

EDX Markets™ FIX Specifications – Market Data

v1.0.10

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Change Log

Date	Section / Message(s)	Description
3/4/2024	N/A	Initial v1.0 release of FIX Market Data specifications
		for EDX Markets match engine.
3/14/2024	Logon Message	v1.0.1 - Updated sample Logon message to include
		standard header/footer.
4/4/2024	Market Data Incremental Refresh	v1.0.2 - Added TradeID to Market Data Incremental
		Refresh messages for reporting trades.
4/8/2024	Interaction Model	v1.0.3 - Added interaction model.
4/10/2024	Security List	v1.0.4 - Removed references to unsupported
		AggregatedBook field.

4/19/2024	Security List	v1.0.5 - Added references to fields 996, 1716, and 561.
5/1/2024	Throttle Limits	v1.0.6 - Added Throttle Limits
5/13/2024	Sequence Reset	v1.0.7 - Added Sequence Reset section.
6/10/2024	Market Data Snapshot Full	v1.0.8 - Removed aggregated price-level snapshot
	Refresh (OUT)	information from MDEntrySize.
6/10/2024	Sample Messages	v1.0.8 - Removed sample
	Multiple Entries Snapshot –	
	Aggregated Price Level Data	
6/10/2024		v1.0.8 - Updated MarketDepth Tag 264
	(IN)	
7/30/2024	Overview	v1.0.9
		- Interaction model broken down into several
		models for each corresponding message.
		- Sequence Reset interaction model added.
		- Test Request section added.
		- Resend Request section added.
		- Separated standard header into (IN) and
		(OUT) messages.
7/30/2024	Logon	v1.0.9
		- Value/Comment added for tag 553
		(Username) and tag 554 (passphrase)
		- Tag 1408 (DefaultCstmApplVerID) no longer
		in Logon (IN)
		- Tag 141 (Reset Sequence Number Flag) in
		Logon (OUT) req'd changed to Y.
		- Updated Logon (OUT) sample message.
		- Added Logout (IN) matrix.
		- Logout (IN) and Logout (OUT) sample
		messages added.
7/30/2024	Test Request	v1.0.9
		- Added Test Request interaction model.
		 Added Test Request (OUT) matrix.
		- Added Test Request (OUT) sample message.
		- Added Heartbeat (IN) sample message.
7/30/2024	Resend Request	v1.0.9
		- Added Resend Request interaction model.
		- Added Resend Request (OUT) matrix.
		- Added Sequence Reset (IN) matrix.
		- Added Reject (OUT) matrix.
		- Added Resend Request (OUT) sample
		message.
		- Added Sequence Reset (IN) sample
		message.

		- Added Reject (OUT) sample message.
7/30/2024	Security List Request	v1.0.9
		 Added Security List Request interaction model.
		- Security List (OUT) changed Tag 146
		(NoRelatedSym) req'd to Y.
		- Changed tag 969 (MinPriceIncrement) req'd to Y.
		- Changed tag 996 (UnitOfMeasure) req'd to Y.
		- Changed tag 990 (UnitOffleasureCurrency)
		req'd to Y
		- Changed tag 561 (RoundLot) req'd to Y.
		 Added req'd Y to Standard Footer.
		- Added Security List Request (IN) sample
		message.
		- Added Security List (OUT) sample message.
7/30/2024	Security Status Request	v1.0.9
		 Added Security Status Request interaction model.
		- Added Security Status Request (IN) matrix.
		- Security Status (OUT) changed tag 324
		(SecurityStatusReqID) req'd to Y.
		- Tag 326 (SecurityTradingStatus) changed
		req'd to Y and added values.
		- Removed Tag 60 (TransactTime)
		- Added values to tag 327 (HaltReason)
		- Business Message Reject (OUT) matrix added.
		- Security Status Request Snapshot (IN)
		sample message added Security Status Request Snapshot Plus
		Updates (IN) sample message added
		- Security Status Request Disable Previous
		snapshot Plus Updates (IN) sample message added.
		 Security Status Ready to Trade (OUT) sample message added.
		 Security Status Halt (OUT) sample message added.
		- Security Status Resume (OUT) sample
		message added Security Status Suspended (OUT) sample
		message added.

