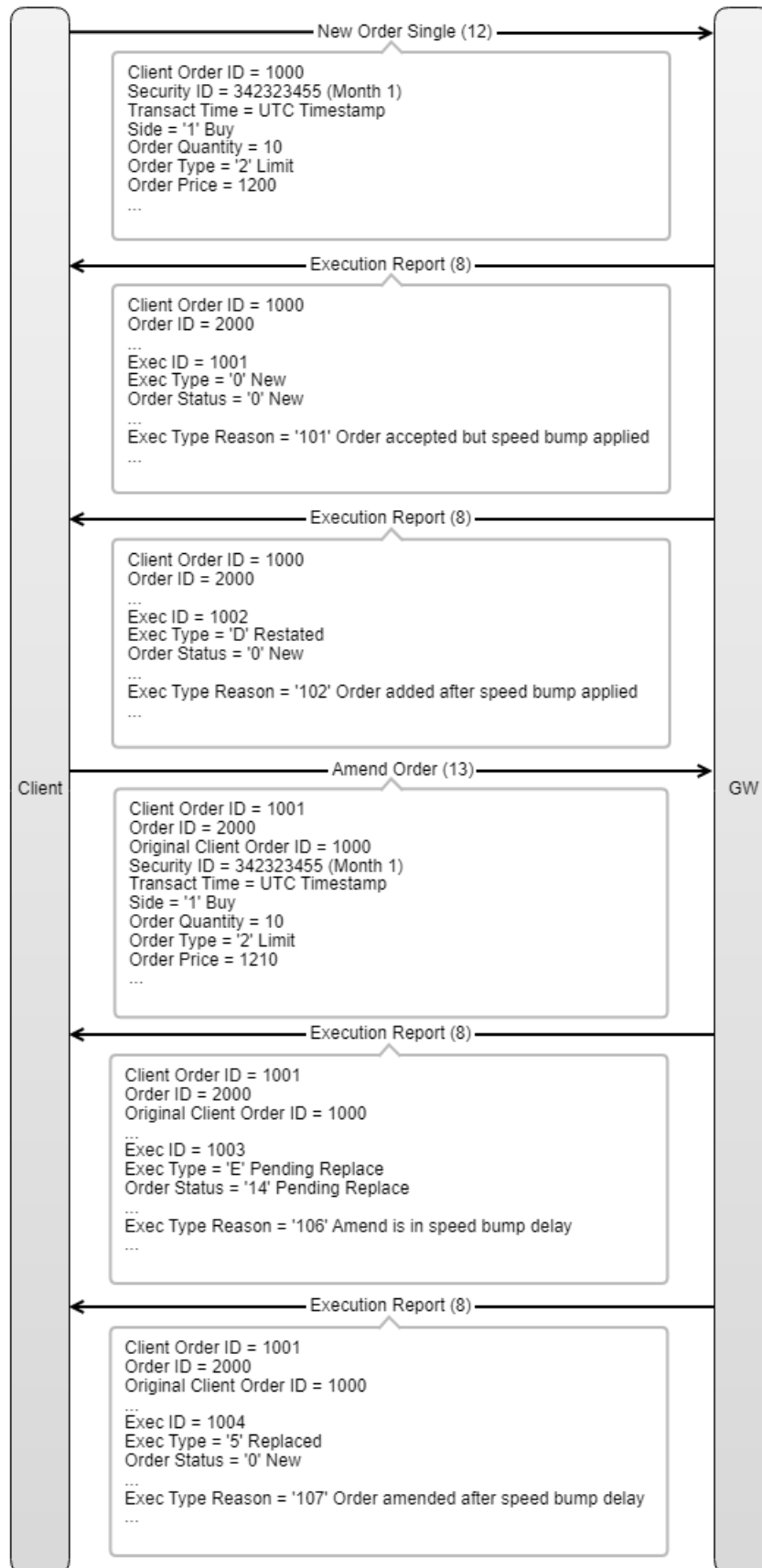


Executable order amendment for a resting order will be speed bumped

An order amendment is submitted for a resting order that was previously speed bumped. The Amend Order is speed bumped as the amended order will not provide liquidity. The Execution Report for the amendment includes Exec Type= 'E' Pending Replace with and Exec Type Reason = '106' Amend is in speed bump delay.

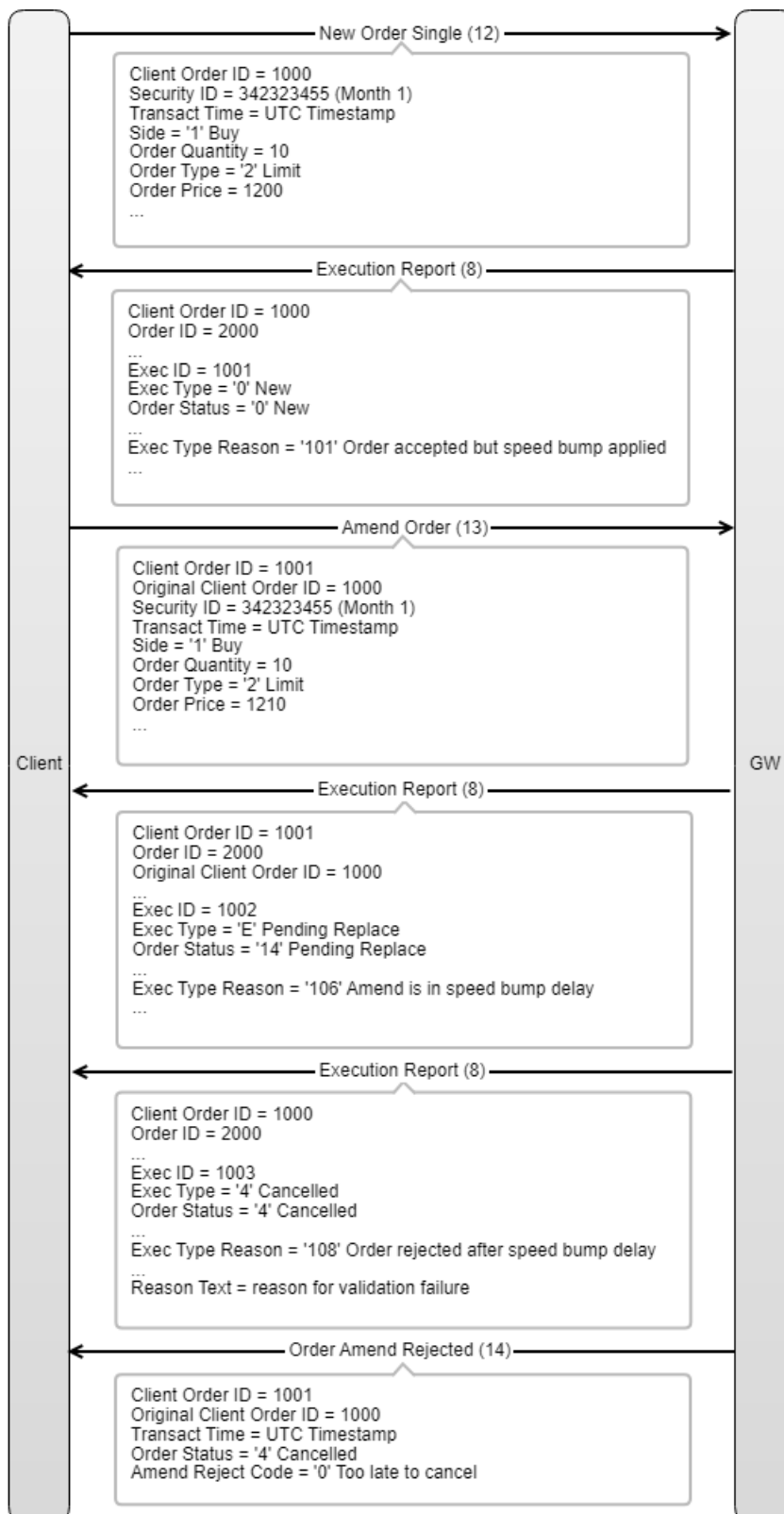
When the order is replaced the Execution Report includes Exec Type = '5' Replaced and Exec Type Reason = '107' Order amended after speed bump delay.





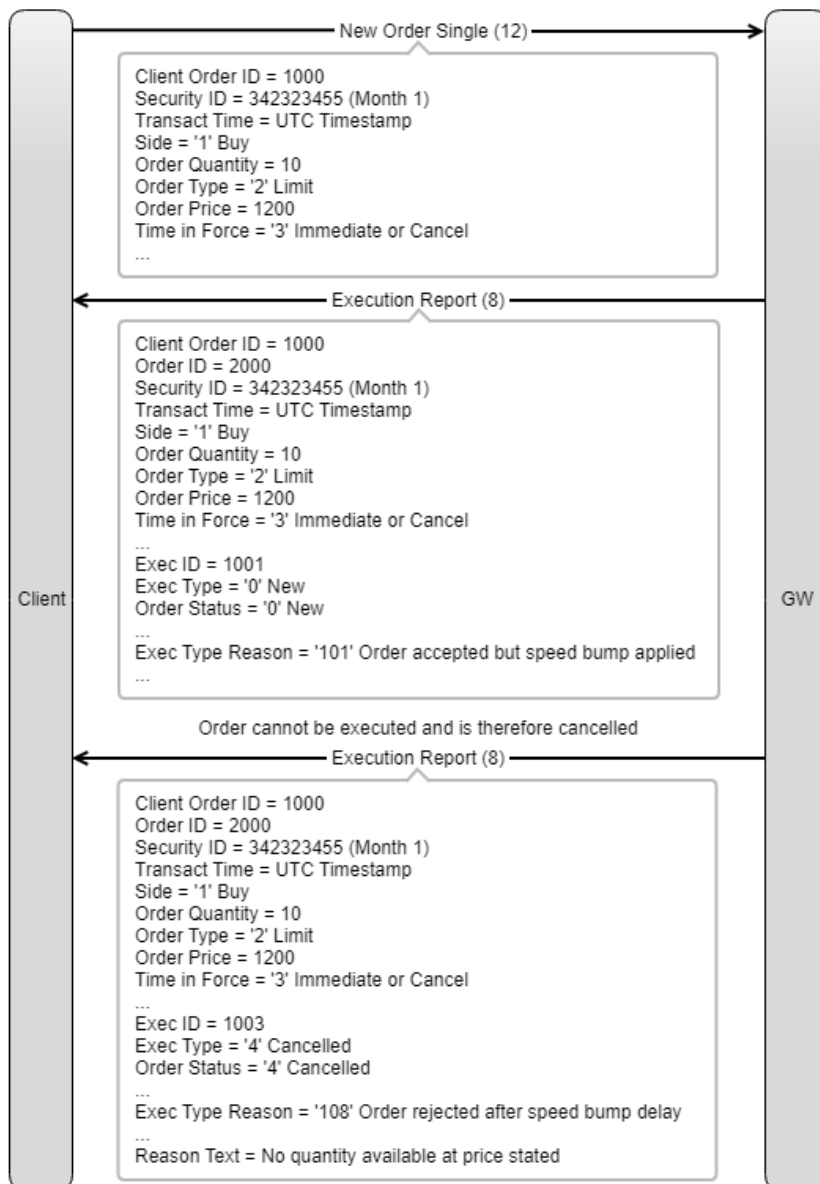
Speed bumped order is cancelled due to validation failure (inflight speed bumped amendment is also cancelled)

An order is submitted which is subject to a speed bump. An Amend Order (13) is accepted which is also subject to speed bump conditions. The original order submission fails business validation on clearing the speed bump and is cancelled. The Execution Report includes Exec Type = '4' Cancelled and Exec Type Reason = '108' Order rejected after speed bump delay with the reason for the business validation failure in Reason Text. An Order Amend Rejected (14) is sent for the order amend.



Immediate or Cancel speed bumped order fails validation and is cancelled

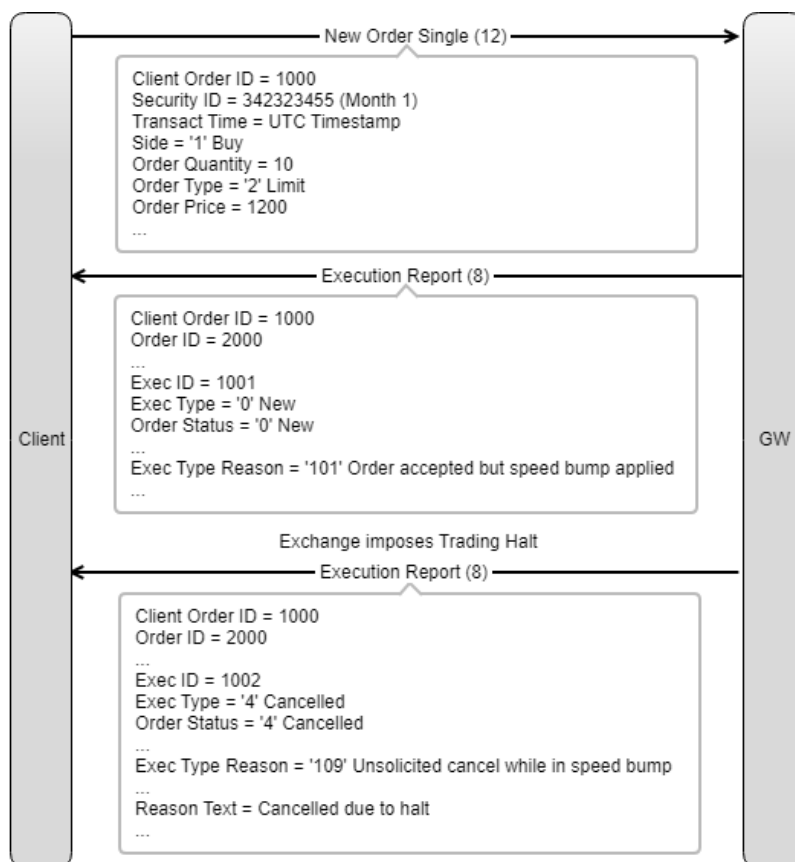
An Immediate or Cancel order is submitted which is subject to a speed bump. The order fails validation on clearing the speed bump as it cannot be executed and is therefore cancelled. The Execution Report includes Exec Type = '4' Cancelled and Exec Type Reason = '108' Order rejected after speed bump delay with the reason in Reason Text = No quantity available at price stated.



Note: In the absence of a speed bump an IOC will be rejected if no quantity is available at the price stated.

Unsolicited order cancellation while in speed bump

An order is submitted which is speed bumped. While the order is in the speed bump, the Exchange invokes a Trading Halt and all orders are pulled. The Execution Report sent for the order in the speed bump includes Exec Type = '4' Cancelled with Exec Type Reason = '109' Unsolicited cancel while in speed bump and Reason Text = Cancelled due to halt.



3.18 Message Throttling

The Exchange imposes a message throttle which limits the maximum number of messages that can be submitted per second by a Comp ID using the following messages:

- New Order Single (12)
- Amend Order (13)
- New Order Cross (27)
- *Quote Request (20)*
- Security Definition Request (10)
- *Mass Quote (22)*
- *MMP Reset Request (30).*

Security Definition Requests are included in the message throttle but also have their own throttle limits.

Each Mass Quote message is counted as a single message irrespective of the number of quote pairs present in the message.

Messages submitted in excess of the throttle limit in any given whole second will result in those messages being rejected by the gateway and will be notified by a Business Message Reject (7).

Note, Cancel Order (15) and Mass Cancel (17) messages are exempt from throttling.



A system protection throttle will disconnect a user if the incoming message volume exceeds a multiple of the threshold limit. Reconnection is permitted after a second.

3.19 Security Definition Throttle

The number of Security Definition Request (10) messages that can be submitted by a Comp ID is set at per day rate and also included in the per second message throttle. A user breaching the daily limit will have further Security Definition Request (10) submissions rejected by the gateway.

3.20 Merged Order Books

The LME prompt date structure for futures is such that two different prompts can share the same actual date on specific trading dates, for example, on the 3rd Wednesday of a month a 3M rolling prompt date will have the same prompt date as the monthly prompt date. On the trading date on which the prompts share the same actual date prompt, the order books for both prompts will be merged. TOM and Cash prompts will never merge.

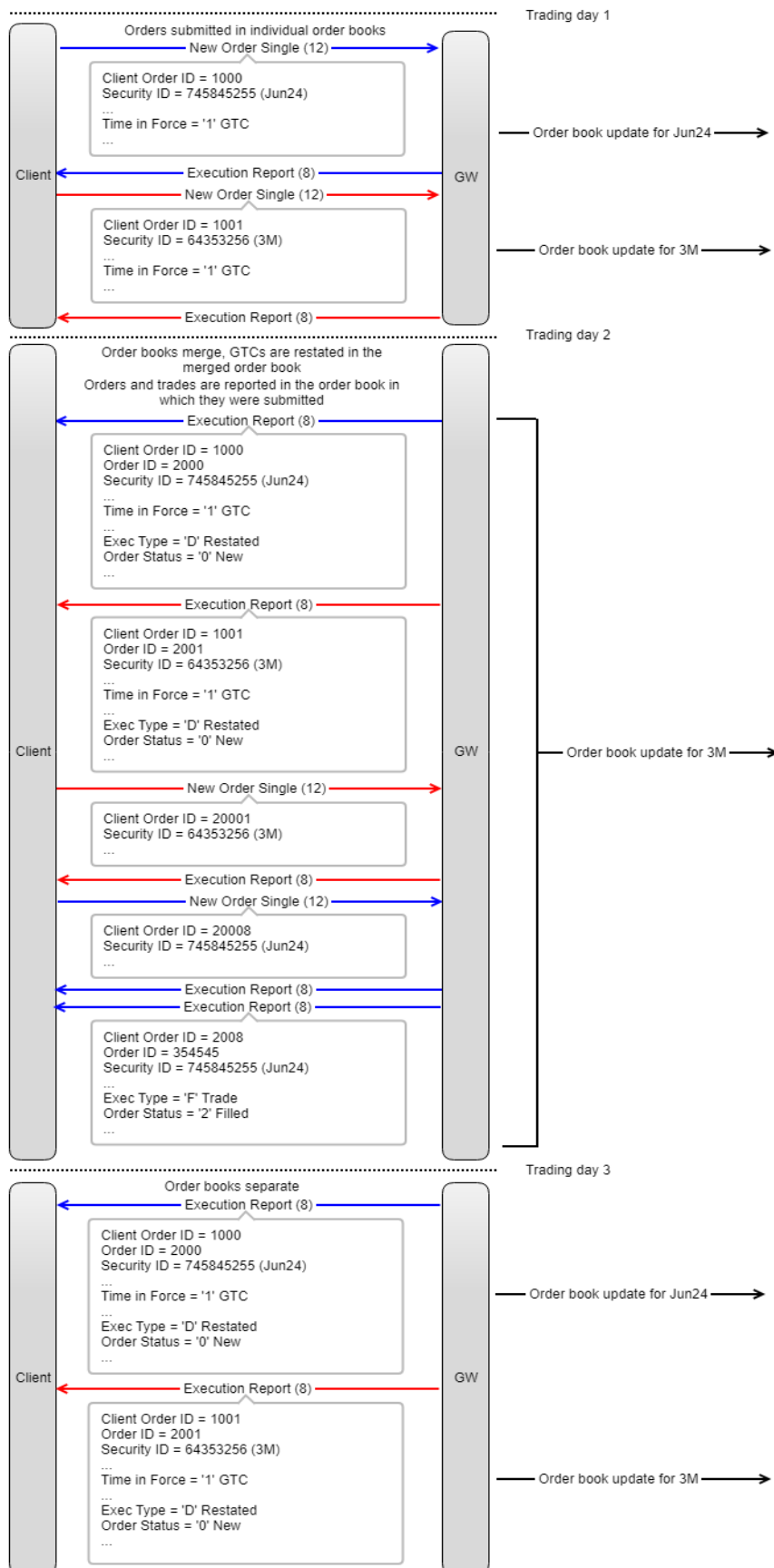
Strategy order books that include a rolling leg will also merge. This can occur if a leg or legs share the same actual prompt date.

The merging of order books only affects execution and market data publication. Prompt dates in the merged order book will be available for order entry. The instrument identifier of the rolling prompt will be used by the Market Data service.

GTC and GTD orders will be merged into the order book with precedence and will return to the order book into which they were entered when the order books are no longer merged.

A mass cancellation request for a tradable instrument will not result in the cancellation of any orders in a merged tradable instrument. Orders will only be cancelled in the SecurityID specified in the Mass Cancel Request (17).





3.21 Self Execution Prevention (SEP)

A member or client can use SEP functionality to prevent ~~guard against~~ orders from executing against other orders submitted ~~traders with~~ in their own organisation, including orders submitted by the same ~~trader executing orders with each other.~~

A member can use SEP by ~~functionality without configuring a SEP handling action in which case the Exchange configured response type would be triggered to cancel the incoming order. Alternatively a member can configure~~ SEP identifiers alongside a Client Short Code (optional) and specify the SEP instruction action to be taken if two orders with an identical SEP ID and Client Short Code could execute. SEP IDs must be uniquely allocated across the member and Client Short Code combinations. It is the member's responsibility to ensure orders submitted by their clients use the correct SEP ID and Client Short Code combinations. The Exchange will not validate whether a member has correctly assigned or configured SEP IDs for client use. Orders submitted with a SEP ID that is not in alignment with the configured Client Short Code will be rejected.

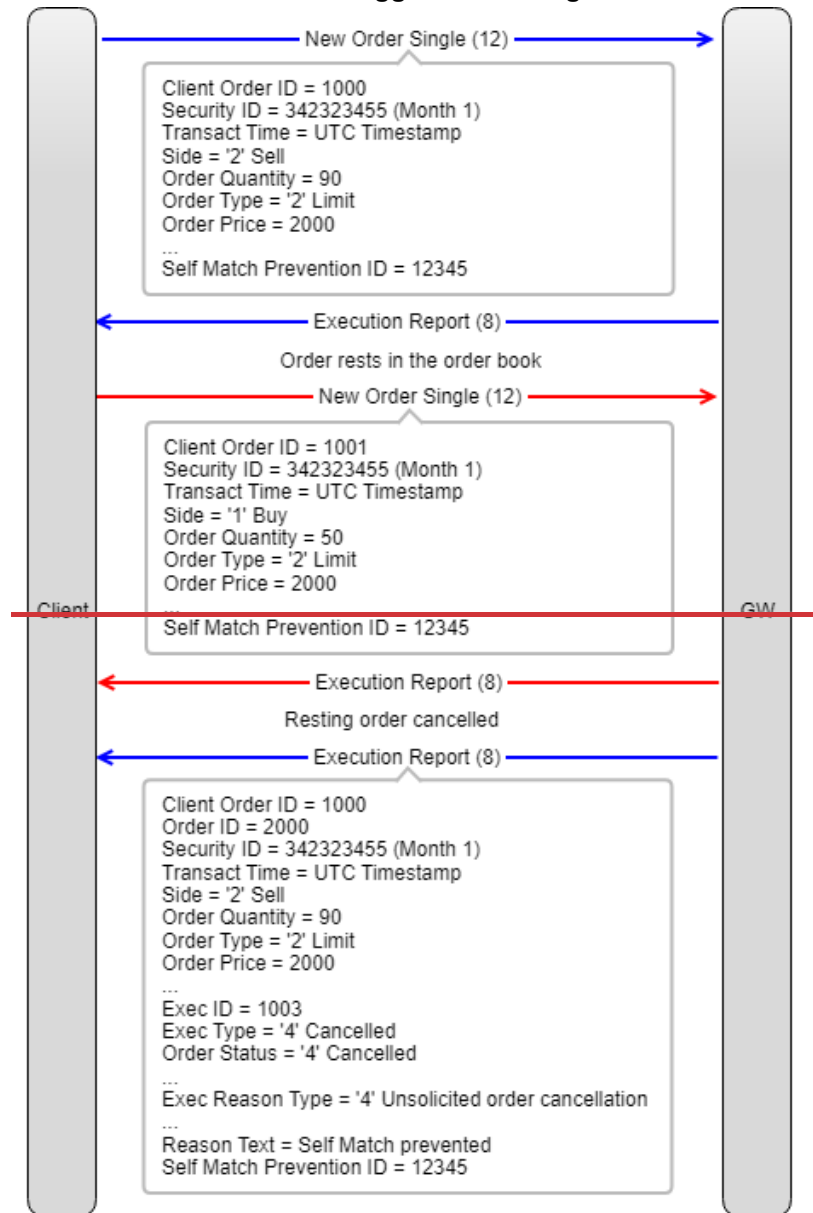
~~A SEP ID will be specified as a maximum of 9 digits. AM~~Members can use LMEoptic GUI Risk Manager can use the Risk Management interface to define the SEP configuration, as described in the Risk Management Gateway FIX Specification LMEoptic User Guide. Any new~~This~~ configuration or subsequent updates will be effective from the next trading day.

