

# Coinbase Derivatives

## FIX Order & Market Data API Specification

Version 0.25

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## 1. Revision History

| Version | Date        | Author | Description                                                                                                                                                                                                                                                                                   |
|---------|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.01    | Dec-4-2019  | ET     | Initial draft                                                                                                                                                                                                                                                                                 |
| 0.02    | Jan-3-2020  | MG, ET | Fixed Market Data Tags, SenderCompID improvements                                                                                                                                                                                                                                             |
| 0.03    | Jan-24-2020 | MG, FY | Market Data Tag updates and errata                                                                                                                                                                                                                                                            |
| 0.04    | Jan-28-2020 | KW     | Added MarketDataSnapshotFullRefresh message, Added 'change' value to MDUpdateAction, Dropped MarketDepth and MDUpdateType from incremental refresh message                                                                                                                                    |
| 0.05    | Apr-22-2020 | FY     | Market Data Subscription updates                                                                                                                                                                                                                                                              |
| 0.06    | May-12-2020 | JT     | Spread Instrument support:<br>Add InstrumentLegGroup to SecurityDefinition and SecurityList<br>Add SecuritySubType tag and new MDEntryType values                                                                                                                                             |
| 0.07    | Aug-4-2020  | ET, FY | Execution Report ExecType updates, Add OnBehalfOfSenderSubID (116)                                                                                                                                                                                                                            |
| 0.08    | Oct-8-2020  | MG     | Added optional NoRelatedSymbol repeating group for MarketDataRequest                                                                                                                                                                                                                          |
| 0.09    | Nov-16-2020 | FY     | SenderCompID updates                                                                                                                                                                                                                                                                          |
| 0.10    | Dec-1-2020  | MG     | Corrected MinQty description in NewOrderSingle, Removed Memo (5149) from all order message, Removed unsupported Order Status messages, Add ExecType=L for Stop Trigger, Update Fill ExecType=F instead of 1,2                                                                                 |
| 0.11    | Dec-2-2020  | KW     | Added LastExecIDRequest, LastExecID, EventResendRequest, EventResendAck and EventResendReject messages.                                                                                                                                                                                       |
| 0.12    | Dec-8-2020  | ET     | Removed Market Limit order type, updated Cancel/Replace MSG(G), update SelfMatchPreventionStrategy, Last ExecID Request msg updated, removed Good Till Date (59)                                                                                                                              |
| 0.13    | Dec-17-2020 | KW     | Added Execution Report ExecType=L for Stop Trigger<br>Updated BusinessRejectRefID=Tag 379                                                                                                                                                                                                     |
| 0.14    | Dec-28-2020 | FY     | Update Symbol (55) Length to 24                                                                                                                                                                                                                                                               |
| 0.15    | Dec-30-2020 | KW     | Added LastMsgSeqNumProcessed (369) to standard message header.                                                                                                                                                                                                                                |
| 0.16    | Jan-5-2021  | ET     | Updated Tag108 HeartBtInt range, Tag59 TimeInForce<br>Removed Tag 110 MinQty from MsgType=G and MsgType=8,<br>ExecType=4 / L, Removed Tag 432 ExpireDate MsgType=8, ExecType=C                                                                                                                |
| 0.17    | Jan-25-2021 | VD     | Added Tag 286 (OpenCloseSettleFlag) & tag 6 (AvgPx), updated Tag 1682 (MDSecurityTradingStatus), Tag 269 (MDEntryType), Removed Tag 731 (SettlePriceType), Tag 1150 (TradingReferencePrice) and Tag 5796 (TradingReferenceDate), 5791 (ClearedVolume) & 5792 (OpenInterestQty) from 35=d/35=y |
| 0.18    | Mar-4-2021  | FY     | Update SelfMatchPreventionID to numeric                                                                                                                                                                                                                                                       |

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|             |                 |               |                                                                                                                                                                                                                                              |
|-------------|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0.19</b> | May-20-2021     | VD<br>FY      | Addition of FIX tag 731 (SettlPriceType, value=2) for theoretical settlement price sent during initial seeding of a brand new contract<br>Clarify Event Time 1145 Description and DataType on Security Definition and Security List Messages |
| <b>0.20</b> | June-21-2021    | VD            | Addition of FIX Tag 880 (TrdMatchID)                                                                                                                                                                                                         |
| <b>0.21</b> | July-26-2021    | VD, KW,<br>FY | Adding Tag 5796 (TradingReferenceDate) to 35=y, 35=d, 35=W & 35=X<br>Adding Tag 5797 (AggressorSide) to 35=X<br>Adding 1682 (MDSecurityTradingStatus)=98 (Forbidden)                                                                         |
| <b>0.22</b> | November-1-2021 | VD            | Addition of new value of Crypto to Tag 462 (UnderlyingProduct)                                                                                                                                                                               |
| <b>0.23</b> | January-25-2022 | VD            | Addition of 269=z (LastTradedPx) to market data snapshot                                                                                                                                                                                     |
| <b>0.24</b> | Apr-14-2022     | DN            | Replaced FairX copy/logo with Coinbase Derivatives                                                                                                                                                                                           |
| <b>0.25</b> | Apr-18-2022     | BG, DN        | Replaced Target Comp ID as COIND                                                                                                                                                                                                             |
| <b>0.26</b> | Apr-29-2022     | SB            | Added Tag59 GTD, Added Tag 432 ExpireDate                                                                                                                                                                                                    |

## 2. Overview

This document describes the Coinbase Derivatives order management FIX API for brokers and market makers. The API allows connected firms to send, modify and cancel their orders. The expected latency for the FIX Order API is 400-500 microseconds roundtrip.

The API uses FIX protocol version 4.4. This document describes the messages supported by Coinbase Derivatives. The document is not intended to serve as a full-fledged specification of the FIX protocol. Please refer to the official FIX specifications at <https://www.fixtrading.org/> website for additional details.

### 2.1. The Coinbase Derivatives Hours of Operation

Contact the exchange for the current trading schedule. Orders entered outside trading hours will be rejected. Firms are encouraged to stay connected 15 minutes after the official close to receive execution reports that are generated due to trading session closing logic (e.g. Expired reports, Done for Day).

The exchange will reset its FIX sequences on a weekly basis. Reset schedule is configured during initial setup.

### 2.2. Certification

In order to connect to Coinbase Derivatives, firms must be certified. Coinbase Derivatives provides a separate environment for integration, acceptance testing and certification. Please contact the Coinbase Derivatives team to obtain additional information.

### 2.3. Firm Identifiers

All messages sent from/to the exchange *must* contain both the SenderCompID (49) and TargetCompID (56) fields. The firm and the exchange agree on these values at the time of the firm onboarding.

| Field        | Firm to Exchange                                                                                                                                                                                                                                                                                               | Exchange to Firm                                                                                                                        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| SenderCompID | Id of connection. A firm may have multiple connections, each connection will have its own CompID. This tag consists of 2 subcomponents: SubFirmID and Session ID. SubFirmID is the left-most 3 characters. The next 3 characters represent Session ID.<br>Example: EBR123<br>SubFirmID: EBR<br>Session ID: 123 | Always "COIND"                                                                                                                          |
| TargetCompID | Always "COIND"                                                                                                                                                                                                                                                                                                 | Id of connection. A firm may have multiple connections, each connection will have its own CompID. This tag consists of 2 subcomponents: |

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|  |  |                                                                                                                                                                        |
|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | SubFirmID and Session ID. SubFirmID is the left-most 3 characters. The next 3 characters represent Session ID.<br>Example: EBR123<br>SubFirmID: EBR<br>Session ID: 123 |
|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

All application messages sent from or to the exchange *must* also contain both the SenderSubID (50) and TargetSubID (57) fields

| Field              | Firm to Exchange                                                                                                                                                                                                                                                                                                                            | Exchange to Firm                                                                                                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SenderSubID</b> | Unique identifier for the end trader submitting orders. Tag 50 IDs are issued by an exchange clearing member firm (clearing member), their contracted vendors or assignees                                                                                                                                                                  | Identifies the environment on the exchange side. This can be either "PROD" or "TEST". The firm can use this value to guard itself from accidentally issuing UAT or test orders on the live market. |
| <b>TargetSubID</b> | Identifies the target environment on the exchange side. This can be either "PROD" or "TEST". The firm can use this value to guard itself from accidentally issuing UAT or test orders on the live market. The exchange will reject any messages sent to unexpected environment (e.g. production environment will reject any TEST messages). | Unique identifier for the end trader submitting orders. Tag 50 IDs are issued by an exchange clearing member firm (clearing member), their contracted vendors or assignees                         |

## 2.4. Order Identifiers

All orders submitted to Coinbase Derivatives must have a unique ClOrdID (tag 11). The exchange only enforces the uniqueness of the identifier among working orders (for example, GTC and non-triggered stops). Non-unique ids can cause issues with reporting, clearing, and support.

## 2.5. Trade Busts and Corrects

The Coinbase Derivatives FIX Order Management API does **not** distribute unsolicited reports about trade busts and corrections. The firms are expected to utilize the FIX Drop Copy connections if they need to receive these messages.

## 2.6. Done for Day and Expiration Reports

During initial setup a connection may be configured to distribute Done for Day execution reports for all the GTC/GTD orders that remain open after the trading day is closed. It is also possible to configure the API to distribute the Expired execution reports for the DAY orders that have expired.

Firms are encouraged to stay connected 15 minutes after the official close to receive execution reports that are generated due to trading session closing logic (e.g. Expired reports, Done for Day).

## 2.7. Self-Match Prevention

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Self-match prevention functionality allows market participants to prevent Buy and Sell orders for the same account, firm or group of accounts to match with each other. The functionality is optional and is controlled with a pair of FIX tags in incoming orders:

- **SelfMatchPreventionID** (7928) – orders with the same Self Match Prevention ID for the same executing firm will not match. Maximum length of the ID is 8 Digits.
- **SelfMatchPreventionStrategy** (8000) – this value defines the strategy of dealing with matching orders if self-match prevention is triggered. The exchange can either cancel the aggressor order, the resting order or both. The exchange uses the strategy from the *aggressor* order to deal with self-matched orders.

## 2.8. Failover and Delivery Guarantees

Coinbase Derivatives will operate a pair of active gateways. Clients are free to connect to one or the other or both. All order events for a user will be sent to both gateways and be available for resend regardless of whether or not the client has an active session. Sessions on each gateway are distinct and thus have independent sequence numbers. However, an event `execId` is guaranteed to uniquely identify an event and can be used to de-duplicate events received from dual sessions.

Order requests may be sent via either gateway, but should not be sent via both simultaneously. Coinbase Derivatives may reject duplicate requests, but they may also result in duplicate fills.

In the event of a disconnect with one or more pending/unacked requests, the client should connect to the other gateway (if not already connected) and send a Last `ExecId` Request to determine the `execId` of the last order event sent by the trading system to the client. If the client is missing events (the last seen `execId` is less than last `ExecId` returned in Last `ExecId` message), the client may either send an Event Resend Request or a session-level ResendRequest message to retrieve missed events. Having recovered all missed events, the client can safely assume that any requests for which there was no corresponding event was either not processed by the trading system or was rejected.

## 2.9. Cancel On Disconnect

A client may optionally be configured for cancel-on-disconnect orders. Cancel-on-disconnect applies to DAY orders only (not good-till-cancel orders).

If a client has cancel-on-disconnect enabled and is connected to both active gateways and disconnects from one of them, only the orders submitted (or last replaced/modified) by the disconnected session will be canceled. For example, if a client submits an order on gateway A and then updates that order on gateway B, the order will not be canceled if they disconnect from gateway A but will be canceled if they disconnect from gateway B.

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## 3. Session Protocol

Session protocol assures client identification, sequential request processing, session state control and ability to restore the session after downtime. In the scope of a session, all FIX messages are identified by unique integer sequence numbers and are processed in that order. When an incoming sequence number does not match the expected one, the session must be recovered. If the incoming sequence number is less than expected and PossDupFlag is not set to Y, then it is considered a fatal error, and the connection is dropped by the server. If the sequence number of incoming message is greater than the next expected number, then a Resend Request is issued for missed messages.

The exchange resets the sequences weekly. Reset schedule is configured during initial setup. Resets may also be initiated by a firm sending a Logon message with ResetSeqNumFlag = Y.