		- Security Status Post Only (OUT) sample
		message added.
		- Business Message Reject Invalid Symbol
		(OUT) sample message added.
		- Business Message Reject Incorrect Security
		Status Request ID (OUT) sample message
		added.
7/30/2024	Market Data Request	v1.0.9
		 Added Market Data Request interaction model.
		- Changed tag 265 (MD Update Type) req'd to Y.
		- Added values to tag 269 (MDEntryType).
		- Standard Footer added req'd Y.
		- Changed tag 278 (MDEntryID) req'd to Y.
		- Changed tag 270 (MDEntryPx) req'd to Y.
		- Added tag 911 (TotNumReports).
		- Changed tag 262 (MDReqID) req'd to Y.
		. , , ,
		- Changed tag 281 (MDReqRejReason) to Y.
		- Added tag 58 (Text).
		- Market Data Request Snapshot plus
		updated (IN) sample message added.
		 Market Data Request Disable Previous Snapshot Plus Update Request (IN) sample
		message added.
		- Market Data Snapshot Full Refresh (OUT)
		sample message added.
		- Market Data Incremental Refresh (OUT)
		sample message added.
		- Market Data Request Reject (OUT) sample
		message added.
08/31/2024	Security List Request	v1.0.10
		- TAG 167, Instrument Type, added PERP
08/31/2024	Market Data Incremental Refresh	v1.0.10
		- MD Entry Type added INDEX_VALUE,
		FINAL_MARK_PRICE, OPEN_INTEREST,
		PRELIMINARY_MARK_PRICE,
		FINAL_FUNDING_RATE,
		PRELIMINARY_FUNDING_RATE

Overview

EDX Markets FIX specifications are based on the FIX Trading Community FIX 5.0 SP2 specifications.

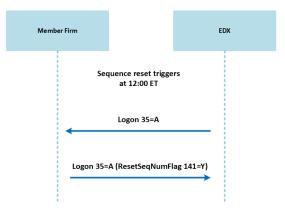
Throttle Limits

The following throttle limits are applied at the FIX ID level and are administered by EDX market operations.

- Maximum messages per account: 100 messages per 5 seconds.
- In the event the user exceeds the throttle limits listed above, the user will be disconnected from the session and receive the message RATE LIMIT EXCEEDED as the reason for disconnecting.

Sequence Reset

• A daily reset occurs at 12pm ET. We follow the FIX protocol convention for resetting sequence numbers back to 1.



Test Request

• If your system fails to heartbeat with us in the interval initially declared in the logon message, EDX will issue a Test Request. When that happens, you must respond to that test request within the initially declared heartbeat interval with either a business message or a heartbeat.

Resend Request

• If EDX detects a gap in the Message Sequence Number, there will be a Resend Request issued. When that happens, you can respond with the missing block of messages or perform a gap fill. This can be accomplished by sending a Sequence Reset Message (Tag 35=4), with the New Sequence Number (Tag 36) and whether you would like the gap in messaging filled (Tag 123 = Y/N). When a gap fill is requested, EDX will only send 'application' level messages. We also will not send any messages that would've been sent while the client was disconnected. We only store those historical messages when the engine thinks the client is connected.

Supported Messages

The following convention is used in this document to indicate message direction:

- IN: a message type received by EDX.
- OUT: a message type originating from EDX.
- IN/OUT: a message type that can be sent to or from EDX.

The values under the "Required" column indicate one of the following:

- 'Y' field is mandatory and must be sent or received as a part of the message.
- 'N' field is not required and should be omitted unless otherwise directed by EDX.
- 'N/A' Field is not used in the context of the message.

Session Messages

Standard Header (IN)

Tag	Field Name	Req'd	Values/Comments
8	BeginString	Υ	'FIXT.1.1'. Message start. Must be the first field in the message.
9	BodyLength	Υ	Length of the FIX message. Must be the second field in the
			message.
35	MsgType	Υ	Type of FIX message. Must be the third field in the message.
34	MsgSeqNum	Υ	Message sequence number.
52	SendingTime	Υ	UTC timestamp. Time of message.
49	SenderCompID	Υ	Message sender's ID. Assigned at onboarding (same as Username).
56	TargetCompID	Υ	'EDXM'.
43	PossDupFlag	N	Required for retransmitted messages, whether prompted by the
			sending system or as the result of a resend request.
97	PossResend	N	Required when message may be duplicate of another message
			sent under a different sequence number.
122	OrigSendingTime	N	Required for message resent because of a resend request. If data
			is unavailable, set to same value as SendingTime.

Standard Header (OUT)

Tag	Field Name	Req'd	Values/Comments
8	BeginString	Υ	'FIXT.1.1'. Message start. Must be the first field in the message.

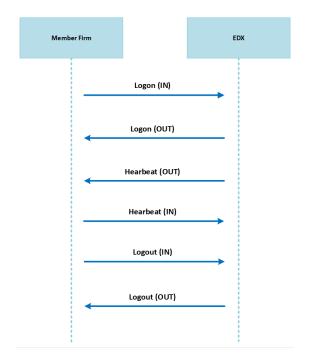
9	BodyLength	Υ	Length of the FIX message. Must be the second field in the
			message.
35	MsgType	Υ	Type of FIX message. Must be the third field in the message.
49	SenderCompID	Υ	'EDXM'
56	TargetCompID	Υ	Message sender's ID. Assigned at onboarding (same as Username).
34	MsgSeqNum	Υ	Message sequence number.
52	SendingTime	Υ	UTC timestamp. Time of message.
43	PossDupFlag	N	Required for retransmitted messages, whether prompted by the
			sending system or by a resend request.
97	PossResend	N	Required when message may be duplicate of another message
			sent under a different sequence number.
122	OrigSendingTime	N	Required for message resent because of a resend request. If data
			is unavailable, set to same value as SendingTime.

