

PowerTrade Drop Copy FIX API Specification

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VERSION 1.0 (see [Revision History](#))

1. Introduction

Institutions can use the **FIX Drop Copy** feed to receive confirmations of orders and corresponding updates on the PowerTrade exchange.

PowerTrade will report all orders and corresponding updates on the exchange using:

- [Execution Report <8>](#)

Listed above updates can occur via orders placed using:

- a [FIX API](#) session;
- a [WebSocket API](#) session;
- user logged in to the PowerTrade mobile application ([iOS](#), [Android](#));
- user logged in to the PowerTrade [web application](#);

FIX Drop Copy reports on orders from **all** of these sources and from **all** sub-accounts.

Please note that **Read-Only** API key **is required** as a password in [Logon <A>](#) of **FIX Drop Copy** sessions.

API keys can be generated in [PowerTrade Web App](#).

There are no client-originated messages supported on this channel except for the session-management ones.

2. FIX Dictionary

PowerTrade uses FIX 4.4 with the 20030618 errata. No custom tags are used.

2.1. Downloads

<https://raw.githubusercontent.com/quickfix/quickfix/master/spec/FIX44.xml>

3. Connecting

Steps to get connected to our FIX infrastructure:

3.1. Get connected

There are 4 options for production FIX connectivity to PowerTrade:

1. Over Internet with TLS encryption using server-side certificate;
2. Over Internet with mutual TLS: using signed certificates on client and server sides.
 - TEST:
 - **DropCopy:** `api.wss.test.power.trade:2020`
 - **OrderEntry:** `api.wss.test.power.trade:2021`
 - PROD:
 - **DropCopy:** `api.wss.prod.power.trade:2020`
 - **OrderEntry:** `api.wss.prod.power.trade:2021`

3.2. SETUP A TEST ACCOUNT

Create a Test account by going to:

<https://powertrade-web-test.web.app/>

3.3. GENERATE API KEYS

Generate API Keys at: <https://powertrade-web-test.web.app/api-keys>

4. Session-Level Messages

4.1. Establishing a connection

1. Client sends server → `Logon <A>` message
2. Is client `ResetSeqNumFlag <141>` to `Y`?

- Yes, reset sequence numbers and proceed
 - server resets next expected client sequence number
 - server resets its own sequence number
 - server responds with ← **Logon <A>** message with reset sequence number
 - client sends server → **Heartbeat <0>**
- No, disconnect

3. Success! Your FIX connection is established.

4.2. When can sequence numbers be reset?

PowerTrade runs the server side of the FIX connection ("*acceptor*"). PowerTrade never resets sequence numbers on the server side during the logon workflow unless the client explicitly requests it.

The client ("*initiator*") can reset sequence numbers during **Logon <A>** by setting **ResetSeqNumFlag <141>** to **Y**.

PowerTrade recommends that client consider configuring the FIX initiator to automatically reset sequence numbers under the following conditions:

- logon
- logout
- disconnect
- error

While synchronizing sequence numbers after a replay, the client may send a **Sequence Reset <4>** with **GapFillFlag <123>** = **Y** in lieu of a replay.

4.3. Ending a connection

If the session was initiated using an API Key with enabled **Cancel on Disconnect**, then when the client disconnects from the FIX Order Entry, for whatever reason, the exchange will cancel all the orders associated with that FIX session.

The client may send the server an optional **Logout <5>** message but the exchange will not interpret its absence as being an abnormal condition.

Under certain conditions, the server may send the client a **Logout <5>** message where the **Text <58>** field contains the reason, such as scheduled maintenance.

4.4. Standard Header

The **Standard Header** is required on every message.