Client and server use the following administrative messages:

- **Logon** – initiates (client) or approves (server) session opening.
- **Logout** – initiates or approves session closing.
- **Resend Request** – requests missed fix messages.
- **Sequence Reset – Gap Fill**, must be used instead of resend of administrative messages.
- **Test Request** – used to control the session state. Requires a reply **Heartbeat** message with properly filled TestReqID (112) field.
- **Heartbeat** – used to control session connection state.
- **Reject** – for administrative message reject.

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## 4. Messages Format

All FIX messages, either administrative or business, require standard header and trailer components.

### 4.1. Standard Header Component

| Tag | Name            | FIX Type         | Req | Description                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----|-----------------|------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8   | BeginString     | String(7)        | Y   | FIX Version for session, i.e. 'FIX.4.4'                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9   | BodyLength      | Int(6)           | Y   | Number of bytes in the message body.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 35  | MsgType         | String(2)        | Y   | Identifies FIX message type.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 34  | MsgSeqNum       | Int(9)           | Y   | Sequence number                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 43  | PossDupFlag     | Boolean(1)       | N   | Indicates possible retransmission of message with this sequence number. Must be set to 'Y' for messages sent in response to a Resend Request from Coinbase Derivatives                                                                                                                                                                                                                                                                  |
| 49  | SenderCompID    | String(6)        | Y   | <p>To Exchange:<br/>           Connection identifier assigned by Coinbase Derivatives. This tag consists of 2 subcomponents: SubFirm ID and Session ID<br/>           SubFirm ID is the left-most 3 characters. The next 3 characters represent Session ID. Example: EBR123<br/>           SubFirm ID: EBR<br/>           Session ID: 123</p> <p>From Exchange:<br/>           Value from order entry tag 56-TargetCompID - "COIND"</p> |
| 50  | SenderSubID     | String(18)       | Y   | Unique identifier for the end trader submitting orders. Tag 50 IDs are issued by an exchange clearing member firm (clearing member), their contracted vendors or assignees                                                                                                                                                                                                                                                              |
| 116 | OnBehalfOfSubID | String(18)       | N   | Can be used to identify the end trader submitting orders if Tag 50 is populated by a third party connection provider.                                                                                                                                                                                                                                                                                                                   |
| 52  | SendingTime     | UTCTimestamp(21) | Y   | Timestamp of the message leaving the client system.                                                                                                                                                                                                                                                                                                                                                                                     |
| 56  | TargetCompID    | String(7)        | Y   | <p>To Exchange:<br/>           Identifies entity receiving the message = "COIND"</p> <p>From Exchange<br/>           Connection identifier assigned by Coinbase Derivatives. This tag consists of 2 subcomponents: SubFirm ID and Session ID<br/>           SubFirm ID is the left-most 3 characters. The next 3 characters represent Session ID. Example: EBR123</p>                                                                   |

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|     |                        |                  |   |                                                                                                                                          |
|-----|------------------------|------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|
|     |                        |                  |   | SubFirm ID: EBR<br>Session ID: 123                                                                                                       |
| 57  | TargetSubID            | String(20)       | Y | To Exchange:<br>Identifies destination exchange system - "PROD" or "TEST"<br><br>From Exchange:<br>Echo back Tag57 sent by client system |
| 122 | OrigSendingTime        | UTCTimestamp(21) | C | For resent messages only, contains timestamp from tag 52-SendingTime from original message.                                              |
| 369 | LastMsgSeqNumProcessed | Int(9)           | N | MsgSeqNum (34) of the last message from the client received and processed by the gateway.                                                |

## 4.2. Standard Trailer Component

| Tag | Name     | FIX Type  | Req | Description                                                        |
|-----|----------|-----------|-----|--------------------------------------------------------------------|
| 10  | Checksum | String(3) | Y   | Always last tag in message. Functions as end-of-message delimiter. |

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## 5. Administrative Messages

### 5.1. Logon (MsgType = A)

Initiates connection from client side and approves connection if sent by the exchange. ResetSeqNumFlag allows clients to start a new session (reset session sequence numbers).

The Heartbeat Interval is declared by the session initiator using the HeartBtInt field in the Logon message. The heartbeat interval timer should be reset after every message is transmitted (not just heartbeats). The HeartBtInt value should be agreed upon and specified by the Logon initiator (client) and echoed back by the Logon acceptor. The same HeartBtInt value is used by both sides, the Logon “initiator” and Logon “acceptor”.

| Tag       | Name            | FIX Type | Req | Description                                                                                                                                                                                                                                                                                              |
|-----------|-----------------|----------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |                 |          | Y   | MsgType = “A”                                                                                                                                                                                                                                                                                            |
| 98        | EncryptMethod   | Int      | Y   | “0” - None. Security must be guaranteed on transport level                                                                                                                                                                                                                                               |
| 108       | HeartBtInt      | Int      | Y   | Heartbeat interval in seconds – Allowed values are between 5s and 60s, 30s is recommended                                                                                                                                                                                                                |
| 141       | ResetSeqNumFlag | Boolean  | N   | “N” - use previous sequences<br>“Y” - reset sequences (start new session).<br>If clients cannot recover the previous session they start new session with 1 and set this field to “Y”.<br>The flag should be used with caution especially during trading session as this might lead to business data loss |
| 553       | Username        |          | Y   | Username                                                                                                                                                                                                                                                                                                 |
| 554       | Password        |          | Y   | Password                                                                                                                                                                                                                                                                                                 |
| <Trailer> |                 |          | Y   |                                                                                                                                                                                                                                                                                                          |

### 5.2. Logout (MsgType = 5)

The message initiates or confirms termination of a FIX session.

| Tag       | Name | FIX Type     | Req | Description   |
|-----------|------|--------------|-----|---------------|
| <Header>  |      |              | Y   | MsgType = “5” |
| 58        | Text | String (200) | N   | Logout reason |
| <Trailer> |      |              | Y   |               |

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## 5.3. Resend Request (MsgType = 2)

The message is used to recover an inbound session sequence if a message was missed.

| Tag       | Name       | FIX Type | Req | Description                                                |
|-----------|------------|----------|-----|------------------------------------------------------------|
| <Header>  |            |          | Y   | MsgType = "2"                                              |
| 7         | BeginSeqNo | SeqNum   | Y   | Sequence number of the first message in range to be resent |
| 16        | EndSeqNo   | SeqNum   | Y   | Sequence number of the last message in range to be resent  |
| <Trailer> |            |          | Y   |                                                            |

## 5.4. Sequence Reset (MsgType = 4)

The message may be used in two modes:

- **Reset Mode** forces counterparty to adjust inbound message sequence, GapFillFlag = "N" or omitted.
- **Fill Gap Mode** is used during retransmission of messages missed by a client. Administrative messages and rejected business messages are not to be retransmitted. Instead a Sequence Reset message with GapFillFlag = "Y" must be used.

| Tag       | Name        | FIX Type | Req | Description                                                                                                                                                                               |
|-----------|-------------|----------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |             |          | Y   | MsgType = "4"                                                                                                                                                                             |
| 123       | GapFillFlag | Boolean  | N   | "N" - sequence reset, the counterparty must adjust inbound sequence number. "Y" - indicates the message is used instead of administrative or business messages which are not to be resent |
| 36        | NewSeqNo    | SeqNum   | Y   | New adjusted sequence number                                                                                                                                                              |
| <Trailer> |             |          | Y   |                                                                                                                                                                                           |

## 5.5. Test Request (MsgType = 1)

A Test message is useful for checking sequence numbers or verifying the communication line status. Connection participant received the message is required to reply with Heartbeat message referring to TestReqID of the initial message

| Tag       | Name      | FIX Type    | Req | Description                                              |
|-----------|-----------|-------------|-----|----------------------------------------------------------|
| <Header>  |           |             | Y   | MsgType = "1"                                            |
| 112       | TestReqID | String (20) | Y   | Identifier to be returned in resulting Heartbeat message |
| <Trailer> |           |             | Y   |                                                          |

## 5.6. Heartbeat (MsgType = 0)

Used for replying to the Test request as well as checking the status of communication.

| Tag       | Name      | FIX Type    | Req | Description                                              |
|-----------|-----------|-------------|-----|----------------------------------------------------------|
| <Header>  |           |             | Y   | MsgType = "0"                                            |
| 112       | TestReqID | String (20) | Y   | Identifier to be returned in resulting Heartbeat message |
| <Trailer> |           |             | Y   |                                                          |

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## 5.7. Reject (MsgType = 3)

Issued by a party if an incoming FIX message is unsupported or not properly formed. Rejected messages must not be resent if a Resend Request is received; instead a SequenceReset with GapFillFlag = "Y" is expected.

| Tag       | Name                | FIX Type     | Req | Description                                                    |
|-----------|---------------------|--------------|-----|----------------------------------------------------------------|
| <Header>  |                     |              | Y   | MsgType = "3"                                                  |
| 45        | RefSeqNum           | SeqNum       | Y   | Sequence number of the rejected message                        |
| 58        | Text                | String (200) | Y   | Error message                                                  |
| 373       | SessionRejectReason | Int (2)      | Y   | Reject reason code. See Session Reject Reason Codes (tag 373). |
| <Trailer> |                     |              | Y   |                                                                |

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## 6. Order Management Messages

### 6.1. Overview

The Coinbase Derivatives Order Management FIX API supports the following client-originated messages:

- NewOrderSingle message to submit new single-legged order
- OrderCancelRequest message to cancel submitted single or multi-leg order
- OrderCancel/ReplaceRequest message to replace single order

The FIX line sends Execution Report (MsgType = 8) messages to update the connected FIX client with order events:

- New order placed (ExecType = 0) – sent as a reply and referring to the NewOrderSingle messages to affirm the order is accepted in order book and working. The report is sent for every accepted order even for orders matched immediately.
- Order is cancelled (ExecType = 4) – sent as a reply to OrderCancelRequest message to acknowledge that the cancel is accepted OR an unsolicited cancel from the exchange indicating the original order is no longer working.
- Order is replaced (ExecType = 5) – sent as a reply and referring to OrderCancelReplaceRequest messages to affirm the replace is accepted. After receiving the message the original order is assumed to be replaced
- Order is rejected (ExecType = 8) – sent in case a new or cancel/replace order message is rejected
- Trade (ExecType = F) – sent whenever an order is filled completely or partially
- Done for Day (ExecType = 3) – sent for all currently open orders after the trading day closes
- Expired (ExecType = C) – sent for the expired Day orders

For rejected cancel requests the Coinbase Derivatives API Order Cancel Reject (MsgType = 9)

For application-level rejection of any client request which cannot be reported with a well-formed 'rejected' Execution Report a Business Reject (MsgType = j) is sent

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## 6.2. New Order Single (MsgType = D)

Used to send new single-legged orders for execution.

| Tag      | Name                 | FIX Type             | Req | Description                                                                                                                                                       |
|----------|----------------------|----------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header> |                      |                      | Y   | MsgType="D"                                                                                                                                                       |
| 1        | Account              | String(12)           | Y   | Unique account identifier.                                                                                                                                        |
| 11       | ClOrdID              | String(20)           | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order.                                |
| 38       | OrderQty             | Int(9)               | Y   | Order quantity. Must be a positive integer.                                                                                                                       |
| 40       | OrdType              | Char(1)              | Y   | Order types. See order types (Tag40)<br>Market Order types are not accepted during opening auction                                                                |
| 44       | Price                | Price(20)            | C   | Required for limit or stop-limit orders. Designates the price per single contract unit.                                                                           |
| 54       | Side                 | Char(1)              | Y   | Side of order. See Order Sides (Tag54)                                                                                                                            |
| 55       | Symbol               | String(24)           | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                                                         |
| 167      | SecurityType         | String(6)            | Y   | Indicates security type. See Security Type (Tag167)                                                                                                               |
| 59       | TimeInForce          | Char(1)              | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)<br>For FAK, MinQty can also be specified. |
| 60       | TransactTime         | UTCTimest<br>amp(21) | Y   | Timestamp of the business event of submitting the order (e.g., click the submission button).<br>UTC format YYYYMMDD-HH:MM:SS.sss                                  |
| 77       | PositionEffect       | Char(1)              | N   | Order position effect. See PositionEffect (Tag77)<br>If not specified treated as "D"                                                                              |
| 99       | StopPx               | Price(20)            | C   | Stop price of the order. Required for stop and stop-limit orders.                                                                                                 |
| 110      | MinQty               | Int(9)               | N   | Minimum quantity of an order to be executed. This tag is used only when tag 59-TimeInForce=3 (Fill and Kill).                                                     |
| 528      | OrderCapacity        | Int(1)               | Y   | The capacity of the firm placing the order (Agency/Principal)<br>See OrderCapacity(Tag 528).                                                                      |
| 210      | MaxShow              | Qty(9)               | N   | Display quantity of an order to be shown in the order book at any given time.                                                                                     |
| 432      | ExpireDate           | LocalMktD<br>ate(8)  | C   | YYYYMMDD Required only if tag 59-TimeInForce=Good Till Date (GTD).                                                                                                |
| 1028     | ManualOrderIndicator | Boolean(1)           | Y   | N' indicates the message was generated by automated trading logic. See ManualOrderIndicator (Tag1028)                                                             |