Standard Footer

Ta	ag	Field Name	Req'd	Values/Comments
1	0	CheckSum	Υ	A value calculated by the FIX engine from the message data and
				transferred with the data. If the data received does not match the
				CheckSum value, the data was corrupted in transit.

Logon Interaction Model:

• Upon a Logon (IN) request, a Logon (OUT) request is sent, but no other application messages are sent without a corresponding request.



Logon (IN)

Tag	Field Name	Req'd	Values/Comments
St	andard Header	Υ	MsgType 35=A
98	EncryptMethod	Y	Must be '0'
108	HeartBtInt	Υ	Heartbeat interval, in seconds. An interval of 0 indicates there
			are no heartbeats. The maximum supported interval is 90
			seconds.
141	ResetSeqNumFlag	N	YES_RESET_SEQUENCE_NUMBERS [Y]
			NO [N]
553	Username	Υ	Username/user ID
554	Password	Υ	Password/passphrase
1137	DefaultApplVerID	Υ	Must be '9'
S	tandard Footer	Υ	

Logon (OUT)

Tag	Field Name	Req'd	Values/Comments
St	andard Header	Υ	MsgType 35=A
98	EncryptMethod	Υ	Must be '0'
108	HeartBtInt	Υ	Heartbeat interval, in seconds. An interval of 0 indicates there are
			no heartbeats. The maximum supported interval is 90 seconds.

141	MsgSeqNumFlag	Υ	YES_RESET_SEQUENCE_NUMBERS [Y]
			NO [N]
1137	DefaultApplVerID	Y	Must be '9'
Standard Footer		Y	

Sample Messages:

Logon (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	094
[MsgType]	35	=	A
[MsgSeqNum]	34	=	1
[SendingTime]	52	=	20240716-22:08:12.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[EncryptMethod]	98	=	0
[HeartBtInt]	108	=	20
[ResetSeqNumFlag]	141	=	Y
[Username]	553	=	USERNAME
[Password]	554	=	PASSWORD
[DefaultApplVerID]	1137	=	9
[CheckSum]	10	=	074

Logon (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	094
[MsgType]	35	=	A
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	2
[SendingTime]	52	=	20240716-22:08:08.655
[EncryptMethod]	98	=	0
[HeartBtInt]	108	=	20
[ResetSeqNumFlag]	141	=	Y
[DefaultApplVerID]	1137	=	9
[CheckSum]	10	=	074

Logout (IN)

Tag	Field Name	Req'd	Values/Comments				
Standard Header		Υ	MsgType 35=5				
58	Text	N	Client provided text. Unused.				
St	Standard Footer						

Logout (OUT)

Tag	Field Name	Req'd	Values/Comments			
Sta	Standard Header		MsgType 35=5			
58	Text	N	Describes the reason for logout.			
Standard Footer		Υ				

Sample Messages:

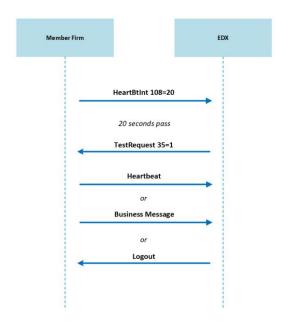
Logout (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	55
[MsgType]	35	=	5
[MsgSeqNum]	34	=	3
[SendingTime]	52	=	20240716-22:27:28.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[CheckSum]	10	=	149

Logout (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	55
[MsgType]	35	=	4
[MsgSeqNum]	34	=	4
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[SendingTime]	52	=	20240716-22:27:23.907
[CheckSum]	10	=	160

TestRequest Interaction Model:



TestRequest (OUT)

Tag	Field Name	Req'd	Values/Comments
Standard Header		Υ	MsgType 35=1
112	TestReqID	Υ	Identifier included in Test Request message to be returned in resulting Heartbeat.
Standard Footer		Υ	

Sample Messages:

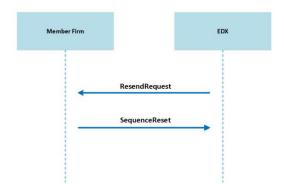
TestRequest (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	63
[MsgType]	35	=	1
[MsgseqNum]	34	=	500
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[SendingTime]	52	=	20240727-01:15:22.000
[TestReqID]	112	=	23412
[CheckSum]	10	=	243

Heartbeat (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	63
[MsgType]	35	=	1
[MsgseqNum]	34	=	501
[SendingTime]	52	=	20240727-01:15.22.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[TestReqID]	112	=	23412
[CheckSum]	10	=	251

ResendRequest Interaction Model:



ResendRequest (OUT)

Tag	Field Name	Req'd	Values/Comments
Standard Header		Y	MsgType 35=2
7	BeginSeqNo	Υ	First message sequence number in range to be resent.
16	16 EndSeqNo Y		Last message sequence number in range to be resent. '0'
			represents infinity.
	Standard Footer		

SequenceReset (IN)

