

Global Exchanges and Markets Committee HKEx Trade Extensions

[May 2, 2011]

[Revision 0.4]

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Document History

Revision	Date	Author	Revision Comments
0.1	2 March, 2011	Kenneth To (HKEx)	1 st draft
0.2	24 March, 2011	Kenneth To (HKEx)	Revise after receiving comments from GExMC meeting on 21 March.
			Remove proposed new enumeration "Auction" for MatchType(574)
			Remove proposed new field "Internalized" for ExecutionReoprt(35=8) and TradeCaptureReport(35=AE).
			Fill in Chapter 5 and Appendix A.
0.3	13 April, 2011	Kenneth To (HKEx)	Revise after receiving comments from GExMC meeting on 4 April.
			Move the RejectText field and the encoded fields right after the reason code fields in Chapter 5.
0.4	May 2, 2011	FPL	Editted with resolution from GTC meeting regarding RejectText.
			Prepared for public comment period.
As Built	<u>2011-09-05</u>	Jim N	As Built
	2011-12-26	<u>Lisa T</u>	Replaced TBD with assigned enum values.
			Minor edit to enum description in DD to use sentence case.
	2012-02-04	R. Shriver	Revised enum descriptions and elaborations for ExecInst(18) per guidelines.

1 Introduction

HKEx finds few gaps for FIX trade messages such as New Order Single, Execution Report and Order Cancel Reject to cope with existing HKEx equity market trading practices. To fill in the gaps, HKEx requests adding tags and enumerations to the trade messages:

- New enumeration "Ignore Notional Value Checks" for field ExecInst(18) to convey if notional value should be checked for order submission.
- New enumerations "Reference price not available" and "Notional value exceeds threshold" for field OrdRejReason(103) to support price and notional value check.
- Existing field **RejectText(1328), EncodedRejectTextLen** (1664) and **EncodedRejectText** (1665) for messages ExecutionReport(35=8), OrderCancelReject(35=9), TradeCaptureReportAck(35=AR) and QuoteStatusReport(35=AI) to convey reject text.

2 Business Workflow

2.1 Price and Notional Value Check

HKEx will perform price and/or notional value check for the orders submitted by the broker. The broker must indicate in the New Order Single that the order should be checked against price band and/or against the notional value threshold or no checking required. The field ExecInst(18) (value c=Ignore Price Validity Checks) can be used for the price check purpose but additional enumeration for notional value check is needed. Absence of these values in ExecInst(18) means price and/or notional value check is required.

Proposed new enumeration for ExecInst(18):

- "Ignore Notional Value Checks" (TBDx)

HKEx will reject the order with appropriate OrdRejReason(103) in the Execution Report if it fails either price validation check or the notional value check.

OrdRejReason (value=16 - Price exceeds current price band Price) will be returned if the order price exceeds the current price band which is a pre-defined price ticks away from the current reference price. However, reference price may not be available to check against (e.g. on the listing day of a new IPO stock which has no previous closing price for reference) and HKEx will reject with OrdRejReason="Reference price not available(TBD19)" if price validation check is required.

If the notional value (shares x price per share) check fails, HKEx will reject with OrdRejReason="Notional value exceeds threshold (TBD20)" if notional value check is required.

Two new enumerations are proposed to add for OrdRejReason(103) to convey the reject reason due to the price and notional value check:

- "Reference price not available" (TBD19)
- "Notional value exceeds threshold" (TBD<u>20</u>)

Note: The proposed new enumerations for the ExecInst(18) and OrdRejReason(103) are also applicable to the other messages that use these two fields. For example, HKEx will also apply the field ExecInst(18) which is part of the component block TradeReportOrderDetail of the TradeCaptureReport(35=AE) message for Trade Capture function.

2.2 Addition of RejectText(1328) to Execution Report

HKEx allows broker to input broker reference text (a free text) during order input and the broker reference text will be echoed back in the Execution Report. However, use of field Text(58) as broker reference in the New Single Order and echoing back in the Execution Report may be problematic since it also requires Text field in the Execution Report for the reject text for order rejection.

To free up the field Text(58) in the Execution Report for echoing back the broker reference (in the Text field) specified by the broker in the order, it is proposed to add the existing field RejectText(1328) to the Execution Report. The RejectText field should also be added to the other appropriate response messages (OrderCancelReject(35=9), TradeCaptureReportAck(35=AR), QuoteStatusReport(35=AI)) to substantiate the reject reason. The corresponding encoded Reject Text is also proposed to be added to same messages for completeness.

