



FIX Trading Specification for Security Token

Version 1.1

Table of Contents

CONTENTS

1.	Introduction	3
2.	Overview.....	3
3.	Service Configuration	3
4.	Fault Redundancy	3
5.	FIX Protocol.....	3
5.1	Data Types and Required Fields	3
5.2	Order and Trade Identifiers.....	4
5.2.1	Client Order ID	4
5.2.2	Order ID	4
5.2.3	Trade Match ID	4
5.2.4	Execution ID.....	4
5.3	Symbology	4
6.	FIX Session Management.....	5
7.	FIX Messages	5
7.1	Standard Header – Incoming Messages	5
7.2	Standard Header – Outgoing Messages	6
7.3	Standard Trailer.....	6
7.4	Administrative Messages	6
7.4.1	Logon	6
7.4.2	Heartbeat.....	7
7.4.3	Test Request	7
7.4.4	Resend Request	7
7.4.5	Reject.....	7
7.4.6	Sequence Reset	8
7.4.7	Logout.....	8
7.5	Application Messages.....	9
7.5.1	New Order Single.....	9
7.5.2	Execution Report – Order Rejected	10
7.5.3	Execution Report – Order Accepted	11
7.5.4	Order Cancel Request.....	12
7.5.5	Order Cancel Reject	12
7.5.6	Execution Report – Order Canceled	13
7.5.7	Order Cancel Replace Request	14
7.5.8	Order Cancel Replace Reject	15
7.5.9	Execution Report – Order Replaced	15
7.5.10	Execution Report – Trade	16
7.5.11	Business Message Reject	17
7.5.12	Trading Session Status	18
	Revision History.....	19

1. INTRODUCTION

This document explains access to the security token (ST) trading services of Osaka Digital Exchange (ODX) PTS via the FIX protocol. It describes the service's configuration and specifies the administrative and application messages. For further information and inquiries regarding trading services or for questions concerning connectivity, please contact ODX PTS Technical Support via email to: sysope@odx.co.jp.

2. OVERVIEW

FIX is an industry standard protocol widely used across financial institutions to implement electronic exchange of securities transactions. By using the FIX protocol, clients are able to access ODX PTS. They can enter new orders, modify or cancel existing orders, and receive execution reports in real-time. The TCP/IP protocol is used for the point-to-point transport layer.

3. SERVICE CONFIGURATION

Access to the ODX PTS security token trading services can be configured to accept and maintain multiple FIX sessions per client. However only one active connection is allowed for each particular FIX session. Every FIX session is subject to a throttling rate limit.

The Cancel on Disconnect feature can be activated by request for any client's FIX session. If Cancel on Disconnect is active, all open orders created over the FIX session that is subsequently disconnected due to any reason will be automatically withdrawn. For every withdrawn order an unsolicited cancellation message will be sent to the client upon connection re-establishment. Cancel on Disconnect is performed on a best effort basis.

4. FAULT REDUNDANCY

ODX PTS provides multiple connections (IP Address and Port Number) per FIX session, one of the them is designated as primary connection. Client can connect to ODX PTS via the primary connection.

In case of connectivity failure, client should first attempt to re-connect the primary connection. If the connection cannot be established, client can attempt to connect the other connections.

A robust FIX client application must maintain sequence numbers as defined by the FIX protocol across all instances. A timeout of at least one second is required between re-connection attempts.

5. FIX PROTOCOL

The messaging described in this specification complies with the standard FIX 4.2 protocol. For details please refer to <http://www.fixprotocol.org/specifications/FIX.4.2>.

This specification follows the standard FIX specification as much as possible. However in limited cases fields and field values have been extended by backporting from the FIX 4.4 specification.

5.1 Data Types and Required Fields

Field data types in this specification are the same as those defined in the standard FIX specification. However, in certain places this specification further restricts field values from those specified in the standard. All field values will be stated in the message specification details.

Fields that are marked as required in the standard FIX specification are also required in this specification, denoted 'Y' in the message definitions. Exceptions to this are marked as not required, denoted 'N'. Additional required fields of this specification over the standard are denoted 'R'.

Limitations This specification applies limitations on particular field lengths.