Tag	Field Name	Req'd	Values/Comments
	Standard Header	Y	MsgType 35=4
123	GapFillFlag	Υ	Indicates that the Sequence Reset message is replacing the
		missing messages, which will not be resent.	
			GAP_FILL_MESSAGE_MSG_SEQ_NUM_FIELD_VALID [Y]

36	NewSeqNo	Υ	New sequence number.
Standard Footer		Υ	

Reject (OUT)

Tag	Field Name	Req'd	Values/Comments
	Standard Header		MsgType 35=3
45	RefSeqNum	Y	Reference message sequence number.
371	RefTagID	Υ	The tag number of the field being referenced in the reject.
372	RegMsgType	Υ	The Message Type of the FIX message being referenced.
373	SessionRejectReason	Υ	Describes the reason for rejection.
			VALUE_IS_INCORRECT [5]
58	Text	Υ	Describes the rejection reason.
	Standard Footer	Υ	

Sample Messages:

ResendRequest (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	64
[MsgType]	35	=	2
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgseqNum]	34	=	20
[SendingTime]	52	=	20240727-00:06:06.000
[BeginSeqNo]	7	=	234
[EndSeqNo]	16	=	239
[CheckSum]	10	=	014

SequenceReset (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	71
[MsgType]	35	=	4
[MsgseqNum]	34	=	21
[SendingTime]	52	=	20240727-00:05:38.802
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM

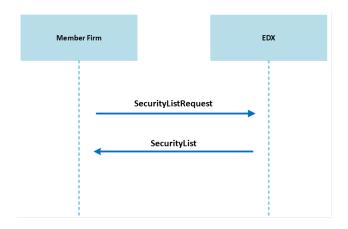
[GapFillFlag]	123	=	Y
[NewSeqNo]	36	=	239
[CheckSum]	10	=	149

Reject (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	129
[MsgType]	35	=	3
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgseqNum]	34	=	20
[SendingTime]	52	=	20240727-00:06:06.917
[RefSeqNum]	45	=	143
[RefTagID]	371	=	16
[RefMsgType]	372	=	2
[SessionRejectReason]	373	=	5
[Text]	58	=	Incorrect value (out of range)
[CheckSum]	10	=	019

Application Messages

$Security List Request\ Interaction\ Model:$



SecurityListRequest (IN)

Tag	Field Name	Req'd	Values/Comments		
Standard Header		Υ	MsgType 35=x		
320	SecurityReqID	Υ	The ID of the Security List Request.		
559	559 SecurityListRequestType Y		The type of Security List Request being made.		
			ALL_SECURITIES [4]		
	Standard Footer				

SecurityList (OUT)

Tag	Field Name	Req'd	Values/Comments		
	Standard Header		MsgType 35=y		
320	SecurityReqID	Υ	The ID of the Security List Requested.		
322	SecurityResponseID	Υ	A unique ID for the response.		
560	SecurityRequestResult	Υ	The result of the request.		
			0 [VALID_REQUEST]		
893	LastFragment	Υ	N – There are more Security List messages to come.		
			Y – This is the last Security List message for this Security		
			List Request.		
146	NoRelatedSym	Υ	Number of instrument definitions in the repeating group to		
			follow.		
55	Symbol	Υ	The symbol of the instrument.		
969	MinPriceIncrement	Υ	The smallest increment in which the instrument's price		
			can be increased/decreased.		

996	UnitOfMeasure	Υ	The unit of measure of the underlying asset upon which	
			the instrument is based.	
1716	UnitofMeasureCurrency	Υ	Indicates the currency of the unit of measure.	
562	MinTradeVol	Υ	The smallest tradeable quantity for the instrument.	
561	RoundLot	Υ	The trading lot size of an instrument.	
15	Currency	Υ	The quote currency of the instrument.	
167	SecurityType	Υ	SPOT	
			PERP [†]	
Standard Footer		Υ		

^{† =} EDXM enum value, not standard to FIX 5.0 SP2

Sample Messages

SecurityListRequest (IN)

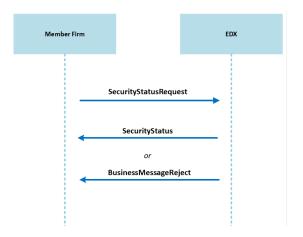
8	=	FIXT.1.1
9	=	55
35	=	Х
34	=	5
52	=	20240716-22:27:23.907
49	=	USERNAME
56	=	EDXM
320	=	1
559	=	4
10	=	160
	9 35 34 52 49 56 320 559	9 = 35 = 34 = 52 = 49 = 56 = 320 = 559 =

SecurityList (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	1955
[MsgType]	35	=	У
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	6
[SendingTime]	52	=	20240723-18:46:02.414
[SecurityReqID]	320	=	325235
[SecurityResponseID]	322	=	0
[SecurityRequestResult]	560	=	0
[LastFragment]	893	=	Y