Three fields are proposed to be added to ExecutionReport(35=8), OrderCancelReject(35=9), TradeCaptureReportAck(35=AR), QuoteStatusReport(35=AI):

- RejectText(1328)
- EncodedRejectTextLen(1664)
- EncodedRejectText(1665)

3 Issues and Discussion Points

3.1 Reject Text (1328) versus Text (58)

The Text (58) field can be a persistent attribute of an entity (e.g. order, quote, trade) or a temporary attribute of a request (e.g. RequestForPositions) or response (e.g. RequestForPositionsAck). In case of responses the purpose of the Text(58) is not always entirely clear, e.g. should Text (58) in the TCRAck message echo the text attribute of the trade as conveyed in the TCR field Text (58) or should Text (58) in the TCRAck message provide further information about the acknowledgement (positive or negative)?

Some fields such as PosReqResult (728) explicitly reference Text (58) as the field to contain an explanation. Known usages of the Text (58) field as an attribute of an entity, e.g. to convey a broker reference, could also be covered by adding an explicit field rather than using the generic field. However, there is likely to always be a need for a generic text field, i.e. the underlying problem will remain.

The initial conclusion is that

- a) Text (58) in ExecutionReport and QuoteStatusReport represent attributes of the order or quote;
- b) Text (58) in OrderCancelReject and TCRAck is related to the response only and should be used to explain rejection reasons if needed.

The final conclusion should be documented in the new FIXwiki.

Further discussion in the GExMC on Apr 4 did not lead to a complete resolution of the issue. From above a) was confirmed, i.e. Text(58) as entity attribute of report (possibly unsolicited) messages. Resolution will needed in a wider discussion on the GTC level. It was pointed out that the resolution might need to be applied to additional messages, for example DontKnowTrade.

One of the options for b) is to add RejectText to these messages as well and to have the user check for its existence first when looking for rejection reasons, followed by a lookup of the Text field. Newer applications might choose to only use RejectText for this purpose to be semantically clearer. It was agreed that it is not an option to replace Text with RejectText to avoid impact on older applications that have always used Text to convey rejection reasons.

It was also discussed whether RejectText could become part of the envisaged Business Application Header which would be part of every message. This would create a problem for request messages where such a field has no meaning. The question was raised whether this would justify having two types of headers (for requests and responses). It was pointed out that ISO 20022 already has such a header but only a single one. Furthermore, ISO has very lightweight status messages as responses to requests which only carry referential information to tie it back to the request.

A minor change was agreed relating to the position of the RejectText fields in the message. They should not follow the generic Text fields but the field conveying the rejection code, for example OrdRejReason in the ExecutionReport message.

GTC April 21, 2011, meeting: It was concluded that for the purpose of this proposal that the RejectText field along with the associated EncodedRejectText and EncodedRejectTextLen be added to the OrderCancelReject and TradeCaptureReportAck messages as well. It was also suggested that text be included for the Specification that RejectText should be used to convey additional rejection reasons, while the Text field may be used to echo back information from the initiating message.

A separate gap analysis will be conducted by the GTC technical team to determine which other messages should include the RejectText fields.

4 Proposed Message Flow

There is no change to existing message flow.

5 FIX message tables

5.1 Execution Report

Tag	FieldName	Req'd	ICR	Action	Mappings and	FIX Spec Comments
					Usage Comments	
Standa	rdHeader	Y				MsgType = 8
compo	nent block	N				For use in drop copy
<appl< td=""><td>icationSequenceControl></td><td></td><td></td><td></td><td></td><td>applications. NOT FOR USE</td></appl<>	icationSequenceControl>					applications. NOT FOR USE
						in transactional applications.
37	OrderID	Y				OrderID is required to be
						unique for each chain of
						orders.
198	SecondaryOrderID	N				Can be used to provide order
						id used by exchange or
						executing system.
526	SecondaryClOrdID	N				In the case of quotes can be
						mapped to:
						- QuoteID(117) of a single
						Quote
						- QuoteEntryID(299) of a
						Mass Quote.
527	SecondaryExecID	N				
11	ClOrdID	N				Required when referring to