Tag	Field Name	Data Type	Comments
1	Account	String	Limited to 60 characters
6	AvgPx	Price	Limited to 8 whole number digits and 4 decimal places.
11	ClOrdID	String	Limited to 32 characters.
14	CumQty	Qty	Limited to 9 whole number digits.
17	ExecID	String	Limited to 20 characters.
31	LastPx	Price	Limited to 8 whole number digits and 2 decimal places.
32	LastShares	Qty	Limited to 9 whole number digits.
37	OrderID	String	Limited to 20 whole number digits.
38	OrderQty	Qty	Limited to 9 whole number digits.
41	OrigClOrdID	String	Limited to 32 characters.
44	Price	Price	Limited to 8 whole number digits and 2 decimal places. Maximum value is 21,474,836.46
55	Symbol	String	Limited to 12 characters.
151	LeavesQty	Qty	Limited to 9 whole number digits.
336	TradingSessionID	String	Limited to 20 characters.
880	TrdMatchID	String	Limited to 20 whole number digits.
48	SecurityID	String	Limited to 12 characters.

5.2 Order and Trade Identifiers

5.2.1 Client Order ID

Clients should ensure uniqueness of ClOrdID per FIX session, and duplicate ClOrdID will be rejected.

5.2.2 Order ID

OrderID is set to the unique reference number assigned to the order by the trading system.

5.2.3 Trade Match ID

TrdMatchID is set to the unique reference number assigned to the trade by the trading system.

5.2.4 Execution ID

ExecID uniqueness is only guaranteed per individual FIX session.

5.3 Symbology

System supports specific security by **ISIN** or **Symbol** when submitting New Order Single request.

- ISIN

1. Put ISIN value into Symbol (55)
- Symbol
 1. Set IDSource (22) field to ExchangeSymbol (8)
 2. Put Symbol value in Security (48) field.
 3. It is recommended to put the security code into Symbol (55) to fulfil the mandatory field require.

In the Execution Report, only Symbol(55) includes which is populated with the origin value in the request. However, if IDSource(22) and SecurityID(48) are specified and refer to a valid ISIN, the Symbol(55) is set to the valid ISIN value.

6. FIX SESSION MANAGEMENT

FIX sessions are uniquely defined by the SenderCompID and TargetCompID. Any attempt to establish an additional FIX session using the same SenderCompID and TargetCompID will be rejected.

At logon, clients are identified by their SenderCompID.

Clients are required to log on to the service using the logon message. Once logged on, clients will need to send heartbeat messages to keep the session active.

In case of connection loss clients are required to again log on using the next transmitted sequence numbers while also taking care of any potential message loss in a FIX protocol compliant manner.

IP addresses, port numbers and CompIDs are issued upon application completion.

7. FIX MESSAGES

7.1 Standard Header – Incoming Messages

Tag	Field Name	Data Type	Req'd	Comments
8	BeginString	String	Y	Identifies beginning of new message and protocol version. Always first field in message. Value is FIX.4.2.
9	BodyLength	int	Y	Message length, in bytes, forward to the CheckSum (10) field. Always second field in message.
35	MsgType	String	Y	Defines message type. Always third field in message.
34	MsgSeqNum	int	Y	Integer message sequence number.
43	PossDupFlag	Boolean		Indicates possible retransmission of message with this sequence number. Values: Y = Possible duplicate N = Original transmission
49	SenderCompID	String	Y	Used to identify firm sending message. As assigned by ODX PTS.
52	SendingTime	UTC Timestamp	Y	Time of message transmission (always expressed in UTC).
56	TargetCompID	String	Y	Used to identify receiving firm. As assigned by ODX PTS.
97	PossResend	Boolean		that message may contain information that has been sent under another sequence number. Values: Y = Possible resend N = Original transmission

122	OrigSendingTime	UTC Timestamp		Original time of message transmission (always expressed in UTC).
-----	-----------------	---------------	--	--

7.2 Standard Header – Outgoing Messages

Tag	Field Name	Data Type	Req'd	Comments
8	BeginString	String	Y	Identifies beginning of new message and protocol version. Always first field in message. Value is FIX.4.2.
9	BodyLength	int	Y	Message length, in bytes, forward to the CheckSum (10) field. Always second field in message.
35	MsgType	String	Y	Defines message type. Always third field in message.
34	MsgSeqNum	int	Y	Integer message sequence number.
49	SenderCompID	String	Y	Used to identify firm sending message. As assigned by ODX PTS.
52	SendingTime	UTC Timestamp	Y	Time of message transmission (always expressed in UTC).
56	TargetCompID	String	Y	Used to identify receiving firm. As assigned by ODX PTS.
122	OrigSendingTime	UTC Timestamp		Original time of message transmission (always expressed in UTC).