[NoRelatedSym]	146	=	3
[Symbol]	55	=	BTC/USD
[MinPriceIncrement]	969	=	0.01
[UnitOfMeasure]	996	=	Ссу
[UnitOfMeasureCurrency]	1716	=	BTC
[MinTradeVol]	562	=	0.0000001
[RoundLot]	561	=	0.0000001
[Currency]	15	=	USD
[Symbol]	55	=	ETH/USD
[MinPriceIncrement]	969	=	0.01
[UnitOfMeasure]	996	=	Ссу
[UnitOfMeasureCurrency]	1716	=	ETH
[MinTradeVol]	562	=	0.000001
[RoundLot]	561	=	0.00001
[Currency]	15	=	USD
[Symbol]	55	=	LTC/USD
[MinPriceIncrement]	969	=	0.01
[UnitOfMeasure]	996	=	Ссу
[UnitOfMeasureCurrency]	1716	=	LTC
[MinTradeVol]	562	=	0.00001
[RoundLot]	561	=	0.000001
[Currency]	15	=	USD
[CheckSum]	10	=	226

SecurityStatusRequest Interaction Model:



SecurityStatusRequest (IN)

Tag	Field Name	Req'd	Values/Comments
-----	------------	-------	-----------------

	Standard Header Y		MsgType 35=e	
324	SecurityStatusReqID	Υ	The ID of the Security Status Request; must be unique or an	
			exact match of a previous ID if disabling an update request.	
			May utilize any format.	
55	Symbol	Υ	The Symbol of the Instrument whose Order Book Statis is	
			requested. Only one instrument is supported for the	
			Security Status Request.	
263	SubscriptionRequestType [†]	Υ	The type of Market Data Subscription Request for this	
			Security Status Request.	
			SNAPSHOT [0] – Will only provide Snapshot messages at	
			set intervals.	
			SNAPSHOT_PLUS_UPDATES [1] – Will provide Snapshot and	
			Incremental update messages for any activity on the Order	
			Book.	
			DISABLE_PREVIOUS_SNAPSHOT_PLUS_UPDATE_REQUEST	
			[2] – Allows the client to stop their existing Market Data	
			Subscription messages. Must reference a previously used	
			SecurityStatusReqID.	
	Standard Footer	Υ		

^{† =} If the user sends SubscriptionRequestType(263) = DISABLE_PREVIOUS_SNAPSHOT_PLUS_UPDATES (2), but no request has been made with the requestID they send in, the user will get a reject will reason 'DUPLICATE_ID'.

SecurityStatus (OUT)

Tag	Field Name	Req'd	Values/Comments	
	Standard Header Y		MsgType 35=f	
324	SecurityStatusReqID	Υ	The ID of the Security Status Request; must be unique, any	
			format.	
55	Symbol	Υ	The Symbol of the Instrument whose Order Book Status is	
			provided.	
969	MinPriceIncrement	N	The smallest increment in which the Instrument's price can	
			be increased/decreased.	
326	SecurityTradingStatus	Υ	The status of the order book for the specified Instrument.	
			TRADING_HALT [2]	
			RESUME [3]	
			READY_TO_TRADE_START_OF_SESSION [17]	
			ITS_PRE_OPENING [14]	

327	HaltReason	N	If trading on the Order Book has been halted, this field
			provides additional information.
			ORDER_BOOK_IN_SUSPENDED_STATE [S]
			ORDER_BOOK_IN_HALT_STATE [N]
	Standard Footer	Υ	

BusinessMessageReject (OUT)

Tag	Field Name	Req'd	Values/Comments	
	Standard Header		MsgType 35=j	
372	RefMsgType	Y	The Message Type (35) of the Fix message that is being	
			referenced.	
			35=e [SecurityStatusRequest]	
380	BusinessRejectReason	Υ	Identifies reason for a Business Message Reject message.	
			OTHER [0]	
			UNKNOWN_SECURITY [2]	
58	Text	N	Freeform text describing the reason for rejection.	
			DUPLICATE_ID	
			INVALID_SYMBOL	
	Standard Footer Y			

Sample Messages

SecurityStatusRequest SNAPSHOT (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	100
[MsgType]	35	=	E
[MsgSeqNum]	34	=	7
[SendingTime]	52	=	20240723-05:32:21.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[SecurityStatusReqID]	324	=	1
[SubscriptionRequestType]	263	=	0
[Symbol]	55	=	BTC/USD
[CheckSum]	10	=	046

SecurityStatusRequest SNAPSHOT PLUS UPDATES (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	180
[MsgType]	35	=	е
[MsgSeqNum]	34	=	8
[SendingTime]	52	=	20240724-00:12:30.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[SecurityStatusReqID]	324	=	32542542
[SubscriptionRequestType]	263	=	1
[Symbol]	55	=	BTC/USD
[CheckSum]	10	=	196

SecurityStatusRequest DISABLE PREVIOUS SNAPSHOT PLUS UPDATES (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	180
[MsgType]	35	=	е
[MsgSeqNum]	34	=	9
[SendingTime]	52	=	20240724-00:14:35.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[SecurityStatusReqID]	324	=	32542542
[SubscriptionRequestType]	263	=	2
[Symbol]	55	=	BTC/USD
[CheckSum]	10	=	196