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1	1		
			orders that where
			electronically submitted over
			FIX or otherwise assigned a
			ClOrdID(11).
			In the case of quotes can be
			mapped to:
			- QuoteMsgID(1166) of a
			single Quote
			- QuoteID(117) of a Mass
			Quote.
41	OrigClOrdID	N	Conditionally required for
			response to a Cancel or
			Cancel/Replace request
			(ExecType=PendingCancel,
			Replace, or Canceled) when
			referring to orders that where
			electronically submitted over
			FIX or otherwise assigned a
			ClOrdID(11). ClOrdID of the
			previous accepted order
			(NOT the initial order of the
			day) when canceling or
702	CIO II : 1 ID	27	replacing an order.
583	ClOrdLinkID	N N	Descriped if accounting to
693	QuoteRespID	N	Required if responding to a
			QuoteResponse message.
			Echo back the Initiator's
			value specified in the
790	OrdStatusReqID	N	message. Required if responding to
190	OlusiaiuskeqiD	11	and if provided on the Order
			Status Request message.
			Echo back the value provided
			by the requester.
584	MassStatusReqID	N	Required if responding to a
	Triusse utus re qre		Order Mass Status Request.
			Echo back the value provided
			by the requester.
961	HostCrossID	N	Host assigned entity ID that
			can be used to reference all
			components of a cross; sides
			+ strategy + legs
911	TotNumReports	N	Can be used when
			responding to an Order Mass
			Status Request to identify the
			total number of Execution
			Reports which will be
			returned.
912	LastRptRequested	N	Can be used when
			responding to an Order Mass
			Status Request to indicate
			that this is the last Execution
			Reports which will be
			Reports which will be

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				returned as a result of the
				request.
compo	component block <parties></parties>			Insert here the set of "Parties" (firm identification) fields defined in "Common
				Components of Application Messages"
229	TradeOriginationDate	N		
compo	onent block <contragrp></contragrp>	N		Number of ContraBrokers repeating group instances.
66	ListID	N		Required for executions against orders which were submitted as part of a list.
548	CrossID	N		CrossID for the replacement order
551	OrigCrossID	N		Must match original cross order. Same order chaining mechanism as ClOrdID/OrigClOrdID with single order Cancel/Replace.
549	CrossType	N		
880	TrdMatchID	N		
17	ExecID	Y		Unique identifier of execution message as assigned by sell-side (broker, exchange, ECN) (will be 0 (zero) forExecType=I (Order Status)).
19	ExecRefID	N		Required for Trade Cancel and Trade Correct ExecType messages
150	ExecType	Y		Describes the purpose of the execution report.
39	OrdStatus	Y		Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx
636	WorkingIndicator	N		For optional use with OrdStatus = 0 (New)
103	OrdRejReason	N		For optional use with ExecType = 8 (Rejected)
1328	RejectText	N	Add	Reason description for rejecting the transaction request.
1664	EncodedRejectTextLen	N	Add	Must be set if EncodedRejectText(1665) field is specified and must immediately precede it.
1665	EncodedRejectText	N	Add	Encoded (non-ASCII characters) representation of the RejectText(1328) field in the encoded format specified

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			via the
			MessageEncoding(347) field.
378	ExecRestatementReason	N	Required for ExecType = D (Restated).
1	Account	N	Required for executions against electronically submitted orders which were assigned an account by the institution or intermediary
660	AcctIDSource	N	
581	AccountType	N	Specifies type of account
589	DayBookingInst	N	
590	BookingUnit	N	
591	PreallocMethod	N	
70	AllocID	N	
compo	onent block <preallocgrp></preallocgrp>	N	Pre-trade allocation instructions.
63	SettlType	N	
64	SettlDate	N	Takes precedence over SettlType value and conditionally required/omitted for specific SettleType values. Required for NDFs to specify the "value date".
574	MatchType	N	
1115	OrderCategory	N	
544	CashMargin	N	
635	ClearingFeeIndicator	N	
compo	onent block <instrument></instrument>	Y	Insert here the set of "Instrument" (symbology) fields defined in "Common Components of Application Messages"
	onent block ncingDetails>	N	Insert here the set of "FinancingDetails" (symbology) fields defined in "Common Components of Application Messages"
	onent block InstrmtGrp>	N	Number of underlyings
54	Side	Y	
compo	nent block <stipulations></stipulations>	N	Insert here the set of "Stipulations" (repeating group of Fixed Income stipulations) fields defined in "Common Components of Application Messages"
854	QtyType	N	
compo	onent block <orderqtydata></orderqtydata>	N	Insert here the set of "OrderQtyData" fields defined in "Common