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|                        |                             |           |   |                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------|-----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1031</b>            | CustOrderHandlingInst       | String(1) | Y | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                                                                                                                                       |
| <b>7928</b>            | SelfMatchPreventionID       | Int(8)    | C | This tag is required when market participants elect to use the optional Self Match Prevention functionality.                                                                                                                                                |
| <b>8000</b>            | SelfMatchPreventionStrategy | Char(1)   | N | Indicates a cancel instruction when Self Match Prevention is triggered.<br>To use tag 8000-SelfMatchPreventionStrategy, client systems must include tag 7928-SelfMatchPreventionID on the originating message<br>See SelfMatchPreventionStrategy (tag 8000) |
| <b>582</b>             | CustOrderCapacity           | Char(1)   | Y | Capacity of the customer. Used to indicate the Customer Type Indicator (CTI) Code. See CustOrderCapacity (tag582)                                                                                                                                           |
| <b>&lt;Trailer&gt;</b> |                             |           |   | End of message.                                                                                                                                                                                                                                             |

## LIMIT order example:

BeginString = FIX.4.4  
 BodyLength = ...  
 MsgType = D  
 MsgSeqNum = 3  
 PossDupFlag =  
 SenderCompID = EBR123  
 SenderSubID = smithj  
 SendingTime = 20191202-10:15:41.383  
 TargetCompID = COIND  
 TargetSubID = TEST  
 Account = C123  
 ClOrdID = 314bb362:109f840f9c0  
 Symbol=EUM20  
 SecurityType=FUT  
 OrderQty = 100  
 OrdType = 2  
 Price = 1.10317  
 Side = 1  
 TimeInForce = 0  
 TransactTime = 20171102-10:15:40.383  
 PositionEffect = O  
 CustomerOrFirm = 0  
 OrderCapacity = A  
 ManualOrderIndicator = Y  
 CustOrderHandlingInst = Y  
 SelfMatchPreventionID = 12347565  
 SelfMatchPreventionStrategy = N  
 CTICode = 4  
 CheckSum = ...

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## 6.3. Order Cancel Request (MsgType = F)

A firm may use this message to cancel the remaining quantity of any working single or multi-leg order.

| Tag       | Name                 | FIX Type         | Req | Description                                                                                                                        |
|-----------|----------------------|------------------|-----|------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |                      |                  |     | MsgType="F"                                                                                                                        |
| 1         | Account              | String(12)       | Y   | Unique account identifier.                                                                                                         |
| 11        | ClOrdID              | String(20)       | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order. |
| 37        | OrderID              | String(17)       | Y   | Unique ID assigned by Coinbase Derivatives to identify orders.                                                                     |
| 41        | OrigClOrdID          | String(20)       | N   | Last accepted ClOrdID in the order chain.                                                                                          |
| 54        | Side                 | Char(1)          | Y   | Side of order. See Order Sides (Tag54)                                                                                             |
| 55        | Symbol               | String(24)       | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                          |
| 167       | SecurityType         | String(6)        | Y   | Indicates security type. See Security Type (Tag167)                                                                                |
| 60        | TransactTime         | UTCTimestamp(21) | Y   | Timestamp of the business event of submitting the order (e.g., click the submission button).<br>UTC format YYYYMMDD-HH:MM:SS.sss   |
| 1028      | ManualOrderIndicator | Boolean(1)       | Y   | N' indicates the message was generated by automated trading logic. See ManualOrderIndicator (Tag1028)                              |
| <Trailer> |                      |                  |     | End of message.                                                                                                                    |

### Cancel order request example:

```

BeginString = FIX.4.4
BodyLength = ...
MsgType = F
MsgSeqNum = 6
PossDupFlag =
SenderCompID = EBR123
SenderSubID = smithj
SendingTime = 20191202-10:15:41.383
TargetCompID = COIND
TargetSubID = TEST
Account = C123
ClOrdID = 65780bfc:901n328943d
OrderID = 5038
OrigClOrdID = 71fa0cda:109f847292d Side = 1
Symbol = EUM20
SecurityType = FUT
TransactTime = 20171102-10:22:24.725
ManualOrderIndicator = Y
Checksum = ...

```



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## 6.4. Order Cancel/Replace Request (MsgType = G)

A firm may use this message to replace an order. The following restrictions exist:

- Triggered Stop and Stop-Limit orders cannot be replaced, only canceled
- Time in Force cannot be changed
- If a field cannot be changed, the replacing order gets rejected.

| Tag      | Name           | FIX Type         | Req | Description                                                                                                                                                                                                                                                               |
|----------|----------------|------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header> |                |                  |     | MsgType="G"                                                                                                                                                                                                                                                               |
| 1        | Account        | String(12)       | Y   | Unique account identifier.<br>Note: If this value is changed from the original value submitted in the New Order message, the order will lose priority in the order book.                                                                                                  |
| 11       | ClOrdID        | String(20)       | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order.                                                                                                                                        |
| 37       | OrderID        | String(17)       | Y   | Unique ID assigned by Coinbase Derivatives to identify orders.                                                                                                                                                                                                            |
| 38       | OrderQty       | Int(9)           | Y   | Order quantity. Must be a positive integer.<br>Note: If this value is reduced from the original value submitted in the New Order message, the order will maintain priority in the order book. If this value is increased, the order will lose priority on the order book. |
| 40       | OrdType        | Char(1)          | Y   | Order types. See order types (Tag40)<br>Market Order types are not accepted during opening auction                                                                                                                                                                        |
| 41       | OrigClOrdID    | String(20)       | N   | Last accepted ClOrdID in the order chain.                                                                                                                                                                                                                                 |
| 44       | Price          | Price(20)        | C   | Required for limit or stop-limit orders. Designates the price per single contract unit.                                                                                                                                                                                   |
| 54       | Side           | Char(1)          | Y   | Side of order. See Order Sides (Tag54)                                                                                                                                                                                                                                    |
| 55       | Symbol         | String(24)       | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                                                                                                                                                                 |
| 167      | SecurityType   | String(6)        | N   | Indicates security type. See Security Type (Tag167)                                                                                                                                                                                                                       |
| 59       | TimeInForce    | Char(1)          | N   | Specifies how long the order remains in effect. See Order TimeInForce (Tag59)                                                                                                                                                                                             |
| 60       | TransactTime   | UTCTimestamp(21) | Y   | Timestamp of the business event of submitting the order (e.g., click the submission button).<br>UTC format YYYYMMDD-HH:MM:SS.sss                                                                                                                                          |
| 77       | PositionEffect | Char(1)          | N   | Order position effect. See PositionEffect (Tag77)<br>If not specified treated as "D"                                                                                                                                                                                      |

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|           |                             |                 |   |                                                                                                                                                                                                                                                             |
|-----------|-----------------------------|-----------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 99        | StopPx                      | Price(20)       | C | Stop price of the order. Required for stop and stop-limit orders.<br><br>Note: If this value is changed from the original value submitted in the New Order message, the order will maintain priority in the order book.                                     |
| 528       | OrderCapacity               | Int(1)          | Y | The capacity of the firm placing the order (Agency/Principal)<br>See OrderCapacity(Tag 528).                                                                                                                                                                |
| 210       | MaxShow                     | Qty(9)          | N | Display quantity of an order to be shown in the order book at any given time.<br><br>Note: If this value is changed from the original value submitted in the New Order message, the order will maintain priority in the order book.                         |
| 432       | ExpireDate                  | LocalMktDate(8) | C | YYYYMMDD Required only if tag 59-TimeInForce=Good Till Date (GTD).                                                                                                                                                                                          |
| 1028      | ManualOrderIndicator        | Boolean(1)      | Y | N' indicates the message was generated by automated trading logic. See ManualOrderIndicator (Tag1028)                                                                                                                                                       |
| 1031      | CustOrderHandlingInst       | String(1)       | Y | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                                                                                                                                       |
| 7928      | SelfMatchPreventionID       | Int(8)          | C | This tag is required when market participants elect to use the optional Self Match Prevention functionality.                                                                                                                                                |
| 8000      | SelfMatchPreventionStrategy | Char(1)         | N | Indicates a cancel instruction when Self Match Prevention is triggered.<br>To use tag 8000-SelfMatchPreventionStrategy, client systems must include tag 7928-SelfMatchPreventionID on the originating message<br>See SelfMatchPreventionStrategy (tag 8000) |
| 582       | CustOrderCapacity           | Char(1)         | Y | Capacity of the customer. Used to indicate the Customer Type Indicator (CTI) Code. See CustOrderCapacity (tag582)                                                                                                                                           |
| <Trailer> |                             |                 |   | End of message.                                                                                                                                                                                                                                             |

## Cancel/Replace request of a LIMIT Order example:

BeginString = FIX.4.4  
 BodyLength = ...  
 MsgType = G  
 MsgSeqNum = 15  
 PossDupFlag =  
 SenderCompID = EBR123  
 SenderSubID = smithj  
 SendingTime = 20191202-10:15:41.383  
 TargetCompID = COIND  
 TargetSubID = TEST  
 Account = C123  
 ClOrdID = 71fa0cda:109f847292d:-7ffe

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OrderID = 5095  
OrderQty = 150  
OrdType = 2  
OrigClOrdID = 71fa0cda:109f847292d:-7ffd  
Price = 1.10317  
Side = 1  
Symbol=EUM20  
SecurityType=FUT  
TimeInForce = 2  
TransactTime = 20191102-10:22:21.725  
PositionEffect = O  
OrderCapacity = A  
ManualOrderIndicator = Y  
CustOrderHandlingInst = Y  
SelfMatchPreventionID = 12345678  
SelfMatchPreventionStrategy = N  
CTICode = 4  
Checksum = ...