7.3 Standard Trailer

Tag	Field Name	Data Type	Req'd	Comments
10	Checksum	String	Y	Three bytes, simple checksum. Always defined as three characters. Always last field in message.

7.4 Administrative Messages

7.4.1 Logon

Tag	Field Name	Data Type	Req'd	Comments
Standard header				MsgType (35) = A
98	EncryptMethod	int	Y	Method of encryption. Not supported. Values: 0 = None / other
108	HeartBtInt	int	Y	Heartbeat interval (seconds). Recommended value is 30 seconds.
141	ResetSeqNumFlag	Boolean		Indicates that both sides of the FIX session should reset sequence numbers. Values: Y = Yes, reset sequence numbers N = No
Standard trailer				

7.4.2 Heartbeat

Tag	Field Name	Data Type	Req'd	Comments
Standard header				MsgType (35) = 0
112	TestReqID	String		Required when the heartbeat is the result of a Test Request message.
Standard trailer				

7.4.3 Test Request

Tag	Field Name	Data Type	Req'd	Comments
Standard header				MsgType (35) = 1
112	TestReqID	String	Y	Identifier to be returned in resulting Heartbeat.
Standard trailer				

7.4.4 Resend Request

Tag	Field Name	Data Type	Req'd	Comments
Standard header				MsgType (35) = 2
7	BeginSeqNo	int	Y	Message sequence number of first message in range to be resent.
16	EndSeqNo	int	Y	Message sequence number of last message in range to be resent.
Standard trailer				

7.4.5 Reject

Tag	Field Name	Data Type	Req'd	Comments
Standard header				MsgType (35) = 3
45	RefSeqNum	int	Y	MsgSeqNum (34) of rejected message
58	Text	String		Message explaining reject reason.
371	RefTagID	int		The tag number of the FIX field being referenced.
372	RefMsgType	String		The MsgType (35) of the FIX message being referenced.
373	SessionRejectReason	int		Code to identify reason for a session-level Reject message. Values: 0 = Invalid tag number 1 = Required tag missing 2 = Tag not defined for this message type 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 10 = SendingTime(52) accuracy problem 11 = Invalid MsgType(35) 13 = Tag appears more than once 99 = Other
Standard trailer				

7.4.6 Sequence Reset

Tag	Field Name	Data Type	Req'd	Comments
Standard header				MsgType (35) = 4
36	NewSeqNo	int	Y	New sequence number.
123	GapFillFlag	Boolean		Indicates replacing administrative or application messages which will not be resent. Values: Y = Gap Fill message, MsgSeqNum (34) field valid N = Sequence Reset, ignore MsgSeqNum (34)
Standard trailer				

7.4.7 Logout

Tag	Field Name	Data Type	Req'd	Comments
Standard header				MsgType (35) = 5
58	Text	String		Message explaining logout reason.
Standard trailer				

7.5 Application Messages

7.5.1 New Order Single

Tag	Field Name	Data Type	Req'd	Comments
Standard header – Incoming				MsgType (35) = D
1	Account	String		Account mnemonic as assigned by the institution.
11	ClOrdID	String	Y	Unique identifier for the order as assigned by the institution.
21	HandlInst	Char		Instructions for order handling on Broker trading floor. Values: 1 = Automated execution order, private, no Broker intervention
22	IDSrc	Char		Values: 8 = Exchange Symbol
38	OrderQty	Qty	R	Quantity ordered.
40	OrdType	Char	Y	Order type. Values: 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close
44	Price	Price		Required for limit orders only, i.e. OrdType (40) = 2 (Limit) or B (Limit on Close) Must be absent for market orders, i.e. OrdType(40) = 1 (Market) or 5 (Market on Close)
47	Rule80A	Char		Designates the capacity of the firm placing the order. Absence of this field is interpreted as Principal. Values: A = Agency P = Principal
48	SecurityID	String		Symbol code when the IDSrc(22) is 8 = Exchange Symbol Required when IDSrc(22) is set
54	Side	Char	Y	Side of order. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	ISIN
59	TimeInForce	Char		Specifies how long the order remains in effect. Absence of this field is interpreted as Day. Values: 0 = Day 2 = At the opening
60	TransactTime	UTC Timestamp	Y	Time this order request was initiated. This field is ignored
Standard trailer				