Table 1. **Standard Header** fields:

Tag	Name	Required	Description	Valid Values
8	BeginString	Y	Identifies beginning of new message and protocol version. Must be first field in message	"FIX.4.4"
9	BodyLength	Y	Message length, in bytes, forward to the CheckSum field. Must be second field in message	
35	MsgType	Y	Defines message type. Must be third field in message	
34	MsgSeqNum	Y	Integer message sequence number.	
43	PossDupFlag	N	Indicates possible retransmission of message with this sequence number. Required for retransmitted messages.	"Y" = Possible Duplicate "N" = Original Transmission
49	SenderCompID	Y	Assigned value used to identify firm sending message. If this message is sent to PowerTrade, then it should contain an API Key.	
56	TargetCompID	Y	Assigned value used to identify firm sending message.	If this message is sent to PowerTrade, then it should contain PowerTrade Server Identifier: "PT-OE" = for Order Entry "PT-DC" = for Drop Copy
52	SendingTime	Y	UTC Time of message transmission	YYYYMMDD-HH:mm:ss.ffffffffffff

4.5. Standard Trailer

The **Standard Trailer** is required on every message. **Standard Trailer** fields:

Tag	Name	Required	Description	Valid Values
10	Checksum	Y	Message Checksum, zero-padded 3 chars (e.g. "052"). Must be last field in the message.	Value calculated by the standard algorithm

4.6. Logon <A>

FIX4.4 Standard

Table 2. [Logon](#) fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=A				
98	EncryptMethod	N	PowerTrade does not support encryption.	"0" = None
108	HeartBtInt	Y	Heartbeat interval in seconds.	"30" = 30 seconds
141	ResetSeqNumFlag	Y	Indicates both sides of a FIX session should reset sequence numbers. Required in PowerTrade.	"Y" = Yes, reset sequence numbers
554	Password	Y	Assigned value used to authenticate the firm sending the message.	<p>JWT of PowerTrade API key.</p> <p>API keys can be generated in PowerTrade Web App.</p> <p>Procedure of JWT generation is documented in this article.</p> <p>NOTE:</p> <p>FIX Drop Copy API requires Read-Only API keys, while FIX Order Entry API requires API keys with Trade permission enabled.</p>
Trailer				

4.7. Heartbeat <0>

FIX4.4 Standard

Table 3. Heartbeat fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=0				
112	TestReqID	C	Required when the heartbeat is the result of a Test Request <1> message	
Trailer				

4.8. Test Request <1>

FIX4.4 Standard

Table 4. Resend Request fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=1				
112	TestReqID	C	Required when the heartbeat is the result of a Test Request <1> message	
Trailer				

4.9. Resend Request <2>

FIX4.4 Standard

Table 5. Resend Request fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=2				
7	BeginSeqNo	Y	Message sequence number of first message in range to be resent	

Tag	Name	Required	Description	Valid Values
16	EndSeqNo	Y	<p>Message sequence number of last message in range to be resent.</p> <p>If request is for a single message BeginSeqNo <7> = EndSeqNo <16>. If request is for all messages subsequent to a particular message, EndSeqNo <16> = 0 (representing infinity).</p>	
Trailer				

4.10. Reject <3>

FIX4.4 Standard

Table 6. **Reject** fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=3				
45	RefSeqNum	Y	MsgSeqNum <34> of the rejected message.	SeqNum
58	Text	N	Human-readable explanation	
371	RefTagID	Y	The tag number of the FIX field being referenced.	
372	RefMsgType	Y	The MsgType <35> of the rejected message.	

Tag	Name	Required	Description	Valid Values
373	SessionRejectReason	Y	Code to identify the reason for the Reject <3> message.	<p>"0" = Invalid tag number</p> <p>"1" = Required tag missing</p> <p>"2" = Tag not defined for this message type</p> <p>"3" = Undefined Tag</p> <p>"4" = Tag specified without a value</p> <p>"5" = Value is incorrect (out of range) for this tag</p> <p>"6" = Incorrect data format for value</p> <p>"10" = SendingTime <52> accuracy problem</p> <p>"11" = Invalid MsgType <35></p>
Trailer				

4.11. Sequence Reset <4>

FIX4.4 Standard

Table 7. Resend Request fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=4				
36	NewSeqNo	Y	New sequence number. The receiver should expect this to be the sequence number of the following message.	
123	GapFillFlag	Y	Indicates that the sender is skipping messages rather than resending them.	"Y" = Gap Fill message
Trailer				