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## 6.5. Execution Report: Accepted Order (MsgType = 8, ExecType = 0 or 5)

Reports with execution type New (0), Replace (5) represent an acknowledgement of successful acceptance of a New, Cancel/Replace order.

| Tag      | Name         | FIX Type         | Req | Description                                                                                                                                                       |
|----------|--------------|------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header> |              |                  |     | MsgType="8"                                                                                                                                                       |
| 1        | Account      | String(12)       | Y   | Unique account identifier.                                                                                                                                        |
| 11       | ClOrdID      | String(20)       | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order.                                |
| 14       | CumQty       | Int(9)           | Y   | Contains cumulated traded quantity throughout lifespan of an order.                                                                                               |
| 17       | ExecID       | String(40)       | Y   | Unique Exchange assigned execution report message identifier                                                                                                      |
| 37       | OrderID      | String(17)       | Y   | Unique exchange assigned order identifier                                                                                                                         |
| 38       | OrderQty     | Int(9)           | Y   | Order quantity. Must be a positive integer.                                                                                                                       |
| 39       | OrdStatus    | Char(1)          | Y   | Identifies order status as accepted, cancelled or replaced. See OrdStatus (tag 39)                                                                                |
| 40       | OrdType      | Char(1)          | Y   | Order types. See order types (Tag40)<br>Market Order types are not accepted during opening auction                                                                |
| 41       | OrigClOrdID  | String(20)       | N   | Last accepted ClOrdID in the order chain.                                                                                                                         |
| 44       | Price        | Price(20)        | C   | Required for limit or stop-limit orders. Designates the price per single contract unit.                                                                           |
| 54       | Side         | Char(1)          | Y   | Side of order. See Order Sides (Tag54)                                                                                                                            |
| 55       | Symbol       | String(24)       | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                                                         |
| 167      | SecurityType | String(6)        | N   | Indicates security type. See Security Type (Tag167)                                                                                                               |
| 59       | TimeInForce  | Char(1)          | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)<br>For FAK, MinQty can also be specified. |
| 60       | TransactTime | UTCTimestamp(21) | Y   | Timestamp of the business event of submitting the order (e.g., click the submission button).<br>UTC format YYYYMMDD-HH:MM:SS.sss                                  |
| 99       | StopPx       | Price(20)        | C   | Stop price of the order. Required for stop and stop-limit orders.                                                                                                 |
| 110      | MinQty       | Int(9)           | N   | Minimum quantity of an order to be executed. This tag is used only when tag 59-TimeInForce=3 (Fill and Kill).                                                     |
| 150      | ExecType     | Char(1)          | Y   | Indicates type of execution report. See ExecType (tag 150)                                                                                                        |
| 151      | LeavesQty    | int(9)           | Y   | Amount of contract units open for further execution.                                                                                                              |
| 210      | MaxShow      | Qty(9)           | N   | Display quantity of an order to be shown in the order book at any given time.                                                                                     |

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|                        |                             |                 |   |                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------|-----------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>378</b>             | ExecRestatementReason       | Int(3)          | N | Identifies origin of the order elimination. See ExecRestatementReason (tag 378)                                                                                                                                                                             |
| <b>432</b>             | ExpireDate                  | LocalMktDate(8) | C | Contains business date when order expires.                                                                                                                                                                                                                  |
| <b>1028</b>            | ManualOrderIndicator        | Boolean(1)      | Y | N' indicates the message was generated by automated trading logic. See ManualOrderIndicator (Tag1028)                                                                                                                                                       |
| <b>1031</b>            | CustOrderHandlingInst       | String(1)       | Y | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                                                                                                                                       |
| <b>5979</b>            | RequestTime                 | Int(20)         | N | Information carried on a response to convey the time (UTC) when the request was received by the Exchange                                                                                                                                                    |
| <b>7928</b>            | SelfMatchPreventionID       | Int(8)          | C | This tag is required when market participants elect to use the optional Self Match Prevention functionality.                                                                                                                                                |
| <b>8000</b>            | SelfMatchPreventionStrategy | Char(1)         | N | Indicates a cancel instruction when Self Match Prevention is triggered.<br>To use tag 8000-SelfMatchPreventionStrategy, client systems must include tag 7928-SelfMatchPreventionID on the originating message<br>See SelfMatchPreventionStrategy (tag 8000) |
| <b>&lt;Trailer&gt;</b> |                             |                 |   | End of message.                                                                                                                                                                                                                                             |

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## 6.6. Execution Report: Order (MsgType = 8, ExecType = 4)

Reports with execution type Cancelled (4) represent an acknowledgement of successful Cancel, Unsolicited Cancel or Cancel/Replace order.

| Tag      | Name                   | FIX Type         | Req | Description                                                                                                                                                       |
|----------|------------------------|------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header> |                        |                  |     | MsgType="8"                                                                                                                                                       |
| 1        | Account                | String(12)       | Y   | Unique account identifier.                                                                                                                                        |
| 11       | ClOrdID                | String(20)       | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order.                                |
| 14       | CumQty                 | Int(9)           | Y   | Contains cumulated traded quantity throughout lifespan of an order.                                                                                               |
| 17       | ExecID                 | String(40)       | Y   | Unique Exchange assigned execution report message identifier                                                                                                      |
| 37       | OrderID                | String(17)       | Y   | Unique exchange assigned order identifier                                                                                                                         |
| 38       | OrderQty               | Int(9)           | Y   | Order quantity. Must be a positive integer.                                                                                                                       |
| 39       | OrdStatus              | Char(1)          | Y   | Identifies order status as accepted, cancelled or replaced. See OrdStatus (tag 39)                                                                                |
| 40       | OrdType                | Char(1)          | Y   | Order types. See order types (Tag40)<br>Market Order types are not accepted during opening auction                                                                |
| 41       | OrigClOrdID            | String(20)       | N   | Last accepted ClOrdID in the order chain.                                                                                                                         |
| 44       | Price                  | Price(20)        | C   | Required for limit or stop-limit orders. Designates the price per single contract unit.                                                                           |
| 54       | Side                   | Char(1)          | Y   | Side of order. See Order Sides (Tag54)                                                                                                                            |
| 55       | Symbol                 | String(24)       | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                                                         |
| 167      | SecurityType           | String(6)        | N   | Indicates security type. See Security Type (Tag167)                                                                                                               |
| 59       | TimeInForce            | Char(1)          | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)<br>For FAK, MinQty can also be specified. |
| 60       | TransactTime           | UTCTimestamp(21) | Y   | Timestamp of the business event of submitting the order (e.g., click the submission button).<br>UTC format YYYYMMDD-HH:MM:SS.sss                                  |
| 99       | StopPx                 | Price(20)        | C   | Stop price of the order. Required for stop and stop-limit orders.                                                                                                 |
| 150      | ExecType               | Char(1)          | Y   | Indicates type of execution report. See ExecType (tag 150) 150=4 Cancelled                                                                                        |
| 151      | LeavesQty              | int(9)           | Y   | Amount of contract units open for further execution.                                                                                                              |
| 210      | MaxShow                | Qty(9)           | N   | Display quantity of an order to be shown in the order book at any given time.                                                                                     |
| 378      | ExecRestatement Reason | Int(3)           | N   | Identifies origin of the order elimination. See ExecRestatementReason (tag 378)                                                                                   |

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|                        |                             |                 |   |                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------|-----------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>432</b>             | ExpireDate                  | LocalMktDate(8) | C | Contains business date when order expires.                                                                                                                                                                                                                  |
| <b>1028</b>            | ManualOrderIndicator        | Boolean(1)      | Y | N' indicates the message was generated by automated trading logic. See ManualOrderIndicator (Tag1028)                                                                                                                                                       |
| <b>1031</b>            | CustOrderHandlingInst       | String(1)       | Y | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                                                                                                                                       |
| <b>5979</b>            | RequestTime                 | Int(20)         | N | Information carried on a response to convey the time (UTC) when the request was received by the Exchange                                                                                                                                                    |
| <b>7928</b>            | SelfMatchPreventionID       | Int(8)          | C | This tag is required when market participants elect to use the optional Self Match Prevention functionality.                                                                                                                                                |
| <b>8000</b>            | SelfMatchPreventionStrategy | Char(1)         | N | Indicates a cancel instruction when Self Match Prevention is triggered.<br>To use tag 8000-SelfMatchPreventionStrategy, client systems must include tag 7928-SelfMatchPreventionID on the originating message<br>See SelfMatchPreventionStrategy (tag 8000) |
| <b>&lt;Trailer&gt;</b> |                             |                 |   | End of message.                                                                                                                                                                                                                                             |

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## 6.7. Execution Report: Stop Triggered (MsgType = 8, ExecType = L)

Sent when a stop order is triggered.

| Tag      | Name                   | FIX Type         | Req | Description                                                                                                                                                       |
|----------|------------------------|------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header> |                        |                  |     | MsgType="8"                                                                                                                                                       |
| 1        | Account                | String(12)       | Y   | Unique account identifier.                                                                                                                                        |
| 11       | ClOrdID                | String(20)       | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order.                                |
| 14       | CumQty                 | Int(9)           | Y   | Contains cumulated traded quantity throughout lifespan of an order.                                                                                               |
| 17       | ExecID                 | String(40)       | Y   | Unique Exchange assigned execution report message identifier                                                                                                      |
| 37       | OrderID                | String(17)       | Y   | Unique exchange assigned order identifier                                                                                                                         |
| 38       | OrderQty               | Int(9)           | Y   | Order quantity. Must be a positive integer.                                                                                                                       |
| 39       | OrdStatus              | Char(1)          | Y   | Identifies order status as accepted, cancelled or replaced. See OrdStatus (tag 39)                                                                                |
| 40       | OrdType                | Char(1)          | Y   | Order types. See order types (Tag40)<br>Market Order types are not accepted during opening auction                                                                |
| 41       | OrigClOrdID            | String(20)       | N   | Last accepted ClOrdID in the order chain.                                                                                                                         |
| 44       | Price                  | Price(20)        | C   | Required for limit or stop-limit orders. Designates the price per single contract unit.                                                                           |
| 54       | Side                   | Char(1)          | Y   | Side of order. See Order Sides (Tag54)                                                                                                                            |
| 55       | Symbol                 | String(20)       | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                                                         |
| 167      | SecurityType           | String(6)        | N   | Indicates security type. See Security Type (Tag167)                                                                                                               |
| 59       | TimeInForce            | Char(1)          | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)<br>For FAK, MinQty can also be specified. |
| 60       | TransactTime           | UTCTimestamp(21) | Y   | Timestamp of the business event of submitting the order (e.g., click the submission button).<br>UTC format YYYYMMDD-HH:MM:SS.sss                                  |
| 99       | StopPx                 | Price(20)        | C   | Stop price of the order. Required for stop and stop-limit orders.                                                                                                 |
| 150      | ExecType               | Char(1)          | Y   | Indicates type of execution report. See ExecType (tag 150)                                                                                                        |
| 151      | LeavesQty              | int(9)           | Y   | Amount of contract units open for further execution.                                                                                                              |
| 210      | MaxShow                | Qty(9)           | N   | Display quantity of an order to be shown in the order book at any given time.                                                                                     |
| 378      | ExecRestatement Reason | Int(3)           | N   | Identifies origin of the order elimination. See ExecRestatementReason (tag 378)                                                                                   |
| 432      | ExpireDate             | LocalMktDate(8)  | C   | Contains business date when order expires.                                                                                                                        |

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|                        |                             |            |   |                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------|------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1028</b>            | ManualOrderIndicator        | Boolean(1) | Y | N' indicates the message was generated by automated trading logic. See ManualOrderIndicator (Tag1028)                                                                                                                                                       |
| <b>1031</b>            | CustOrderHandlingInst       | String(1)  | Y | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                                                                                                                                       |
| <b>5979</b>            | RequestTime                 | Int(20)    | N | Information carried on a response to convey the time (UTC) when the request was received by the Exchange                                                                                                                                                    |
| <b>7928</b>            | SelfMatchPreventionID       | Int(8)     | C | This tag is required when market participants elect to use the optional Self Match Prevention functionality.                                                                                                                                                |
| <b>8000</b>            | SelfMatchPreventionStrategy | Char(1)    | N | Indicates a cancel instruction when Self Match Prevention is triggered.<br>To use tag 8000-SelfMatchPreventionStrategy, client systems must include tag 7928-SelfMatchPreventionID on the originating message<br>See SelfMatchPreventionStrategy (tag 8000) |
| <b>&lt;Trailer&gt;</b> |                             |            |   | End of message.                                                                                                                                                                                                                                             |

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## 6.8. Execution Report: Trade (MsgType = 8, ExecType = F)