7.5.2 Execution Report – Order Rejected

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = 8
1	Account	String		Account mnemonic as assigned by the institution.
6	AvgPx	Price	Y	Calculated average price of all fills on this order.
11	ClOrdID	String	R	Unique identifier for the order as assigned by the institution.
14	CumQty	Qty	Y	Total number of shares filled.
17	ExecID	String	Y	Unique identifier of execution message as assigned by ODX PTS.
20	ExecTransType	Char	Y	Identifies transaction type. Values: 0 = New
37	OrderID	String	Y	Unique identifier for order as assigned by ODX PTS. Value is NONE if Order is not accepted before.
38	OrderQty	Qty	R	Quantity ordered.
39	OrdStatus	Char	Y	Identifies current status of this order. Values: 8 = Rejected
40	OrdType	Char	R	Order type. Values: 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close
44	Price	Price		Price per share entered.
47	Rule80A	Char	R	Designates the capacity of the firm placing the order. Values: A = Agency P = Principal
54	Side	Char	Y	Side of order. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	ISIN
58	Text	String		Message explaining reject reason.
59	TimeInForce	Char	R	Specifies how long the order remains in effect. Values: 0 = Day 2 = At the opening
103	OrdRejReason	int	R	Code to identify reason for order rejection. Values: 1 = Unknown symbol 6 = Duplicate Order (e.g. duplicate ClOrdID (11)) 13 = Incorrect quantity 16 = Price exceeds current price band 99 = Other
150	ExecType	Char	Y	Describes the specific Execution Report. Values: 8 = Rejected
151	LeavesQty	Qty	Y	Amount of shares open for further execution.
Standard trailer				

7.5.3 Execution Report – Order Accepted

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = 8
1	Account	String		Account mnemonic as assigned by the institution.
6	AvgPx	Price	Y	Calculated average price of all fills on this order. Value is 0.
11	ClOrdID	String	R	Unique identifier for the order as assigned by the institution.
14	CumQty	Qty	Y	Total number of shares filled. Value is 0.
17	ExecID	String	Y	Unique identifier of execution message as assigned by ODX PTS.
20	ExecTransType	Char	Y	Identifies transaction type. Values: 0 = New
37	OrderID	String	Y	Unique identifier for order as assigned by ODX PTS.
38	OrderQty	Qty	R	Quantity accepted.
39	OrdStatus	Char	Y	Identifies current status of this order. Values: 0 = New
40	OrdType	Char	R	Order type. Values: 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close
44	Price	Price		Price per share accepted.
47	Rule80A	Char	R	Designates the capacity of the firm placing the order. Values: A = Agency P = Principal
54	Side	Char	Y	Side of order. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	ISIN
59	TimeInForce	Char	R	Specifies how long the order remains in effect. Values: 0 = Day 2 = At the opening
60	TransactTime	UTC Timestamp	R	Time the transaction represented by this message occurred.
150	ExecType	Char	Y	Describes the specific Execution Report. Values: 0 = New
151	LeavesQty	Qty	Y	Amount of shares open for further execution. Value is the same as that of OrderQty (38).
Standard trailer				

7.5.4 Order Cancel Request

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Incoming				MsgType (35) = F
11	ClOrdID	String	Y	Unique identifier for the order as assigned by the institution.
38	OrderQty	Qty	R	Value will be ignored. Recommended to set to the current total order quantity (including the amount already executed for this chain of orders).
41	OrigClOrdID	String	Y	ClOrdID (11) of the previous order (not the initial order) as assigned by the institution.
54	Side	Char	Y	Side of order. Must match original side. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	Value will be ignored.
60	TransactTime	UTC Timestamp	Y	Time this order request was initiated.
Standard trailer				

7.5.5 Order Cancel Reject

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = 9
11	ClOrdID	String	Y	Unique identifier for the order as assigned by the institution.
37	OrderID	String	Y	Unique identifier for order as assigned by ODX PTS. Value is NONE if CxlRejReason (102) = 1 (Unknown order).
39	OrdStatus	Char	Y	Identifies current status of this order. Values: 0 = New 1 = Partially filled 2 = Filled 4 = Canceled 5 = Replaced 8 = Rejected
41	OrigClOrdID	String	Y	ClOrdID (11) of the previous order (not the initial order) as assigned by the institution.
58	Text	String		Message explaining reject reason.
102	CxlRejReason	int	R	Code to identify reason for cancel rejection. Values: 0 = Too late to cancel 1 = Unknown order 6 = Duplicate ClOrdID (11) received 99 = Other
434	CxlRejResponseTo	Char	Y	Identifies the type of request that a Cancel Reject is in response to. Values: 1 = Order Cancel Request
Standard trailer				