SecurityStatus READY TO TRADE (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	81
[MsgType]	35	=	f
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	10
[SendingTime]	52	=	20240723-05:32:21.591
[SecurityStatusReqID]	324	=	986768uvhv7
[Symbol]	55	=	BTC/USD
[SecurityTradingStatus]	326	=	17
[CheckSum]	10	=	016

SecurityStatus HALT (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	77
[MsgType]	35	=	f
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	10
[SendingTime]	52	=	20240723-05:58:49.303
[SecurityStatusReqID]	324	=	235234
[Symbol]	55	=	BTC/USD
[SecurityTradingStatus]	326	=	2
[HaltReason]	327	=	N
[CheckSum]	10	=	212

SecurityStatus RESUME (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	91
[MsgType]	35	=	f
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	11
[SendingTime]	52	=	20240723-06:04:15.027
[SecurityStatusReqID]	324	=	34534523
[Symbol]	55	=	BTC/USD
[SecurityTradingStatus]	326	=	3
[CheckSum]	10	=	167

SecurityStatus SUSPENDED (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	87
[MsgType]	35	=	f
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	12
[SendingTime]	52	=	20240723-06:06:44.782
[SecurityStatusReqID]	324	=	235426523
[Symbol]	55	=	BTC/USD
[SecurityTradingStatus]	326	=	2

[HaltReason]	327	=	S
[CheckSum]	10	=	221

SecurityStatus POST ONLY (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	81
[MsgType]	35	=	F
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	13
[SendingTime]	52	=	20240724-01:01:01.404
[SecurityStatusreqID]	324	=	235535
[Symbol]	55	=	BTC/USD
[SecurityTradingStatus]	326	=	14
[CheckSum]	10	=	164

BusinessMessageReject INVALID SYMBOL (OUT)

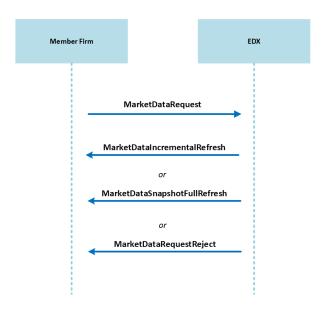
[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	78
[MsgType]	35	=	j
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	14
[SendingTime]	52	=	20240724-00:46:02.408
[RefMsgType]	372	=	е
[BusinessRejectReason]	380	=	2
[Text]	58	=	INVALID_SYMBOL
[CheckSum]	10	=	105

BusinessMessageReject INCORRECT SECURITY STATUS REQUEST ID (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	85
[MsgType]	35	=	j
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgseqNum]	34	=	15
[SendingTime]	52	=	20240724-01:08:07.205
[RefMsgType]	372	=	е

[BusinessRejectReason]	380	=	0
[Text]	58	=	DUPLICATE_ID
[CheckSum]	10	=	176

MarketDataRequest Interaction Model:



MarketDataRequest (IN)

Tod	Field Name	Req'd	Values/Comments
Tag		neq u	
	Standard Header		MsgType 35=V
262	MDReqID	Υ	This is the ID for the MarketDataRequest. It must be
			unique or must be the ID of the previous request to
			stop the message stream.
263	SubscriptionRequestType	Y	The supported Subscription Request Types outlined earlier specify the type of response expected from the market data gateway. SNAPSHOT [0] – will only provide Snapshot messages at set intervals. SNAPSHOT_PLUS_UPDATES [1] – will provide Snapshot and Incremental update messages for any activity on the Order Book. DISABLE_PREVIOUS_SNAPSHOT_PLUS_UPDATE_REQ UEST [2] – Allows the client to stop their existing Market Data Subscription messages.
264	MarketDepth	Υ	This field indicates the depth of the order book
			snapshot requested.

			FULL_BOOK [0] - This indicates the most
			comprehensive request containing all price levels or
			all orders on the order book.
265	MDUpdateType	Υ	For Snapshot and Update subscriptions, this specifies
			the type of market data update requested. Only
			incremental updates are supported.
			INCREMENTAL_REFRESH [1]
> 267	NoMDEntryTypes	Υ	The number of MDEntryType fields requested from the
			gateway.
> 269	MDEntryType	Υ	Comprehensive list of the types of Market Data Entries
			requested whose number is specified in
			NoMDEntryTypes. GW supports Bid, Offer & Trade as
			values.
			BID [0]
			OFFER [1]
			TRADE [2]
> 146	NoRelatedSym	Y	The requested number of Symbols. One or more
			symbols can be requested; each must be specified in
			the Symbol field.
	Standard Footer	Y	

^{† =} EDXM enum value, not standard to FIX 5.0 SP2

MarketDataIncrementalRefresh (OUT)

Tag	Field Name	Req'd	Values/Comments
	Standard Header	Υ	MsgType 35=X
262	MDReqID	N	This is the ID for the Market Data Subscription stream. It
			must be unique, and it is echoed back from the Market
			Data Subscription Request message.
> 268	NoMDEntries	Υ	The number of market data entry groups that clients
			should expect to receive in the snapshot message.
> 279	MDUpdateAction	Υ	This will be the first field in each market data entry group,
			and it indicates the type of update sent on this message
			as outlined below.
			NEW [0] - This indicates a new price level or new order
			has been added to the order book
			CHANGE [1] - This indicates an existing price level or
			order quantity on the order book has been updated
			DELETE [2] - This indicates that a price level or order has
			been removed from the order book
> 269	MDEntryType	†	The type of market data entry, mirroring the specification
		Y	of the subscription request.