Sent by the Coinbase Derivatives system to report order fill

| Tag      | Name         | FIX Type    | Req | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|--------------|-------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header> |              |             |     | MsgType=8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1        | Account      | String(12)  | Y   | Unique account identifier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 11       | ClOrdID      | String(20)  | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 14       | CumQty       | Int(9)      | Y   | Contains cumulated traded quantity throughout lifespan of an order.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 17       | ExecID       | String(40)  | Y   | Unique exchange assigned identifier of the execution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 880      | TrdMatchID   | String (20) | Y   | Unique exchange identifier to identify both sides of a match                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 31       | LastPx       | Price(20)   | Y   | Price at which order was filled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 32       | LastQty      | Int(9)      | Y   | Quantity filled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 37       | OrderID      | String(17)  | Y   | Unique exchange assigned order identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 38       | OrderQty     | Int(9)      | C   | Quantity of order.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 39       | OrdStatus    | Char(1)     | Y   | Indicates order status. See OrderStatus (tag 39)<br>"1" - Partial Fill<br>"2" - Complete Fill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 40       | OrdType      | Char(1)     | Y   | Order types. See order types (Tag40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 41       | OrigClOrdID  | String(20)  | N   | Last accepted ClOrdID in the order chain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 44       | Price        | Price(20)   | C   | Price per single contract unit.<br>All Execution Report messages sent in response to Market orders (with protection) and Stop orders (with protection) will include tag 44-Price populated with the Protection Price Limit (best available price +/- the protection points).<br>If the order is not completely filled, the remaining Open Quantity will rest on the order book at the Protection Price Limit.<br>Note: For spread trade Execution Reports, this tag is sent in the Execution Report – Fill Notice (35=8, 39=1 or 2) for the spread only and not the legs of the spread. |
| 6        | AvgPx        | Price(20)   | C   | Calculated average price of all fills on this order                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 54       | Side         | Char(1)     | Y   | Side of order. See Order Sides (Tag54)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 55       | Symbol       | String(24)  | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 167      | SecurityType | String(6)   | N   | Indicates security type. See Security Type (Tag167)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 59       | TimeInForce  | Char(1)     | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|           |                       |                  |   |                                                                                                                                              |
|-----------|-----------------------|------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|
| 60        | TransactTime          | UTCTimeStamp(21) | Y | UTC format YYYYMMDD-HH:MM:SS.sss                                                                                                             |
| 75        | TradeDate             | LocalMktDate(8)  | Y | Indicates date of trade reference in this message in YYYYMMDD format.                                                                        |
| 150       | ExecType              | Char(1)          | Y | Indicates type of execution report. See ExecType (tag 150). Always "F" for Trade                                                             |
| 151       | LeavesQty             | Int(9)           | C | Amount of contracts remaining for execution after this fill.                                                                                 |
| 393       | TotalNumSecurities    | Int(3)           | N | Contains the number of Leg Fill Acknowledgment messages sent with the spread summary. Sent for spread fill message only.                     |
| 442       | MultiLegReportingType | Int(1)           | N | Indicates if acknowledgment message is sent for an outright, leg of spread or spread. See MultiLegReporting (tag 442)                        |
| 527       | SecondaryExecID       | String(40)       | C | Exchange assigned unique identifier; can be used to link spread summary fill notice with leg fill notice and trade cancel messages.          |
| 1028      | ManualOrderIndicator  | Boolean(1)       | Y | Value sent on inbound message from client system indicating the order as sent manually or generated by automated trading logic.              |
| 1031      | CustOrderHandlingInst | String(1)        | Y | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                        |
| 1057      | AggressorIndicator    | Char(1)          | C | Indicates if order was incoming or resting for the match event. See AggressorIndicator (tag 1057)                                            |
| 5979      | RequestTime           | Int(20)          | N | Information carried on a response to convey the time (UTC) when the request was received by Exchange<br><br>UTC format YYYYMMDD-HH:MM:SS.sss |
| <Trailer> |                       |                  |   | End of message.                                                                                                                              |

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## 6.9. Execution Report: Order is Rejected (MsgType=8, ExecType = 8)

Message notifies client system of a rejected order.

| Tag       | Name                  | FIX Type         | Req | Description                                                                                                                        |
|-----------|-----------------------|------------------|-----|------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |                       |                  |     | MsgType=8                                                                                                                          |
| 1         | Account               | String(12)       | Y   | Unique account identifier.                                                                                                         |
| 11        | ClOrdID               | String(20)       | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order. |
| 14        | CumQty                | Int(9)           | Y   | Contains cumulated traded quantity throughout lifespan of an order.                                                                |
| 17        | ExecID                | String(40)       | Y   | Unique exchange assigned identifier of the execution                                                                               |
| 37        | OrderID               | String(17)       | Y   | Unique exchange assigned order identifier                                                                                          |
| 38        | OrderQty              | Int(9)           | C   | Quantity of order.                                                                                                                 |
| 39        | OrdStatus             | Char(1)          | Y   | Indicates order status. See OrderStatus (Tag39) "8"=Rejected                                                                       |
| 40        | OrdType               | Char(1)          | Y   | Order types. See order types (Tag40)                                                                                               |
| 41        | OrigClOrdID           | String(20)       | N   | Last accepted ClOrdID in the order chain.                                                                                          |
| 44        | Price                 | Price(20)        | C   | Price per single contract unit.                                                                                                    |
| 54        | Side                  | Char(1)          | Y   | Side of order. See Order Sides (Tag54)                                                                                             |
| 55        | Symbol                | String(20)       | Y   | This tag contains the details of the instrument. Future Example: EUM20                                                             |
| 167       | SecurityType          | String(6)        | N   | Indicates security type. See Security Type (Tag167)                                                                                |
| 58        | Text                  | String(200)      | N   | Text explanation of error code. See OrdRejReason (tag 103)                                                                         |
| 59        | TimeInForce           | Char(1)          | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)            |
| 60        | TransactTime          | UTCTimeStamp(21) | Y   | UTC format YYYYMMDD-HH:MM:SS.sss                                                                                                   |
| 75        | TradeDate             | LocalMktDate(8)  | Y   | Indicates date of trade reference in this message in YYYYMMDD format.                                                              |
| 103       | OrdRejReason          | Int(6)           | N   | Error code. See OrdRejReason (tag 103)                                                                                             |
| 150       | ExecType              | Char(1)          | Y   | Type of execution report. See ExecType(tag 150) 8=Reject Ack                                                                       |
| 151       | LeavesQty             | Int(9)           | C   | Amount of contracts remaining for execution. Always 0 for reject                                                                   |
| 1028      | ManualOrderIndicator  | Boolean(1)       | Y   | Value sent on inbound message from client system indicating the order as sent manually or generated by automated trading logic.    |
| 1031      | CustOrderHandlingInst | String(1)        | Y   | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                              |
| <Trailer> |                       |                  |     | End of message.                                                                                                                    |

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## 6.10. Execution Report: Done for Day (MsgType = 8, ExecType = 3)

Reports with execution type 'Done for Day' (3) are sent by the exchange to the firms that need the status of their open orders after the trading session is closed.

| Tag       | Name                  | FIX Type         | Req | Description                                                                                                                           |
|-----------|-----------------------|------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |                       |                  |     | MsgType=8                                                                                                                             |
| 1         | Account               | String(12)       | Y   | Unique account identifier.                                                                                                            |
| 11        | ClOrdID               | String(20)       | Y   | Unique order identifier assigned by client system. Client system must maintain uniqueness of this value for the life of the order.    |
| 14        | CumQty                | Int(9)           | Y   | Contains cumulated traded quantity throughout lifespan of an order.                                                                   |
| 17        | ExecID                | String(40)       | Y   | Unique exchange assigned identifier of the execution                                                                                  |
| 37        | OrderID               | String(17)       | Y   | Unique exchange assigned order identifier                                                                                             |
| 38        | OrderQty              | Int(9)           | C   | Quantity of order.                                                                                                                    |
| 39        | OrdStatus             | Char(1)          | Y   | Indicates order status. See OrderStatus (Tag39) "3"=Done for Day                                                                      |
| 40        | OrdType               | Char(1)          | Y   | Order types. See order types (Tag40)                                                                                                  |
| 41        | OrigClOrdID           | String(20)       | N   | Last accepted ClOrdID in the order chain.                                                                                             |
| 44        | Price                 | Price(20)        | C   | Price per single contract unit.                                                                                                       |
| 54        | Side                  | Char(1)          | Y   | Side of order. See Order Sides (Tag54)                                                                                                |
| 55        | Symbol                | String(24)       | Y   | This tag contains the details of the instrument. Future Example: EUM20                                                                |
| 167       | SecurityType          | String(6)        | N   | Indicates security type. See Security Type (Tag167)                                                                                   |
| 59        | TimeInForce           | Char(1)          | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)               |
| 60        | TransactTime          | UTCTimeStamp(21) | Y   | UTC format YYYYMMDD-HH:MM:SS.sss                                                                                                      |
| 75        | TradeDate             | LocalMktDate(8)  | Y   | Indicates date of trade reference in this message in YYYYMMDD format.                                                                 |
| 150       | ExecType              | Char(1)          | Y   | Indicates type of execution report. See ExecType (tag 150). 3="Done for Day"                                                          |
| 151       | LeavesQty             | Int(9)           | C   | Amount of contracts remaining for execution                                                                                           |
| 1028      | ManualOrderIndicator  | Boolean(1)       | Y   | Value sent on inbound message from client system indicating the order as sent manually or generated by automated trading logic.       |
| 1031      | CustOrderHandlingInst | String(1)        | Y   | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                 |
| 5979      | RequestTime           | Int(20)          | N   | Information carried on a response to convey the time (UTC) when the request was received by Exchange UTC format YYYYMMDD-HH:MM:SS.sss |
| <Trailer> |                       |                  |     | End of message.                                                                                                                       |

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## 6.11. Execution Report: Expired (MsgType = 8, ExecType = C)

Reports with execution type Expired (C) are sent by the exchange to the firms that need to track the expiration of their time-limited orders (such as DAY).

| Tag      | Name                        | FIX Type             | Req | Description                                                                                                                            |
|----------|-----------------------------|----------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------|
| <Header> |                             |                      | Y   | MsgType="8"                                                                                                                            |
| 1        | Account                     | String(12)           | Y   | Unique account identifier.                                                                                                             |
| 11       | ClOrdID                     | String(20)           | Y   | Unique order identifier assigned by client system. Client system must maintain the uniqueness of this value for the life of the order. |
| 14       | CumQty                      | Int(9)               | Y   | Contains cumulated traded quantity throughout the lifespan of an order.                                                                |
| 17       | ExecID                      | String(40)           | Y   | Unique exchange assigned identifier of the execution                                                                                   |
| 37       | OrderID                     | String(17)           | Y   | Unique exchange assigned order identifier                                                                                              |
| 38       | OrderQty                    | Int(9)               | Y   | Order quantity submitted by client.                                                                                                    |
| 39       | OrdStatus                   | Char(1)              | Y   | Indicates order status. See OrdStatus (tag 39). "C" = Expired                                                                          |
| 40       | OrdType                     | Char(1)              | Y   | Order types. See order types (Tag40)                                                                                                   |
| 41       | OrigClOrdID                 | String(20)           | N   | Last accepted ClOrdID in the order chain.                                                                                              |
| 44       | Price                       | Price(20)            | N   | Price per unit of quantity.                                                                                                            |
| 54       | Side                        | Char(1)              | Y   | Side of order. See Order Sides (Tag54)                                                                                                 |
| 55       | Symbol                      | String(20)           | Y   | This tag contains the details of the instrument. Future Example: EUM20                                                                 |
| 167      | SecurityType                | String(6)            | N   | Indicates security type. See Security Type (Tag167)                                                                                    |
| 59       | TimeInForce                 | Char(1)              | N   | Specifies how long the order remains in effect. If not present, DAY order is the default. See Order TimeInForce (Tag59)                |
| 60       | TransactTime                | UTCTimest<br>amp(21) | N   | UTC format YYYYMMDD-HH:MM:SS.sss<br>e.g. 20091216-19:21:41.109                                                                         |
| 110      | MinQty                      | Int(9)               | C   | Sent in the Order Elimination message if the originating order was an FAK/FOK/MinQty that contained tag 110-MinQty.                    |
| 150      | ExecType                    | Char(1)              | Y   | Indicates type of execution report. See ExecType (tag 150). Always "C" = Elimination Ack                                               |
| 151      | LeavesQty                   | Int(9)               | Y   | Quantity available for further execution. Always 0                                                                                     |
| 1028     | ManualOrderIndicator        | Boolean(1)           | Y   | Value sent on inbound message from client system indicating the order as sent manually or generated by automated trading logic.        |
| 1031     | CustOrderHandlingInst       | String(1)            | Y   | Defines source of original order. See CustOrderHandlingInst (tag1031)                                                                  |
| 7928     | SelfMatchPreventionID       | Int(8)               | N   | This tag is required when market participants elect to use the optional Self Match Prevention functionality.                           |
| 8000     | SelfMatchPreventionStrategy | Char(1)              | N   | This tag is required when market participants elect to use the optional Self Match Prevention functionality.                           |