4.12. Logout <5>

FIX4.4 Standard

Table 8. Logout fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=5				
58	Text	N	Human-readable explanation	
Trailer				

4.13. Business Message Reject <j>

FIX4.4 Standard

Table 9. Business Message Reject fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=j				
45	RefSeqNum	Y	MsgSeqNum <34> of the rejected message.	SeqNum
58	Text	N	Human-readable explanation	
372	RefMsgType	Y	The MsgType <35> of the rejected message.	
379	BusinessRejectRefID	Y	The value of the business level ID field being referenced.	
380	BusinessRejectReason	Y	Code to identify the reason for the Business Message Reject <j> message	"0" = Other "1" = Unknown ID "2" = Unknown Security "3" = Unsupported Message Type "4" = Application not available "5" = Conditionally Required Field Missing
Trailer				

5. Client-Bound Messages

5.1. Execution Report <8>

PowerTrade uses the [Execution Report <8>](#) message to:

- confirm the receipt of an order
- confirm the successful cancellation of an order
- relay fill information on orders
- reject orders

Each execution report contains two fields which are used to communicate both the current state of the order as understood by the exchange [OrdStatus <39>](#) and the purpose of the message [ExecType <150>](#).

Table 10. Execution Report fields:

Tag	Name	Required	Description	Valid Values
Header with MsgType=8				
1	Account	Y	Identifier of the party associated with the order.	account_id
55	Symbol	Y	Symbol of the Tradeable Entity	.symbol field of tradeable_entity PowerTrade provides symbols of listed tradeable entities in Reference Data: * Simplified MD Feeds * Session-based MD Service Ignored for Multi-Leg Order
17	ExecID	Y	Unique event ID assigned by PowerTrade.	
37	OrderID	Y	The PowerTrade-assigned order ID.	order_id "NONE" = Unknown OrderID (if ExecType = "8" Rejected)

Tag	Name	Required	Description	Valid Values
11	ClOrdID	Y	<p>Unique ID of the new Order, Cancel, or Cancel/Replace request as assigned by the firm.</p> <p>It is critical that this ID is unique and monotonically increased and be in range 0..72'057'594'037'927'936 (2^56)</p> <p>Good practice: start with Unix time in μs and increment for each request.</p>	order_token
198	SecondaryOrderID	C	Required if order is visible in the Order Book	<p>The PowerTrade-assigned display_order_id, appears in Public Market Data: Session-based Service, Simplified MD Feeds.</p> <p>display_order_id</p>
526	SecondaryClOrdID	N		<p>Right 16 bytes from client_reference provided by a client in enter_order request</p> <p>Characters in ASCII range 32-127 are allowed</p>
150	ExecType	Y	Describes the purpose of the Execution Report.	<p>"0" = New</p> <p>"4" = Cancelled</p> <p>"8" = Rejected</p> <p>"A" = Pending New</p> <p>"C" = Expired</p> <p>"D" = Restated</p> <p>"F" = Trade</p> <p>"H" = Trade Cancel</p>

Tag	Name	Required	Description	Valid Values
39	OrdStatus	Y	Describes the current order status.	"0" = New "1" = Partially Filled "2" = Filled "4" = Canceled "8" = Rejected "A" = Pending New "C" = Expired order_state
59	TimeInForce	Y	Specifies how long the orders remains alive	"0" = Cycle "1" = GTC "3" = IOC "4" = FOK "6" = GTD time_in_force
126	ExpireTime	C	UTC Time of order expiration Required if TimeInForce=GTD	YYYYMMDD-HH:mm:ss.nnnnnnnnnn time_to_live
40	OrdType	Y	Indicates order type	"1" = Market "2" = Limit
54	Side	Y	Order Side	"1" = Buy "2" = Sell side
44	Price	C	Order Price	Required for OrdType=LIMIT orders
38	OrderQty	Y	Order Quantity	Decimal