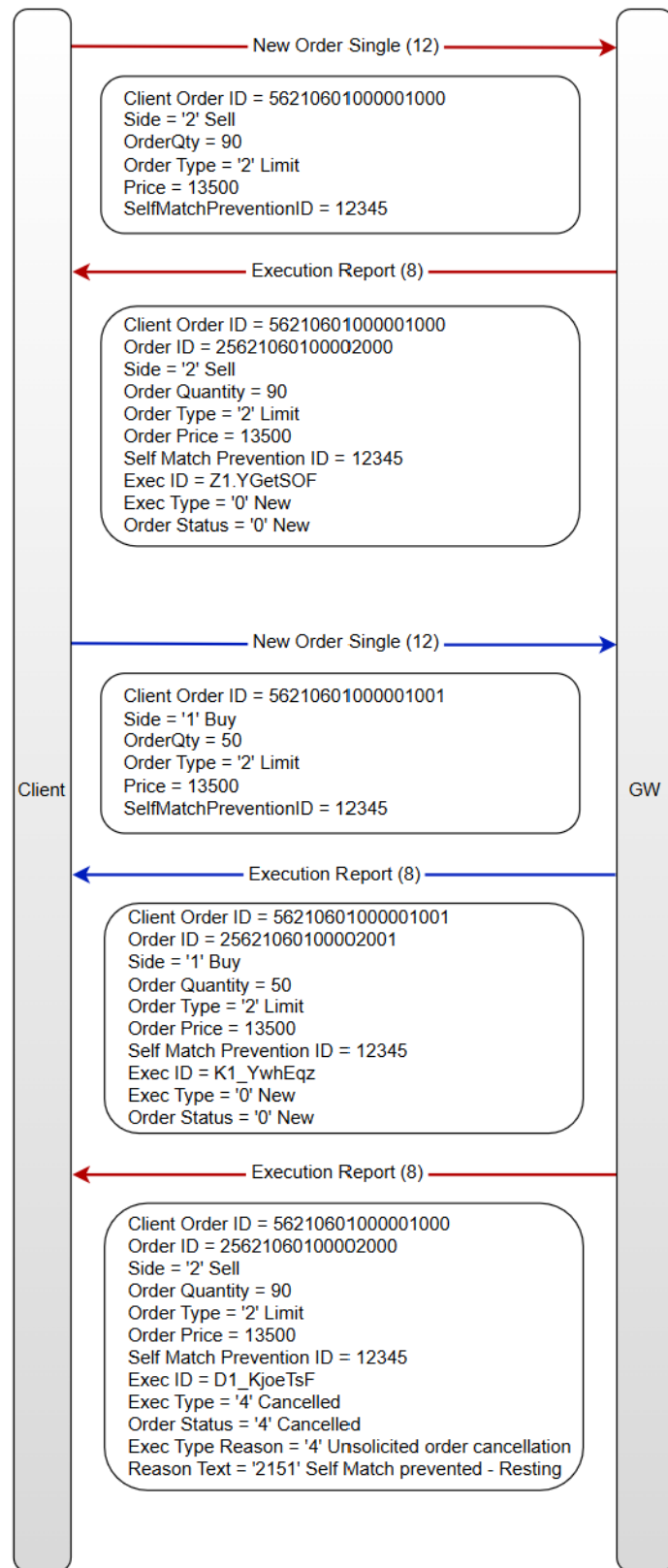
A SEP ID can be entered in the Self Match Prevention ID field on order submission. If orders with an identical SEP ID, Client Short Code ID and from the same member firm would lead to an execution in the orderbook, ~~can cross~~ the SEP ~~handling action instruction~~ that has been configured is triggered to cancel either the incoming or resting order or both (incoming and resting).

Based on the SEP instruction, an ~~The~~ Execution Report will be sent for ~~the~~ cancelled order(s). Messaging will identify Self Execution Prevention being the reason for cancellation. see Self Execution Prevention triggered scenarios below for further details. ~~will contain Reason Text – Self Match prevented.~~

The availability of SEP functionality will be determined by the Exchange. If an order is submitted with the Self Match Prevention ID field populated and SEP is not available for the ~~ate~~ Security ID specified contract, the order will be rejected. ~~The~~ Execution Reports ~~(8)~~ sent will contain the reason for the rejection. ~~Reason Text – Self Match Prevention not configured for the tradable instrument.~~

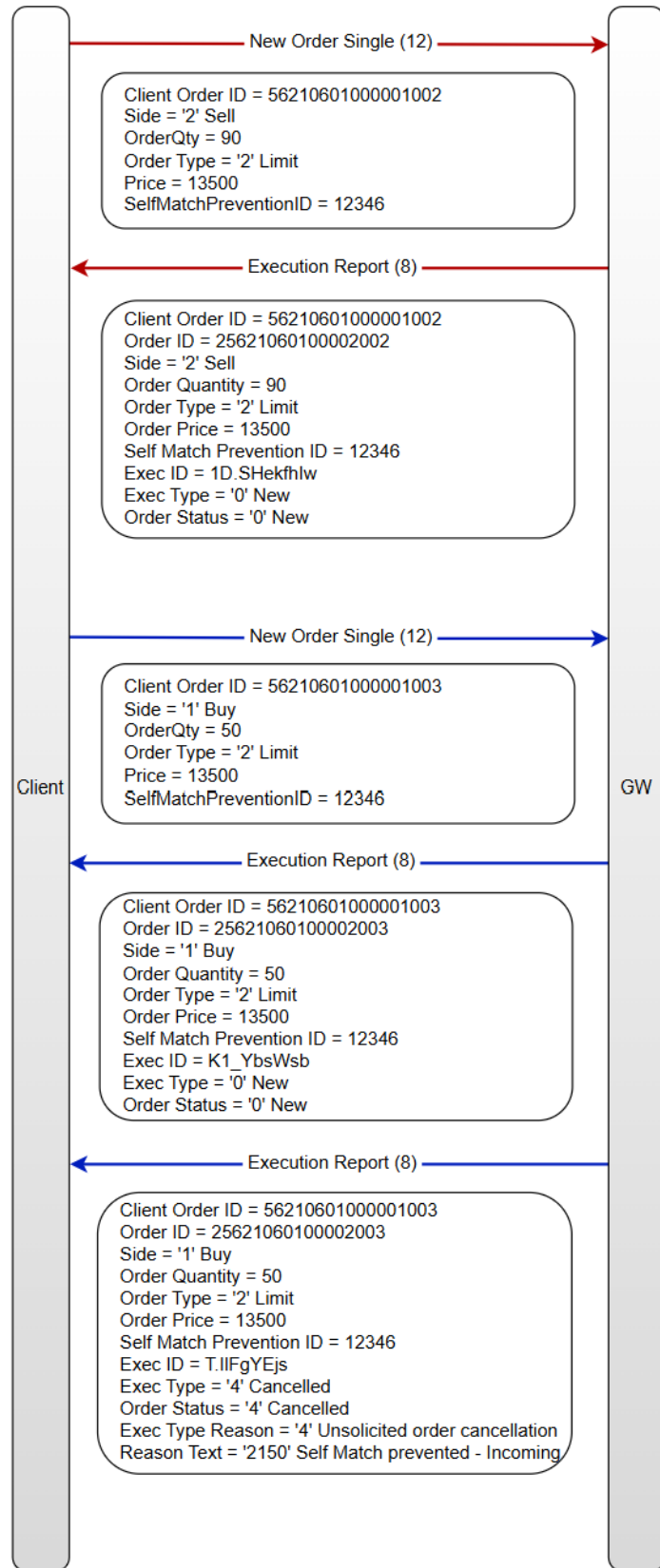
Self Execution Prevention triggered – resting order cancelled





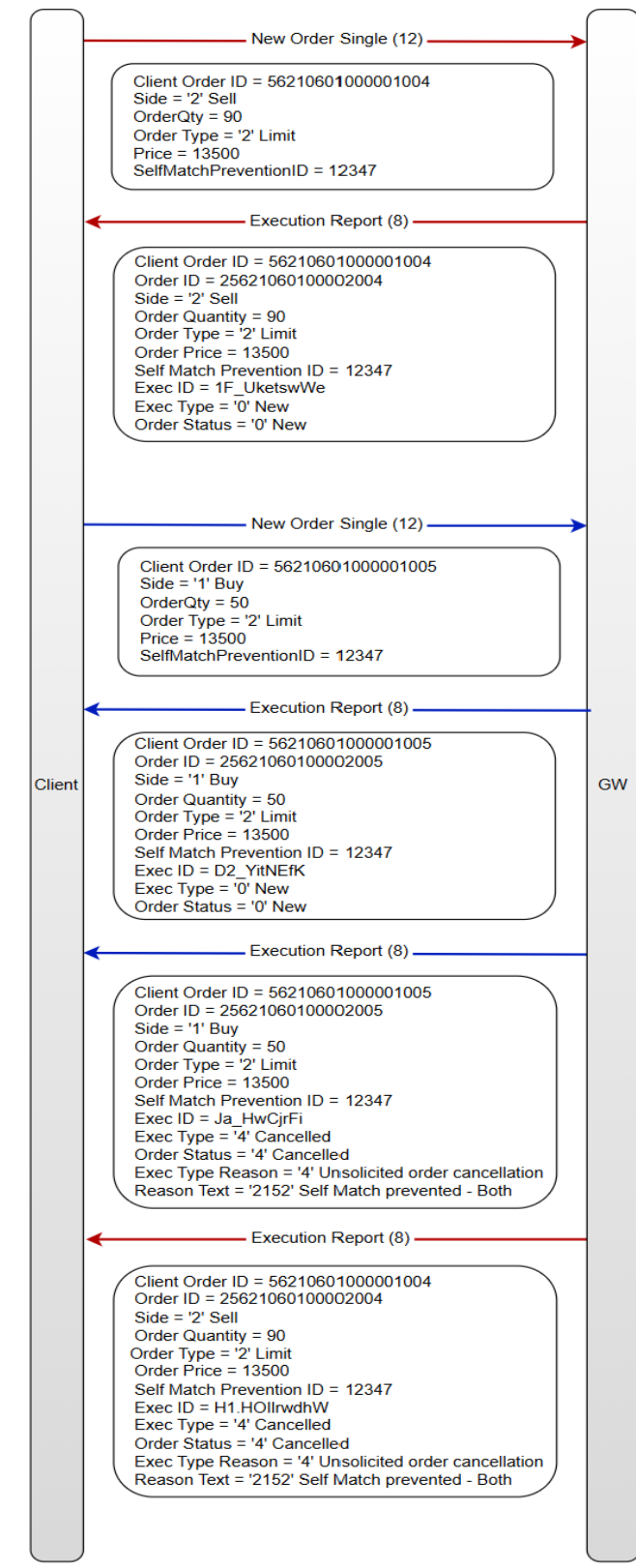
Self Execution Prevention triggered – incoming order cancelled





Self Execution Prevention triggered – both orders cancelled





3.22 Market Maker Protection (MMP)

Market Maker Protection will be available to permissioned trading users. A Member Risk Manager will use the Risk Management interface to specify the level of protection that should apply to a trading user in a particular contract as described in the Risk Management Gateway FIX Specification.

The Member Risk Manager will specify the protection type and protection limit measured over a configured time period which is defined in seconds. This time period defines the length of the rolling time interval for MMP recalculation which is used to determine if the quantity limit has been reached.

The following protection types can be configured:

- *Cumulative percent over time - Total percentage of orders executed within the configured time period*
- *Volume over time - Total count of volume executed within the configured time period*
- *Number of tradable instruments traded over time - Total count of option strikes within the configured time period.*

If an MMP limit is breached the protection response is triggered to pull orders and reject further orders until MMP is explicitly reset by the trading user using an MMP Reset Request (30). The MMP reset will only affect the MMP limit that has been breached.

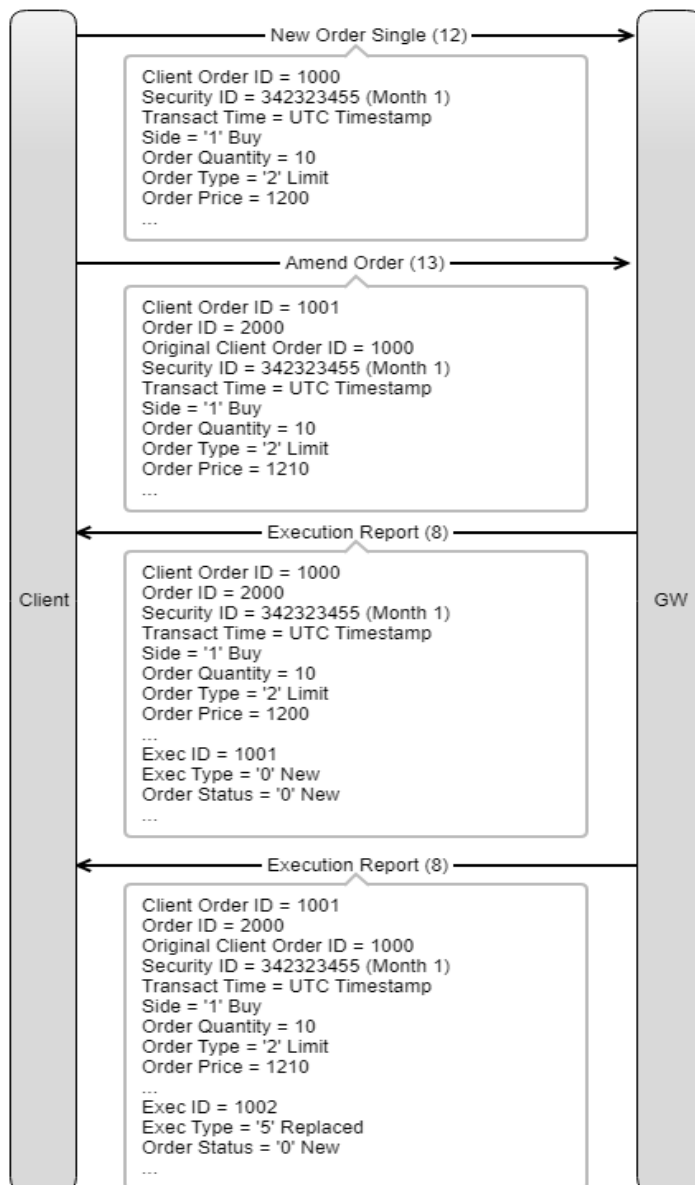
Note, whenever a protection response is triggered, the corresponding trading user will be notified by a News (40) message.

Once MMP is reset order and quote submission can resume.

3.23 Inflight Order Processing

The gateway will accept a single inflight amend or cancellation request whilst processing a new order. The amend request is queued until the preceding request has been processed. Multiple inflight messages will be rejected.

For example, a New Order Single (12) is submitted followed immediately afterwards by an Amend Order (13). An Execution Report (8) is returned for the order submission and then the amendment.



Refer to Appendix A: Inflight Order Handling and Appendix B: Speed Bump Inflight Order Handling in the Order Entry Gateway FIX Specification for more examples.

3.24 Trade Reporting

When an outright order matches, a trade half will be assigned an identifier which will be reported in the Trade ID on the Execution Report (8).

A strategy trade half will be reported in a single Execution Report including the leg details. The legs of strategy trade will be assigned a Leg Allocation ID which will be shared with either the Leg Allocation ID of another strategy trade or the Trade ID of an outright trade.

3.25 Client ID Usage

Of the following client identifiers only two can be specified for an order *or Mass Quote*:

- Client ID Short Code
- Legal Entity ID
- Proprietary Client ID.



4 Message Definitions

4.1 Inbound Messages

- Logon (5)
- Heartbeat (0)
- Test Request (1)
- Resend Request (2)
- Sequence Reset (4)
- Logout (6)
- Security Definition Request (10)
- New Order Single (12)
- New Order Cross (27)
- Amend Order (13)
- Cancel Order (15)
- Cancel Cross Order (28)
- Mass Cancel Request (17)
- *Mass Quote (22)*
- *Quote Request (20)*
- *MMP Reset Request (30).*

4.2 Outbound Messages

- Logon (5)
- Heartbeat (0)
- Test Request (1)
- Resend Request (2)
- Sequence Reset (4)
- Logout (6)
- Reject (3)
- Business Message Reject (7)
- News (40)
- Security Definition (11)
- Order Amend Rejected (14)
- Order Cancel Rejected (16)
- Execution Report (8)



- Mass Cancel Report (18)
- *Mass Quote Ack (23)*
- *Quote Request Ack (21)*
- *MMP Reset Ack (31)*.

4.3 Data Types

Data Type	Size (bytes)	Format																														
Char	1	ASCII Alphanumeric Permitted ASCII characters are A-Z, a-z, 0-9, underscore ('_') and space (' ')																														
String	(n)	Fixed length. These fields use standard Char bytes. Permitted ASCII characters are A-Z, a-z, 0-9. Note, special characters are also permitted for the following attributes: <table> <tr> <th>Field</th><th>Underscore</th><th>Hyphen</th></tr> <tr> <td>Client Order ID</td><td>✓</td><td>✓</td></tr> <tr> <td>Original Client Order ID</td><td>✓</td><td>✓</td></tr> <tr> <td>CrossID</td><td>✓</td><td>✓</td></tr> <tr> <td>OrigCrossID</td><td>✓</td><td>✓</td></tr> <tr> <td>Buy Side Client Order ID</td><td>✓</td><td>✓</td></tr> <tr> <td>Sell Side Client Order ID</td><td>✓</td><td>✓</td></tr> <tr> <td>Broker Client ID</td><td>✓</td><td>✓</td></tr> <tr> <td>Origination Trader</td><td>✓</td><td>X</td></tr> <tr> <td>Proprietary Client ID</td><td>✓</td><td>X</td></tr> </table>	Field	Underscore	Hyphen	Client Order ID	✓	✓	Original Client Order ID	✓	✓	CrossID	✓	✓	OrigCrossID	✓	✓	Buy Side Client Order ID	✓	✓	Sell Side Client Order ID	✓	✓	Broker Client ID	✓	✓	Origination Trader	✓	X	Proprietary Client ID	✓	X
Field	Underscore	Hyphen																														
Client Order ID	✓	✓																														
Original Client Order ID	✓	✓																														
CrossID	✓	✓																														
OrigCrossID	✓	✓																														
Buy Side Client Order ID	✓	✓																														
Sell Side Client Order ID	✓	✓																														
Broker Client ID	✓	✓																														
Origination Trader	✓	X																														
Proprietary Client ID	✓	X																														



Data Type	Size (bytes)	Format			
		<table> <tr> <td>Customer Account</td><td>✓</td><td>X</td></tr> </table> Note: Text in the News message and rejection reasons can contain other ASCII characters and spaces. <u>ExecID in the Execution Report message can also contain underscores, full stops, forward slashes and plus signs</u> All fields of this data type will be null terminated and the length of the field will include this null character. If the field value does not occupy the full length of the field, data after the null termination should be discarded. For incoming messages to the gateway validation enforces use of a null termination character somewhere between the 2nd and the final character: - If the field value occupies the full length of the field and does not include null character, the gateway will reject the message. - In case the field is empty, the first byte will be null filled. This is to indicate that the field is not applicable / not filled in.	Customer Account	✓	X
Customer Account	✓	X			
UInt8	1	Unsigned integer. Minimum value = 0 Maximum value = 254 Null value = 255			
Int8	1	Signed integer. Minimum value = -127 Maximum value = 127 Null value = -128			
UInt16	2	Little Endian encoded unsigned integer. Minimum value = 0 Maximum value = 65,534 Null value = 65,535			
Int16	2	Little Endian encoded signed integer. Minimum value = -32,767 Maximum value = 32,767 Null value = -32,768			



Data Type	Size (bytes)	Format
UInt32	4	Little Endian encoded unsigned integer Minimum value = 0 Maximum value = 4,294,967,294 Null value = 4,294,967,295
Int32	4	Little Endian encoded signed integer. Minimum value = -2,147,483,647 Maximum value = 2,147,483,647 Null value = -2,147,483,648
UInt64	8	Little Endian encoded 64 bits signed integer Minimum value = 0 Maximum value = 18,446,744,073,709,551,614 Null value = 18,446,744,073,709,551,615 Note: Timestamps will be represented as UTC up to microsecond precision with the nanosecond element being represented by trailing zeros.
Int64	8	Little Endian encoded 64 bits unsigned integer Minimum value = -9,223,372,036,854,775,807 Maximum value = 9,223,372,036,854,775,807 Null value = -9,223,372,036,854,775,808 Note: Prices will support 6 implied decimals.
Bitmap Fixed Length	16	Bitmap Fixed Length provides up to 128 representation options. To indicate availability, set 1 to the applicable bit position and 0 for unavailability. Each bit in the presence map will represent a field and the sequence in which the fields should be included into the message will be based on the bit position (starting from the most significant bit position).
Bitmap Variable Length	(n)	Bitmap Variable Length is used to indicate the presence of fields and nested repeating blocks in a repeating block. To indicate availability set 1 to the applicable bit position and 0 for unavailability. The length of the bitmaps used for different repeating blocks may vary.



4.4 Message Composition

Each message comprises of the following logical components:

1. Header
2. Body
3. Trailer

Fields within a message are formed in the same order as the composition given above.

Fields present within the body of the message is defined through a field presence map where the present fields are indicated as part of the header.

Fields that are part of the header and the trailer are considered mandatory.

4.4.1 Field Presence Map

The binary protocol provides a concept of field presence maps per each message type where using these bitmap fields available within the message, senders could indicate the fields available within the message in a dynamic nature.

Each bit in the presence map will represent a field and the sequence in which the fields should be included into the message will be based on the bit position (starting from the most significant bit position). All fields applicable to a particular presence map should be included in the message immediately following the applicable presence map.

For example, consider an 8 bit presence map. 1st, 2nd and 3rd positions indicate Security ID, Client Order ID and Order Quantity respectively where rest of the positions have not been assigned to a field.

To indicate the presence of the fields Security ID and Order Quantity the presence map will be set as shown below:

Bit Position (BP)	0	1	2	3	4	5	6	7
Represented field	Security ID	Client Order ID	Order Quantity	N/A	N/A	N/A	N/A	N/A
Bit value (presence)	1	0	1	0	0	0	0	0

Message view:

Preceding fields of the message								
Presence Map	1	0	1	0	0	0	0	0
Security ID	12345							



Order Quantity	1000
Succeeding fields of the message	

The applicable data types and lengths of the body fields are provided in each message. Based on the available fields as indicated by the field presence map, the recipient of the message is expected to decode the message accordingly.

Bit position for a field that commonly appears in multiple messages may be different; each message may have its own bit position for individual fields present in that message.

4.4.2 Repeating Blocks and Nested Repeating Blocks

The binary message protocol supports repeating blocks within the message body while also allowing nested repeating blocks within a repeating block.

When indicating a repeating block, the field presence map will only indicate the presence of the repeating block. Based on the repeating block construct, the receiving party is expected to evaluate the field contents and the numbers of repeating blocks.