7.5.6 Execution Report – Order Canceled

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = 8
1	Account	String		Account mnemonic as assigned by the institution.
6	AvgPx	Price	Y	Calculated average price of all fills on this order.
11	ClOrdID	String	R	Unique identifier for the order as assigned by the institution.
14	CumQty	Qty	Y	Total number of shares filled.
17	ExecID	String	Y	Unique identifier of execution message as assigned by ODX PTS.
20	ExecTransType	Char	Y	Identifies transaction type. Values: 0 = New
37	OrderID	String	Y	Unique identifier for order as assigned by ODX PTS.
38	OrderQty	Qty	R	Quantity accepted.
39	OrdStatus	Char	Y	Identifies current status of this order. Values: 4 = Canceled
40	OrdType	Char	R	Order type. Values: 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close
41	OrigClOrdID	String		ClOrdID (11) of the previous order (not the initial order) as assigned by the institution.
44	Price	Price		Price per share accepted.
47	Rule80A	Char	R	Designates the capacity of the firm placing the order. Values: A = Agency P = Principal
54	Side	Char	Y	Side of order. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	ISIN
59	TimeInForce	Char	R	Specifies how long the order remains in effect. Values: 0 = Day 2 = At the opening
60	TransactTime	UTC Timestamp	R	Time the transaction represented by this message occurred.
150	ExecType	Char	Y	Describes the specific Execution Report. Values: 4 = Cancelled
151	LeavesQty	Qty	Y	Amount of shares open for further execution. Value is 0.
378	ExecRestatement Reason	int		Code to identify reason for unsolicited cancel. Values: 2 = Verbal change 12 = Cancel on connection loss 99 = Other 103 = Cancel due to order expiration
Standard trailer				

7.5.7 Order Cancel Replace Request

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Incoming				MsgType (35) = G
11	ClOrdID	String	Y	Unique identifier for the order as assigned by the institution.
21	HandlInst	Char		Instructions for order handling on Broker trading floor. Values: 1 = Automated execution order, private, no Broker intervention
38	OrderQty	Qty	R	The new intended total order quantity (including the amount already executed for this chain of orders).
40	OrdType	Char	Y	Order type. Values: 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close
41	OrigClOrdID	String	Y	ClOrdID (11) of the previous order (not the initial order) as assigned by the institution.
44	Price	Price		Required for limit orders only, i.e. OrdType (40) = 2 (Limit) or B (Limit on Close) Must be absent for market orders, i.e. OrdType(40) = 1 (Market) or 5 (Market on Close)
47	Rule80A	Char		Designates the capacity of the firm placing the order. Absence of this field is interpreted as Principal. Must match original order capacity. Values: A = Agency P = Principal
54	Side	Char	Y	Side of order. Must match original side. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	Value will be ignored.
59	TimeInForce	Char		Specifies how long the order remains in effect. Absence of this field is interpreted as Day. Values: 0 = Day 2 = At the opening
60	TransactTime	UTC Timestamp	Y	Time this order request was initiated. This field is ignored
Standard trailer				

7.5.8 Order Cancel Replace Reject

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = 9
11	ClOrdID	String	Y	Unique identifier for the order as assigned by the institution.
37	OrderID	String	Y	Unique identifier for order as assigned by ODX PTS. Value is NONE if CxlRejReason (102) = 1 (Unknown order).
39	OrdStatus	Char	Y	Identifies current status of this order. Values: 0 = New 1 = Partially filled 2 = Filled 4 = Cancelled 5 = Replaced 8 = Rejected
41	OrigClOrdID	String	Y	ClOrdID (11) of the previous order (not the initial order) as assigned by the institution.
58	Text	String		Message explaining reject reason.
102	CxlRejReason	int	R	Code to identify reason for cancel rejection. Values: 0 = Too late to cancel 1 = Unknown order 6 = Duplicate Order (e.g. duplicate ClOrdID (11)) 8 = Price exceeds current price band 99 = Other
434	CxlRejResponseTo	Char	Y	Identifies the type of request that a Cancel Reject is in response to. Values: 2 = Order Cancel/Replace Request
Standard trailer				