			BID [0]
			OFFER [1]
			TRADE [2]
			INDEX_PRICE [3] - Latest spot index price, applicable to
			perpetual futures
			OPEN_INTEREST [C] - Open interest contract units,
			applicable to perpetual futures
			[†] PRELIMINARY_MARK_PRICE [m] - Latest Mark Price of
			the Instrument
			[†] FINAL_MARK_PRICE [n] - Mark price of the instrument
			used for marking realized PnL
			[†] PRELIMINARY_FUNDING_RATE [p] - Real time funding
			rate of the instrument, applicable to perpetual futures
			[†] FINAL_FUNDING_RATE [f] - Funding rate of the
			instrument used for perpetuals funding payments
			,
			Note, perpetuals specific MdEntryType values (3, C, m, n,
			f, p) will only be sent as incremental updates for market
			data subscriptions for FULL_BOOK data.
			_
			For perpetuals contracts, index price, open interest,
			preliminary mark price, and preliminary funding rate will
			be published every 5 seconds. Final funding rate and
			final mark price will be published at an interval
			configured in the contract specification.
> 278	MDEntryID	Υ	A unique ID for the market data entry in the group. It
			should be referenced for a Delete or Change Action.
> 55	Symbol	Υ	The Symbol of the Instrument and the ID of the Order
			Book whose Market Data is provided on this message.
			Only one Symbol per Message is supported.
> 969	MinPriceIncrement	N	The smallest increment in which the instrument's price
			can be increased/decreased.
> 270	MDEntryPx	Υ	The price level of the market data entry.
> 271	MDEntrySize	N	The size of the market data entry at the specified price;
			delta size where MDUpdateAction is Change.
> 1003	TradeID	N	A unique ID for the trade, when reporting trades.
> 9416	ExtendedExecInst	N	Designates that an order is a Retail order or a Retail
			Liquidity Providing order.
			DESIGNATED_RETAIL [R] - Indicates that this is a Retail
			Taker order.
			RETAIL_LIQUIDITY_PROVIDER [T] - Indicates that this is a
			Retail Maker order.
60	TransactTime	N	Time of execution/order creation. UTC timestamp.

Standard Footer	Υ	

^{† =} EDXM enum value, not standard to FIX 5.0 SP2

${\bf Market Data Snapshot Full Refresh~(OUT)}$

Tag	Field Name	Req'd	Values/Comments
5	Standard Header	Υ	MsgType 35=W
911	TotNumReports	Υ	Total number of reports returned in response to a
			request.
262	MDReqID	Υ	This is the ID for the Market Data Subscription stream. It
			must be unique, and it is echoed back from the Market
			Data Subscription Request message.
55	Symbol	Υ	The Symbol of the Instrument and the ID of the Order
			Book whose Market Data is provided on this message.
			Only one Symbol per Message is supported.
969	MinPriceIncrement	N	The smallest increment in which the instrument's price
			can be increased/decreased.
> 268	NoMDEntries	Υ	The number of market data entry groups that clients
			should expect to receive in the snapshot message.
> 269	MDEntryType	Υ	The type of market data entry, mirroring the specification
			of the subscription request.
			BID [0]
			OFFER [1]
			TRADE [2]
> 278	MDEntryID	Υ	A unique ID for the market data entry in the group.
> 270	MDEntryPx	Υ	The price level of the market data entry; these are ranked
			from best to worst in a snapshot message.
> 271	MDEntrySize	N	The size available at the specified price level within the
			group.
> 9416	ExtendedExecInst	N	Indicates that an order is a Retail order or a Retail
			Liquidity Providing order.
			DESIGNATED_RETAIL [R] - Indicates that this is a Retail
			Taker order.
			RETAIL_LIQUIDITY_PROVIDER [T] - Indicates that this is a
			Retail Maker order.
60	TransactTime	N	Time of execution/order creation. UTC timestamp.
	Standard Footer	Υ	

^{† =} EDXM enum value, not standard to FIX 5.0 SP2

MarketDataRequestReject (OUT)