This specification describes the repeating block construct and the relevant field information such as the data types required to identify the message contents and also to calculate header and trailer information such as message length and checksums.

Each repeating block construct will have a repeating block header field which is immediately followed by a field presence map which will indicate the presence of the applicable fields in that repeating block and any nested repeating blocks included within.

For example, consider an 8-bit field presence map included in the message header of a Mass Quote for which there are 10 mandatory bits:

BP	0	1	2	3	4	5	6	7
Represented field	Quote ID	Transaction Time	No Quote Sets	N/A	N/A	N/A	N/A	N/A
Bit value (presence)	1	1	1	0	0	0	0	0

Position 2 indicates a repeating block which indicates the number of quote sets (i.e. number of quote pairs) present in the Mass Quote message.



A sample No Quote Sets repeating block construct is given below:

No Quote Sets		Number of Quote Set repeating blocks. Valid values are 1 or n. (Repeating block header field)
Quote Set Repeating Group Field Presence Map		This will indicate the fields/nested repeating blocks present in this repeating block
0	Security ID	Tradable Instrument identifier.
1	No Quote Entries	Number of Quote Entry repeating blocks. Valid values are 1 to 3. (Repeating block header field)
	Quote Entry Field Presence Map	This will indicate the fields/nested repeating blocks present in this repeating block
	0	Quote Entry ID
	1	Quote Price Level
	2	Bid Size
	3	Offer Size
	4	Bid Price
	5	Offer Price

In the above message construct, No Quote Entries is a nested repeating block within the No Quote Sets repeating block.

4.5 Required Fields

The following conventions are used for fields in the message definitions:

Y	Mandatory
C	Conditionally required based on a specified condition or presence of another field
N	Not required / optional



4.6 Message Header

Seq	Field Name	Req	Data Type	Description
1	Start of Message	Y	UInt8	Indicates the starting point of a message. Always set to the ASCII STX character (0x02).
2	Length	Y	UInt16	Length of the message including all the fields in the message (i.e. length of all header, body and trailer fields)
3	Message Type	Y	UInt8	Defines the message type.
4	Sequence Number	Y	UInt32	Outbound message sequence number. Always incremented by the sender.
5	PossDup	Y	UInt8	Indicates whether the message was previously transmitted with the same sequence number: Valid values: 0 = No (original transmission) 1 = Yes (possible duplicate)
6	PossResend	Y	UInt8	Indicates whether the message was previously transmitted under a different sequence number: Valid values: 0 = No (original transmission) 1 = Yes (possible resend)
7	Comp ID	Y	String (11)	Identifies the sender of the message.
8	Sending Time	Y	UInt64	Time the message is transmitted.
9	Original Sending Time	Y	UInt64	Time the message was originally transmitted. Applicable only if PossDup 1 = Yes (possible duplicate). If the original time is not available, this will be the same value as Sending Time. 0 value otherwise.
10	Body Fields Presence Map	Y	Bitmap Fixed Length	Indicates the list of fields that would be present immediately after this Body Fields Presence Map field.



4.7 Message Trailer

Seq	Field Name	Req	Data Type	Description
1	Checksum	Y	UInt32	CRC32C based checksum.

4.8 Administrative Messages

4.8.1 Logon (5)

The Logon request and response are used to authenticate the client and agree on the sequence numbers.

On initial logon the status of persisted orders is communicated by the publication of Execution Reports for all open orders.

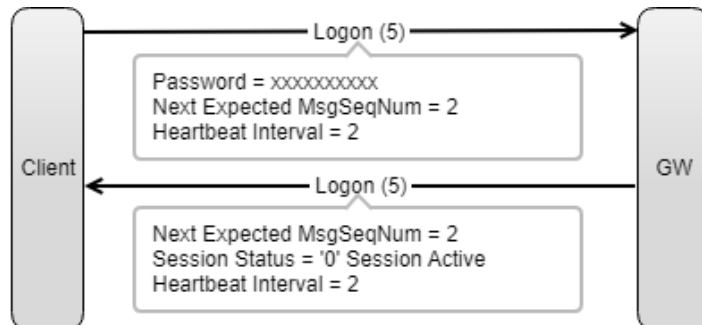
The list of available tradable instruments for the current trading day will be published by the Market Data service independently.

BP	Field Name	Req	Data Type	Description
0	Password	C	String (450)	Encrypted Password assigned to the Comp ID. Conditionally required in the Logon message initiated by the client. Absent in the Logon message sent by the gateway.
1	New Password	N	String (450)	New encrypted Password for the Comp ID. May be present only in the Logon message initiated by the client
2	Next Expected MsgSeqNum	Y	UInt32	Next expected message sequence number to be received. Always updated as a result of an incoming message.
3	Session Status	C	UInt8	Status of the binary session. Valid values: 0 = Session active 1 = Session password change Conditionally required in the Logon message sent by the gateway.
4	Heartbeat Interval	Y	UInt32	Heartbeat interval in seconds.



Example Message Flow

Initial Logon



4.8.2 Heartbeat (0)

Heartbeat is sent at the interval specified in Logon (5). It is also sent in response to a Test Request (1).

BP	Field Name	Req	Data Type	Description
0	Reference Test Request ID	C	String (21)	Conditionally required if the Heartbeat is in response to a Test Request. The value in this field will echo the Test Request ID received in the Test Request.

4.8.3 Test Request (1)

Test Request can be sent by either the client or gateway to verify a connection is active. The recipient responds with a Heartbeat (0).

BP	Field Name	Req	Data Type	Description
0	Test Request ID	Y	String (21)	Identifier included in Test Request message to be returned in resulting Heartbeat.

4.8.4 Resend Request (2)

Resend Request is used to initiate the retransmission of messages if a sequence number gap is detected.

To request a single message. The Start Sequence and End Sequence should be the same.

To request a specific range of messages. The Start Sequence should be the first message of the range and the End Sequence should be the last of the range.

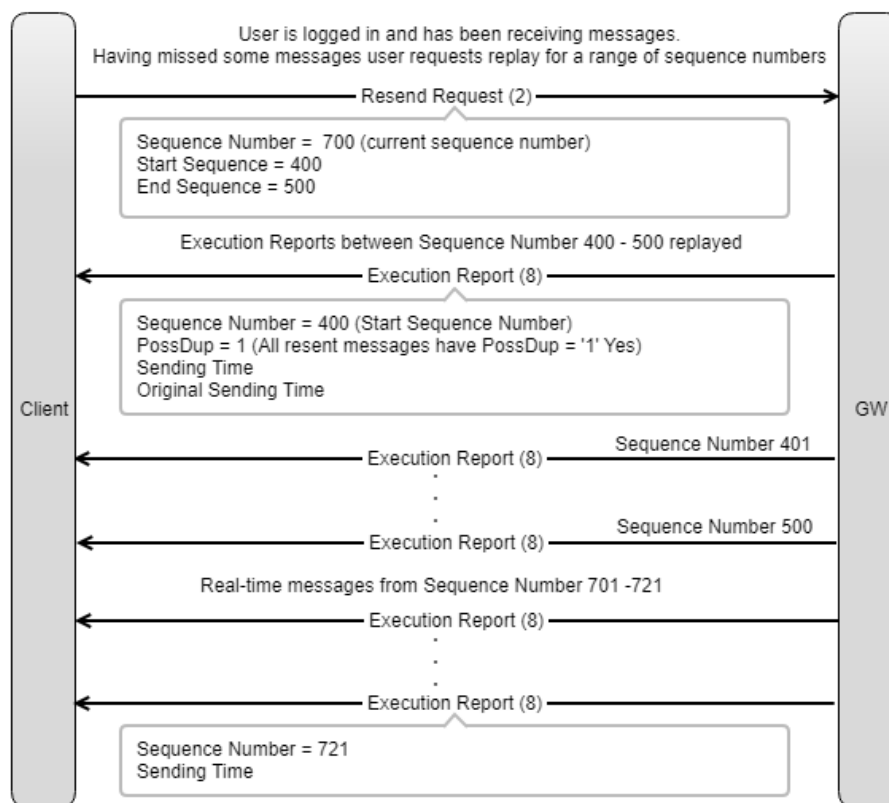
To request all messages after a particular message. The Start Sequence should be the sequence number immediately after that of the last processed message and the End Sequence should be zero (0).

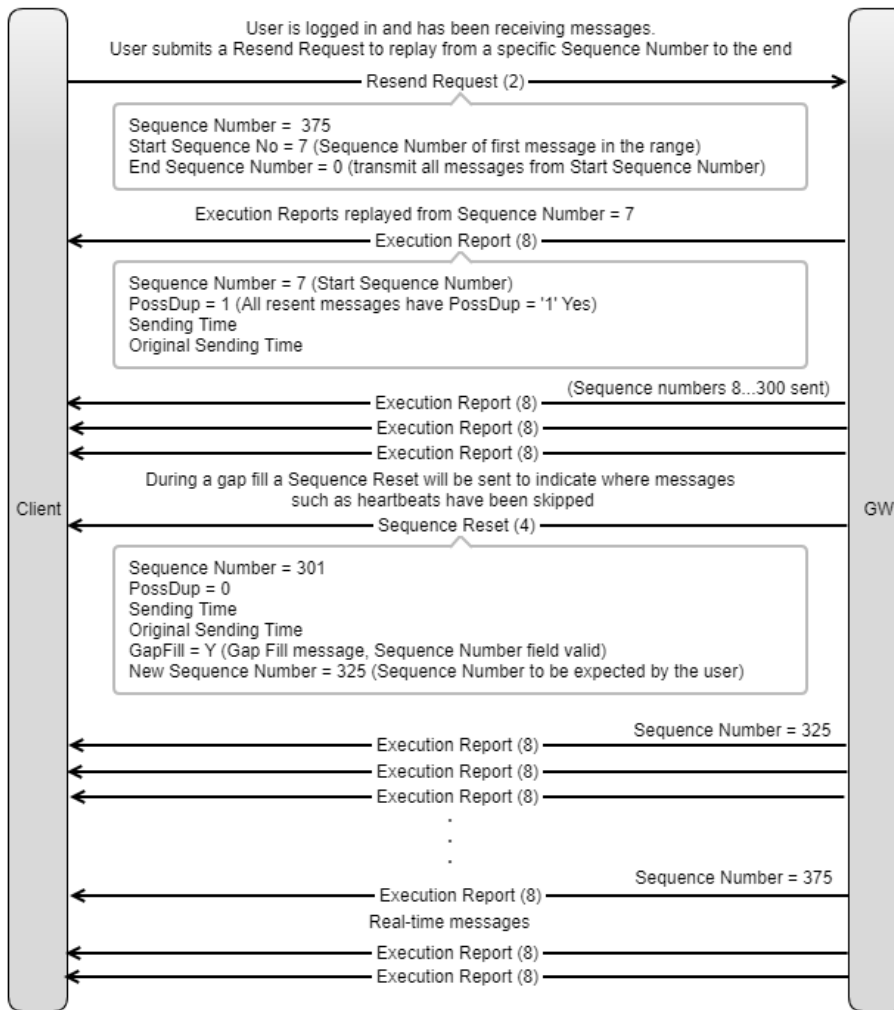


BP	Field Name	Req	Data Type	Description
0	Start Sequence	Y	UInt32	Sequence number of the first message expected to be resent.
1	End Sequence	Y	UInt32	Sequence number of the last message expected to be resent. This may be set to 0 to request the sender to transmit ALL messages starting from Start Sequence Number.

Example Message Flows

Resend Request for a range of messages



Resend Request for all messages after a particular message

4.8.5 Sequence Reset (4)

Sequence Reset allows the client or the gateway to increase the expected incoming sequence number of the other party.

In a Gap Fill it is sent as notification of the next sequence number to be transmitted.

BP	Field Name	Req	Data Type	Description
0	Gap Fill	N	Char	Indicates whether the sequence number is to be interpreted in Reset mode or Gap Fill mode: Valid values: N = Reset (ignore Sequence Number) Y = Gap Fill (Sequence Number valid) If omitted default value is N.
1	New Sequence Number	Y	UInt32	Sequence number of the next message to be transmitted.

4.8.6 Logout (6)

Logout initiates or confirms the termination of a client session. Clients should terminate their sessions gracefully by logging out.

If a user is disabled by LME Market Operations while logged in then a Logout message will be sent to the user and the session will be disconnected.

If a user has their password reset by LME Market Operations and attempts to login with their previous password, the user will receive a Logout with Session Status = '100' Password change is required.

BP	Field Name	Req	Data Type	Description
0	Session Status	C	UInt8	Status of the binary session. Valid values: 3 = New session password does not comply with the policy 4 = Session logout complete 5 = Invalid username or password 6 = Account locked 7 = Logons are not allowed at this time 8 = Password expired 100 = Password change is required 101 = Other Conditionally required only if the message is generated by the gateway.



BP	Field Name	Req	Data Type	Description
1	Logout Text	C	String (76)	Reason for the Logout. Conditionally required if Session Status = '101' Other

4.8.7 Reject (3)

Reject will be sent when a message is received but cannot be properly processed by the gateway due to a session level rule violation. For example, populating a reserved bit position in a message will return Message Reject Code = '3' Undefined field.

BP	Field Name	Req	Data Type	Description
0	Message Reject Code	Y	UInt16	Code specifying the reason for the session level rejection: Valid values: 1 = Required field missing 2 = Field not defined for this message 3 = Undefined field 4 = Field specified without a value 5 = Value is incorrect for this field 6 = Incorrect data format for value 9 = Comp ID problem 10 = Sending Time Accuracy problem 11 = Invalid message type 13 = Field appears more than once 99 = Other
1	Reference Message Type	N	UInt8	Message type of the rejected message.
2	Reference Field Name	N	String (50)	Name of the field which caused the rejection.
3	Reference Sequence Number	Y	UInt32	Sequence number of the message which caused the rejection.
4	Reason Text	N	String (76)	Text specifying the reason for the rejection.

4.9 Other Messages

4.9.1 Business Message Reject (7)

Once an application level message passes validation at session level it will then be validated at business level. If business level validation detects an error condition then a rejection should be



issued. Many business level messages have specific fields for rejection handling where a specific field is not available the Business Message Reject message will be returned.

BP	Field Name	Req	Data Type	Description
0	Business Reject Code	Y	UInt16	Code specifying the reason for the rejection of the message: Valid values: 0 = Other 2 = Unknown Security 3 = Unspecified Message Type 5 = Conditionally required field missing 8 = Throttle limit exceeded 9 = Throttle limit exceeded, session will be disconnected
1	Reason Text	N	String (76)	Text specifying the reason for the rejection.
2	Reference Message Type	Y	UInt8	Message type of the rejected message.
3	Reference Field Name	N	String (50)	Name of the field which caused the rejection.
4	Reference Sequence Number	N	UInt32	Sequence number of the message which caused the rejection.
5	Business Reject Reference ID	N	String (21)	Client specified unique identifier on the message that was rejected. For example, for a New Order Single this would be the client specified identifier in the Client Order ID.

4.9.2 News (40)

A News message is a general free format message from the exchange. *A News message is also sent in response to a market maker protection breach, see [3.19 Market Maker Protection \(MMP\)](#).*

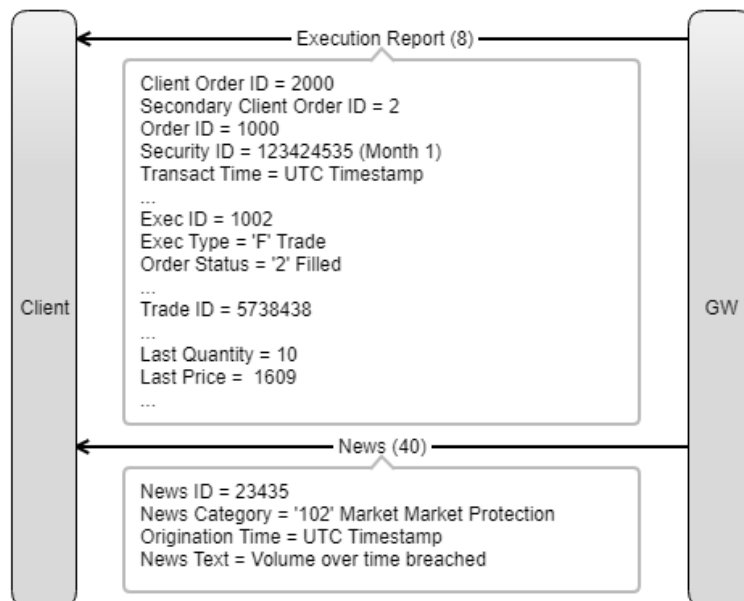
BP	Field Name	Req	Data Type	Description
0	News ID	Y	String (21)	Unique identifier assigned for the News message.
1	News Category	Y	UInt8	Category of the News. Valid values: 101 = Market message



BP	Field Name	Req	Data Type	Description
				<i>102 = Market Maker Protection</i>
2	Origination Time	Y	UInt64	Time of message origination. UTC Timestamp
3	News Text	Y	String (251)	Free text field for Market message <i>or one of the following for Market Maker Protection:</i> <i>Cumulative percent over time breached</i> <i>Volume over time breached</i> <i>Number of tradable instruments traded over time breached</i>

Example Message Flow

Market Maker Protection breached



4.10 Application Messages

4.10.1 Security Definition Request (10)

Security Definition Request is used to request the creation of either an **option strike** or a strategy.

BP	Field Name	Req	Data Type	Description
0	Security Request ID	Y	String (19)	Client specified unique identifier of the Security Definition Request.
1	Security Exchange	Y	String (5)	The market which is used to identify the security. XLME
2	Product Complex	Y	String (5)	Identifies an entire suite of products for a given market. Valid values: LME = Base
3	Symbol	Y	String (21)	Symbol for the LME contract code e.g. CADF (Copper Future), <u>CADO (Copper Option)</u> or OCDF (Copper Monthly Average Future).
4	Security Type	Y	UInt8	Indicates the type of security whether outright or strategy. Valid values: 2 = Option 3 = Multi-leg instrument
5	Security Sub Type	Y	UInt8	Indicates the type of instrument to be created. Valid values: 0 = Outright 1 = Carry 2 = Custom (Futures) 3 = 3 Months Average 4 = 6 Months Average 5 = 12 Months Average 6 = Carry Average 7 = Call Spread 8 = Put Spread 9 = Custom (Delta Hedge) 10 = Custom (Options)



BP	Field Name		Req	Data Type	Description
6	Maturity Date		C	UInt32	Expiration date for options. Conditionally required for Security Type = '2' Option.
7	Strike Price		C	Int64	Strike price for an option. Conditionally required for Security Type = '2' Option.
8	Put or Call		C	UInt8	Used to express option right Valid values: 0 = Put 1 = Call Conditionally required for Security Type = '2' Option.
9	No Legs		C	UInt8	Number of legs repeating blocks. Cannot be less than 2 or more than 5. Note this will only be 1 for a 3 Month Average, 6 Month Average and 12 Month Average. Conditionally required for Security Type = '3' Multi-leg instrument.
	Legs Body Fields Presence Map		C	Bitmap Variable Length (1)	Conditionally required if No Legs > 0 where each repeating group represents a leg in the multi-leg instrument.
	0	Leg Security ID	Y	UInt64	Security ID of the leg. <i>For an Average strategy, only the Security ID of the first leg of the strategy is provided as the other months are consecutive.</i>
	1	Leg Side	Y	UInt8	The side of this individual leg. Valid values: 1 = Buy 2 = Sell
	2	Leg Ratio	Y	UInt32	With 3 implied decimals. <i>For a delta hedge custom strategy, this is the delta used to determine the covering quantity.</i>



BP	Field Name		Req	Data Type	Description
					For all other strategies and also for an options leg in a delta hedge custom strategy this is the ratio of quantity for this individual leg relative to the entire multi-leg instrument. For example, for a custom strategy such as a Butterfly the leg ratio would be 1:2:1 (1.000:2.000:1.000), for the first leg Leg Ratio = 1.000 (buy near contract month), second leg Leg Ratio = 2.000 (sell two contracts in far month) and third leg Leg Ratio = 1.000 (buy one contract in yet farther month). For a Carry Average the front leg must include a ratio for the number of average legs. For example, 3M-3Q (Jul/Aug/Sep) Carry Average, 3M leg Leg Ratio = 3.000, legs 2/3/4 would have Leg Ratio = 1.000.
	3	Leg Price	C	Int64	Used to specify an anchor price for a leg. Not used for execution price. Conditionally required for the futures legs of Security Sub Type = '9' Custom (Delta Hedge) to specify the underlying futures price.

4.10.2 Security Definition (11)

Security Definition will be returned to the originator of the Security Definition Request (10) to accept, accept with revisions or reject the creation of a tradable instrument. Market participants will be notified of a newly created instrument by the Market Data service.