7.5.9 Execution Report – Order Replaced

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = 8
1	Account	String		Account mnemonic as assigned by the institution.
6	AvgPx	Price	Y	Calculated average price of all fills on this order.
11	ClOrdID	String	R	Unique identifier for the order as assigned by the institution.
14	CumQty	Qty	Y	Total number of shares filled.
17	ExecID	String	Y	Unique identifier of execution message as assigned by ODX PTS.
20	ExecTransType	Char	Y	Identifies transaction type. Values: 0 = New
37	OrderID	String	Y	Unique identifier for order as assigned by ODX PTS.
38	OrderQty	Qty	R	Quantity accepted.
39	OrdStatus	Char	Y	Identifies current status of this order. Values: 1 = Partially filled 2 = Filled 5 = Replaced

Tag	Field Name	Data Type	Req'd	Comments
40	OrdType	Char	R	Order type. Values: 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close
41	OrigClOrdID	String	R	ClOrdID (11) of the previous order (not the initial order) as assigned by the institution.
44	Price	Price		Price per share accepted.
47	Rule80A	Char	R	Designates the capacity of the firm placing the order. Values: A = Agency P = Principal
54	Side	Char	Y	Side of order. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	ISIN
59	TimeInForce	Char	R	Specifies how long the order remains in effect. Values: 0 = Day 2 = At the opening
60	TransactTime	UTC Timestamp	R	Time the transaction represented by this message occurred. This field is ignored
150	ExecType	Char	Y	Describes the specific Execution Report. Values: 5 = Replaced
151	LeavesQty	Qty	Y	Amount of shares open for further execution.
Standard trailer				

7.5.10 Execution Report – Trade

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = 8
1	Account	String		Account mnemonic as assigned by the institution.
6	AvgPx	Price	Y	Calculated average price of all fills on this order.
11	ClOrdID	String	R	Unique identifier for the order as assigned by the institution.
14	CumQty	Qty	Y	Total number of shares filled.
17	ExecID	String	Y	Unique identifier of execution message as assigned by ODX PTS.
20	ExecTransType	Char	Y	Identifies transaction type. Values: 0 = New
31	LastPx	Price	R	Price of this (last) fill.
32	LastShares	Qty	R	Quantity bought/sold on this (last) fill.
37	OrderID	String	Y	Unique identifier for order as assigned by ODX PTS.
38	OrderQty	Qty	R	Quantity accepted.
39	OrdStatus	Char	Y	Identifies current status of this order. Values: 1 = Partially filled 2 = Filled

Tag	Field Name	Data Type	Req'd	Comments
40	OrdType	Char	R	Order type. Values: 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close
44	Price	Price	R	Price per share accepted.
47	Rule80A	Char	R	Designates the capacity of the firm placing the order. Values: A = Agency P = Principal
54	Side	Char	Y	Side of order. Values: 1 = Buy 2 = Sell
55	Symbol	String	Y	ISIN
59	TimeInForce	Char	R	Specifies how long the order remains in effect. Values: 0 = Day 2 = At the opening
60	TransactTime	UTC Timestamp	R	Time the transaction represented by this message occurred.
150	ExecType	Char	Y	Describes the specific Execution Report. Values: 1 = Partial fill 2 = Fill
151	LeavesQty	Qty	Y	Amount of shares open for further execution.
382	NoContraBrokers	Int		Always "1"
375	ContraBroker	String		Participant ID of the contra side of the trade
880	TrdMatchID	String	R	Identifier assigned to a trade by a matching system.
Standard trailer				

7.5.11 Business Message Reject

Tag	Field Name	Data Type	Req'd	Comments
Standard header - Outgoing				MsgType (35) = j
45	RefSeqNum	int		MsgSeqNum (34) of rejected message
58	Text	String		Message explaining reject reason.
372	RefMsgType	String	Y	The MsgType (35) of the FIX message being referenced.
380	BusinessRejectReason	int	Y	Code to identify reason for a Business Message Reject message. Values: 99 = Throttle Limit Exceeded
Standard trailer				

7.5.12 Trading Session Status

Tag	Field Name		Req'd	Comments
Standard header - Outgoing				MsgType (35) = h
336	TradingSessionID	String	Y	Identifier for Trading Session. Values: 1 = Real Estate ST 2 = Bonds ST
339	TradSesMode	int	R	Trading Session Mode. Values: 1 = Testing 3 = Production
340	TradSesStatus	int	Y	State of the trading session. Values: 2 = Open 3 = Closed
Standard trailer				

REVISION HISTORY

Date	Version	Description
2023-11-15	1.0	Initial version
2024-09-06	1.1	Updated 5.2.1. Add "FIX" to specify "per FIX session"