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|           |             |         |   |                                                                                                                                          |
|-----------|-------------|---------|---|------------------------------------------------------------------------------------------------------------------------------------------|
| 5979      | RequestTime | Int(20) | N | Information carried on a response to convey the time (UTC) when the request was received by Exchange<br>UTC format YYYYMMDD-HH:MM:SS.sss |
| <Trailer> |             |         |   | End of message.                                                                                                                          |

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## 6.12. Order Cancel Reject (MsgType = 9)

Sent by the Coinbase Derivatives system to notify the client on rejection of an Order Cancel Request OR Order Cancel/Replace.

| Tag       | Name                    | FIX Type             | Req | Description                                                                                                                                                                                                                           |
|-----------|-------------------------|----------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |                         |                      |     | MsgType="9"                                                                                                                                                                                                                           |
| 1         | Account                 | String(12)           | Y   | Unique account identifier                                                                                                                                                                                                             |
| 11        | ClOrdID                 | String(20)           | Y   | Unique order identifier assigned by client system. Client system must maintain the uniqueness of this value for the life of the order.                                                                                                |
| 37        | OrderID                 | String(17)           | Y   | Unique exchange assigned order identifier                                                                                                                                                                                             |
| 39        | OrdStatus               | Char(1)              | Y   | Indicates order status. See OrdStatus (tag 39).<br>"U" = Undefined                                                                                                                                                                    |
| 41        | OrigClOrdID             | String(20)           | N   | Last accepted ClOrdID in the order chain. If a value is included in tag 41 on order entry, the same value is returned. If not, the tag will contain '0'.                                                                              |
| 55        | Symbol                  | String(24)           | Y   | This tag contains the details of the instrument.<br>Future Example: EUM20                                                                                                                                                             |
| 58        | Text                    | String(200)          | N   | Text reason order cancel was rejected.                                                                                                                                                                                                |
| 60        | TransactTime            | UTCTimest<br>amp(21) | Y   | UTC format YYYYMMDD-HH:MM:SS.sss<br>e.g. 20091216-19:21:41.109                                                                                                                                                                        |
| 102       | CXlRejReason            | Int(6)               | N   | Cancel reject reason. See CXRejReason (tag 102)                                                                                                                                                                                       |
| 434       | CancelRejRespon<br>seTo | Char(1)              | Y   | Identifies the type of request reject message is in response to.<br>1=Order Cancel Request<br>2=Order Cancel/Replace Request                                                                                                          |
| 5979      | RequestTime             | Int(20)              | N   | Information carried on a response to convey the time (UTC) when the request was received by the MSGW application. UTC Timestamps are sent in number of nanoseconds since Unix epoch synced to a master clock to microsecond accuracy. |
| <Trailer> |                         |                      |     | End of message.                                                                                                                                                                                                                       |

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## 6.13. Last ExecId Request (MsgType = F1)

Send this message to request the execId of the last (most recent) event sent by the trading system to this user/session. Can be used to determine if the client missed any events while disconnected. Also serves as a means of validating that the trading system is available and accepting requests.

| Tag       | Name    | FIX Type  | Req | Description                          |
|-----------|---------|-----------|-----|--------------------------------------|
| <Header>  |         |           |     | MsgType="F1"                         |
| 35        | MsgType | String(2) | Y   | Header tag identifying message type. |
| <Trailer> |         |           |     | End of message.                      |

## 6.14. Last ExecId (MsgType = F2)

Sent in response to LastExecIdRequest.

| Tag       | Name      | FIX Type   | Req | Description                             |
|-----------|-----------|------------|-----|-----------------------------------------|
| <Header>  |           |            |     | MsgType="F2"                            |
| 35        | MsgType   | String(2)  | Y   | Header tag identifying message type.    |
| 45        | RefSeqNum | SeqNum(10) | Y   | MsgSeqNum <34> of request message       |
| 17        | ExecID    | String(40) | Y   | ExecId of last event sent to this user. |
| <Trailer> |           |            |     | End of message.                         |

## 6.15. Event Resend Request (MsgType = F3)

Send this message to request order events in the specified range be resent. Since this is an application-level request, resent messages will have new sequence numbers and PossDupFlag (tag 43) will not be set; rather, PossResend (tag 97) will be set. Rejects (and any other message that does not contain an execId) will not be resent.

| Tag       | Name        | FIX Type   | Req | Description                                                                                  |
|-----------|-------------|------------|-----|----------------------------------------------------------------------------------------------|
| <Header>  |             |            |     | MsgType="F3"                                                                                 |
| 35        | MsgType     | String(2)  | Y   | Header tag identifying message type.                                                         |
| 22003     | BeginExecId | String(40) | Y   | Lower bound (inclusive) of execIds.                                                          |
| 22004     | EndExecId   | String(40) | N   | Upper bound (inclusive) of execIds.<br>Resend all events up the last known event if not set. |
| <Trailer> |             |            |     | End of message.                                                                              |

## 6.16. Event Resend Complete (MsgType = F4)

Sent in response to a successful Event Resend Request following all resent events.

| Tag       | Name             | FIX Type   | Req | Description                          |
|-----------|------------------|------------|-----|--------------------------------------|
| <Header>  |                  |            |     | MsgType="F4"                         |
| 35        | MsgType          | String(2)  | Y   | Header tag identifying message type. |
| 45        | RefSeqNum        | SeqNum(10) | Y   | MsgSeqNum <34> of request message    |
| 22005     | ResentEventCount | Int        | Y   | Total number of events resent.       |
| <Trailer> |                  |            |     | End of message.                      |

## 6.17. Event Resend Reject (MsgType = F5)

Sent in response to an Event Resend Request if the request cannot be fulfilled.

| Tag       | Name                     | FIX Type    | Req | Description                                                                                                                                                                       |
|-----------|--------------------------|-------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |                          |             |     | MsgType="F5"                                                                                                                                                                      |
| 35        | MsgType                  | String(2)   | Y   | Header tag identifying message type.                                                                                                                                              |
| 45        | RefSeqNum                | SeqNum(10)  | Y   | MsgSeqNum <34> of request message                                                                                                                                                 |
| 22006     | EventResendReject Reason | Int         | Y   | Code identifying reject reason:<br>1 = BEGIN_EXEC_ID_TOO_SMALL<br>2 = END_EXEC_ID_TOO_LARGE<br>3 = RESEND_ALREADY_IN_PROGRESS<br>4 = TOO_MANY_RESEND_REQUESTS<br>5 = SERVER_ERROR |
| 58        | Text                     | String(200) | N   | Free format text string.                                                                                                                                                          |
| <Trailer> |                          |             |     | End of message.                                                                                                                                                                   |

## 6.18. Business Reject (MsgType = j)

Sent by the Coinbase Derivatives system to notify the client of application-level rejection of client request which passed session-level validation but has business validation issues and cannot be reported with a well-formed Execution Report with Rejected status.

| Tag       | Name                 | FIX Type    | Req | Description                                                                                                                                                                                                                                                 |
|-----------|----------------------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Header>  |                      |             |     | MsgType="8"                                                                                                                                                                                                                                                 |
| 35        | MsgType              | String(2)   | Y   | Header tag identifying message type.                                                                                                                                                                                                                        |
| 45        | RefSeqNum            | SeqNum(10)  | Y   | MsgSeqNum <34> of rejected message                                                                                                                                                                                                                          |
| 58        | Text                 | String(200) | N   | Free format text string.                                                                                                                                                                                                                                    |
| 379       | BusinessRejectRefID  | String(32)  | N   | Value of business-level "ID" of the message being rejected.                                                                                                                                                                                                 |
| 380       | BusinessRejectReason | Int(2)      | Y   | Code identifying reject reason<br>0=Other<br>1=Unknown ID<br>2=Unknown security<br>3=Unsupported message type<br>4=Application not available<br>5=Conditionally required field missing<br>6=Not authorized<br>7=Delivery to firm not available at this time |
| <Trailer> |                      |             |     | End of message.                                                                                                                                                                                                                                             |

## Market Data

### 7. Security Definition Messages

#### 7.1. Security Definition (MsgType = d)

| Tag  | Name                  | FIX Type     | Req | Description                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|-----------------------|--------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35   | MsgType               | String       | Y   | 35=d: Sent when contract states are updated                                                                                                                                                                                                                                                                                                                                                                                                         |
| 980  | SecurityUpdate Action | Char         | Y   | Included in the message on the Incremental feed when a mid-week deletion or modification (i.e. extension) occurs.<br>980=A: Add represents Security Definition messages that are:<br>Newly added during the current week<br>Disseminated during the Sunday Startup period<br>Resent by the system during the week<br>980=M: Modify represents modifications to a Security Definition<br>980=D: Delete represents deletions of a Security Definition |
| 779  | LastUpdateTime        | UTCTimestamp | Y   | Timestamp of when the instrument was last added, modified or deleted. UTC Timestamps are sent in number of nanoseconds since Unix epoch synced to a master clock to microsecond accuracy.                                                                                                                                                                                                                                                           |
| 55   | Symbol                | String       | Y   | Instrument Name or Symbol.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 167  | SecurityType          | String       | C   | See Security Type (Tag167)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 762  | SecuritySubType       | String       | C   | See SecuritySubType (Tag762)<br>Represents spread strategy if applicable                                                                                                                                                                                                                                                                                                                                                                            |
| 107  | SecurityDesc          | String       | Y   | Instrument Name                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 200  | MaturityMonthYear     | Month-year   | C   | This field provides the calendar month reflected in the instrument symbol (tag 55-Symbol in MDP 3.0; tag 107-SecurityDesc). Format YYYYMM (e.g., 201912)<br>For futures spreads and options spreads, this field contains the first leg's calendar month reflected in the instrument symbol.                                                                                                                                                         |
| 6937 | Asset                 | String       | Y   | String field that indicates the underlying asset code (Product Code). Example: EU (Euro/USD FX Rate).<br>Product Code was previously communicated in tag 1151-SecurityGroup.                                                                                                                                                                                                                                                                        |
| 461  | CFI Code              | String       | Y   | ISO standard instrument categorization code.                                                                                                                                                                                                                                                                                                                                                                                                        |
| 462  | UnderlyingProduct     | Int          | Y   | 2=Commodity/Agriculture<br>4=Currency<br>5=Equity<br>12=Other<br>14=Interest Rate<br>15=FX Cash<br>16=Energy<br>17=Metals<br>99=Crypto                                                                                                                                                                                                                                                                                                              |

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|       |                         |            |   |                                                                                                                                                                                                                                                                                                                                                                            |
|-------|-------------------------|------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1682  | MDSecurityTradingStatus | Int        | N | 21 = Pre Open<br>27 = Pre Open (No Cancel)<br>17 = Ready to Trade<br>2 = Trading Halt<br>4 = Close<br>99 = Pause<br>18 = Expired<br>98 = Forbidden                                                                                                                                                                                                                         |
| 15    | Currency                | Currency   | Y | Identifies currency used for price.                                                                                                                                                                                                                                                                                                                                        |
| 120   | SettlCurrency           | Currency   | C | Identifies currency used for settlement price, if different from trade price currency.                                                                                                                                                                                                                                                                                     |
| 562   | MinTradeVol             | Qty        | Y | The minimum trading quantity for a security.                                                                                                                                                                                                                                                                                                                               |
| 1140  | MaxTradeVol             | Qty        | Y | The maximum trading quantity for a security.                                                                                                                                                                                                                                                                                                                               |
| 969   | MinPriceIncrement       | Float      | Y | Minimum constant tick for the instrument.                                                                                                                                                                                                                                                                                                                                  |
| 864   | NoEvents                | NuminGroup | Y | Number of repeating EventType entries.<br>Indicates number of repeating groups and length of each repeating group in the message.                                                                                                                                                                                                                                          |
| →865  | EventType               | Int        | Y | Code to represent the type of event.<br>5=Activation<br>7=Last eligible trade date                                                                                                                                                                                                                                                                                         |
| →1145 | EventTime               | String     | Y | Trading Session Date of event. Format yyyyMMdd                                                                                                                                                                                                                                                                                                                             |
| 996   | UnitOfMeasure           | String     | C | Unit of measure for the product's original contract size. This will be populated for all products listed on Coinbase Derivatives.<br>USD unit of measure can be in U.S. dollars or cents.                                                                                                                                                                                  |
| 1147  | UnitOfMeasureQty        | Float      | C | This field contains the contract size for each instrument. Use in combination with tag 996-UnitofMeasure.<br>For example:<br>Euro futures<br>-Tag 1147=10000<br>-Tag 996=Euro<br>For variable-quantity products, the contract size reflects the original contract size, before the application of the multiplier                                                           |
| 1149  | HighLimitPrice          | Price      | N | Allowable high limit price for the trading day.<br>A key parameter in validating order price.<br>Used as the upper band for validating order prices. Orders submitted with prices above the upper limit will be rejected.<br>This price protects off prices for quoting.<br>Note: This value is indicative only and may not reflect the actual real-time high limit price. |
| 1148  | LowLimitPrice           | Price      | N | Allowable low limit price for the trading day.<br>A key parameter in validating order price.                                                                                                                                                                                                                                                                               |