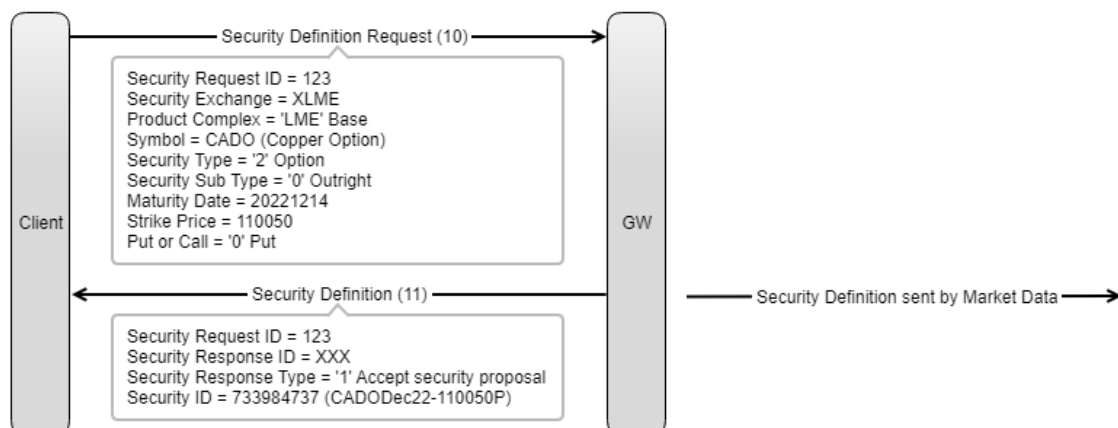
BP	Field Name	Req	Data Type	Description
0	Security Request ID	Y	String (19)	Client specified unique identifier of the Security Definition Request.
1	Security Response ID	Y	String (21)	Unique ID assigned to Security Definition message.
2	Security Response Type	Y	UInt8	Type of Security Definition message response. Valid values:

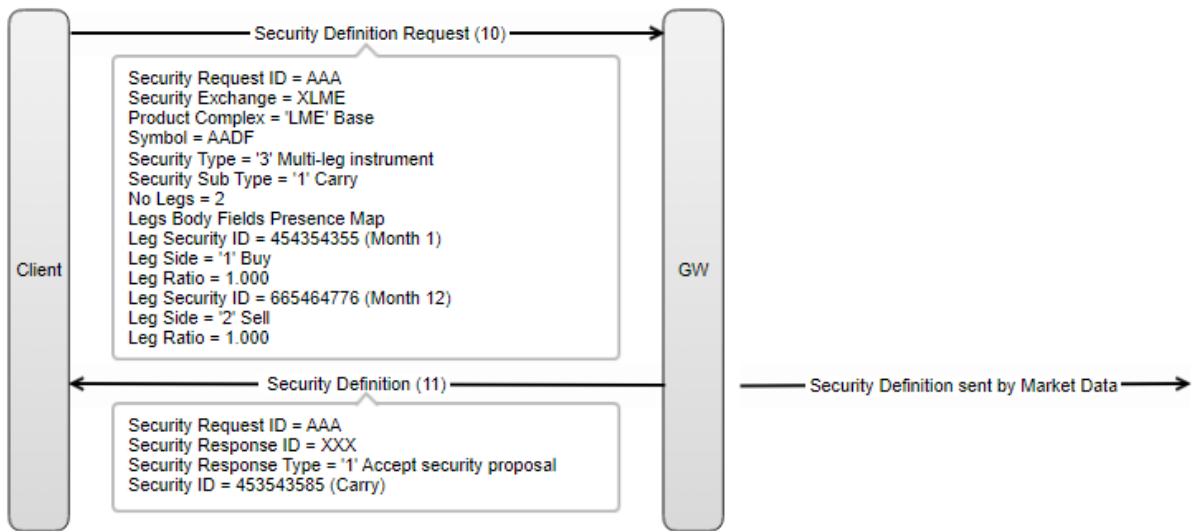
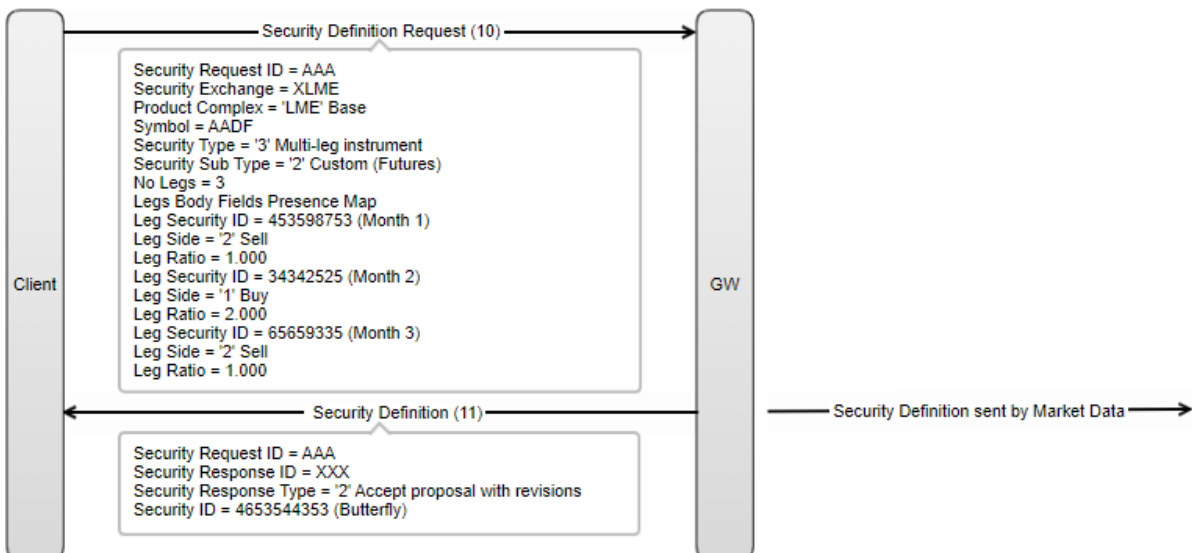


BP	Field Name	Req	Data Type	Description
				1 = Accept security proposal 2 = Accept security proposal with revisions as indicated in the message 5 = Reject security proposal
3	Security Reject Reason	C	UInt8	Identifies the reason a security definition request is being rejected. Valid values: 99 = Other 101 = Throttle limit exceeded 102 = Invalid strike price 103 = LegSecurityID (602) does not exist 104 = Invalid prompt date 105 = Invalid SecuritySubType.(762) Conditionally required if Security Response Type = '5' Reject security proposal.
4	Security ID	C	UInt64	Tradable Instrument identifier. Conditionally required if Security Response Type = '1' Accept security proposal or '2' Accept security proposal with revisions as indicated in the message.
5	Reason Text	C	String (76)	Text specifying the reason for the rejection. Conditionally required if Security Reject Reason = '99' Other.

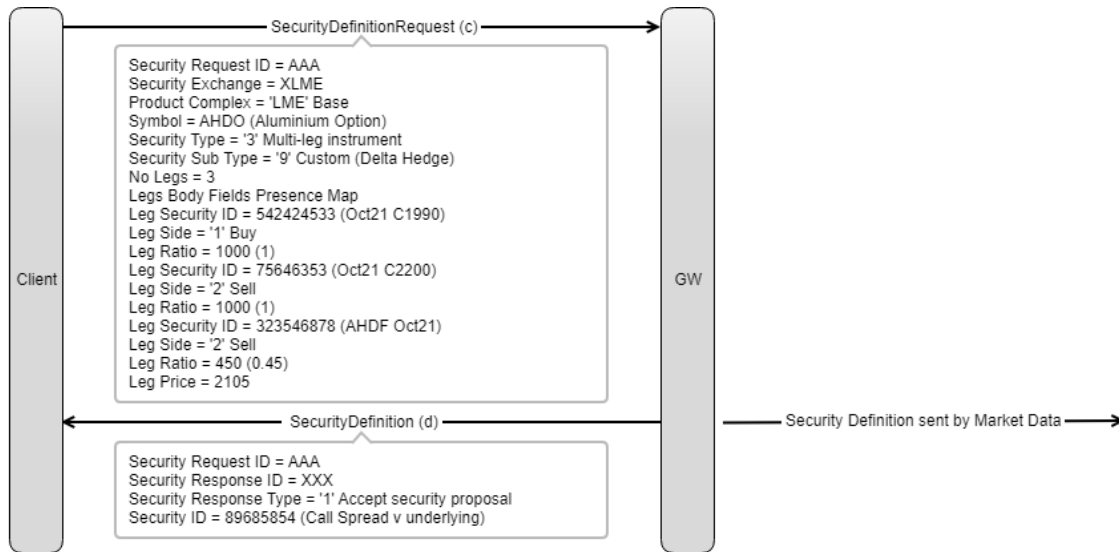
Example Message Flows

Option Strike Request



Futures Strategy Request*Inverse Custom Strategy Request*

Delta Hedge Strategy Request – Call Spread versus underlying



4.10.3 New Order Single (12)

New Order Single is used to submit a new order for execution. An Execution Report (8), Reject (3) or Business Message Reject (7) is sent in response.

BP	Field Name	Req	Data Type	Description
0	Client Order ID	Y	String (19)	Client specified identifier of the order.
4	Security ID	Y	UInt64	Tradable Instrument identifier.
5	Transact Time	Y	UInt64	Time when the message was generated.
6	Side	Y	UInt8	Side of the order. Valid values: 1 = Buy 2 = Sell
7	Order Quantity	Y	Int32	Total quantity of the order.
8	Order Type	Y	UInt8	Order type applicable to the order. Valid values: 2 = Limit 3 = Stop Market 4 = Stop Limit 10 = Market 11 = Iceberg 12 = Post Only 13 = One Cancels Other Market



BP	Field Name	Req	Data Type	Description
				<i>14 = One Cancels Other Limit</i>
9	Order Price	Y	Int64	Price of the order. <i>Must be null value if:</i> <i>Order Type = '3' Stop Market</i> <i>Order Type = '10' Market.</i>
10	Time in Force	Y	UInt8	Specifies how long the order remains in effect. Valid values: 0 = Day 1 = Good Till Cancel (GTC) 3 = Immediate Or Cancel (IOC) <i>4 = Fill Or Kill (FOK)</i> 6 = Good Till Date (GTD)
11	Order Restrictions	Y	Char	Restrictions associated with an order. Valid values: D = Non-algorithmic (human) E = Algorithmic (algo)
12	Order Capacity	Y	Char	Indicates the trading capacity. Valid values: A (agency) = AOTC P (principal) = DEAL R (riskless principal) = MTCH
13	Account Type	Y	UInt8	Specifies the type of account associated with the order. Valid values: 1 = Client ISA 3 = House 8 = Joint back office account (JBO) = Gross OSA 101 = Client OSA For contracts assigned to the T4 booking model only 3 = House is valid whereas for the T2 booking model all account types are valid.

BP	Field Name	Req	Data Type	Description
15	Client ID Short Code	C	UInt64	Client short code identifier. If there is no client this can be populated with the value '0' = No Client for Account Type = 3. Not valid if populated with either 1, 2 or 3. Conditionally required for client orders *Mandatory where Order Capacity is populated with A (agency) = AOTC or R (riskless principal) = MTCH
16	Legal Entity ID	N	String (41)	LEI.
17	Proprietary Client ID	C	String (41)	Proprietary or Custom Client ID as assigned by the member. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
18	Entering Firm	N	String (4)	Identifier of the entering firm, a member mnemonic.
19	Origination Trader	Y	String (41)	Order origination trader.
20	Customer Account	C	String (31)	Identification of the client account code where the Account Type = 1, 8 or 101.
21	Correspondent Broker	N	String (4)	A 3 character broker code (Member mnemonic).
23	Market Maker	N	Char	This should be set to Y if the trader qualifies for a Market Maker initiative.
24	Decision Maker	C	UInt64	Decision maker short code, used under the power of representation clause where the investment decision maker may be a third party in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/590 . Conditionally required for client orders i.e. Account Type = 1, 8 or 101.

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
25	Investment Decision within Firm (IDM)	C	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the investment decision. Mandatory where Order Capacity is populated with P (principal) = DEAL, in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/580
26	Execution within Firm (EDM)	Y	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the execution. Short code 3 (NORE) used where the decision on execution venue was made by a client or a person outside of the executing firm. Where OrderOrigination is populated with 5, the short code should always be 3 (NORE).
27	Investment Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the investment decision. *Mandatory where Investment Decision Within Firm (IDM) is populated with a short code representing an individual
28	Execution Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the execution decision. *Mandatory where Execution within Firm (EDM) is populated with a short code representing an individual.
29	Client Branch Country	C	String (3)	ISO country code to identify the branch that received the client order or made an investment decision for a client. Mandatory where Account Type = 1, 8 or 101.

* Validated at point of reporting



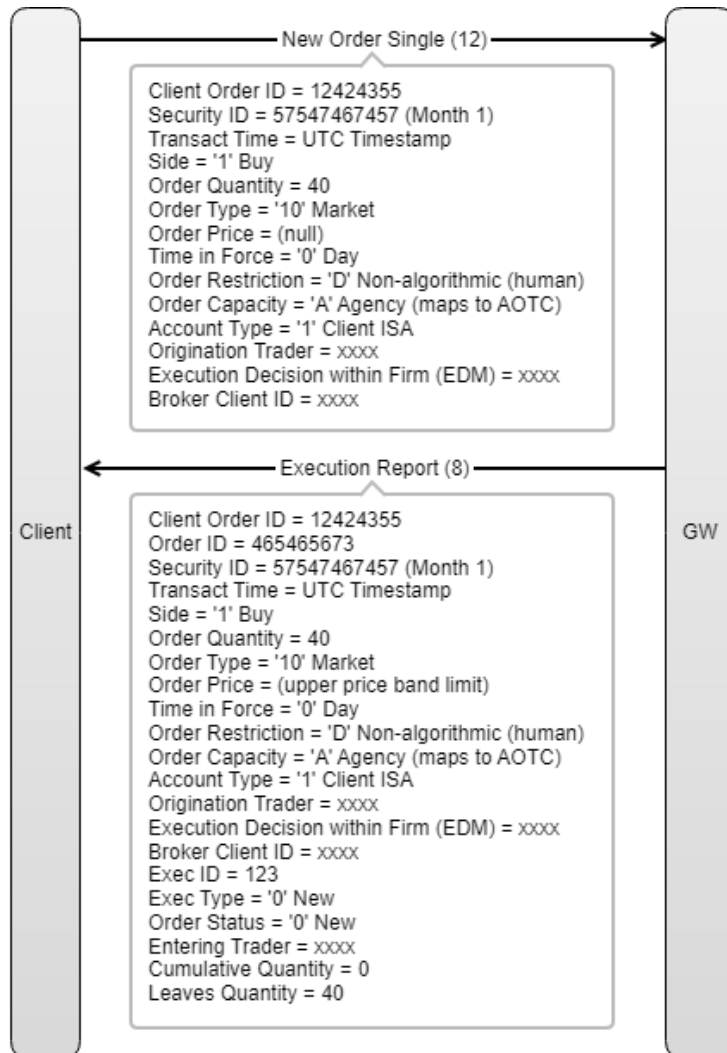
BP	Field Name	Req	Data Type	Description
30	Broker Client ID	Y	String (17)	Identifier of the entity in a risk group.
31	Text	N	String (51)	Free text
32	Self Match Prevention ID	N	UInt32	Identifies an order that should not be matched to an opposite order if both buy and sell orders for the trade contain the same Self Match Prevention ID <u>and Client ID Short Code</u> -and are submitted by the same member. <u>Note that '0' entered in the Client ID Short Code will be interpreted the same as a null value</u>
33	<i>Display Quantity</i>	C	UInt32	<i>Visible quantity of an Iceberg order. Conditionally required if Order Type = '11' Iceberg. If present, must be < Order Quantity.</i>
34	Expiry Date	C	UInt32	The expiry date of an order. Conditionally required if Time In Force = '6' Good 'til Date. Format is YYYYMMDD.
35	Trigger Price	C	Int64	Trigger price for stop orders. Conditionally required if: <i>Order Type = '3' Stop Market Order Type = '4' Stop Limit Order Type = '13' OCO Market Order Type = '14' OCO Limit</i>
36	Trigger Price Type	C	UInt8	Type of price event that triggers the stop order: Valid values: 2 = Last Trade 4 = Best Bid or Last Trade 5 = Best Offer or Last Trade Conditionally required if: <i>Order Type = '3' Stop Market Order Type = '4' Stop Limit</i>

BP	Field Name	Req	Data Type	Description
				<i>Order Type = '13' OCO Market</i> <i>Order Type = '14' OCO Limit</i>
37	Trigger Type	C	UInt8	Trigger prompt for stop order elements. Conditionally required if: <i>Order Type = '3' Stop Market</i> <i>Order Type = '4' Stop Limit</i> <i>Order Type = '13' OCO Market</i> <i>Order Type = '14' OCO Limit</i> Valid value: 4 = Price Movement
38	Trigger New Price	C	Int64	<i>Limit order price of the stop once triggered.</i> <i>Conditionally required if Order Type = '14' OCO Limit.</i>
40	Cancel on Disconnect	N	Char	Specifies whether the order should be cancelled on system disconnection: Valid values: Y = Yes N = No (default)
41	Direct Electronic Access	N	Char	Signifies order received from a direct access or sponsored access customer. Valid value: Y = Yes Absence of this field infers No (default)
42	Aggregated Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580 Article 2(3), it signifies that the order consists of several orders aggregated together. This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580 value "AGGR". Valid value: Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Pending Allocation Order has been populated.

BP	Field Name	Req	Data Type	Description
43	Pending Allocation Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580 Article 2(2), it signifies that the order submitter "is authorized under the legislation of a Member State to allocate an order to its client following submission of the order to the trading venue and has not yet allocated the order to its client at the time of the submission of the order". This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580 value "PNAL". Valid value: Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Aggregated Order has been populated.
44	Liquidity Provision Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580 Article 3, it signifies that the order was submitted "as part of a market making strategy pursuant to Articles 17 and 18 of the UK version of Directive 2014/65/EU or is submitted as part of another activity in accordance with Article 3" (of the UK version of Commission Delegated Regulation (EU) No 2017/580). Valid value: Y = Yes Absence of this field infers No (default).
45	Risk Reduction Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/590 Article 4(2)(i), it signifies that the commodity derivative order is a transaction "to reduce risk in an objectively measurable way in accordance with Article 57 of the UK version of Directive 2014/65/EU". Valid value: Y = Yes Absence of this field infers No (default).

Example Message Flow

Market order



4.10.4 New Order Cross (27)

New Order Cross is used to submit a new cross order for execution. An Execution Report (8), Reject (3) or Business Message Reject (7) is sent in response.

A Request for Cross message is disseminated via the Market Data service to market participants.

BP	Field Name	Req	Data Type	Description
0	Cross ID	Y	String (19)	Client specified identifier of the order.
1	Cross Type	Y	UInt8	Type of cross being submitted to a market Valid values: 101 = Guaranteed

BP	Field Name	Req	Data Type	Description
				102 = Non-Guaranteed
2	Cross Prioritization	Y	UInt8	Indicates if one side or the other of a cross order should be prioritized Valid values: 1 = Buy side is prioritized 2 = Sell side is prioritized
4	Security ID	Y	UInt64	Tradable Instrument identifier.
5	Transact Time	Y	UInt64	Time when the message was generated.
7	Order Quantity	Y	Int32	Total quantity of the order.
9	Order Price	Y	Int64	Price of the order.
11	Cancel on Disconnect	N	Char	Specifies whether the order should be cancelled on system disconnection: Valid values: Y = Yes N = No Default N = No
12	Buy Side Client Order ID	Y	String (19)	Client specified identifier of the order.
13	Buy Side Client ID Short Code	C	UInt64	Client short code identifier. If there is no client this can be populated with the value '0' = No Client for Account Type = 3. Not valid if populated with either 1, 2 or 3. Conditionally required for client orders. Absence of this field indicates No Client. *Mandatory where Order Capacity is populated with A (agency) = AOTC or R (riskless principal) = MTCH.
14	Buy Side Legal Entity ID	N	String (41)	LEI.

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
15	Buy Side Proprietary Client ID	C	String (41)	Proprietary or Custom Client ID as assigned by the member. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
16	Buy Side Entering Firm	N	String (4)	Identifier of the entering firm, a member mnemonic.
17	Buy Side Origination Trader	Y	String (41)	Order origination trader.
18	Buy Side Customer Account	C	String (31)	Identification of the client account code where the Account Type = 1, 8 or 101.
19	Buy Side Correspondent Broker	N	String (4)	A 3 character broker code (Member mnemonic).
21	Buy Side Market Maker	N	Char	This should be set to Y if the trader qualifies for a Market Maker initiative.
22	Buy Side Decision Maker	C	UInt64	Decision maker short code, used under the power of representation clause where the investment decision maker may be a third party in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/590. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
23	Buy Side Investment Decision within Firm (IDM)	C	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the investment decision. Mandatory where Order Capacity is populated with P (principal) = DEAL, in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/580
24	Buy Side Execution within Firm (EDM)	Y	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the execution. Short code 3 (NORE) used where the decision on execution venue was made by a

BP	Field Name	Req	Data Type	Description
				client or a person outside of the executing firm. Where OrderOrigination is populated with 5, the short code should always be 3 (NORE).
25	Buy Side Investment Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the investment decision. *Mandatory where Investment Decision Within Firm (IDM) is populated with a short code representing an individual
26	Buy Side Execution Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the execution decision. *Mandatory where Execution within Firm (EDM) is populated with a short code representing an individual.
27	Buy Side Client Branch Country	C	String (3)	ISO country code to identify the branch that received the client order or made an investment decision for a client. Mandatory where Account Type = 1, 8 or 101.
28	Buy Side Broker Client ID	Y	String (17)	Identifier of the entity in a risk group.
29	Buy Side Account Type	Y	UInt8	Specifies the type of account associated with the order. Valid values: 1 = Client ISA 3 = House 8 = Joint back office account (JBO) = Gross OSA 101 = Client OSA. Must be the same as the original order.

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
30	Buy Side Order Capacity	Y	Char	Indicates the trading capacity. Valid values: A (agency) = AOTC P (principal) = DEAL R (riskless principal) = MTCH
31	Buy Side Order Restrictions	Y	Char	Restrictions associated with an order. Valid values: D = Non-algorithmic (human) E = Algorithmic (algo)
35	Buy Side Aggregated Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580Article 2(3), it signifies that the order consists of several orders aggregated together. This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580value "AGGR". Valid value: Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Pending Allocation Order has been populated.
36	Buy Side Pending Allocation Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580Article 2(2), it signifies that the order submitter "is authorized under the legislation of a Member State to allocate an order to its client following submission of the order to the trading venue and has not yet allocated the order to its client at the time of the submission of the order". This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580 value "PNAL". Valid value: Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Aggregated Order has been populated.



BP	Field Name	Req	Data Type	Description
37	Buy Side Liquidity Provision Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580 Article 3, it signifies that the order was submitted "as part of a market making strategy pursuant to Articles 17 and 18 of the UK version of Directive 2014/65/EU or is submitted as part of another activity in accordance with Article 3" (of the UK version of Commission Delegated Regulation (EU) No 2017/580). Valid value: Y = Yes Absence of this field infers No (default).
38	Buy Side Risk Reduction Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/590 Article 4(2)(i), it signifies that the commodity derivative order is a transaction "to reduce risk in an objectively measurable way in accordance with Article 57 of the UK version of Directive 2014/65/EU". Valid value: Y = Yes Absence of this field infers No (default).
40	Sell Side Client Order ID	Y	String (19)	Client specified identifier of the order.
41	Sell Side Client ID Short Code	C	UInt64	Client short code identifier. If there is no client this can be populated with the value '0' = No Client for Account Type = 3. Not valid if populated with either 1, 2 or 3. Conditionally required for client orders. Absence of this field indicates No Client. *Mandatory where Order Capacity is populated with A (agency) = AOTC or R (riskless principal) = MTCH.

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
42	Sell Side Legal Entity ID	N	String (41)	LEI.
43	Sell Side Proprietary Client ID	C	String (41)	Proprietary or Custom Client ID as assigned by the member. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
44	Sell Side Entering Firm	N	String (4)	Identifier of the entering firm, a member mnemonic.
45	Sell Side Origination Trader	Y	String (41)	Order origination trader.
46	Sell Side Customer Account	C	String (31)	Identification of the client account code where the Account Type = 1, 8 or 101.
47	Sell Side Correspondent Broker	N	String (4)	A 3 character broker code (Member mnemonic).
49	Sell Side Market Maker	N	Char	This should be set to Y if the trader qualifies for a Market Maker initiative.
50	Sell Side Decision Maker	C	UInt64	Decision maker short code, used under the power of representation clause where the investment decision maker may be a third party in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/590 . Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
51	Sell Side Investment Decision within Firm (IDM)	C	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the investment decision. Mandatory where Order Capacity is populated with P (principal) = DEAL, in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/580

BP	Field Name	Req	Data Type	Description
52	Sell Side Execution within Firm (EDM)	Y	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the execution. Short code 3 (NORE) used where the decision on execution venue was made by a client or a person outside of the executing firm. Where OrderOrigination is populated with 5, the short code should always be 3 (NORE).
53	Sell Side Investment Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the investment decision. *Mandatory where Investment Decision Within Firm (IDM) is populated with a short code representing an individual
54	Sell Side Execution Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the execution decision. *Mandatory where Execution within Firm (EDM) is populated with a short code representing an individual.
55	Sell Side Client Branch Country	C	String (3)	ISO country code to identify the branch that received the client order or made an investment decision for a client. Mandatory where Account Type = 1, 8 or 101.
56	Sell Side Broker Client ID	Y	String (17)	Identifier of the entity in a risk group.
57	Sell Side Account Type	Y	UInt8	Specifies the type of account associated with the order. Valid values: 1 = Client ISA 3 = House

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
				8 = Joint back office account (JBO) = Gross OSA 101 = Client OSA. Must be the same as the original order.
58	Sell Side Order Capacity	Y	Char	Indicates the trading capacity. Valid values: A (agency) = AOTC P (principal) = DEAL R (riskless principal) = MTCH
59	Sell Side Order Restrictions	Y	Char	Restrictions associated with an order. Valid values: D = Non-algorithmic (human) E = Algorithmic (algo)
63	Sell Side Aggregated Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580Article 2(3), it signifies that the order consists of several orders aggregated together. This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580value "AGGR". Valid value: Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Pending Allocation Order has been populated.
64	Sell Side Pending Allocation Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580Article 2(2), it signifies that the order submitter "is authorized under the legislation of a Member State to allocate an order to its client following submission of the order to the trading venue and has not yet allocated the order to its client at the time of the submission of the order". This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580value "PNAL". Valid value:

BP	Field Name	Req	Data Type	Description
				Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Aggregated Order has been populated.
65	Sell Side Liquidity Provision Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580 Article 3, it signifies that the order was submitted "as part of a market making strategy pursuant to Articles 17 and 18 of the UK version of Directive 2014/65/EU or is submitted as part of another activity in accordance with Article 3" (of the UK version of Commission Delegated Regulation (EU) No 2017/580). Valid value: Y = Yes Absence of this field infers No (default).
66	Sell Side Risk Reduction Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/590 Article 4(2)(i), it signifies that the commodity derivative order is a transaction "to reduce risk in an objectively measurable way in accordance with Article 57 of the UK version of Directive 2014/65/EU". Valid value: Y = Yes Absence of this field infers No (default).
68	Text	N	String (51)	Free text

4.10.5 Amend Order (13)

Amend Order is used to change the parameters of an existing order. If successful an Execution Report (8) is returned to confirm replacement of the order otherwise an Order Amend Rejected (14) is returned if the request is rejected and the order remains unchanged.