					Components of Application
				N	Messages" **IMPORTANT
				N	NOTE: OrderQty field is
				r	equired for Single
					nstrument Orders unless
					ejecting or acknowledging
					in order for a CashOrderQty
1002	T. C.	NT		0	or PercentOrder. **
1093	LotType	N N			
	OrdType	N			
423	PriceType Price	N		L L	Required if specified on the
44	Tice	11			order
1092	PriceProtectionScope	N			ridor
99	StopPx	N		F	Required if specified on the
					order
	onent block	N			nsert here the set of
<trigg< td=""><td>geringInstruction></td><td></td><td></td><td></td><td>TriggeringInstruction" fields</td></trigg<>	geringInstruction>				TriggeringInstruction" fields
					lefined in "common
					components of application
	.11	N.T.			nessages"
	onent block	N			nsert here the set of
<pegii< td=""><td>nstructions></td><td></td><td></td><td></td><td>PegInstruction" fields lefined in "Common</td></pegii<>	nstructions>				PegInstruction" fields lefined in "Common
					Components of Application
					Messages"
compo	onent block	N			nsert here the set of
	retionInstructions>	1,			DiscretionInstruction" fields
					lefined in "Common
					Components of Application
					Messages"
839	PeggedPrice	N			The current price the order is
					pegged at
1095	PeggedRefPrice	N			The reference price of a
0.45	D: .: D:	N.T.			begged order.
845	DiscretionPrice	N			The current discretionary orice of the order
847	TargetStrategy	N			The target strategy of the
047	Targetstrategy	11			order
compo	onent block	N			Strategy parameter block
<strategyparametersgrp></strategyparametersgrp>		1,			Junited Parameter Stock
848	TargetStrategyParameters	N		(Deprecated in FIX.5.0)For
					further specification of the
					TargetStrategy
849	ParticipationRate	N			Deprecated in
					FIX.5.0)Mandatory for a
					TargetStrategy=Participate
					order and specifies the target
				p	participation rate.
					For other order types
					optionally specifies a volume imit (i.e. do not be more
<u> </u>			<u> </u>	1 11	mm (i.e. do not de more

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			d d-:	£ 41
			than this perce market volum	
850	TowastStratagyParformange	N	For communic	
830	TargetStrategyPerformance	11	performance of	
			versus the targ	
15	Currency	N	versus the targ	gerstrategy
376	ComplianceID	N		
377	SolicitedFlag	N		
59	TimeInForce	N	Absence of the	is field
39	Time in orce	11	indicates Day	
168	EffectiveTime	N	Time specified	
100	Effective Time	11	at which the o	
			considered val	
432	ExpireDate	N	Conditionally	
		- '	TimeInForce :	
			ExpireTime is	
126	ExpireTime	N	Conditionally	
	1		TimeInForce	
			ExpireDate is	not specified.
18	ExecInst	N	Can contain m	
			instructions, s	pace delimited.
1057	AggressorIndicator	N		
528	OrderCapacity	N		
529	OrderRestrictions	N		
1091	PreTradeAnonymity	N		
582	CustOrderCapacity	N		
32	LastQty	N	Quantity (e.g.	
				n this (last) fill.
			Required if Ex	
			Trade or Trad	
				pe=Stopped,
			represents the	
			for.	nteed/protected
1056	CalculatedCcyLastQty	N		ades to express
1030	CalculatedCcyLastQty	11		amount of the
			other side of the	
			Conditionally	•
			ExecType = T	
			Correct and is	
1071	LastSwapPoints	N	Optionally use	ed when
	_		ExecType = T	
			Correct and is	
			trade. Used to	
			swap points fo	or the swap
			trade event.	
652	UnderlyingLastQty	N		
31	LastPx	N	Price of this (1	
			Required if Ex	
			Trade or Trad	
			Should represe	
<u> </u>			(LastSpotRate	+

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(51		N	LastForwardPoints) rate for F/X orders.). If ExecType=Stopped, represents the price stopped/guaranteed/protected at. Not required for FX Swap when ExecType = Trade or Trade Correct as there is no "all-in" rate that applies to both legs of the FX Swap.
651	UnderlyingLastPx	N	
669	LastParPx	N	Last price expressed in percent-of-par. Conditionally required for Fixed Income trades when LastPx is expressed in Yield, Spread, Discount or any other price type that is not percent-of-par.
194	LastSpotRate	N	Applicable for F/X orders
195	LastForwardPoints	N	Applicable for F/X orders
30	LastMkt	N	If ExecType = Trade (F), indicates the market where the trade was executed. If ExecType = New (0), indicates the market where the order was routed.
336	TradingSessionID	N	
625	TradingSessionSubID	N	
943	TimeBracket	N	
29	LastCapacity	N	
		Y	Quantity on an far further
151	LeavesQty		Quantity open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.
14	CumQty	Y	Currently executed quantity for chain of orders.
6	AvgPx	N	Not required for markets where average price is not calculated by the market. Conditionally required otherwise.
424	DayOrderQty	N	For GT orders on days following the day of the first trade.
425	DayCumQty	N	For GT orders on days following the day of the first