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|              |                      |              |   |                                                                                                                                                                                                                                                                          |
|--------------|----------------------|--------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                      |              |   | Used as the lower band for validating order prices. Orders submitted with prices below the lower limit will be rejected.<br>This price protects off prices for quoting.<br>Note: This value is indicative only and may not reflect the actual real-time low limit price. |
| <b>1143</b>  | MaxPriceVariation    | Price        | C | Differential value for price banding.                                                                                                                                                                                                                                    |
| <b>5796</b>  | TradingReferenceDate | LocalMktDate | C | Date of current trading session                                                                                                                                                                                                                                          |
| <b>734</b>   | PriorSettlPrice      | Price        | C | Prior Settlement Price (Settlement price of the prior trading session day)                                                                                                                                                                                               |
| <b>730</b>   | SettlPrice           | Price        | C | Settlement Price                                                                                                                                                                                                                                                         |
| <b>731</b>   | SettlPriceType       | Int          | C | Type of settlement price. The value of 2 (Theoretical) will be sent during the initial seeding of a new contract. This tag is sent in conjunction with Tag 734 (PriorSettlPrice)                                                                                         |
| <b>555</b>   | NoLegs               | NuminGroup   | N | Number of legs that make up security (for spreads)                                                                                                                                                                                                                       |
| → <b>600</b> | LegSymbol            | String       | N | Symbol of underlying leg                                                                                                                                                                                                                                                 |
| → <b>620</b> | LegSecurityDesc      | String       | N | Name of underlying leg                                                                                                                                                                                                                                                   |
| → <b>609</b> | LegSecurityType      | String       | N | Security type of underlying leg                                                                                                                                                                                                                                          |
| → <b>624</b> | LegSide              | Char(1)      | N | Side of underlying leg                                                                                                                                                                                                                                                   |
| → <b>608</b> | LegCFIcode           | String       | N | ISO standard instrument categorization code of underlying leg                                                                                                                                                                                                            |
| → <b>556</b> | LegCurrency          | Currency     | N | Currency of underlying leg                                                                                                                                                                                                                                               |

## 7.2. SecurityListRequest

| Tag | Name                    | FIX Type | Req | Description                                         |
|-----|-------------------------|----------|-----|-----------------------------------------------------|
| 35  | MsgType                 | String   | Y   | 35=x Full instrument contact state snapshot request |
| 320 | SecurityReqID           | String   | Y   | Unique security request ID                          |
| 559 | SecurityListRequestType | String   | Y   | 0 = Symbol                                          |
| 55  | Symbol                  | String   | Y   | 55=NA get all securities                            |
| 167 | SecurityType            | String   | C   | See Security Type (Tag167)<br>Not required if 55=NA |

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## 7.3. SecurityList

| Tag  | Name                  | FIX Type   | Req | Description                                                                                                                                                                                                                                                                                 |
|------|-----------------------|------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35   | MsgType               | String     | Y   | 35=y                                                                                                                                                                                                                                                                                        |
| 320  | SecurityReqID         | String     | Y   | Unique security request ID                                                                                                                                                                                                                                                                  |
| 322  | SecurityResponseID    | String     | Y   | Unique response ID                                                                                                                                                                                                                                                                          |
| 560  | SecurityRequestResult | String     | Y   | 0 = ValidReq<br>1 = InvalidReq                                                                                                                                                                                                                                                              |
| 393  | TotNoRelatedSym       | int        | N   | Total number of securities to be returned for this request                                                                                                                                                                                                                                  |
| 893  | LastFragment          | String     | N   | N = Not Last message<br>Y = Last Message for SecurityListRequest                                                                                                                                                                                                                            |
| 146  | NoRelatedSym          | int        | Y   | number of securities in the list                                                                                                                                                                                                                                                            |
| 55   | Symbol                | String     | Y   | instrument code                                                                                                                                                                                                                                                                             |
| 167  | SecurityType          | String     | Y   | See Security Type (Tag167)                                                                                                                                                                                                                                                                  |
| 762  | SecuritySubType       | String     | C   | See SecuritySubType (Tag762)<br>Represents spread strategy if applicable                                                                                                                                                                                                                    |
| 107  | SecurityDesc          | String     | Y   | Instrument Name                                                                                                                                                                                                                                                                             |
| 200  | MaturityMonthYear     | Month-year | C   | This field provides the calendar month reflected in the instrument symbol (tag 55-Symbol in MDP 3.0; tag 107-SecurityDesc). Format YYYYMM (e.g., 201912)<br>For futures spreads and options spreads, this field contains the first leg's calendar month reflected in the instrument symbol. |
| 6937 | Asset                 | String     | Y   | String field that indicates the underlying asset code (Product Code).<br>Example: EU (Euro/USD FX Rate)<br>Product Code was previously communicated in tag 1151-SecurityGroup.                                                                                                              |
| 461  | CFICode               | String     | Y   | ISO standard instrument categorization code.                                                                                                                                                                                                                                                |
| 462  | UnderlyingProduct     | Int        | Y   | 2=Commodity/Agriculture<br>4=Currency<br>5=Equity<br>12=Other<br>14=Interest Rate<br>15=FX Cash<br>16=Energy<br>17=Metals<br>99=Crypto                                                                                                                                                      |

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|               |                         |            |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|-------------------------|------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1682</b>   | MDSecurityTradingStatus | Int        | N | 21 = Pre Open<br>27 = Pre Open (No Cancel)<br>17 = Ready to Trade<br>2 = Trading Halt<br>4 = Close<br>99 = Pause<br>18 = Expired<br>98 = Forbidden                                                                                                                                                                                                                                                                                                                                             |
| <b>15</b>     | Currency                | Currency   | Y | Identifies currency used for price.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>120</b>    | SettleCurrency          | Currency   | C | Identifies currency used for settlement price, if different from trade price currency.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>562</b>    | MinTradeVol             | Qty        | Y | The minimum trading quantity for a security.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>1140</b>   | MaxTradeVol             | Qty        | Y | The maximum trading quantity for a security.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>969</b>    | MinPriceIncrement       | Float      | Y | Minimum constant tick for the instrument.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>864</b>    | NoEvents                | NuminGroup | Y | Number of repeating EventType entries.<br>Indicates number of repeating groups and length of each repeating group in the message.                                                                                                                                                                                                                                                                                                                                                              |
| → <b>865</b>  | EventType               | Int        | Y | Code to represent the type of event.<br>5=Activation<br>7=Last eligible trade date                                                                                                                                                                                                                                                                                                                                                                                                             |
| → <b>1145</b> | EventTime               | String     | Y | Trading Session Date of event. Format yyyyMMdd                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>231</b>    | ContractMultiplier      | Int        | C | Number of deliverable units per instrument, e.g., peak days in expiration month or number of calendar days in expiration month.<br>The market data Security Definition (tag 35-MsgType=d) message for the variable quantity spread will be populated with the value '0' for tag 231-ContractMultiplier.<br>The market data Security Definition (tag 35-MsgType=d) message is populated with values for the outright legs for tag 231-ContractMultiplier and customers must extract this value. |
| <b>996</b>    | UnitOfMeasure           | String     | C | Unit of measure for the product's original contract size. This will be populated for all products listed on Coinbase Derivatives.<br>USD unit of measure can be in U.S. dollars or cents.                                                                                                                                                                                                                                                                                                      |
| <b>1147</b>   | UnitOfMeasureQty        | Float      | C | This field contains the contract size for each instrument. Use in combination with tag 996-UnitofMeasure.<br>For example:<br>Euro futures<br>-Tag 1147=10000<br>-Tag 996=Euro<br><br>For variable-quantity products, the contract size reflects the original contract size, before the application of the multiplier                                                                                                                                                                           |

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|      |                      |              |   |                                                                                                                                                                                                                                                                                                                                                                            |
|------|----------------------|--------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1149 | HighLimitPrice       | Price        | N | Allowable high limit price for the trading day.<br>A key parameter in validating order price.<br>Used as the upper band for validating order prices. Orders submitted with prices above the upper limit will be rejected.<br>This price protects off prices for quoting.<br>Note: This value is indicative only and may not reflect the actual real-time high limit price. |
| 1148 | LowLimitPrice        | Price        | N | Allowable low limit price for the trading day.<br>A key parameter in validating order price.<br>Used as the lower band for validating order prices. Orders submitted with prices below the lower limit will be rejected.<br>This price protects off prices for quoting.<br>Note: This value is indicative only and may not reflect the actual real-time low limit price.   |
| 1143 | MaxPriceVariation    | Price        | C | Differential value for price banding.                                                                                                                                                                                                                                                                                                                                      |
| 5796 | TradingReferenceDate | LocalMktDate | C | Date of current trading session                                                                                                                                                                                                                                                                                                                                            |
| 734  | PriorSettlPrice      | Price        | C | Prior Settlement Price (Settlement price of the prior trading session day)                                                                                                                                                                                                                                                                                                 |
| 730  | SettlPrice           | Price        | C | Settlement Price                                                                                                                                                                                                                                                                                                                                                           |
| 731  | SettlPriceType       | Int          | C | Type of settlement price. The value of 2 (Theoretical) will be sent during the initial seeding of a new contract. This tag is sent in conjunction with Tag 734 (PriorSettlPrice)                                                                                                                                                                                           |
| 555  | NoLegs               | NuminGroupp  | N | Number of legs that make up security (for spreads)                                                                                                                                                                                                                                                                                                                         |
| →600 | LegSymbol            | String       | N | Symbol of underlying leg                                                                                                                                                                                                                                                                                                                                                   |
| →620 | LegSecurityDesc      | String       | N | Name of underlying leg                                                                                                                                                                                                                                                                                                                                                     |
| →609 | LegSecurityType      | String       | N | Security type of underlying leg                                                                                                                                                                                                                                                                                                                                            |
| →624 | LegSide              | Char(1)      | N | Side of underlying leg                                                                                                                                                                                                                                                                                                                                                     |
| →608 | LegCFIcode           | String       | N | ISO standard instrument categorization code of underlying leg                                                                                                                                                                                                                                                                                                              |
| →556 | LegCurrency          | Currency     | N | Currency of underlying leg                                                                                                                                                                                                                                                                                                                                                 |

## 8. Market Data Messages

### 8.1. MarketDataRequest

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| Tag  | Name                    | FIX Type   | Req | Description                                                                                                   |
|------|-------------------------|------------|-----|---------------------------------------------------------------------------------------------------------------|
| 35   | MsgType                 | String     | Y   | 35=V                                                                                                          |
| 262  | MDReqID                 | String     | Y   | Unique ID assigned by client for Market Data Request<br>To unsubscribe, the same ID must be sent with 263 = 2 |
| 263  | SubscriptionRequestType | int        | Y   | 1 = Subscribe for snapshots and updates<br>2 = Unsubscribe                                                    |
| 146  | NoRelatedSym            | NumInGroup | N   | Number of securities to subscribe for<br>If not specified, subscribes to all securities                       |
| →55  | Symbol                  | String     | N   | instrument code                                                                                               |
| →167 | SecurityType            | String     | N   | See Security Type (Tag167)                                                                                    |

## 8.2. MarketDataRequestReject

| Tag | Name           | FIX Type | Req | Description                                             |
|-----|----------------|----------|-----|---------------------------------------------------------|
| 35  | MsgType        | String   | Y   | 35=Y                                                    |
| 262 | MDReqID        | String   | Y   | Unique ID assigned by client for Market Data Request    |
| 281 | MDReqRejReason | String   | N   | Numerical reason for rejection of Market Data Request   |
| 58  | Text           | String   | N   | Free format text string describing reason for rejection |