BP	Field Name	Req	Data Type	Description
0	Client Order ID	Y	String (19)	Client specified identifier of the order.



BP	Field Name	Req	Data Type	Description
2	Order ID	N	UInt64	Unique order identifier assigned by the trading system.
3	Original Client Order ID	Y	String (19)	Original order identified as the order to be amended.
4	Security ID	Y	UInt64	Tradable Instrument identifier. Must be the same as the original order.
5	Transact Time	Y	UInt64	Time when the message was generated.
6	Side	Y	UInt8	Side of the order. Valid values: 1 = Buy 2 = Sell Must be the same as the original order.
7	Order Quantity	Y	Int32	Total quantity of the order.
8	Order Type	Y	UInt8	Order type applicable to the order. Valid values: 2 = Limit 3 = <i>Stop Market</i> 4 = <i>Stop Limit</i> 10 = <i>Market</i> 11 = <i>Iceberg</i> 12 = <i>Post Only</i> 13 = <i>One Cancels Other Market</i> 14 = <i>One Cancels Other Limit</i> . Must be the same as the original order however a previously triggered <i>Stop Limit</i> or <i>Stop Market</i> order will be restated as a <i>Limit</i> order.
9	Order Price	Y	Int64	Price of the order. <i>Must be null value if:</i> <i>Order Type = '3' Stop Market</i> <i>Order Type = '10' Market.</i>
10	Time in Force	Y	UInt8	Specifies how long the order remains in effect.

BP	Field Name	Req	Data Type	Description
				Valid values: 0 = Day 1 = Good Till Cancel (GTC) 3 = Immediate Or Cancel (IOC) 4 = <i>Fill Or Kill (FOK)</i> 6 = Good Till Date (GTD). Must be the same as the original order.
11	Order Restrictions	Y	Char	Restrictions associated with an order. Valid values: D = Non-algorithmic (human) E = Algorithmic (algo)
12	Order Capacity	Y	Char	Indicates the trading capacity. Valid values: A (agency) = AOTC P (principal) = DEAL R (riskless principal) = MTCH
13	Account Type	Y	UInt8	Specifies the type of account associated with the order. Valid values: 1 = Client ISA 3 = House 8 = Joint back office account (JBO) = Gross OSA 101 = Client OSA. Must be the same as the original order.
15	Client ID Short Code	C	UInt64	Client short code identifier. If there is no client this can be populated with the value '0' = No Client for Account Type = 3 Not valid if populated with either 1, 2 or 3 Conditionally required for client orders *Mandatory where Order Capacity is populated with A (agency) = AOTC or R (riskless principal) = MTCH

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
				Present only if specified on the original order and must be the same as the original order.
16	Legal Entity ID	C	String (41)	LEI. Present only if specified on the original order and must be the same as the original order.
17	Proprietary Client ID	C	String (41)	Proprietary or Custom Client ID as assigned by the member. Conditionally required for client orders i.e. Account Type = 1, 8 or 101. Present only if specified on the original order and must be the same as the original order.
18	Entering Firm	C	String (4)	Identifier of the entering firm, a member mnemonic. Present only if specified on the original order and must be the same as the original order.
19	Origination Trader	Y	String (41)	Order origination trader. Must be the same as the original order.
20	Customer Account	C	String (31)	Identification of the client account code where the Account Type = 1, 8 or 101. Present only if specified on the original order and must be the same as the original order.
21	Correspondent Broker	C	String (4)	A 3 character broker code (Member mnemonic). Present only if specified on the original order and must be the same as the original order.
23	Market Maker	C	Char	This should be set to Y if the trader qualifies for a Market Maker initiative.

BP	Field Name	Req	Data Type	Description
				Present only if specified on the original order and must be the same as the original order.
24	Decision Maker	C	UInt64	Decision maker short code, used under the power of representation clause where the investment decision maker may be a third party in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/590. Conditionally required for client orders i.e. Account Type = 1, 8 or 101. Present only if specified on the original order and must be the same as the original order.
25	Investment Decision within Firm (IDM)	C	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the investment decision. Mandatory where OrderCapacity (528) is populated with P (principal) = DEAL, in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/590
26	Execution within Firm (EDM)	Y	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the execution. Short code 3 (NORE) used where the decision on execution venue was made by a client or a person outside of the executing firm. Where OrderOrigination is populated with 5, the short code should always be 3 (NORE).
27	Investment Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the investment decision.

BP	Field Name	Req	Data Type	Description
				*Mandatory where Investment Decision Within Firm (IDM) is populated with a short code representing an individual
28	Execution Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the execution decision. *Mandatory where Execution within Firm (EDM) is populated with a short code representing an individual.
29	Client Branch Country	C	String (3)	ISO country code to identify the branch that received the client order or made an investment decision for a client. Mandatory where Account Type = 1, 8 or 101.
30	Broker Client ID	Y	String (17)	Identifier of the entity in a risk group. Must be the same as the original order.
31	Text	N	String (51)	Free text
32	Self Match Prevention ID	C	UInt32	Identifies an order that should not be matched to an opposite order if both buy and sell orders for the trade contain the same Self Match Prevention ID and are submitted by the same member. Present only if specified on the original order and must be the same as the original order.
33	Display Quantity	C	UInt32	Visible quantity of an Iceberg order. Conditionally required if Order Type = '11' Iceberg. If present, must be < Order Quantity.
34	Expiry Date	C	UInt32	The expiry date of an order.

* Validated at point of reporting



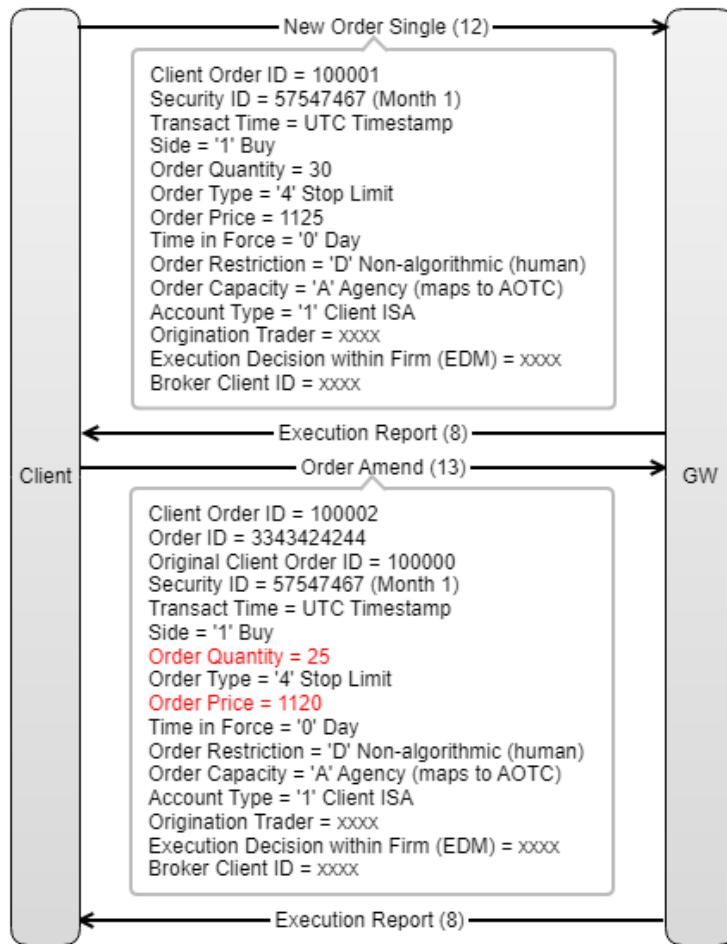
BP	Field Name	Req	Data Type	Description
				Conditionally required if Time In Force = '6' Good 'til Date. Format is YYYYMMDD.
35	Trigger Price	C	Int64	Trigger price for stop orders. Conditionally required if: <i>Order Type = '3' Stop Market</i> <i>Order Type = '4' Stop Limit</i> <i>Order Type = '13' OCO-Market</i> <i>Order Type = '14' OCO-Limit</i>
36	Trigger Price Type	C	UInt8	Type of price event that triggers the stop order: Valid values: 2 = Last Trade 4 = Best Bid or Last Trade 5 = Best Offer or Last Trade Conditionally required if: <i>Order Type = '3' Stop Market</i> <i>Order Type = '4' Stop Limit</i> <i>Order Type = '13' OCO-Market</i> <i>Order Type = '14' OCO-Limit.</i> Present only if specified on the original order and must be the same as the original order.
37	Trigger Type	C	UInt8	Trigger prompt for stop order elements. Valid value: 4 = Price Movement. Present only if specified on the original order and must be the same as the original order.
38	Trigger New Price	C	Int64	<i>Limit order price of the stop once triggered.</i> <i>Conditionally required if Order Type = '14' OCO-Limit.</i>
40	Cancel on Disconnect	N	Char	Specifies whether the order should be cancelled on system disconnection: Valid values:

BP	Field Name	Req	Data Type	Description
				Y = Yes N = No Absence of this field infers No (default)
41	Direct Electronic Access	N	Char	Signifies order received from a direct access or sponsored access customer. Valid value: Y = Yes Absence of this field infers No (default)
42	Aggregated Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580Article 2(3), it signifies that the order consists of several orders aggregated together. This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580value "AGGR". Valid value: Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Pending Allocation Order has been populated.
43	Pending Allocation Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580Article 2(2), it signifies that the order submitter "is authorized under the legislation of a Member State to allocate an order to its client following submission of the order to the trading venue and has not yet allocated the order to its client at the time of the submission of the order". This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580value "PNAL". Valid value: Y = Yes Absence of this field infers No (default). Not valid if Client ID Short Code or Aggregated Order has been populated.

BP	Field Name	Req	Data Type	Description
44	Liquidity Provision Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580 Article 3, it signifies that the order was submitted "as part of a market making strategy pursuant to Articles 17 and 18 of the UK version of Directive 2014/65/EU or is submitted as part of another activity in accordance with Article 3" (of the UK version of Commission Delegated Regulation (EU) No 2017/580). Valid value: Y = Yes Absence of this field infers No (default).
45	Risk Reduction Order	N	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/590 Article 4(2)(i), it signifies that the commodity derivative order is a transaction "to reduce risk in an objectively measurable way in accordance with Article 57 of the UK version of Directive 2014/65/EU". Valid value: Y = Yes Absence of this field infers No (default).

Example Message Flow

Amend Order



4.10.6 Order Amend Rejected (14)

Order Amend Rejected is returned when an Amend Order (13) request is rejected.

BP	Field Name	Req	Data Type	Description
0	Client Order ID	Y	String (19)	Client specified identifier of the order.
2	Order ID	N	UInt64	Unique order identifier assigned by the trading system.
3	Original Client Order ID	Y	String (19)	Original order identified as the order to be amended.
4	Transact Time	Y	UInt64	Time when the message was generated.
5	Order Status	Y	UInt8	Order status as at the time of rejection:

BP	Field Name	Req	Data Type	Description
				Valid values: 0 = New 1 = Partially Filled 2 = Filled 3 = Done for Day 4 = Cancelled 6 = Pending Cancel 8 = Rejected 10 = Pending New 12 = Expired 14 = Pending Replace
6	Amend Reject Code	N	UInt16	Code that identifies the reason for the rejection. Valid values: 0 = Too late to amend 1 = Unknown order 3 = Order already in Pending Cancel or Pending Replace Status 6 = Duplicate Client Order ID received 18 = Invalid price increment 99 = Other
7	Reason Text	C	String (76)	Text specifying the reason for the rejection. Conditionally required if Amend Reject Code = '99' Other
8	Related High Price	C	Int64	Upper price limit value
9	Related Low Price	C	Int64	Lower price limit value

4.10.7 Cancel Order (15)

Cancel Order is used to cancel the remaining quantity of an existing order. An Execution Report (8) is returned to confirm cancellation or an Order Cancel Rejected (16) if the cancel is rejected.

BP	Field Name	Req	Data Type	Description
0	Client Order ID	Y	String (19)	Unique identifier set by the entering firm.
2	Order ID	N	UInt64	Unique order identifier assigned by the trading system.



BP	Field Name	Req	Data Type	Description
3	Original Client Order ID	Y	String (19)	Original order identified as the order to be cancelled.
4	Security ID	Y	UInt64	Tradable Instrument identifier. Must be the same as the original order.
5	Transact Time	Y	UInt64	Time when the message was generated.
6	Side	Y	UInt8	Side of the order. Valid values: 1 = Buy 2 = Sell Must be the same as the original order.

4.10.8 Order Cancel Rejected (16)

Order Cancel Rejected is returned when a Cancel Order (15) request, a cancellation instruction for a quote side in a Mass Quote (22) is rejected or a Cancel Cross Order (28) is rejected.

BP	Field Name	Req	Data Type	Description
0	Client Order ID	Y	String (19)	Client specified identifier of the order.
1	<i>Secondary Client Order ID</i>	<i>N</i>	<i>UInt8</i>	<i>Quote Entry ID in a Mass Quote (22).</i>
2	Order ID	N	UInt64	Unique order identifier assigned by the trading system.
3	Original Client Order ID	Y	String (19)	Original order identified as the order to be cancelled. <i>Null for a Mass Quote.</i>
4	Transact Time	Y	UInt64	Time when the message was generated.
5	Order Status	Y	UInt8	Order status as at the time of rejection: Valid values: 0 = New 1 = Partially Filled 2 = Filled 3 = Done for Day 4 = Cancelled 6 = Pending Cancel



BP	Field Name	Req	Data Type	Description
				8 = Rejected 10 = Pending New 12 = Expired 14 = Pending Replace
6	Cancel Reject Code	Y	UInt16	Code that identifies the reason for the rejection. Valid values: 0 = Too late to amend 1 = Unknown order 3 = Order already in Pending Cancel or Pending Replace Status 6 = Duplicate Client Order ID received 99 = Other
7	Reason Text	C	String (76)	Text specifying the reason for the rejection. Conditionally required if Cancel Reject Code = '99' Other
8	<i>Side</i>	<i>N</i>	<i>UInt8</i>	<i>Optional qualifier to indicate the quote side in a Mass Quote (22).</i>

4.10.9 Cancel Cross Order (28)

Cancel Cross Order is used to cancel a cross order held in the RFC interval. An Execution Report (8) per side is returned to confirm cancellation or an Order Cancel Rejected (16) per side is returned if the cancel is rejected.

BP	Field Name	Req	Data Type	Description
0	Cross ID	Y	String (19)	Unique identifier set by the originator.
1	Host Cross ID	N	UInt64	A unique order identifier assigned by the trading system. This identifier is not changed by cancel messages; it will remain the same for all chain of cross orders.
2	Original Cross ID	Y	String (19)	Unique identifier of the original cross, set by the originator.
3	Transact Time	Y	UInt64	Timestamp when the message was generated.
4	Security ID	Y	UInt64	Tradable instrument identifier



BP	Field Name	Req	Data Type	Description
5	Cross Type	Y	UInt8	Type of cross being submitted to a market Valid values: 101 = Guaranteed 102 = Non-Guaranteed
6	Cross Prioritization	Y	UInt8	Indicates which side of the cross will be prioritized Valid values: 1 = Buy side is prioritized 2 = Sell side is prioritized
7	Buy Side Client Order ID	Y	String (19)	Unique identifier set by the order originator.
8	Sell Side Client Order ID	Y	String (19)	Unique identifier set by the order originator.

4.10.10 Execution Report (8)

Execution Report is used to:

- confirm the receipt of an order submitted using New Order Single or *Mass Quote*
- confirm changes to an existing order (i.e. accept cancel and replace requests)
- confirm or convey an order cancellation or expiration
- convey order or trade cancellation by Market Operations
- convey triggering of a stop order
- convey fill information
- reject orders
- *convey speed bump processing*
- convey information about restated persisted orders carried from one trading day to the next.
- convey cross order processing

Exec Type identifies the purpose of the execution report message and Order Status conveys the current state of the order.

The attributes that can be returned in an Execution Report for each execution type are listed in the [Execution Report Matrix](#).



BP	Field Name	Req	Data Type	Description
0	Client Order ID	Y	String (19)	The client specified identifier in the message that caused this Execution Report. <i>For quotes this is mapped to Quote ID in a Mass Quote (22)</i>
1	<i>Secondary Client Order ID</i>	<i>N</i>	<i>UInt8</i>	<i>Quote Entry ID in a Mass Quote (22). Conditionally required according to the Execution Report Matrix.</i>
2	Order ID	Y	UInt64	Unique order identifier assigned by the trading system.
3	Original Client Order ID	C	String (19)	Client Order ID of the previous order (NOT the initial order of the day) as assigned by the institution. Identifies the previous order in cancel and cancel/replace requests. Conditionally required according to the Execution Report Matrix. <i>Not applicable for an order from a Mass Quote (22).</i>
4	Security ID	Y	UInt64	Tradable Instrument identifier.
5	Transact Time	Y	UInt64	Time when the message was generated.
6	Side	Y	UInt8	Side of the order. Valid values: 1 = Buy 2 = Sell
7	Order Quantity	Y	Int32	Total quantity of the order.
8	Order Type	Y	UInt8	Order type applicable to the order. Valid values: 2 = Limit 3 = <i>Stop Market</i> 4 = Stop Limit 10 = <i>Market</i> 11 = <i>Iceberg</i> 12 = <i>Post Only</i> 13 = <i>One Cancels Other Market</i>



BP	Field Name	Req	Data Type	Description
				<i>14 = One Cancels Other Limit</i>
9	Order Price	Y	Int64	Price of the order.
10	Time in Force	Y	UInt8	Specifies how long the order remains in effect. Valid values: 0 = Day 1 = Good Till Cancel (GTC) 3 = Immediate Or Cancel (IOC) <i>4 = Fill Or Kill (FOK)</i> 6 = Good Till Date (GTD)
11	Order Restrictions	Y	Char	Restrictions associated with an order. Valid values: D = Non-algorithmic (human) E = Algorithmic (algo)
12	Order Capacity	Y	Char	Indicates the trading capacity. Valid values: A (agency) = AOTC P (principal) = DEAL R (riskless principal) = MTCH
13	Account Type	Y	UInt8	Specifies the type of account associated with the order. Valid values: 1 = Client ISA 3 = House 8 = Joint back office account (JBO) = Gross OSA 101 = Client OSA For contracts assigned to the T4 booking model only 3 = House is valid whereas for the T2 booking model all account types are valid.
14	Executing Firm	Y	String (4)	Identifier of the executing firm, a member mnemonic.
15	Client ID Short Code	C	UInt64	Client short code identifier. If there is no client this can be populated with the value '0' = No Client for Account Type = 3



BP	Field Name	Req	Data Type	Description
				Not valid if populated with either 1, 2 or 3 Conditionally required for client orders *Mandatory where Order Capacity is populated with A (agency) = AOTC or R (riskless principal) = MTCH Conditionally required according to the Execution Report Matrix.
16	Legal Entity ID	C	String (41)	LEI. Conditionally required according to the Execution Report Matrix.
17	Proprietary Client ID	C	String (41)	Proprietary or Custom Client ID as assigned by the member. Conditionally required for client orders i.e. Account Type = 1, 8 or 101. Conditionally required according to the Execution Report Matrix.
18	Entering Firm	C	String (4)	Identifier of the entering firm, a member mnemonic. Conditionally required according to the Execution Report Matrix.
19	Origination Trader	Y	String (41)	Order origination trader.
20	Customer Account	C	String (31)	Identification of the client account code where the Account Type = 1, 8 or 101. Conditionally required according to the Execution Report Matrix.
21	Correspondent Broker	C	String (4)	A 3 character broker code (Member mnemonic). Conditionally required according to the Execution Report Matrix.

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
23	Market Maker	C	Char	This should be set to Y if the trader qualifies for a Market Maker initiative. Conditionally required according to the Execution Report Matrix.
24	Decision Maker	C	UInt64	Decision maker short code, used under the power of representation clause where the investment decision maker may be a third party in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/590. Conditionally required for client orders i.e. Account Type = 1, 8 or 101. Conditionally required according to the Execution Report Matrix.
25	Investment Decision within Firm (IDM)	C	UInt64	Short code to identify the individual or algorithm within the investment firm who is responsible for the investment decision. Mandatory where Order Capacity is populated with P (principal) = DEAL, in accordance with the UK version of Commission Delegated Regulation (EU) No 2017/580 Conditionally required according to the Execution Report Matrix.
26	Execution within Firm (EDM)	Y	UInt64	Short code to identify the execution or algorithm within the investment firm who is responsible for the execution. Short code 3 (NORE) used where the decision on execution venue was made by a client or a person outside of the executing firm. Where Direct Electronic Access is populated with Y, the short code should always be 3 (NORE).
27	Investment Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the investment decision.

BP	Field Name	Req	Data Type	Description
				*Mandatory where Investment Decision Within Firm (IDM) is populated with a short code representing an individual Conditionally required according to the Execution Report Matrix.
28	Execution Decision Country	C	String (3)	ISO country code of the branch responsible for the person making the execution decision. Mandatory where Execution within Firm (EDM) is populated with a short code representing an individual. Conditionally required according to the Execution Report Matrix.
29	Client Branch Country	C	String (3)	ISO country code to identify the branch that received the client order or made an investment decision for a client. *Mandatory where Account Type = 1, 8 or 101. Conditionally required according to the Execution Report Matrix.
30	Broker Client ID	Y	String (17)	Identifier of the entity in a risk group.
31	Text	C	String (51)	Free text. Conditionally required according to the Execution Report Matrix. <i>Not applicable for an order from a Mass Quote (22)</i>
32	Self Match Prevention ID	N	UInt32	Identifies an order that should not be matched to an opposite order if both buy and sell orders for the trade contain the same Self Match Prevention ID <u>and Client ID Short Code</u> and are submitted by the same member.

* Validated at point of reporting



BP	Field Name	Req	Data Type	Description
				Conditionally required according to the Execution Report Matrix.
33	Display Quantity	C	UInt32	Visible quantity of an Iceberg order. Conditionally required if Order Type = '11' Iceberg. If present, must be < Order Quantity. Not applicable for an order from a Mass Quote (22)
34	Expiry Date	C	UInt32	The expiry date of an order. Conditionally required if Time In Force = '6' Good 'til Date. Format is YYYYMMDD. Not applicable for an order from a Mass Quote (22)
35	Trigger Price	C	Int64	Trigger price for stop orders. Conditionally required if: Order Type = '3' Stop Market Order Type = '4' Stop Limit Order Type = '13' OCO Market Order Type = '14' OCO Limit Not applicable for an order from a Mass Quote (22).
36	Trigger Price Type	C	UInt8	Type of price event that triggers the stop order: Valid values: 2 = Last Trade 4 = Best Bid or Last Trade 5 = Best Offer or Last Trade Conditionally required if: Order Type = '3' Stop Market Order Type = '4' Stop Limit Order Type = '13' OCO Market Order Type = '14' OCO Limit Not applicable for an order from a Mass Quote (22).