Tag	Name	Required	Description	Valid Values
151	LeavesQty	Y	Quantity open for further execution. If the OrdStatus <39> is 4 = Canceled or 8 = Rejected (in which case the order is no longer active) then LeavesQty <151> could be 0, otherwise LeavesQty <151> = OrderQty <38> - CumQty <14>.	Quantity
31	LastPx	C	Price of this (last) fill. Required if ExecType <150> is F = Trade .	. price field of trade
32	LastQty	C	Quantity (e.g. shares) of the fill. This field is only present when the order is updated due to a match on the exchange. Required if ExecType <150> is F = Trade .	. quantity field of trade
6	AvgPx	Y	Calculated average price of all fills on this order. PowerTrade doesn't update this field, so it is always set to 0.	"0"
555	NoLegs	C	Number of legs. Identifies a Multi-leg Execution if present and non-zero.	
Component Block InstrumentLeg :				
600	⇒ LegSymbol	Y	Multileg instrument's individual security's Symbol. See Symbol <55> field for description	legs.tradeable_entity_id field of legs
623	⇒ LegRatioQty	Y	The ratio of quantity for this individual leg relative to the entire multileg security.	legs.ratio field of legs May be negative to represent Leg's Side as reciprocal to Order's Side
The end of Component Block InstrumentLeg				
Trailer				

6. Examples

6.1. Logon

6.1.1. Request

8=FIX.4.4|9=371|35=A|34=1|49=17b92233f33a4d9a1688fe7d2a5be705|52=20230802-
11:01:24.064|56=PT-
DC|98=0|108=30|141=Y|554=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJhcGkud3NzLmRl
di5wb3dlci50cmFkZSIsInN1YiI6IjE3YjkyMjZjZmZyTRKOWExNjg4ZmU3ZDJhNWJlLnA1IiwiaXhwIjojoxNj
kwOTc0MDk5LCJpYXQoIjE2OTA5NzQwODR9.T5xBcKI6C9y1slbBkNHw6Gps8bKFTMLwZE1ABxsGe0EWUwj1Qb
4a2tNfpvljALexoQigYcbO3ZTL_qBN6aLZA|10=071|

HEADER:

```
[ 8] BeginString: FIX.4.4 []
[ 9] BodyLength: 371 []
[34] MsgSeqNum: 1 []
[35] MsgType: A [LOGON]
[49] SenderCompID: 17b92233f33a4d9a1688fe7d2a5be705 []
[52] SendingTime: 20230802-11:01:24.064 []
[56] TargetCompID: PT-DC []
```

BODY :

```
[ 98]          EncryptMethod: 0 [NONE]
[ 108]         HeartBtInt: 30 []
[ 141]       ResetSeqNumFlag: Y [YES]
[ 554]         Password:
hbGciOiJFUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJhcGkud3NzLmRldi5wb3dldi50cmFkZSI6InN1Y
iJzE3YjkyMjZjMzYTRkOWExNjg4ZmUzZDZhNWJlNzA1IiwiaXhwaWJoxNjkwOTc0MDk5LjYXQjE2OTA
TQwODR9.T5xBcKI6C9y1s1bBkNHw6Gps8bKFTmlwzE1ABxsGe0EwUWjj1Qb4a2tNfpvLjALexoQigYcb03ZT
BN6aLZA []
```

TRAILER:

```
[ 10] CheckSum: 071 []
```

6.1.2. Response

8=FIX.4.4|9=98|35=A|34=1|49=PT-DC|52=20230802-
11:01:24.066|56=17b92233f33a4d9a1688fe7d2a5be705|98=0|108=30|141=Y|10=022|

HEADER:

```
[ 8] BeginString: FIX.4.4 []
[ 9] BodyLength: 98 []
```

[34]	MsgSeqNum: 1 []
[35]	MsgType: A [LOGON]
[49]	SenderCompID: PT-DC []
[52]	SendingTime: 20230802-11:01:24.066 []
[56]	TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []

BODY:

[98]	EncryptMethod: 0 [NONE]
[108]	HeartBtInt: 30 []
[141]	ResetSeqNumFlag: Y [YES]

TRAILER:

[10]	Checksum: 022 []
-------	------------------

6.2. NewOrderSingle: Limit

6.2.1. Response: Pending

8=FIX.4.4|9=290|35=8|34=6|49=PT-OE|52=20230802-11:20:11.305|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690975211302602|14=0.0000000|17=P15091429|37=15091429|38=0.15000000|39=A|40=2|44=22150.00|54=1|55=BTC-USD|59=6|60=20230802-11:20:11.304719000|126=20230803-11:20:00.000000000|150=A|151=0.15000000|10=117|

HEADER:

[8]	BeginString: FIX.4.4 []
[9]	BodyLength: 290 []
[34]	MsgSeqNum: 6 []
[35]	MsgType: 8 [EXECUTION_REPORT]
[49]	SenderCompID: PT-OE []
[52]	SendingTime: 20230802-11:20:11.305 []
[56]	TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []

BODY:

[1]	Account: 333 []
[6]	AvgPx: 0 []
[11]	ClOrdID: 1690975211302602 []
[14]	CumQty: 0.00000000 []
[17]	ExecID: P15091429 []
[37]	OrderID: 15091429 []
[38]	OrderQty: 0.15000000 []
[39]	OrdStatus: A [PENDING_NEW]
[40]	OrdType: 2 [LIMIT]
[44]	Price: 22150.00 []
[54]	Side: 1 [BUY]

[55]	Symbol: BTC-USD []
[59]	TimeInForce: 6 [GOOD_TILL_DATE]
[60]	TransactTime: 20230802-11:20:11.304719000 []
[126]	ExpireTime: 20230803-11:20:00.000000000 []
[150]	ExecType: A [PENDING_NEW]
[151]	LeavesQty: 0.15000000 []

TRAILER:

[10]	Checksum: 117 []
-------	------------------

6.2.2. Response: New

8=FIX.4.4|9=290|35=8|34=7|49=PT-OE|52=20230802-11:20:11.306|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690975211302602|14=0.00000000|17=N15091429|37=15091429|38=0.15000000|39=0|40=2|44=22150.00|54=1|55=BTC-USD|59=6|60=20230802-11:20:11.306529000|126=20230803-11:20:00.000000000|150=0|151=0.15000000|10=084|

HEADER:

[8]	BeginString: FIX.4.4 []
[9]	BodyLength: 290 []
[34]	MsgSeqNum: 7 []
[35]	MsgType: 8 [EXECUTION_REPORT]
[49]	SenderCompID: PT-OE []
[52]	SendingTime: 20230802-11:20:11.306 []
[56]	TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []

BODY:

[1]	Account: 333 []
[6]	AvgPx: 0 []
[11]	ClOrdID: 1690975211302602 []
[14]	CumQty: 0.00000000 []
[17]	ExecID: N15091429 []
[37]	OrderID: 15091429 []
[38]	OrderQty: 0.15000000 []
[39]	OrdStatus: 0 [NEW]
[40]	OrdType: 2 [LIMIT]
[44]	Price: 22150.00 []
[54]	Side: 1 [BUY]
[55]	Symbol: BTC-USD []
[59]	TimeInForce: 6 [GOOD_TILL_DATE]
[60]	TransactTime: 20230802-11:20:11.306529000 []
[126]	ExpireTime: 20230803-11:20:00.000000000 []
[150]	ExecType: 0 [NEW]
[151]	LeavesQty: 0.15000000 []

TRAILER:

[10]

Checksum: 084 []

6.2.3. Response: Trade

8=FIX.4.4|9=314|35=8|34=8|49=PT-OE|52=20230802-
11:20:11.307|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690975211302602|14=0.15
000000|17=E741540|31=21150.00|32=0.15000000|37=15091429|38=0.15000000|39=2|40=2|44=221
50.00|54=1|55=BTC-USD|59=6|60=20230802-11:20:11.306529000|126=20230803-
11:20:00.000000000|150=F|151=0.00000000|10=168|

HEADER:

[8]	BeginString: FIX.4.4 []
[9]	BodyLength: 314 []
[34]	MsgSeqNum: 8 []
[35]	MsgType: 8 [EXECUTION_REPORT]
[49]	SenderCompID: PT-OE []
[52]	SendingTime: 20230802-11:20:11.307 []
[56]	TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []

BODY:

[1]	Account: 333 []
[6]	AvgPx: 0 []
[11]	ClOrdID: 1690975211302602 []
[14]	CumQty: 0.15000000 []
[17]	ExecID: E741540 []
[31]	LastPx: 21150.00 []
[32]	LastQty: 0.15000000 []
[37]	OrderID: 15091429 []
[38]	OrderQty: 0.15000000 []
[39]	OrdStatus: 2 [FILLED]
[40]	OrdType: 2 [LIMIT]
[44]	Price: 22150.00 []
[54]	Side: 1 [BUY]
[55]	Symbol: BTC-USD []
[59]	TimeInForce: 6 [GOOD_TILL_DATE]
[60]	TransactTime: 20230802-11:20:11.306529000 []
[126]	ExpireTime: 20230803-11:20:00.000000000 []
[150]	ExecType: F [TRADE]
[151]	LeavesQty: 0.00000000 []

TRAILER:

[10]

Checksum: 168 []

6.3. NewOrderSingle: Market

6.3.1. Response: Pending

8=FIX.4.4|9=246|35=8|34=4|49=PT-OE|52=20230802-11:01:08.716|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690974068713638|14=0.0000000|17=P15091414|37=15091414|38=0.08000000|39=A|40=1|54=2|55=BTC-USD|59=3|60=20230802-11:01:08.716150000|150=A|151=0.08000000|10=083|

HEADER:

[8]

BeginString: FIX.4.4 []

[9]

BodyLength: 246 []

[34]

MsgSeqNum: 4 []

[35]

MsgType: 8 [EXECUTION_REPORT]

[49]

SenderCompID: PT-OE []

[52]

SendingTime: 20230802-11:01:08.716 []

[56]

TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []

BODY:

[1]

Account: 333 []

[6]

AvgPx: 0 []

[11]

ClOrdID: 1690974068713638 []

[14]

CumQty: 0.00000000 []

[17]

ExecID: P15091414 []

[37]

OrderID: 15091414 []

[38]

OrderQty: 0.08000000 []

[39]

OrdStatus: A [PENDING_NEW]

[40]

OrdType: 1 [MARKET]

[54]

Side: 2 [SELL]

[55]

Symbol: BTC-USD []

[59]

TimeInForce: 3 [IMMEDIATE_OR_CANCEL]

[60]

TransactTime: 20230802-11:01:08.716150000 []

[150]

ExecType: A [PENDING_NEW]

[151]

LeavesQty: 0.08000000 []

TRAILER:

[10]

Checksum: 083 []

6.3.2. Response: New

8=FIX.4.4|9=246|35=8|34=5|49=PT-OE|52=20230802-11:01:08.718|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690974068713638|14=0.0000000|17=N15091414|37=15091414|38=0.08000000|39=0|40=1|54=2|55=BTC-USD|59=3|60=20230802-11:01:08.717909000|150=0|151=0.08000000|10=063|

HEADER:

```
-----
[ 8] BeginString: FIX.4.4 []
[ 9] BodyLength: 246 []
[34] MsgSeqNum: 5 []
[35] MsgType: 8 [EXECUTION_REPORT]
[49] SenderCompID: PT-OE []
[52] SendingTime: 20230802-11:01:08.718 []
[56] TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []
```

BODY:

```
-----
[ 1] Account: 333 []
[ 6] AvgPx: 0 []
[11] ClOrdID: 1690974068713638 []
[14] CumQty: 0.00000000 []
[17] ExecID: N15091414 []
[37] OrderID: 15091414 []
[38] OrderQty: 0.08000000 []
[39] OrdStatus: 0 [NEW]
[40] OrdType: 1 [MARKET]
[54] Side: 2 [SELL]
[55] Symbol: BTC-USD []
[59] TimeInForce: 3 [IMMEDIATE_OR_CANCEL]
[60] TransactTime: 20230802-11:01:08.717909000 []
[150] ExecType: 0 [NEW]
[151] LeavesQty: 0.08000000 []
```

