

TURQUOISE

Technical FIX Specification Trade Reporting

Version 1.0

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Contents

1. Introduction.....	3
2. Common Components.....	4
2.1 Instrument Identification	4
2.2 Clearing Instructions	4
2.2.1 FIX 4.4: Parties	4
3. Trade Capture Report	5
4. Market Data Incremental Refresh	6

TURQUOISE

1. Introduction

This specification illustrates the requirements for Trade Reporting within Turquoise using the FIX 4.4 Protocol. For more information on the FIX protocol and technical guidance for adopting FIX to connect to Turquoise for TQ –LENS and TQ-MTF services please refer to the Turquoise FIX specification;

http://www.tradeturquoise.com/doclibrary/FIX_4.4_Specification.pdf

2. Common Components

2.1 Instrument Identification

Instruments are identified within Turquoise by:

- SecurityID (ISIN Code)
 - Currency
- Or
- Symbol

Tag	Field Name	Required	Comments
22	SecurityIDSource	N	Identifies the class or source of the security ID. Valid Values: 4 ISIN
48	SecurityID	N	A valid ISIN.
15	Currency	N	A valid ISO currency code.
55	Symbol	N	A valid Turquoise symbol.

Note: If the Turquoise symbol is supplied, then SecurityID, SecurityIDSource, and Currency are not required. Either the Symbol or ISIN/Currency combination must be supplied.

2.2 Clearing Instructions

Clearing information is used to specify the trade participants. Below specifies the tags depending on protocol.

2.2.1 FIX 4.4: Parties

Tag	Field Name	Required	Comments
453	NoPartyIDs	Y	The number of parties to the side of the trade. Must be 2 if Trade Report is to be sent to clearing, else 1.
448	PartyID	Y	The clearing member or trade participant.
452	PartyRole	Y	Identifies the type of role of the PartyID. Valid values: 4 Clearing firm 27 BuyerSellerReceiverDeliverer

3. Trade Capture Report

A message type used to enter matched trade reports within Turquoise.

FIX Message	Trade Capture Report (Message Type = AE)
Direction	From Trade Reporter to Turquoise

Tag	Field Name	Required	Comments	
571	TradeReportID	Y	Unique identifier for the Trade, should ensure uniqueness across days and user identity. The TRF sends this to Clearing.	
97	PossResend	Y	Indicates that the details within the FIX message may have been sent before, with a <i>different</i> sequence number, on the same FIX session. The Boolean values for this field can either be Y or N.	
43	PossDupFlag	Y	Indicates that the details within the FIX message may have been sent before, with the same sequence number, on the same FIX session. The Boolean values for this field can either be Y or N.	
150	ExecType	Y	Identifies type of Trade Report. Valid values: 0 New 4 Cancel 5 Replace	
574	MatchType	Y	Identifies the point in the matching process at which this trade was matched. Valid values: 2 Two-party trade report (privately negotiated)	
828	TrdType	Y	Identifies type of trade. Valid values: 0 Regular 1 Block 4 Late 10 After-hours	
<Instrument>		Y		
31	LastPx	Y	Trade price	
32	LastQty	Y	Trade quantity	
60	TransactTime	Y	UTC Timestamp illustrating the time of execution	
552	NoSides	Y	Indicates the number of sides present in the trade report. Must have a value of 2.	
→	54	Side	Y	The side of the execution. Valid values: 1 Buy 2 Sell
→	11	ClOrderID	Y	Order identifier associated with the trade. The TRF send this to Clearing.
→	528	OrderCapacity	Y	Designates the capacity of the trade participant. Valid values: A Agency P Principal
→	→	<Parties>	Y	
852	PublishTrdIndicator	Y	Indicates that the Trade Report must be published to tape. The Boolean values for this field can either be Y or N.	
576	NoClearingInstructions	Y	Number of clearing instructions. Must be 1.	
577	ClearingInstruction	Y	Eligibility of this trade for clearing and central counterparty processing. Valid values: 6 clearAgainstCentralCounterparty 7 excludeFromCentralCounterparty	

4. Market Data Incremental Refresh

A message type used to disseminate trades from Turquoise.

FIX Message	Market Data Incremental Refresh (Message Type = X)
Direction	From Turquoise to Market (on request)

Tag	Field Name	Required	Comments
262	MDReqID	Y	Unique identifier for Market Data Request.
268	NoMDEntries	Y	Number of entries in Market Data message.
279	MDUpdateAction		Type of Market Data update action. Valid values: 0 New 1 Change 2 Delete
285	DeleteReason	N	Reason for deletion. Valid values: 0 CancelTradeBust 1 Error
269	MDEntryType	Y	Type of market data entry. Valid values: 2 Trade
574	MatchType	Y	Identifies the point in the matching process at which this trade was matched. Valid values: 2 Two-party trade report (privately negotiated)
<Instrument>		Y	
278	MDEntryID	Y	Unique Market Data Entry identifier.
280	MDEntryRefID	N	Refers to previous Market Data Entry identifier.
270	MDEntryPx	Y	Price of the Market Data Entry.
271	MDEntrySize	Y	Quantity or volume represented by the Market Data Entry.
272	MDEntryDate	Y	Date of Market Data Entry.
273	MDEntryTime	Y	Time of Market Data Entry.
275	MDMkt	Y	Market posting quote / trade.