BP	Field Name	Req	Data Type	Description
37	Trigger Type	C	UInt8	Trigger prompt for stop order elements. Valid value: 4 = Price Movement <i>Not applicable for an order from a Mass Quote (22).</i>
38	Trigger New Price	C	Int64	<i>Limit order price of the stop once triggered.</i> <i>Conditionally required if Order Type = '14' OCO Limit.</i> <i>Not applicable for an order from a Mass Quote (22).</i>
40	Cancel on Disconnect	Y	Char	Specifies whether the order should be cancelled on system disconnection: Valid values: Y = Yes N = No Default N = No
41	Direct Electronic Access	Y	Char	Signifies order received from a direct access or sponsored access customer. Valid value: Y = Yes Default N = No
42	Aggregated Order	Y	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580 Article 2(3), it signifies that the order consists of several orders aggregated together. This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580 value "AGGR". Valid value: Y = Yes Default N = No. Not valid if Client ID Short Code or Pending Allocation Order has been populated.

BP	Field Name	Req	Data Type	Description
43	Pending Allocation Order	Y	Char	In the context the UK version of Commission Delegated Regulation (EU) No 2017/580Article 2(2), it signifies that the order submitter "is authorized under the legislation of a Member State to allocate an order to its client following submission of the order to the trading venue and has not yet allocated the order to its client at the time of the submission of the order". This maps to the UK version of Commission Delegated Regulation (EU) No 2017/580value "PNAL". Valid value: Y = Yes Default N = No. Not valid if Client ID Short Code or Aggregated Order has been populated.
44	Liquidity Provision Order	Y	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/580Article 3, it signifies that the order was submitted "as part of a market making strategy pursuant to Articles 17 and 18 of the UK version of Directive 2014/65/EU, or is submitted as part of another activity in accordance with Article 3" (of the UK version of Commission Delegated Regulation (EU) No 2017/580). Valid value: Y = Yes Default N = No <i>unless order is from a Mass Quote in which case the default is Y.</i>
45	Risk Reduction Order	Y	Char	In the context of the UK version of Commission Delegated Regulation (EU) No 2017/590Article 4(2)(i), it signifies that the commodity derivative order is a transaction "to reduce risk in an objectively measurable way in accordance with Article 57 of the UK version of Directive 2014/65/EU". Valid value: Y = Yes

BP	Field Name	Req	Data Type	Description
				Default N = No.
46	Quote Price Level	N	UInt8	Indicates the price level being quoted. Valid values are 1, 2 or 3 (i.e. up to 3 price levels).
51	Cross ID	C	String (19)	Identifier for the cross order, set by the trader. Unique per trader, per day. Conditionally Required for Cross Order
52	Host Cross ID	C	UInt64	Unique order identifier used by exchange to reference a cross. Conditionally required if Cross ID is populated
53	Original Cross ID	C	String (19)	Cross ID referencing the cross to be cancelled Conditionally required if Cross ID is populated
54	Cross Type	C	UInt8	Type of cross submitted to the market. Identifies whether it is a guaranteed or non guaranteed cross. Valid values: 101 = Guaranteed 102 = Non-Guaranteed Conditionally required if Cross ID is populated
55	Cross Prioritization	C	UInt8	Indicates which side of the cross order should be prioritised. Identifies the initiating side. Valid values: 1 = Buy side is prioritized 2 = Sell side is prioritized Conditionally required if Cross ID is populated
56	Venue Type	C	Char	Valid values:



BP	Field Name	Req	Data Type	Description
				O = Offbook B = Central limit order book (CLOB) Conditionally required if Cross ID is populated and ExecType = 'F' Trade.
65	Exec ID	Y	String (21)	Unique identifier assigned by the trading system to the execution message.
66	Exec Ref ID	C	String (21)	Reference identifier used with Trade Cancel execution type. Conditionally required if Exec Type = 'H' Trade Cancel. <i>Not applicable for an order from a Mass Quote (22)</i>
67	Exec Type	Y	Char	Describes the specific Execution Report. Valid values: 0 = New 3 = Done 4 = Cancelled 5 = Replaced 6 = Pending Cancel 8 = Rejected C = Expired D = Restated <i>E = Pending Replace</i> F = Trade H = Trade Cancel L = Triggered or Activated by the System
68	Order Status	Y	UInt8	Identifies current status of order. Valid values: 0 = New 1 = Partially Filled 2 = Filled 3 = Done for day 4 = Cancelled 6 = Pending Cancel 8 = Rejected 10 = Pending New 12 = Expired 14 = Pending Replace



BP	Field Name	Req	Data Type	Description
69	Entering Trader	Y	String (11)	Identifier of the trader entering the order.
70	Clearing Firm	C	String (4)	Identifier of the clearing firm, a member mnemonic. Conditionally required if Exec Type = 'F' Trade.
71	Trade ID	C	UInt64	Identifier assigned by the trading system which joins buy and sell half trades. Conditionally required if Exec Type = 'F' Trade.
72	Exec Restatement Reason	C	UInt16	The reason for restatement. Valid values: 1 = GT renewal / restatement 99 = Other. See Exec Type Reason for speed bump handling. Conditionally required if Exec Type = 'D' Restated. <i>Not applicable for an order from a Mass Quote (22)</i>
73	Exec Type Reason	C	UInt8	The initiating event for the Execution Report. Conditionally required to report: - unsolicited cancellation - order status in New Order Cross processing <i>order status in speed bump processing.</i> Valid values: 4 = Unsolicited order cancellation 101 = Order accepted but speed bump applied 102 = Order added after speed bump 103 = Order cancelled whilst in speed bump delay 104 = Original order is in speed bump enforced delay

BP	Field Name	Req	Data Type	Description
				105 = Order updated after speed bump delay 106 = Amend is in speed bump delay 107 = Order amended after speed bump delay 108 = Order rejected after speed bump delay 109 = Unsolicited cancel while in speed bump 120 = Order held in RFC interval
74	Order Category	C	UInt8	Defines the type of interest behind a trade (fill or partial fill). Valid value: 7 = Implied Order Conditionally required for a trade from an implied order when Exec Type = 'F' Trade.
75	Aggressor Indicator	C	Char	Indicates if a matching order is an aggressor or not in the trade. Y = Aggressor N = Passive Conditionally required if Exec Type = 'F' Trade. <i>Not applicable for an order from a Mass Quote (22)</i>
76	Order Reject Reason	N	UInt16	Code to identify reason for order rejection. Valid values: 6 = Duplicate Order 15 = Unknown Account(s) 18 = Invalid price increment 99 = Other. Conditionally required if Exec Type = '8' Rejected.
77	Reason Text	N	String (76)	Text specifying the reason for the rejection. Conditionally required if Exec Type Reason = '4' Unsolicited order cancellation or Order Reject Reason = '99' Other.

BP	Field Name		Req	Data Type	Description
78	Last Quantity		C	UInt32	The total volume of this trade. Conditionally required if Exec Type = 'F' Trade.
79	Last Price		C	Int64	The price of this trade. Conditionally required if Exec Type = 'F' Trade.
80	Cumulative Quantity		Y	UInt32	The quantity of the order that has been executed so far.
81	Leaves Quantity		Y	UInt32	The quantity open for further execution.
82	Related High Price		C	Int64	Upper price limit value For Stop orders, this will be the stop tolerance band.
83	Related Low Price		C	Int64	Lower price limit value
84	No Legs		C	UInt8	Number of Instrument Leg repeating group instances. Conditionally required if Exec Type = 'F' Trade on a multileg tradable instrument.
	Legs Body Fields Presence Map		C	Bitmap Variable Length (1)	Conditionally required if No Legs > 0 where each repeating group represents a leg in the multileg instrument.
	0	Leg Security ID	Y	UInt64	Multileg tradable instrument's individual Security ID.
	1	Leg Side	Y	UInt8	The side of this individual leg (multileg security). Valid values: 1 = Buy 2 = Sell
	2	Leg Alloc ID	Y	UInt64	Strategy leg trade identifier assigned by the trading system which is shared by half trades.
	3	Leg Last Price	Y	Int64	Execution price assigned to the leg of the multileg tradable instrument.



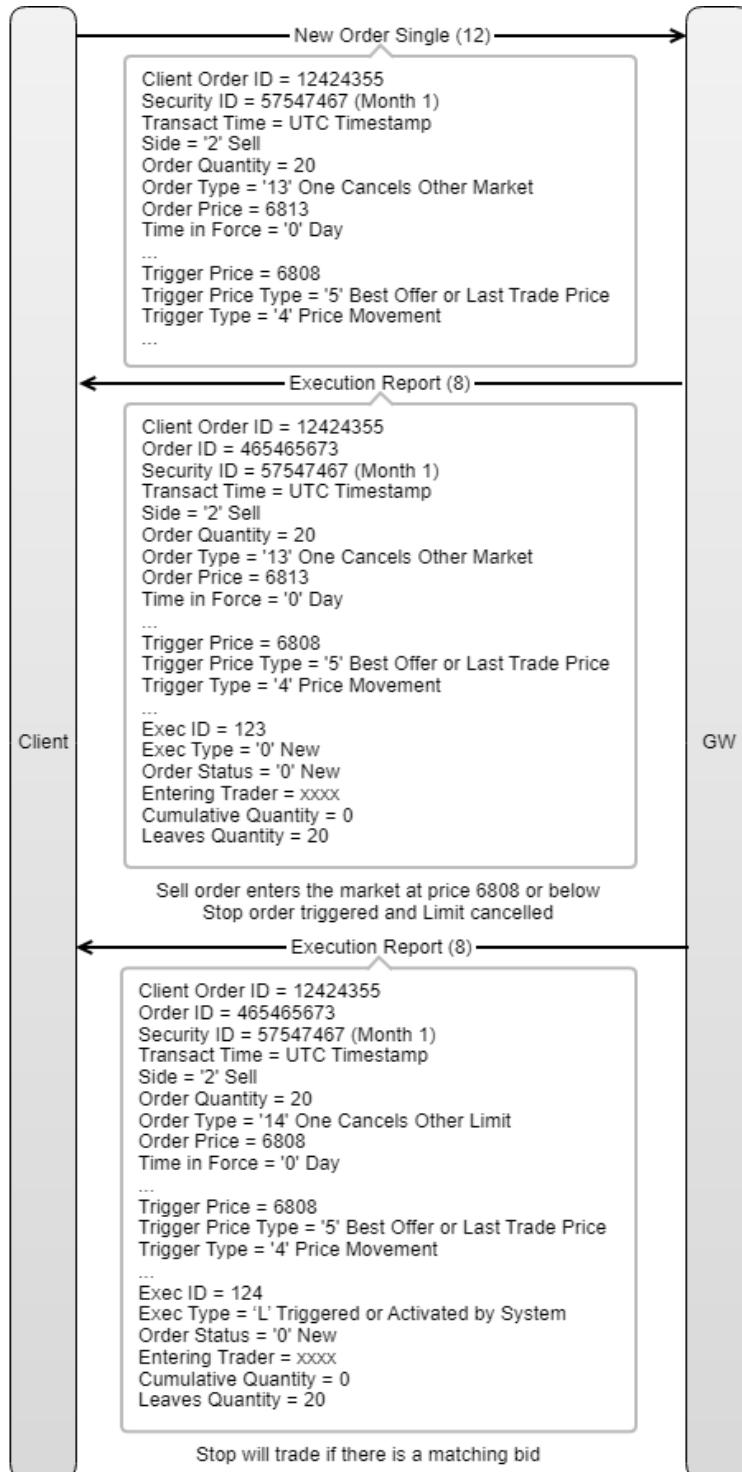
BP	Field Name		Req	Data Type	Description
	4	Leg Last Quantity	Y	UInt32	Fill quantity for the instrument leg.



Example Message Flows

OCO submitted, Stop triggered and Limit cancelled

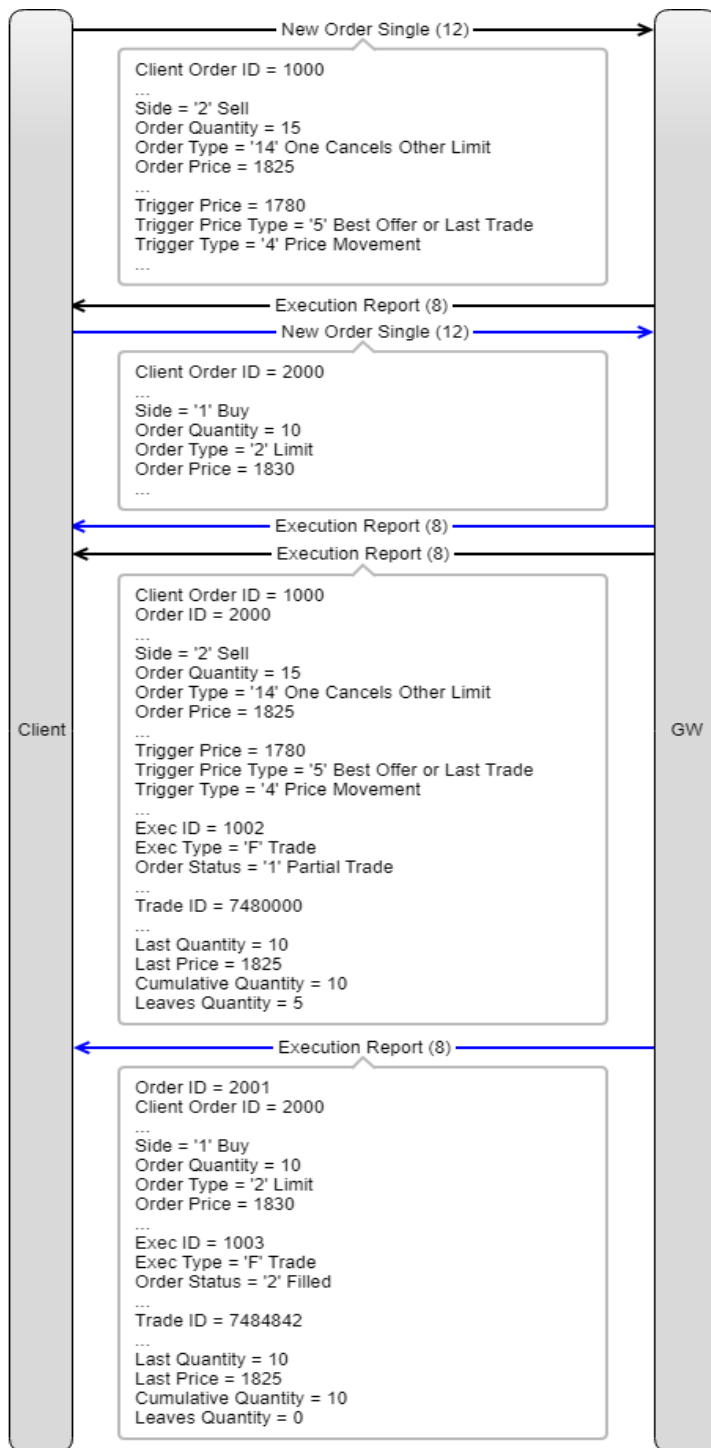
An OCO order is submitted as a Limit offer with a Stop Market trigger price of 6808, an incoming offer triggers the Stop order and cancels Limit element of the OCO. An Execution Report is not sent for cancellation. The triggered Stop Market is converted to a Limit order at a trigger new price of 6808.

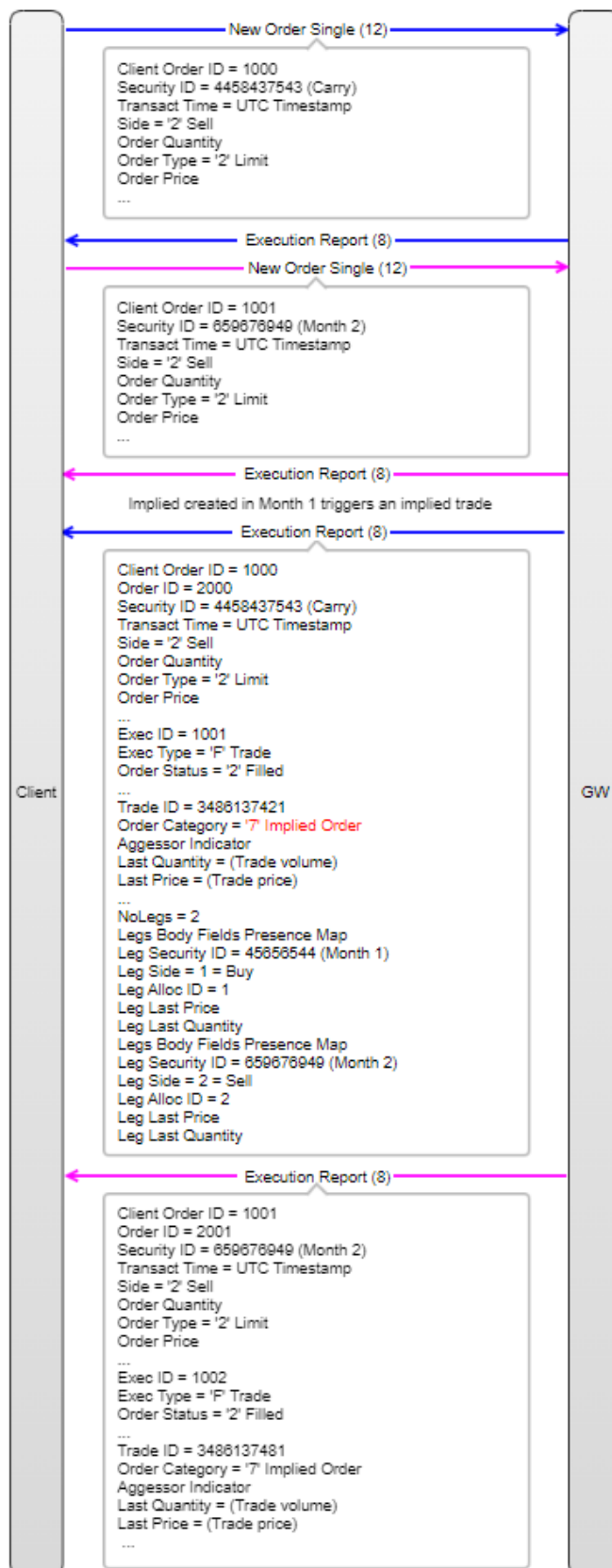


OCO Partial Trade

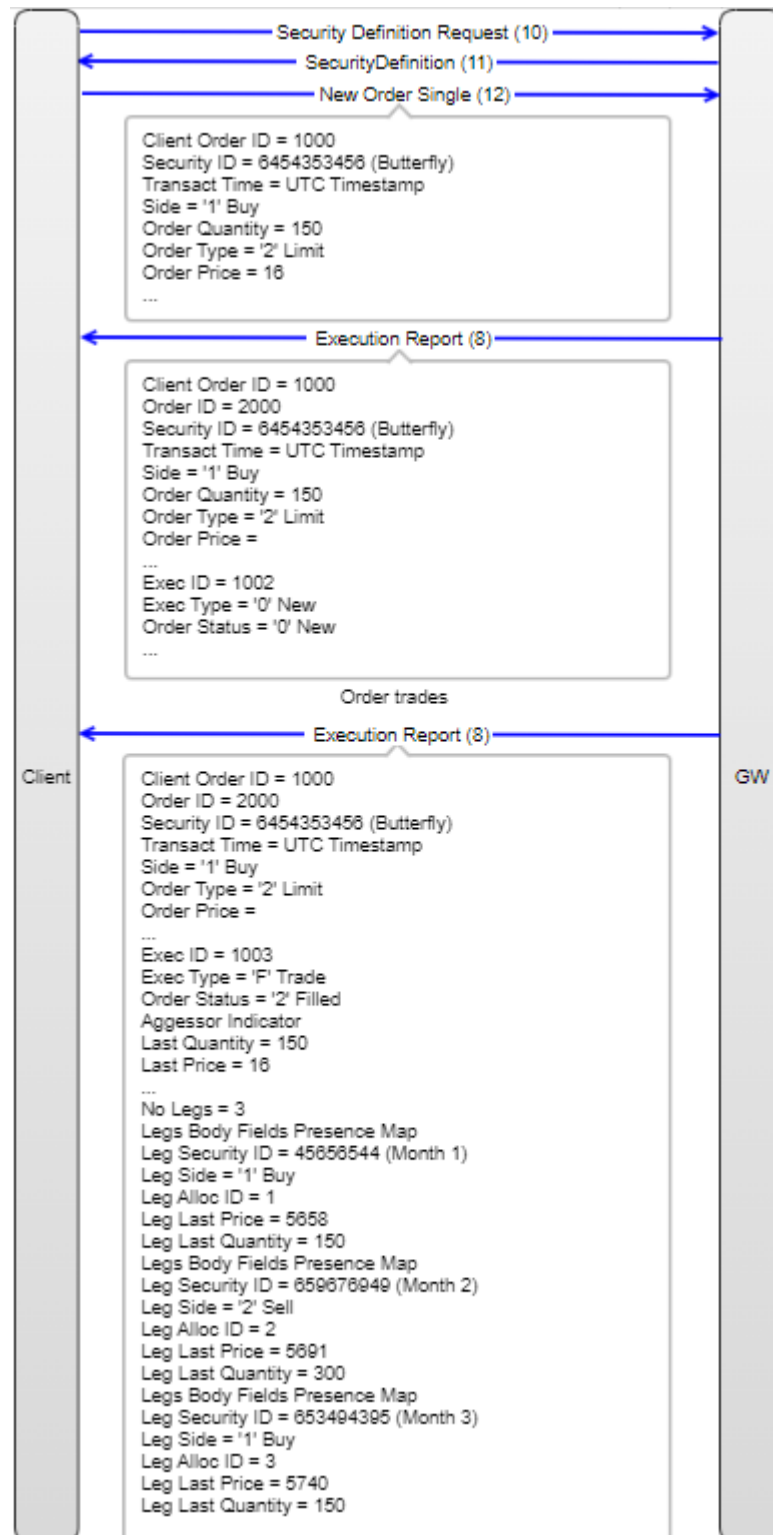
OCO is submitted as Limit offer for 15 lots at 1825 with a Stop Market trigger price of 1780.