TRAILER:

```
-----
[ 10] CheckSum: 063 []
```

6.3.3. Response: Trade

8=FIX.4.4|9=314|35=8|34=6|49=PT-OE|52=20230802-11:01:08.718|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690974067710224|14=0.08000000|17=E741538|31=22150.00|32=0.08000000|37=15091412|38=0.15000000|39=1|40=2|44=22150.00|54=1|55=BTC-USD|59=6|60=20230802-11:01:08.717909000|126=20230803-11:00:00.000000000|150=F|151=0.07000000|10=209|

HEADER:

```
-----
[ 8] BeginString: FIX.4.4 []
[ 9] BodyLength: 314 []
[34] MsgSeqNum: 6 []
[35] MsgType: 8 [EXECUTION_REPORT]
[49] SenderCompID: PT-OE []
[52] SendingTime: 20230802-11:01:08.718 []
[56] TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []
```

BODY:

```
[ 1] Account: 333 []
[ 6] AvgPx: 0 []
[11] ClOrdID: 1690974067710224 []
[14] CumQty: 0.08000000 []
[17] ExecID: E741538 []
[31] LastPx: 22150.00 []
[32] LastQty: 0.08000000 []
[37] OrderID: 15091412 []
[38] OrderQty: 0.15000000 []
[39] OrdStatus: 1 [PARTIALLY_FILLED]
[40] OrdType: 2 [LIMIT]
[44] Price: 22150.00 []
[54] Side: 1 [BUY]
[55] Symbol: BTC-USD []
[59] TimeInForce: 6 [GOOD_TILL_DATE]
[60] TransactTime: 20230802-11:01:08.717909000 []
[126] ExpireTime: 20230803-11:00:00.000000000 []
[150] ExecType: F [TRADE]
[151] LeavesQty: 0.07000000 []
```

TRAILER:

```
[ 10] CheckSum: 209 []
```

6.4. NewOrderMultileg: RFQ Limit

6.4.1. Response: New

```
8=FIX.4.4|9=323|35=8|34=9|49=PT-OE|52=20230802-
11:01:11.732|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690974071730671|14=0.00
0000|17=N15091416|37=15091416|38=0.100000|39=0|40=2|44=16.0000|54=1|59=6|60=20230802-
11:01:11.731938000|65=none|126=20230803-
11:00:00.000000000|150=0|151=0.100000|55=2|600=BTC-USD|623=1|600=ETH-USD|623=-
1|10=164|
```

HEADER:

```
[ 8] BeginString: FIX.4.4 []
[ 9] BodyLength: 323 []
[34] MsgSeqNum: 9 []
[35] MsgType: 8 [EXECUTION_REPORT]
[49] SenderCompID: PT-OE []
[52] SendingTime: 20230802-11:01:11.732 []
[56] TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []
```

BODY:

```

-----
[ 1] Account: 333 []
[ 6] AvgPx: 0 []
[11] ClOrdID: 1690974071730671 []
[14] CumQty: 0.000000 []
[17] ExecID: N15091416 []
[37] OrderID: 15091416 []
[38] OrderQty: 0.100000 []
[39] OrdStatus: 0 [NEW]
[40] OrdType: 2 [LIMIT]
[44] Price: 16.0000 []
[54] Side: 1 [BUY]
[59] TimeInForce: 6 [GOOD_TILL_DATE]
[60] TransactTime: 20230802-11:01:11.731938000 []
[65] SymbolSfx: none []
[126] ExpireTime: 20230803-11:00:00.000000000 []
[150] ExecType: 0 [NEW]
[151] LeavesQty: 0.100000 []
[555] NoLegs: 2 []
[600] LegSymbol: BTC-USD []
[623] LegRatioQty: 1 []
[600] LegSymbol: ETH-USD []
[623] LegRatioQty: -1 []

```

TRAILER:

```

-----
[ 10] CheckSum: 164 []

```

6.5. Cancel by ClOrdID

6.5.1. Response

```

8=FIX.4.4|9=310|35=8|34=8|49=PT-OE|52=20230802-
11:01:09.724|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690974069723069|14=0.08
000000|17=C15091412|37=15091412|38=0.15000000|39=4|40=2|41=1690974067710224|44=22150.0
0|54=1|55=BTC-USD|59=6|60=20230802-11:01:09.723523000|126=20230803-
11:00:00.000000000|150=4|151=0.07000000|10=075|