## 8.3. MarketDataSnapshotFullRefresh

| Tag   | Name            | FIX Type | Req | Description                                                                                                                                                          |
|-------|-----------------|----------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35    | MsgType         | String   | Y   | 35=W                                                                                                                                                                 |
| 262   | MDReqID         | String   | Y   | Unique ID assigned by client for Market Data Request                                                                                                                 |
| 55    | Symbol          | String   | Y   | instrument symbol                                                                                                                                                    |
| 167   | SecurityType    | String   | Y   | See Security Type (Tag167)                                                                                                                                           |
| 762   | SecuritySubType | String   | C   | See SecuritySubType (Tag762)<br>Represents spread strategy if applicable                                                                                             |
| 268   | NoMDEntries     | int      | Y   | Number of entries in group                                                                                                                                           |
| → 269 | MDEntryType     | int      | Y   | See <a href="#">MD Entry Types (tag 269)</a>                                                                                                                         |
| → 278 | MDEntryID       | String   | N   | Market data identifier<br>MDEntryID is unique on a per instrument, session, and entry type basis<br>An active entry with the same MDEntryID (278) should be replaced |
| → 270 | MDEntryPx       | Price    | N   | The all-in rate                                                                                                                                                      |

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|        |                          |                      |   |                                                                                                                                                                                                      |
|--------|--------------------------|----------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| → 271  | MDEntrySize              | Qty                  | N | Entry size/quantity                                                                                                                                                                                  |
| → 110  | MinQty                   | Qty                  | N | Minimum fill size associated with the amount                                                                                                                                                         |
| → 60   | TransactTime             | UTCTimest<br>amp(24) | Y | GMT time of event, in microseconds                                                                                                                                                                   |
| → 1023 | MDPriceLevel             | int                  | N | 1 or 2. Price level in book (implies only)                                                                                                                                                           |
| → 286  | OpenCloseSettl<br>Flag   | Int                  | C | Flag describing Open Price entry<br>0=Daily Open Price<br>5=Indicative Opening Price (IOP)                                                                                                           |
| → 5796 | TradingReferen<br>ceDate | LocalMktD<br>ate     | C | Trading session date corresponding to the MDEntryType. This value will have the current trading date except for open interest and closing price (where it will usually be the previous trading date) |

## 8.4. MarketDataIncrementalRefresh

| Tag   | Name                | FIX Type | Req | Description                                                                                                                                                                                                                                                                                         |
|-------|---------------------|----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35    | MsgType             | String   | Y   | 35=X                                                                                                                                                                                                                                                                                                |
| 262   | MDReqID             | String   | Y   | Unique ID assigned by client for Market Data Request<br>To unsubscribe, the same ID must be sent with 263 = 2                                                                                                                                                                                       |
| 266   | AggregatedBook      | char     | Y   | N = Non-aggregated market data                                                                                                                                                                                                                                                                      |
| 268   | NoMDEntries         | int      | Y   | Number of entries in group                                                                                                                                                                                                                                                                          |
| → 279 | MDUpdateActio<br>n  | int      | Y   | 0 = New<br>1 = Change<br>2 = Delete                                                                                                                                                                                                                                                                 |
| → 269 | MDEntryType         | int      | Y   | See <a href="#">MD Entry Types (tag 269)</a>                                                                                                                                                                                                                                                        |
| → 278 | MDEntryID           | String   | Y   | Market data identifier<br>MDEntryID is unique on a per instrument, session, and entry type basis<br>MDUpdateAction = 0/1 (New/Change) should replace any active entry with the same MDEntryID (278)<br>MDUpdateAction = 2 (Delete) indicates any active entry with same MDEntryID should be deleted |
| → 55  | Symbol              | String   | Y   | instrument symbol                                                                                                                                                                                                                                                                                   |
| → 167 | SecurityType        | String   | Y   | See Security Type (Tag167)                                                                                                                                                                                                                                                                          |
| → 762 | SecuritySubTyp<br>e | String   | C   | See SecuritySubType (Tag762)<br>Represents spread strategy if applicable                                                                                                                                                                                                                            |
| → 270 | MDEntryPx           | Price    | N   | The all-in rate<br>Required when MDUpdateAction = New (0) or Change (1)                                                                                                                                                                                                                             |

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|                  |                          |                      |   |                                                                                                                                                                                               |
|------------------|--------------------------|----------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| →<br><b>271</b>  | MDEntrySize              | Qty                  | N | Required when MDUpdateAction = New (0) or Change (1)                                                                                                                                          |
| →<br><b>110</b>  | MinQty                   | Qty                  | N | Minimum fill size associated with the amount                                                                                                                                                  |
| → <b>60</b>      | TransactTime             | UTCTimest<br>amp(24) | Y | GMT time of event, in microseconds                                                                                                                                                            |
| →<br><b>1023</b> | MDPriceLevel             | int                  | N | 1 or 2. Price level in book (implies only)                                                                                                                                                    |
| →<br><b>286</b>  | OpenCloseSettl<br>Flag   | Int                  | C | Flag describing Open Price entry<br>0=Daily Open Price<br>5=Indicative Opening Price (IOP)                                                                                                    |
| →<br><b>5796</b> | TradingReferenc<br>eDate | LocalMktD<br>ate     | C | Trading session date corresponding to the MDEntryType. This value will have the current trading date                                                                                          |
| →<br><b>5797</b> | AggressorSide            | Int                  | C | Indicates the aggressor side. During certain periods (Pre-open, Halt, etc.) trades can occur without aggressors<br>0=No Aggressor<br>1=Buy<br>2=Sell<br>This value is sent for 269=2 (trades) |

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## 9. Tag Values

### 9.1. Order Status (tag 39)

| Value | Description      |
|-------|------------------|
| 0     | New              |
| 1     | Partially filled |
| 2     | Filled           |
| 3     | Done for day     |
| 4     | Cancelled        |
| 5     | Modify           |
| 8     | Rejected         |
| U     | Undefined        |
| C     | Expired          |

### 9.2. Order Types (tag 40)

| Value | Description |
|-------|-------------|
| 1     | Market      |
| 2     | Limit       |
| 3     | Stop        |
| 4     | Stop Limit  |

### 9.3. Order Sides (tag 54 and tag 624)

| Value | Description |
|-------|-------------|
| 1     | Buy Side    |
| 2     | Sell Side   |

### 9.4. Order Time-in-force (tag 59)

| Value | Description               |
|-------|---------------------------|
| 0     | Day                       |
| 1     | Good Till Cancel (GTC)    |
| 3     | Immediate Or Cancel (IOC) |
| 4     | Fill or Kill (FOK)        |
| 6     | Good Till Day (GTD)       |

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## 9.5. Position Effect (tag 77)

| Value | Description |
|-------|-------------|
| O     | Open        |
| C     | Close       |
| D     | Default     |

## 9.6. Cancel Reject Reason (tag 102)

| Value | Description        |
|-------|--------------------|
| 0     | Too late to cancel |
| 1     | Unknown order      |

## 9.7. Order Reject Reason (tag 103)

| Value | Description                                                                                      |
|-------|--------------------------------------------------------------------------------------------------|
| 1     | Unknown symbol                                                                                   |
| 2     | Exchange closed                                                                                  |
| 6     | Duplicate order                                                                                  |
| 18    | Invalid price increment (submitted price precision exceeds the one supported for the instrument) |
| 99    | Other                                                                                            |

## 9.8. Execution Types (tag 150)

| Value | Description      |
|-------|------------------|
| 0     | New order Ack    |
| 3     | Done for Day     |
| 4     | Cancel Ack       |
| 5     | Modify Ack       |
| 8     | Reject Ack       |
| F     | Trade            |
| L     | Stop Trigger     |
| H     | Trade Cancel Ack |
| C     | Elimination Ack  |

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## 9.9. Security Types (tag 167 and 609)

| Value | Description |
|-------|-------------|
| FUT   | Future      |
| OPT   | Option      |

## 9.10. MD Entry Types (tag 269)

| Value | Description                   |
|-------|-------------------------------|
| 0     | Bid                           |
| 1     | Offer                         |
| 2     | Trade                         |
| 4     | Opening Price                 |
| 5     | Closing Price                 |
| 6     | Settlement Price              |
| 7     | Trading Session High Price    |
| 8     | Trading Session Low Price     |
| 9     | Trading Session Vwap Price    |
| B     | Trading Session Traded Volume |
| C     | Open Interest                 |
| E     | Implied Bid                   |
| F     | Implied Offer                 |
| J     | Empty Book                    |
| z     | Last Traded Price             |

## 9.11. Session Reject Reason Codes (tag 373)

| Value | Description                                    |
|-------|------------------------------------------------|
| 0     | Invalid tag number                             |
| 1     | Required tag missing                           |
| 3     | Undefined Tag                                  |
| 4     | Tag specified without a value                  |
| 5     | Value is incorrect (out of range) for this tag |
| 6     | Incorrect data format for value                |
| 9     | CompID problem                                 |
| 99    | Other                                          |

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## 9.12. ExecRestatementReason (tag 378)

| Value | Description                                                 |
|-------|-------------------------------------------------------------|
| 8     | Exchange                                                    |
| 100   | Cancel on Disconnect                                        |
| 103   | Cancel Oldest (resting) due to Self Match Prevention        |
| 104   | Cancel from Exchange Credit Controls violation              |
| 105   | Cancel from Exchange Website                                |
| 106   | Cancel from Risk Management API                             |
| 107   | Cancel Newest (Aggressing) due to Self Match Prevention     |
| 108   | Cancel due to resting order quantity less than min lot size |
| 109   | Cancel both due to Self Match Prevention                    |

## 9.13. MultiLegReporting (tag 442)

| Value | Description   |
|-------|---------------|
| 1     | Outright      |
| 2     | Leg of Spread |
| 3     | Spread        |

## 9.14. OrderCapacity (tag 528)

Identifies the origin of the order (the capacity of the firm placing the order).

| Value | Description                         |
|-------|-------------------------------------|
| A     | Agency. Order placed by customer    |
| P     | Principal. Order placed by the firm |

## 9.15. CustOrderCapacity (tag 582)

Customer Type Indicator as defined by the NFA

| Value | Description                                                                                                                                                                                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | CTI 1: Transactions initiated and executed by an individual member for his/her own account, for an account he/she controls, or for an account in which he/she has ownership or financial interest.                                                                                  |
| 2     | CTI 2: Transactions executed for the proprietary account of a clearing member or non-clearing member firm.                                                                                                                                                                          |
| 3     | CTI 3: Transactions where an individual member or authorized trader executes for the personal account of another individual member, for an account the other individual member controls or for an account in which the other individual member has ownership or financial interest. |
| 4     | CTI 4: Any transaction not meeting the definition of CTI 1, 2 or 3. (These should be non-member customer transactions).                                                                                                                                                             |

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## 9.16. SecuritySubType (tag 762)

| Value | Description               |
|-------|---------------------------|
| SP    | Standard Calendar Spreads |

## 9.17. CustomerOrderHandlingInst (tag 1031)

| Value | Description                                              |
|-------|----------------------------------------------------------|
| W     | Desk                                                     |
| Y     | Electronic (Default)                                     |
| C     | Vendor provided platform Billed by Executing Broker      |
| G     | Sponsored Access via exchange API                        |
| H     | Premium Algorithmic trading provided by executing broker |
| D     | Other                                                    |

## 9.18. AggressorIndicator (tag 1057)

| Value | Description      |
|-------|------------------|
| Y     | Match aggressor  |
| N     | Resting at match |

## 9.19. Manual or Automated flow (tag 1028)

| Value | Description |
|-------|-------------|
| Y     | Manual      |
| N     | Automated   |

## 9.20. SelfMatchPreventionStrategy (tag 8000)

| Value | Description                               |
|-------|-------------------------------------------|
| N     | Cancel aggressing order                   |
| O     | Cancel resting order                      |
| Q     | Cancel both aggressing and resting orders |

## 9.21. CFICode (tag 461) or LegCFICode (tag 608)

| Value  | Description  |
|--------|--------------|
| FXXXXX | Futures      |
| OCXXXS | Options Call |
| OPXXXS | Options Put  |