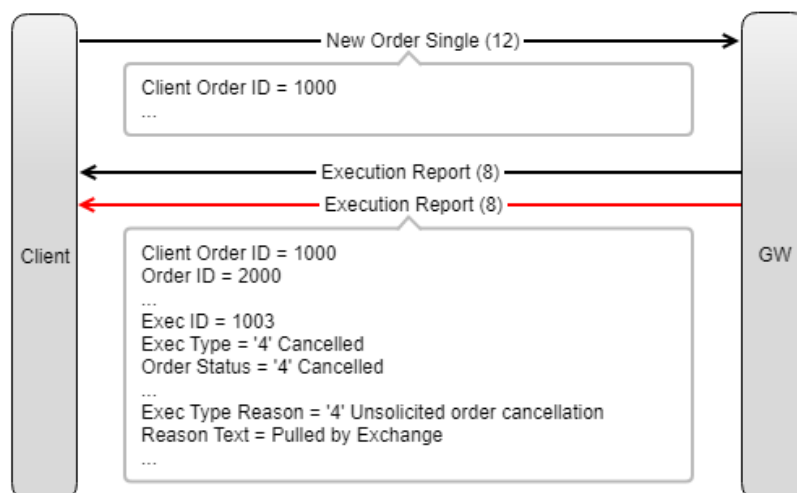
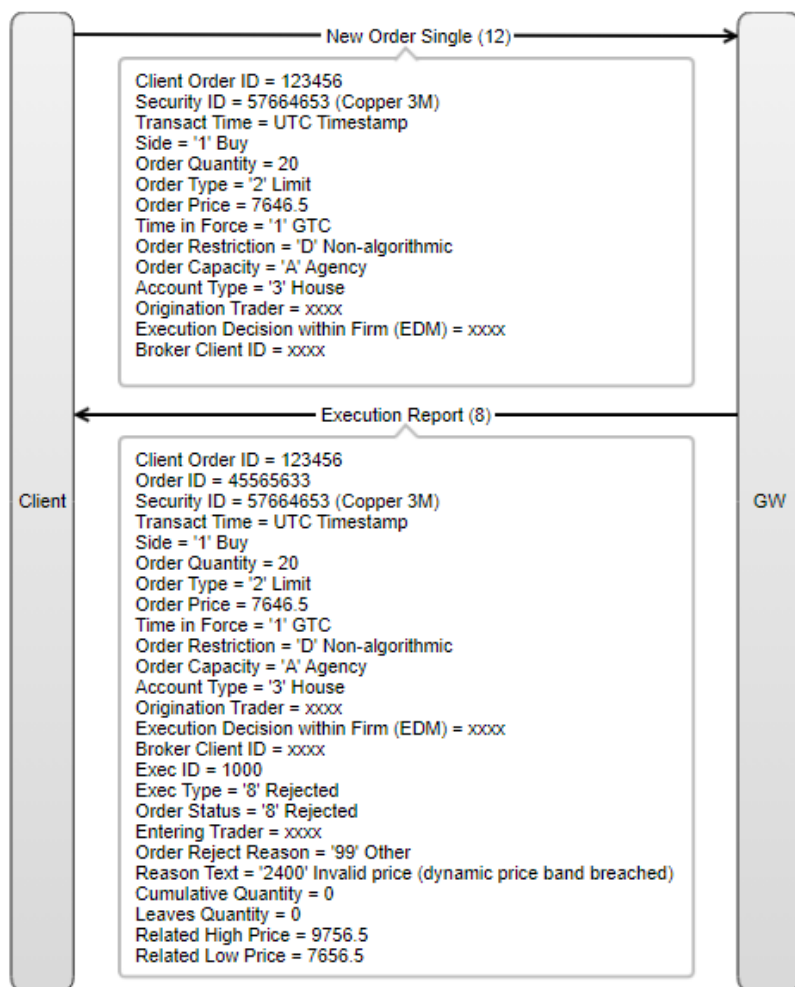
A Limit bid is submitted at 1830 for 10 lots. The OCO order is not triggered but trades 10 lots with the incoming order. The OCO remains in the order book with a residual volume of 5 lots



Implied trade

Custom strategy Butterfly trades



Order cancellation by Exchange*Order rejected price limits breached*

4.10.10.1 Execution Report Matrix

An Execution Report can be returned in response to a request e.g. New Order Single (12) or unsolicited in response to a particular action.

The fields that can be included are contingent on the purpose of the message and any mandatory or conditionally supplied tags specified by the originator in the initiating request or returned response to a particular action.

Legend:

M = Mandatory

C = Conditional

O = Optional

The following table indicates the field that will be returned for specific execution types:

Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Executing Firm	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Client ID Short Code	C	C										C	C	C	C
Legal Entity ID	C	C										C	C	C	C
Proprietary Client ID	C	C										C	C	C	C
Entering Firm	C	C										C	C	C	C



Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Origination Trader	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Customer Account	C	C										C	C	C	C
Correspondent Broker	C	C										C	C	C	C
Market Maker	C	C										C	C	C	C
Broker Client ID	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Decision Maker	C	C										C	C	C	C
Investment Decision within Firm (IDM)	C	C			C		C					C	C	C	C
Execution Decision within Firm (EDM)	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Investment Decision Country	C	C			C		C					C	C	C	C



Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Execution Decision Country	C	C			C		C					C	C	C	C
Client Branch Country	C	C			C		C					C	C	C	C
Order Capacity	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Order Restrictions	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Direct Electronic Access	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Aggregated Order	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Pending Allocation Order	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Liquidity Provision Order	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Risk Reduction Order	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M



Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Entering Trader	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Clearing Firm												M	M	M	
Account Type	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Order ID	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Client Order ID	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Secondary Client Order ID	O				O			O	O			O	O	O	O
Original Client Order ID					M	M	M	M							
Security ID	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Side	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Order Quantity	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Order Type	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Order Price	C	C	M	C	C	C	C	C	C	C	C	M	M	M	C
Expiry Date	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C



Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Cancel on Disconnect	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Transact Time	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Display Quantity	C	C		C	C	C	C	C	C	C	C	C		C	C
Text	C	C			C		C					C	C	C	C
Time in Force	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Self Match Prevention ID	C	C							C						C
Trigger Type	C	C ²	M	C	C	C	C	C	C	C	C	C	C	C	C
Trigger Price	C	C ²	M	C	C	C	C	C	C	C	C	C	C	C	C
Trigger Price Type	C	C ²	M	C	C	C	C	C	C	C	C	C	C	C	C

² Will not be present when a previously triggered Stop order is restated as a Limit order.



Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Trigger New Price	C	C ²	C	C	C	C	C	C	C	C	C	C	C	C	C
Quote Price Level	C														C
Host Cross ID	C							C	C			C	C	C	C
Cross ID	C							C	C			C	C	C	C
Original Cross ID								C							
Cross Type	C			C				C	C			C	C	C	C
Cross Prioritization	C			C				C	C			C	C	C	C
Venue Type												C	C	C	
Trade ID												M	M	M	
Exec ID	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Exec Ref ID														M	
Exec Type	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M



Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Exec Type Reason	C			M		M	M	C	M						
Order Status	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Order Reject Reason															M
Exec Restatement Reason		M		M											
Order Category												C	C	C	
Aggressor Indicator												M	M	M	
Last Quantity												M	M	M	
Last Price												M	M	M	
Leaves Quantity	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Cumulative Quantity	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M



Field Name	Order Accepted	Order Restated (GTC/GTD)	Order Triggered	Order Restated (Speed Bump)	Order Replaced	Order Pending Replace	Order Replaced (after Speed Bump)	Order Cancelled (Solicited)	Order Cancelled (Unsolicited)	Order Expired	Done for Day	Outright Filled	Strategy Filled	Trade Busted	Order Rejected
Reason Text									C						C
Related High Price									C						C
Related Low Price									C						C
No Legs													M	C	
Legs Body Fields Presence Map													M	C	
Leg Security ID													M	C	
Leg Side													M	C	
Leg Alloc ID													M	C	
Leg Last Price													M	C	
Leg Last Quantity													M	C	



4.10.11 Mass Cancel Request (17)

Mass Cancel Request is used to cancel the remaining quantity of a group of orders *and/or quotes* matching criteria specified within the message. Persisted orders will be included in the cancellation request.

A cross order held in an RFC interval and matches the criteria specified in the Mass Cancel Request will be included in the cancellation request. If one of the orders in a cross matches the criteria specified, then both orders in the cross will be cancelled. The Total Affected Orders count in the Mass Cancel Report will include both sides

If the request is accepted, an Execution Report (8) will be sent for each order cancelled followed by Mass Cancel Report (18).

If the request is rejected, Mass Cancel Report (18) will be returned indicating the reason.

BP	Field Name	Req	Data Type	Description
0	Client Order ID	Y	String (19)	Unique ID of Mass Cancel Request as assigned by the institution.
2	Mass Cancel Request Type	Y	UInt8	Specifies the type of cancellation requested. Valid values: 1 = Cancel orders/ <i>quotes</i> for a Security ID (tradable instrument) 3 = Cancel orders/ <i>quotes</i> for a Symbol (contract e.g. CADF - Copper Future <u>or</u> <u>CADO – Copper Option</u>) 7 = Cancel all orders/ <i>quotes</i> 101 = Cancel <i>quotes</i> specified in Quote ID
3	Mass Cancel Scope	Y	UInt8	Specifies the scope of the cancellation requested. Valid values: 1 = Cancel orders only 2 = Cancel <i>quotes</i> only 3 = Cancel orders and <i>quotes</i> . <i>Must be 2 = Cancel quotes if Mass Cancel Request Type = '101' Cancel quotes specified in Quote ID.</i>
5	Transact Time	Y	UInt64	Time when the message was generated.
7	Security Exchange	C	String (5)	Market which is used to identify the security: XLME



BP	Field Name	Req	Data Type	Description
				Conditionally required if Symbol is specified.
8	Product Complex	C	String (5)	Identifies an entire suite of products for a given market. Valid values: LME = Base Conditionally required if Symbol is specified.
9	Symbol	C	String (21)	Symbol for the LME contract code e.g. CADF (Copper Future) or OCDF (Copper Monthly Average Future). Conditionally required if Mass Cancel Request Type = '3' Cancel orders/ <i>quotes</i> for a Symbol (contract).
10	Security ID	C	UInt64	Tradable Instrument identifier. Conditionally required if Mass Cancel Request Type = '1' Cancel orders/ <i>quotes</i> for a Security ID.
11	<i>Quote ID</i>	C	<i>String (19)</i>	<i>Mass Quote Identifier.</i> <i>Conditionally required if Mass Cancel Request Type = '101' Cancel quotes specified in Quote ID.</i>
12	Broker Client ID	N	String (17)	Identifier of the entity in a risk group. Can be used with Mass Cancel Request Type = '7' Cancel all orders/ <i>quotes</i> .
13	Side	N	UInt8	Optional qualifier to indicate the side of the market for which orders are to be cancelled. Can be used if Mass Cancel Request Type = '3' Cancel orders/ <i>quotes</i> for a Symbol (contract). Absence of this field indicates that orders/ <i>quotes</i> are to be cancelled regardless of side.

4.10.12 Mass Cancel Report (18)

Mass Cancel Report is returned in response to a Mass Cancel Request (17).

Each affected order that is cancelled is acknowledged with a separate Execution Report (8).

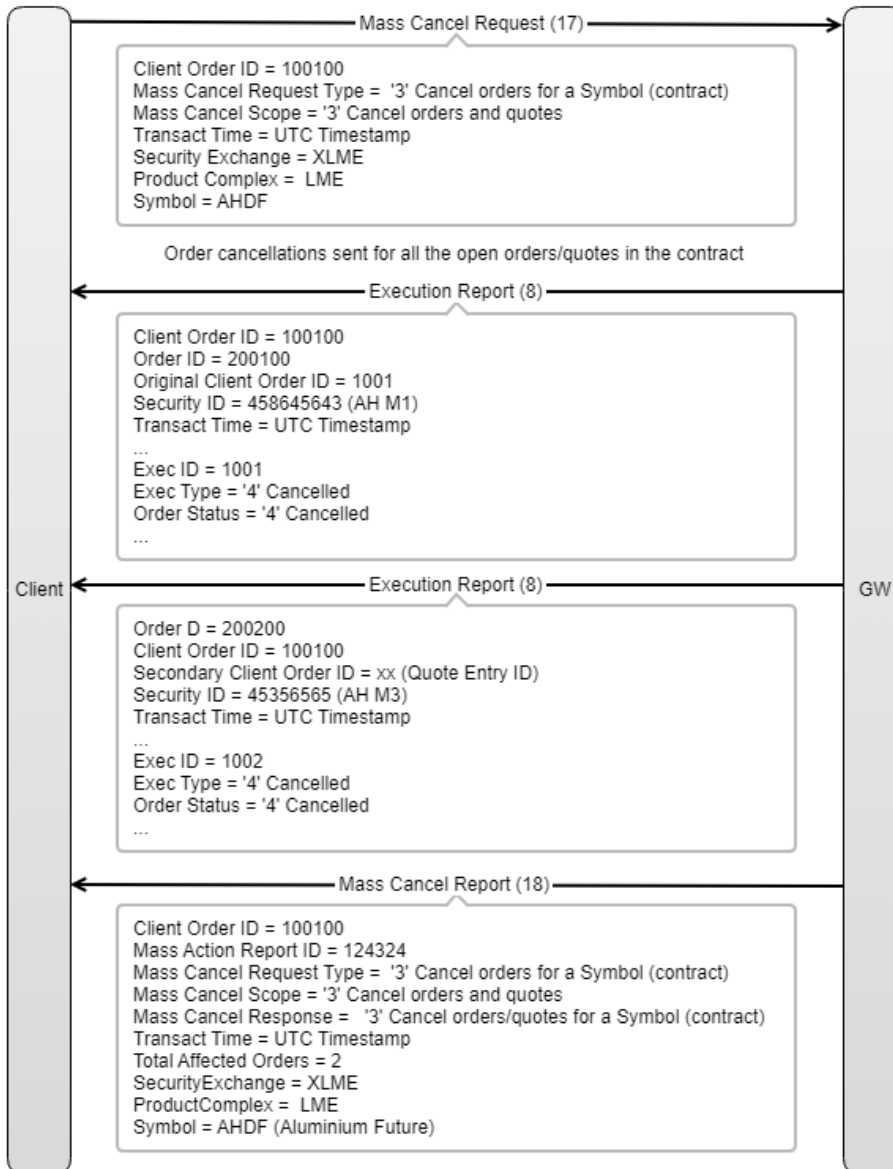
BP	Field Name	Req	Data Type	Description
0	Client Order ID	N	String (19)	Unique ID of Mass Cancel Request as assigned by the institution.
1	Mass Action Report ID	Y	String (21)	Unique Identifier for the Order Mass Cancel Report assigned by the system.
2	Mass Cancel Request Type	Y	UInt8	Specifies the type of cancellation requested. Valid values: 1 = Cancel orders/ <i>quotes</i> for a Security ID (tradable instrument) 3 = Cancel orders/ <i>quotes</i> for a Symbol (contract e.g. CADF - Copper Future <u>or</u> <u>CADO – Copper Option</u>) 7 = Cancel all orders/ <i>quotes</i> 101 = Cancel <i>quotes</i> specified in Quote ID
3	Mass Cancel Scope	Y	UInt8	Specifies the scope of the cancellation requested. Valid values: 1 = Cancel orders only 2 = Cancel <i>quotes</i> only 3 = Cancel orders and <i>quotes</i> . <i>Must be 2 = Cancel quotes if Mass Cancel Request Type = '101' Cancel quotes specified in Quote ID.</i>
4	Mass Cancel Response	Y	UInt8	Indicates the action taken on the cancel request: Valid values: 0 = Cancel Request Rejected 1 = Cancel orders/ <i>quotes</i> for a Security ID 3 = Cancel orders/ <i>quotes</i> for a Symbol (contract) 7 = Cancel all orders/ <i>quotes</i> 101 = Cancel <i>quotes</i> specified in Quote ID
5	Transact Time	Y	UInt64	Time when the message was generated.



BP	Field Name	Req	Data Type	Description
6	Total Affected Orders	Y	UInt32	Indicates the total number of orders affected by the Mass Cancel Request.
7	Security Exchange	C	String (5)	Market which is used to identify the security: XLME Conditionally required if Symbol is specified.
8	Product Complex	C	String (5)	Identifies an entire suite of products for a given market. Valid values: LME = Base Conditionally required if Symbol is specified.
9	Symbol	C	String (21)	Symbol for the LME contract code e.g. CADF (Copper Future) or OCDF (Copper Monthly Average Future). Conditionally required if Mass Cancel Request Type = '3' Cancel orders/ <i>quotes</i> for a Symbol (contract).
10	Security ID	C	UInt64	Tradable Instrument identifier. Conditionally required if Mass Cancel Request Type = '1' Cancel orders/ <i>quotes</i> for a Security ID.
11	<i>Quote ID</i>	<i>C</i>	<i>String (19)</i>	<i>Mass Quote Identifier.</i> <i>Conditionally required if Mass Cancel Request Type = '101' Cancel quotes specified in Quote ID.</i>
12	Broker Client ID	C	String (17)	Identifier of the entity in a risk group. Can be used with Mass Cancel Request Type = '7' Cancel all orders/ <i>quotes</i> .
13	Side	C	UInt8	Optional qualifier to indicate the side of the market for which orders are to be cancelled. Can be used if Mass Cancel Request Type = '3' Cancel orders/ <i>quotes</i> for a Symbol (contract).

BP	Field Name	Req	Data Type	Description
				Absence of this field indicates that orders/ <i>quotes</i> are to be cancelled regardless of side.
14	Mass Cancel Reject Reason	C	UInt16	Code specifying the reason for the rejection. Valid values: 1 = Invalid or Unknown Security 3 = Invalid or Unknown Product 99 = Other. Conditionally required if Mass Cancel Response = '0' Cancel Request Rejected
15	Reason Text	C	String (76)	Text specifying the reason for the rejection. Conditionally required if Mass Cancel Reject Reason = '99' Other.

Example Message Flow

Mass cancel orders and quotes in a contract

4.10.13 Mass Quote (22)

Mass Quote is used to enter and manage (amend and/or cancel) multiple orders submitted as quotes in a single contract.

BP	Field Name	Req	Data Type	Description
0	Quote ID	Y	String (19)	Client specified unique identifier for the Mass Quote. This maps to the Client Order ID in the Execution Report.
1	Transact Time	Y	UInt64	Time when the message was generated.
2	Account Type	Y	UInt8	Specifies the type of account associated with the order. Valid values: 1 = Client ISA 3 = House 8 = Joint back office account (JBO) = Gross OSA 101 = Client OSA For contracts assigned to the T4 booking model only 3 = House is valid whereas for the T2 booking model all account types are valid.
3	Order Restrictions	Y	Char	Restrictions associated with an order. Valid values: D = Non-algorithmic (human) E = Algorithmic (algo)
4	Order Capacity	Y	Char	Indicates the trading capacity. Valid values: A (agency) = AOTC P (principal) = DEAL R (riskless principal) = MTCH
6	Client ID Short Code	C	UInt64	Client short code identifier. If there is no client this can be populated with the value '0' = No Client for Account Type = 3 Not valid if populated with either 1, 2 or 3. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
7	Legal Entity ID	C	String (41)	LEI.



BP	Field Name	Req	Data Type	Description
8	Proprietary Client ID	C	String (41)	Proprietary or Custom Client ID as assigned by the member. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
9	Entering Firm	N	String (4)	Identifier of the entering firm, a member mnemonic.
10	Origination Trader	Y	String (41)	Order origination trader.
11	Customer Account	C	String (31)	Identification of the client account code where the Account Type = 1, 8 or 101.
12	Correspondent Broker	N	String (4)	A 3 character broker code (Member mnemonic).
14	Market Maker	N	Char	This should be set to Y if the trader qualifies for a Market Maker initiative.
15	Decision Maker	C	UInt64	Decision maker short code, required on client orders to identify the investment decision maker. Also used under the power of representation clause where the investment decision maker may be a third party in accordance with Article 8 of Commission Delegated Regulation (EU) .../... 22 on transaction reporting under Article 26 of Regulation EU No 600/2014. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
16	Investment Decision within Firm (IDM)	N	UInt64	Short code to identify the individual who is responsible for the investment decision.
17	Execution Decision within Firm (EDM)	Y	UInt64	Short code to identify the execution decision maker with the firm.
18	Investment Decision Country	N	String (3)	ISO country code of the branch responsible for the person making the investment decision.
19	Execution Decision Country	N	String (3)	ISO country code of the branch responsible for the person making the execution decision.

BP	Field Name		Req	Data Type	Description
20	Client Branch Country		C	String (3)	ISO country code to identify the branch that received the client order or made an investment decision for a client. Conditionally required for client orders i.e. Account Type = 1, 8 or 101.
21	Broker Client ID		Y	String (17)	Identifier of the entity in a risk group.
22	Self Match Prevention ID		N	UInt32	Identifies an order that should not be matched to an opposite order if both buy and sell orders for the trade contain the same Self Match Prevention ID and are submitted by the same member.
23	Direct Electronic Access		N	Char	Signifies order received from a direct access or sponsored access customer. Valid value: Y = Yes Absence of this field infers No (default)
24	Total Quote Entries		Y	UInt8	Total number of Quote entries (pairs) in this message. Must be ≥ 1 and ≤ 20 .
25	No Quote Sets		Y	UInt8	The number of sets of quotes contained in the message. Must be ≥ 1 but $\leq$ Total Quote Entries.
	Quote Sets Field Presence Map		Y	Bitmap Variable Length (1)	This will indicate the fields/nested repeating blocks present in this repeating block.
	1	Security ID	Y	UInt64	Tradable Instrument identifier.
	2	No Quote Entries	Y	UInt8	Number of Quote Entry repeating blocks. Must be ≥ 1 but ≤ 3 .
		Quote Entry Field Presence Map	Y	Bitmap Variable Length (1)	This will indicate the fields/nested repeating blocks present in this repeating block.

BP	Field Name		Req	Data Type	Description
	0	Quote Entry ID	Y	UInt8	Quote pair ID in a Mass Quote message. Starts from 1 and incremented by 1 for each quote pair in the message. The last value must be the same as Total Quote Entries in this message.
	1	Quote Price Level	Y	UInt8	Indicates the price level that is being submitted or modified. Valid values are 1, 2 or 3.
	2	Bid Size	Y	Int32	Bid quantity. Value 0 indicates cancellation of this side. Value -1 indicates no change to this side or a dummy quote.
	3	Offer Size	Y	Int32	Offer quantity. Value 0 indicates cancellation of this side. Value -1 indicates no change to this side or a dummy quote.
	4	Bid Price	Y	Int64	Bid price. Null value indicates dummy quote or a cancelled price.
	5	Offer Price	Y	Int64	Offer price. Null value indicates dummy quote or a cancelled price.

4.10.14 Mass Quote Ack (23)

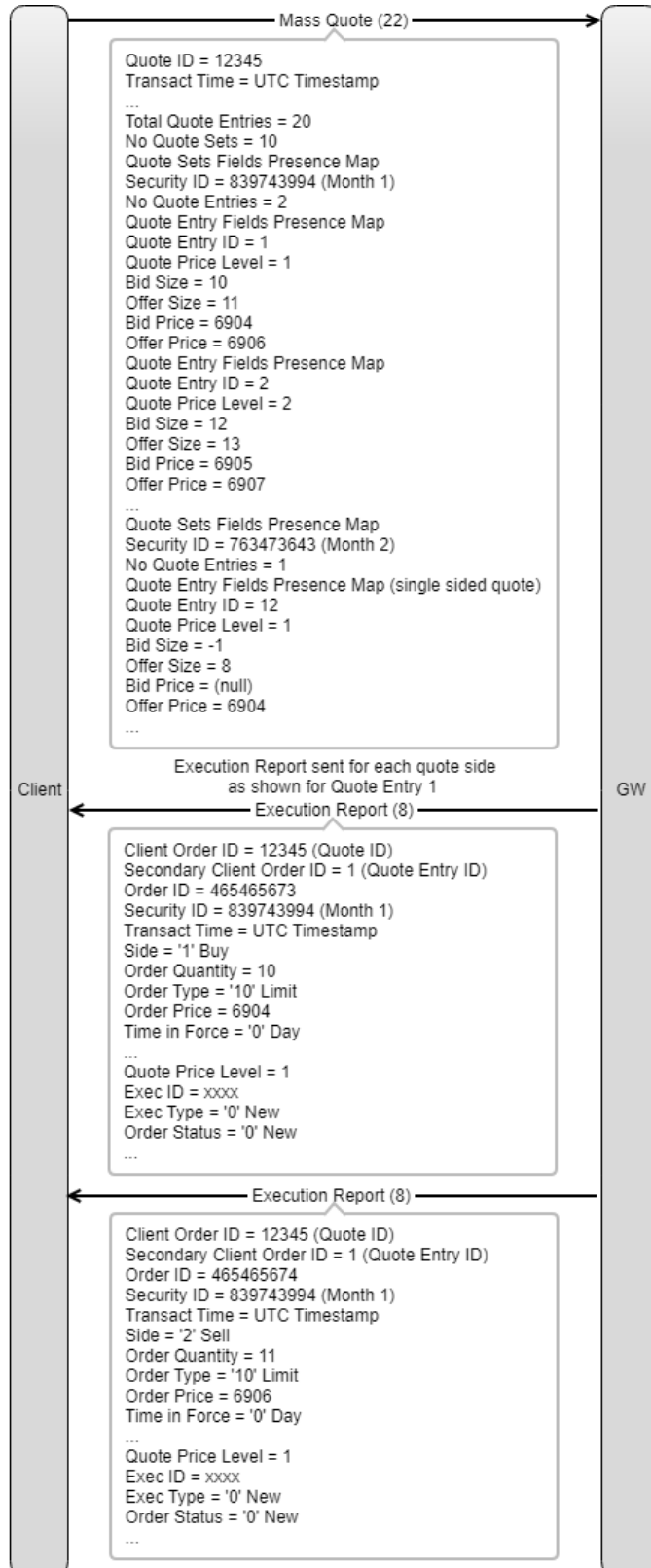
Mass Quote Ack reports the rejection of a Mass Quote (22) at message level.