```

HEADER:

```

-----
[ 8] BeginString: FIX.4.4 []
[ 9] BodyLength: 310 []
[34] MsgSeqNum: 8 []
[35] MsgType: 8 [EXECUTION_REPORT]
[49] SenderCompID: PT-OE []
[52] SendingTime: 20230802-11:01:09.724 []
[56] TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []

```

BODY:

```

-----
[ 1] Account: 333 []
[ 6] AvgPx: 0 []
[11] ClOrdID: 1690974069723069 []
[14] CumQty: 0.08000000 []
[17] ExecID: C15091412 []
[37] OrderID: 15091412 []
[38] OrderQty: 0.15000000 []
[39] OrdStatus: 4 [CANCELED]
[40] OrdType: 2 [LIMIT]
[41] OrigClOrdID: 1690974067710224 []
[44] Price: 22150.00 []
[54] Side: 1 [BUY]
[55] Symbol: BTC-USD []
[59] TimeInForce: 6 [GOOD_TILL_DATE]
[60] TransactTime: 20230802-11:01:09.723523000 []
[126] ExpireTime: 20230803-11:00:00.000000000 []
[150] ExecType: 4 [CANCELED]
[151] LeavesQty: 0.07000000 []

```

TRAILER:

```

-----
[ 10] CheckSum: 075 []

```

6.6. Cancel by OrderID

6.6.1. Response

```

8=FIX.4.4|9=344|35=8|34=22|49=PT-OE|52=20230802-
11:01:24.102|56=17b92233f33a4d9a1688fe7d2a5be705|1=333|6=0|11=1690974084103284|14=0.00
0000|17=C15091423|37=15091423|38=0.100000|39=4|40=2|41=1690974077785721|44=16.0000|54=
1|59=6|60=20230802-11:01:24.102096000|65=none|126=20230803-
11:00:00.000000000|150=4|151=0.100000|55=2|600=BTC-USD|623=1|600=ETH-USD|623=-
1|10=174|

```

HEADER:

```

-----
[ 8] BeginString: FIX.4.4 []
[ 9] BodyLength: 344 []
[34] MsgSeqNum: 22 []
[35] MsgType: 8 [EXECUTION_REPORT]
[49] SenderCompID: PT-OE []
[52] SendingTime: 20230802-11:01:24.102 []
[56] TargetCompID: 17b92233f33a4d9a1688fe7d2a5be705 []

```

BODY:

```

-----
[ 1] Account: 333 []
[ 6] AvgPx: 0 []

```

```
[ 11]          ClOrdID: 1690974084103284 []
[ 14]          CumQty: 0.000000 []
[ 17]          ExecID: C15091423 []
[ 37]          OrderID: 15091423 []
[ 38]          OrderQty: 0.100000 []
[ 39]          OrdStatus: 4 [CANCELED]
[ 40]          OrdType: 2 [LIMIT]
[ 41]          OrigClOrdID: 1690974077785721 []
[ 44]          Price: 16.0000 []
[ 54]          Side: 1 [BUY]
[ 59]          TimeInForce: 6 [GOOD_TILL_DATE]
[ 60]          TransactTime: 20230802-11:01:24.102096000 []
[ 65]          SymbolSfx: none []
[ 126]         ExpireTime: 20230803-11:00:00.000000000 []
[ 150]         ExecType: 4 [CANCELED]
[ 151]         LeavesQty: 0.100000 []
[ 555]         NoLegs: 2 []
[ 600]         LegSymbol: BTC-USD []
[ 623]         LegRatioQty: 1 []
[ 600]         LegSymbol: ETH-USD []
[ 623]         LegRatioQty: -1 []
```

TRAILER:

```
-----
[ 10]          CheckSum: 174 []
```

7. Revision History

Table 11. revision history:

Date	Version	Notes
2023/08/01	1.0	Public release
2023/07/30	0.1	Initial Drop Copy FIX API documentation