Tag	Field Name	Req'd	Values/Comments
	Standard Header	Υ	MsgType 35=Y
262	MDReqID	Υ	This is the ID for the Market Data Subscription stream. It
			must be unique, and it is echoed back from the Market
			Data Subscription Request message.
281	MDReqRejReason	Υ	The rejection reason:
			UNKNOWN_SYMBOL [0]
			DUPLICATE_MDREQID [1]
			INSUFFICIENT_BANDWIDTH [2]
			INSUFFICIENT_PERMISSIONS [3]
			UNSUPPORTED_SUBSCRIPTIONREQUESTTYPE [4]
			UNSUPPORTED_MARKETDEPTH [5]
			UNSUPPORTED_MDUPDATETYPE [6]
			UNSUPPORTED_AGGREGATEDBOOK [7]
			UNSUPPORTED_MDENTRYTYPE [8]
			UNSUPPORTED_TRADINGSESSIONID [9]
			UNSUPPORTED_SCOPE [A]
			UNSUPPORTED_OPENCLOSESETTLEFLAG [B]
			UNSUPPORTED_MDIMPLICITDELETE [C]
58	Text	N	Describes reject reason.
	Standard Footer	Υ	

Sample Messages:

MarketDataRequest SNAPSHOT PLUS UPDATES (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	114
[MsgType]	35	=	V
[MsgSeqNum]	34	=	234
[SendingTime]	52	=	20240727-21:35:13.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[MDReqID]	262	=	24525
[SubscriptionRequestType]	263	=	1
[MarketDepth]	264	=	0
[MDUpdateType]	265	=	1
[NoRelatedSym]	146	=	1
[Symbol]	55	=	BTC/USD
[NoMDEntryTypes]	267	=	1

[MDEntryType]	269	=	0
[CheckSum]	10	=	002

MarketDataRequest DISABLE PREVIOUS SNAPSHOT PLUS UPDATE REQUEST (IN)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	114
[MsgType]	35	=	V
[MsgSeqNum]	34	=	2354
[SendingTime]	52	=	20240727-21:35:24.000
[SenderCompID]	49	=	USERNAME
[TargetCompID]	56	=	EDXM
[MDReqID]	262	=	256534
[SubscriptionRequestType]	263	=	2
[MarketDepth]	264	=	0
[MDUpdateType]	265	=	1
[NoRelatedSym]	146	=	1
[Symbol]	55	=	BTC/USD
[NoMDEntryTypes]	267	=	1
[MDEntryType]	269	=	0
[CheckSum]	10	=	006

${\tt MarketDataSnapshotFullRefresh\ (OUT)}$

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	914
[MsgType]	35	=	W
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	324
[SendingTime]	52	=	0240727-20:48:27.747
[TotNumReports]	911	=	1
[MDReqID]	262	=	0001
[Symbol]	55	=	BTC/USD
[NoMDEntries]	268	=	5
[MDEntryType]	269	=	0
[MDEntryID]	278	=	3252330397861675008
[MDEntryPx]	270	=	30000
[MDEntrySize]	271	=	1
[MDEntryType]	269	=	0
[MDEntryID]	278	=	3250870108007956480

[MDEntryPx]	270	=	30000
[MDEntrySize]	271	=	1
[MDEntryType]	269	=	0
[MDEntryID]	278	=	3250870108007956480
[MDEntryPx]	270	=	20000
[MDEntrySize]	271	=	271=0.0000001
[MDEntryType]	269	=	1
[MDEntryID]	278	=	3252382806600318978
[MDEntryPx]	270	=	67450.32
[MDEntrySize]	271	=	0.000557
[ExtendedExecInst]	9416	=	T
[MDEntryType]	269	=	1
[MDEntryID]	278	=	3252382743593484293
[MDEntryPx]	270	=	67457.05
[MDEntrySize]	271	=	0.005937
[ExtendedExecInst]	9416	=	T
[CheckSum]	10	=	164

${\it Market Data Incremental Refresh (OUT)}$

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	232
[MsgType]	35	=	X
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	44
[SendingTime]	52	=	20240727-19:53:22.477
[MDReqID]	262	=	2
[NoMDEntries]	268	=	2
[MDUpdateAction]	279	=	2
[MDEntryType]	269	=	1
[MDEntryID]	278	=	3252368965348989338
[Symbol]	55	=	BTC/USD
[MDEntryPx]	270	=	68022.72
[MDUpdateAction]	279	=	0
[MDEntryType]	269	=	1
[MDEntryID]	278	=	3272347897345987339
[Symbol]	55	=	BTC/USD
[MDEntryPx]	270	=	67968.02
[MDEntrySize]	271	=	0.7535934
[TransactTime]	60	=	20240727-19:53:22.434147871

10 = 218

MarketDataRequest REJECT (OUT)

[BeginString]	8	=	FIXT.1.1
[BodyLength]	9	=	68
[MsgType]	35	=	Y
[SenderCompID]	49	=	EDXM
[TargetCompID]	56	=	USERNAME
[MsgSeqNum]	34	=	43
[SendingTime]	52	=	20240727-19:52:01.157
[MDReqID]	262	=	1
[MDReqRejReason]	281	=	6
[CheckSum]	10	=	021