BP	Field Name	Req	Data Type	Description
0	Quote ID	Y	String (19)	Client specified unique identifier for the Mass Quote. This maps to the Client Order ID in the Execution Report.
1	Transact Time	Y	UInt64	Time when the message was generated.

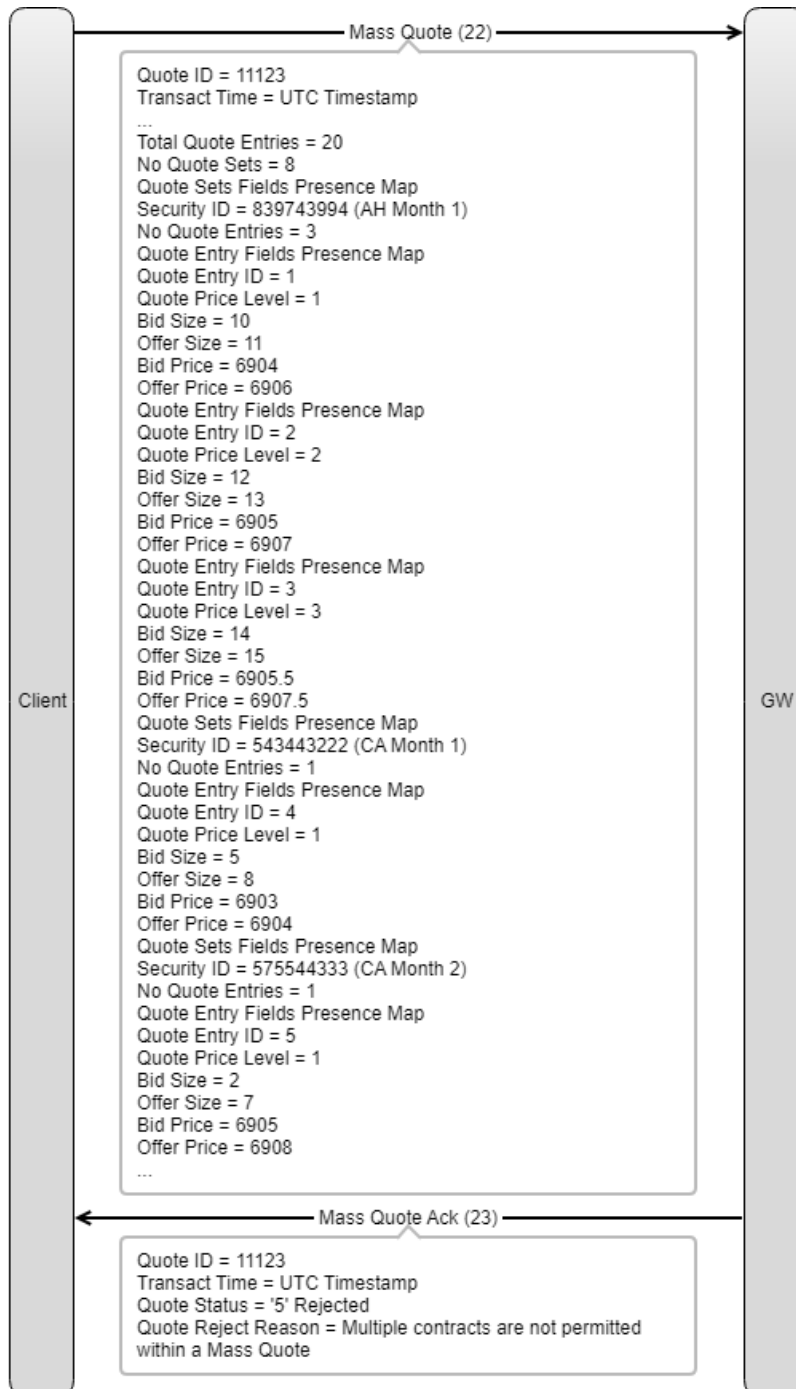


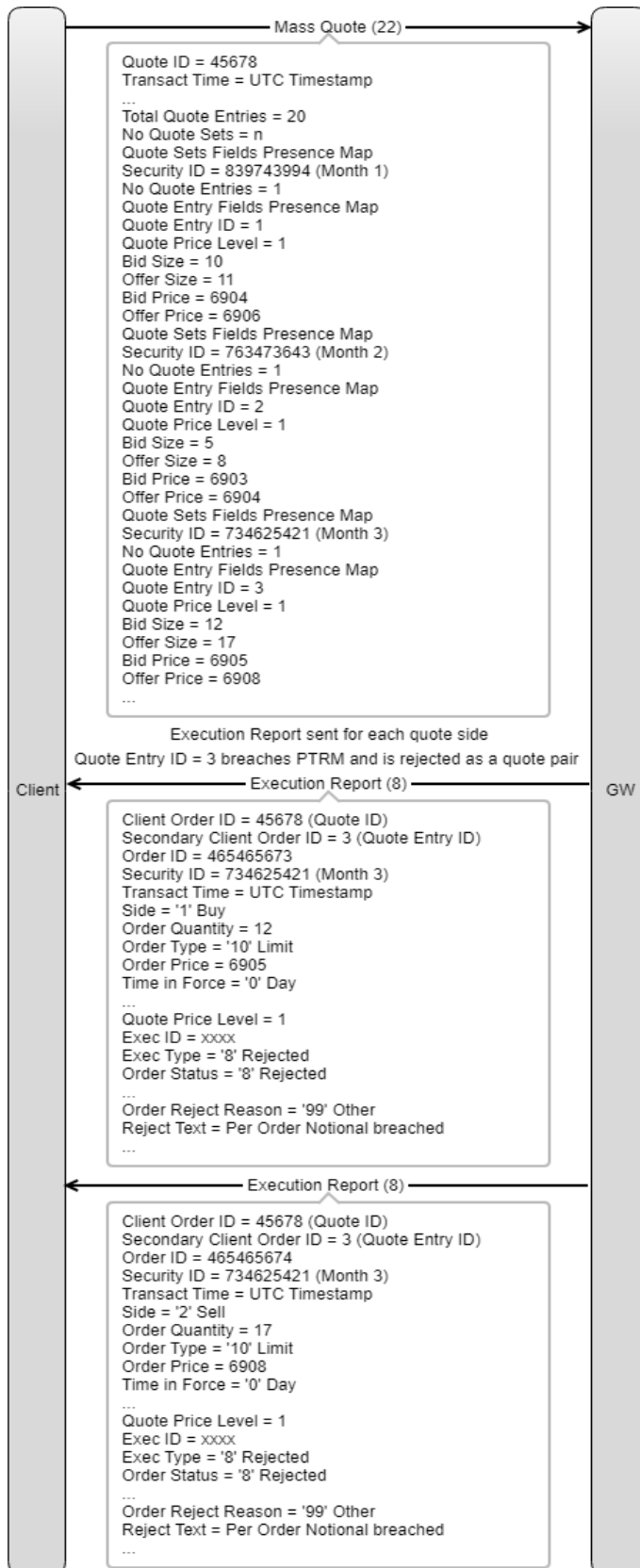
BP	Field Name	Req	Data Type	Description
2	Quote Status	Y	UInt8	Status of the Mass Quote acknowledgement. Valid value: 5 = Rejected
3	Quote Reject Reason	Y	UInt16	Code specifying the reason for the rejection. Valid values: 6 = Duplicate quote 9 = Not authorized to quote security 99 = Other
4	Reason Text	C	String (76)	Text specifying the reason for the rejection. Conditionally required if Quote Reject Reason = '99' Other.

Example Message Flows

Mass Quote submission

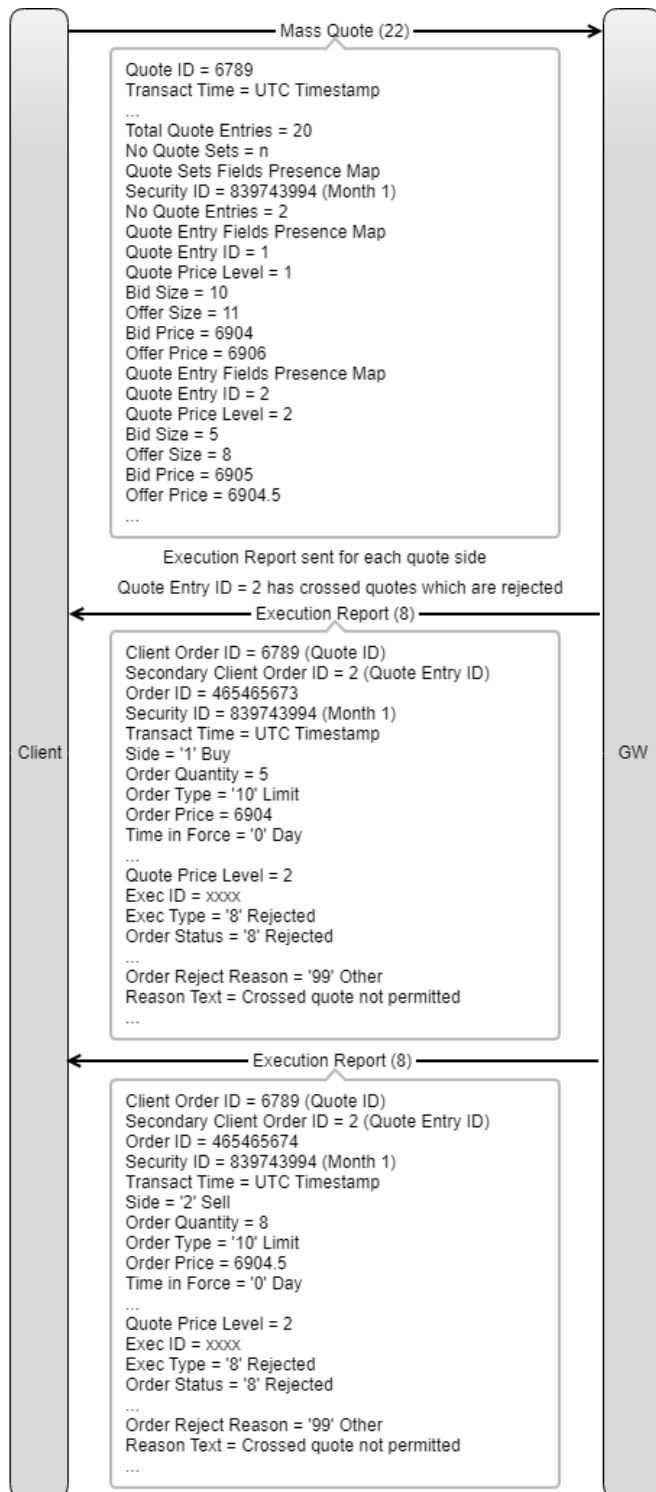
Entire Mass Quote rejected

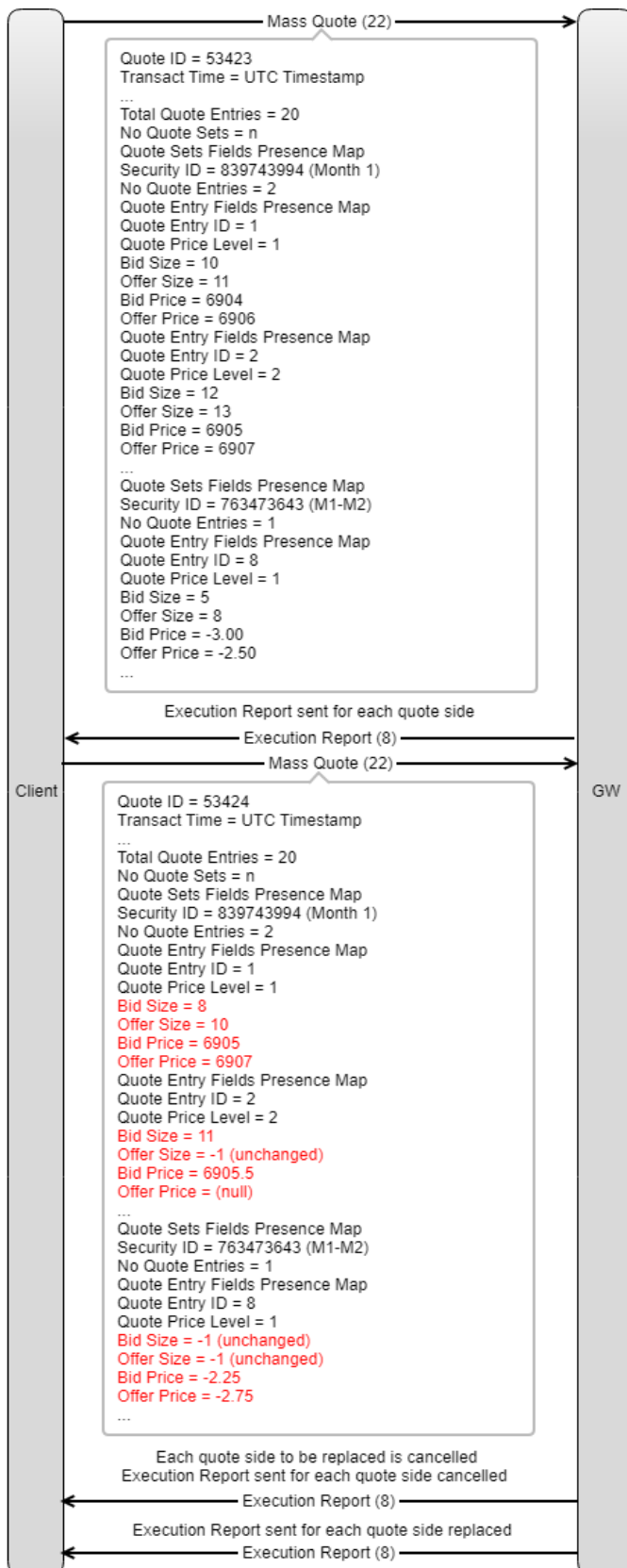


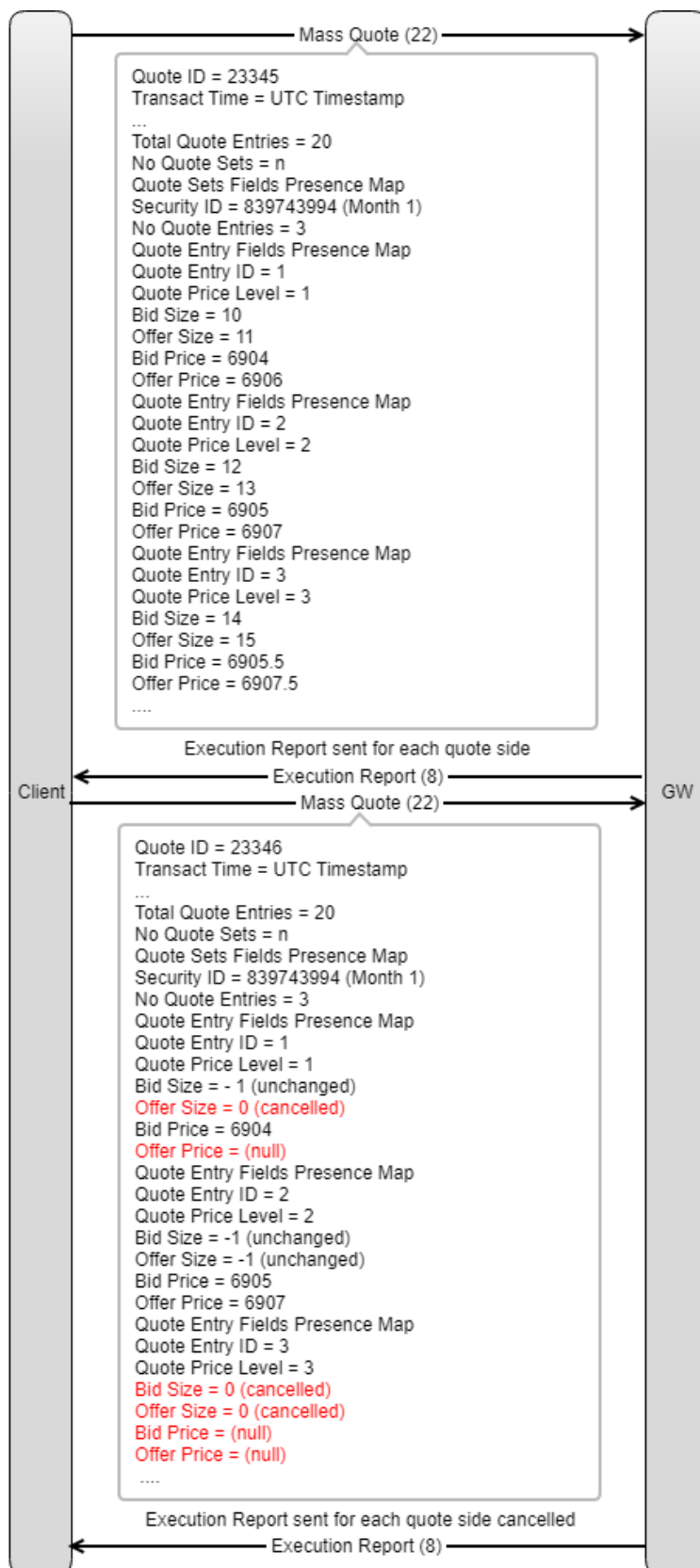
Mass Quote – individual quote rejections

Crossed quotes within a Quote Entry rejected

The bid for 6905 for 5 lots and offer at 6904.5 for 8 lots in Quote Entry ID = 2 can trade with each other. The matching engine will reject a cross quote pair within a single Quote Entry. The originator of the Mass Quote will be notified of the rejection by an Execution Report for each quote pair.



Mass Quote entries replaced

Individual quotes cancelled

4.10.15 Quote Request (20)

Quote Request is used to requests prices from market participants.

The Quote Request is disseminated via the Market Data service to market participants.

BP	Field Name	Req	Data Type	Description
0	Quote Request ID	Y	String (19)	Client specified identifier for the quote request.
1	Security ID	Y	UInt64	Tradable Instrument identifier.
2	Quote Request Type	Y	UInt8	Indicates the type of Quote Request being generated. Valid values: 1 = Manual - used to indicate a single quote request 2 = Automatic - used to indicate a streaming quote request
3	Transact Time	Y	UInt64	Time when the message was generated.
4	Side	N	UInt8	Side of order. If not defined indicates a two-sided quote is required. Valid values: 1 = Buy 2 = Sell
5	Quantity	N	Int32	Order quantity. If not entered, a volume of 0 will be published.

4.10.16 Quote Request Ack (21)

Quote Request Ack (21) is returned by the gateway in response to a Quote Request (20).

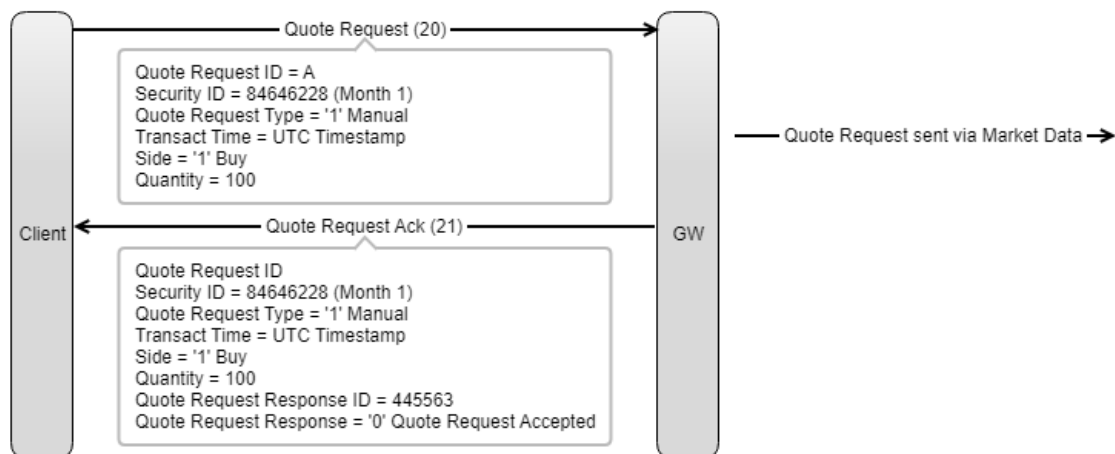
BP	Field Name	Req	Data Type	Description
0	Quote Request ID	Y	String (19)	Client specified identifier for the quote request.
1	Security ID	Y	UInt64	Tradable Instrument identifier.
2	Quote Request Type	Y	UInt8	Indicates the type of Quote Request being generated. Valid values:



BP	Field Name	Req	Data Type	Description
				1 = Manual - used to indicate a single quote request 2 = Automatic - used to indicate a streaming quote request
3	Transact Time	Y	UInt64	Time when the message was generated.
4	Side	C	UInt8	Side of order. If not defined indicates a two-sided quote is required. Valid values: 1 = Buy 2 = Sell. Conditionally required if specified on the original message.
5	Quantity	C	Int32	Order quantity. Conditionally required if specified on the original message.
6	Quote Request Response ID	Y	String (21)	Unique identifier for the Quote Request Ack assigned by the system.
7	Quote Request Response	Y	UInt8	Indicates the action taken as a result of the Quote Request. Valid values: 0 = Quote Request Accepted 1 = Quote Request Rejected
8	Quote Request Reject Reason	C	UInt8	Code that identifies the reason for the rejection. Valid value: 99 = Other Conditionally required if Quote Request Response = '1' Quote Request Rejected.
9	Reason Text	C	String (76)	Text specifying the reason for the rejection. Conditionally required if Quote Request Reject Reason = '99' Other

Example Message Flow

RFQ Submission



4.10.17 MMP Reset Request (30)

MMP Reset Request is used to reinstate a trader (i.e. Comp ID) that has breached a Market Maker Protection type.

BP	Field Name	Req	Data Type	Description
0	MMP Reset Request ID	Y	String (19)	Client specified identifier for the MMP Reset request.
1	Transact Time	Y	UInt64	Time when the message was generated.
2	Security Exchange	Y	String (5)	Market which is used to identify the security: XLME
3	Product Complex	Y	String (5)	Identifies an entire suite of products for a given market. Valid values: LME = Base
4	Symbol	Y	String (21)	Symbol for the LME contract code e.g. CADF (Copper Future) or OCDF (Copper Monthly Average Future).

4.10.18 MMP Reset Ack (31)

MMP Reset Ack is returned in response to an MMP Reset Request (30).

BP	Field Name	Req	Data Type	Description
0	MMP Reset Request ID	Y	String (19)	Client specified identifier for the MMP Reset request.
1	Transact Time	Y	UInt64	Time when the message was generated.
2	Security Exchange	Y	String (5)	Market which is used to identify the security: XLME
3	Product Complex	Y	String (5)	Identifies an entire suite of products for a given market. Valid values: LME = Base
4	Symbol	Y	String (21)	Symbol for the LME contract code e.g. CADF (Copper Future) or OCDF (Copper Monthly Average Future).
5	MMP Reset Response ID	Y	String (21)	Unique identifier for the MMP Reset Response Ack assigned by the system.
6	MMP Reset Response	Y	UInt8	Specifies the action taken as a result of the MMP Reset Request message. Valid values: 0 = Accepted 2 = Rejected
7	MMP Reset Reject Reason	C	UInt8	Code that identifies the reason for the rejection. Conditionally required when MMP Reset Response = '2' Rejected Valid values: 98 = Not authorised 99 = Other
8	Reason Text	C	String (76)	Text specifying the reason for the rejection. Conditionally required if MMP Reset Reject Reason = '99' Other.



Example Message Flow

MMP Reset requested