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					trade.
426	DayAvgPx	N			For GT orders on days
					following the day of the first
					trade.
1361	TotNoFills	N			Used to support
					fragmentation. Sum of
					NoFills across all messages
					with the same ExecID.
893	LastFragment	N			Indicates whether this is the
					last fragment in a sequence
					of message fragments. Only
					required where message has
					been fragmented.
compo	onent block <fillsgrp></fillsgrp>	N			Specifies the partial fills
Compo	ment brock of misorps	11			included in this Execution
					Report
427	GTBookingInst	N			States whether executions are
.2,		1			booked out or accumulated
					on a partially filled GT order
75	TradeDate	N			Used when reporting other
73	TradeDate	14			than current day trades.
60	TransactTime	N			Time the transaction
00	TransactTime	11			represented by this
					ExecutionReport occurred
113	ReportToExch	N	+		ExecutionReport occurred
		N			Insert here the set of
	onent block missionData>	IN			"CommissionData" fields
<com< td=""><td>missionData></td><td></td><td></td><td></td><td></td></com<>	missionData>				
					defined in "Common
					Components of Application
					Messages"
					Note: On a fill/partial fill
					messages, it represents value
					for that fill/partial fill. On
					ExecType=Calculated, it
					represents cumulative value
					for the order. Monetary
					commission values are
					expressed in the currency
					reflected by the Currency
					field.
	onent block	N			Insert here the set of
<sprea< td=""><td>adOrBenchmarkCurveData></td><td></td><td></td><td></td><td>"SpreadOrBenchmarkCurve</td></sprea<>	adOrBenchmarkCurveData>				"SpreadOrBenchmarkCurve
					Data" (Fixed Income spread
					or benchmark curve) fields
					defined in "Common
					Components of Application
					Messages"
compo	onent block <yielddata></yielddata>	N			Insert here the set of
					"YieldData" (yield-related)
					fields defined in "Common
					Components of Application
					Messages"
381	GrossTradeAmt	N			

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157	NumDaysInterest	N	
230	ExDate	N	
158	AccruedInterestRate	N	
159	AccruedInterestAmt	N	
738	InterestAtMaturity	N	For fixed income products which pay lump-sum interest at maturity.
920	EndAccruedInterestAmt	N	For repurchase agreements the accrued interest on termination.
921	StartCash	N	For repurchase agreements the start (dirty) cash consideration
922	EndCash	N	For repurchase agreements the end (dirty) cash consideration
258	TradedFlatSwitch	N	
259	BasisFeatureDate	N	
260	BasisFeaturePrice	N	
238	Concession	N	
237	TotalTakedown	N	
118	NetMoney	N	Note: On a fill/partial fill messages, it represents value for that fill/partial fill, on ExecType=Calculated, it represents cumulative value for the order. Value expressed in the currency reflected by the Currency field.
119	SettlCurrAmt	N	Used to report results of forex accommodation trade
120	SettlCurrency	N	Used to report results of forex accommodation trade. Required for NDFs.
compo	onent block <ratesource></ratesource>	N	
155	SettlCurrFxRate	N	Foreign exchange rate used to compute SettlCurrAmt from Currency to SettlCurrency
156	SettlCurrFxRateCalc	N	Specifies whether the SettlCurrFxRate should be multiplied or divided
21	HandlInst	N	
110	MinQty	N	
1089	MatchIncrement	N	
1090	MaxPriceLevels	N	
	nent block layInstruction>	N	Insert here the set of "DisplayInstruction" fields defined in "common components of application messages"

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111	MaxFloor	N	
77	PositionEffect	N	For use in derivatives
			omnibus accounting
210	MaxShow	N	(Deprecated in FIX.5.0)
775	BookingType	N	Method for booking out this order. Used when notifying a broker that an order to be settled by that broker is to be booked out as an OTC derivative (e.g. CFD or similar). Absence of this field
			implies regular booking.
58	Text	N	
354	EncodedTextLen	N	Must be set if EncodedText field is specified and must immediately precede it.
355	EncodedText	N	Encoded (non-ASCII characters) representation of the Text field in the encoded format specified via the MessageEncoding field.
193	SettlDate2	N	(Deprecated in FIX.5.0)Can be used with OrdType = "Forex - Swap" to specify the "value date" for the future portion of a F/X swap.
192	OrderQty2	N	(Deprecated in FIX.5.0)Can be used with OrdType = "Forex - Swap" to specify the order quantity for the future portion of a F/X swap.
641	LastForwardPoints2	N	Can be used with OrdType = "Forex - Swap" to specify the forward points (added to LastSpotRate) for the future portion of a F/X swap.
442	MultiLegReportingType	N	Default is a single security if not specified.
480	CancellationRights	N	For CIV - Optional
481	MoneyLaunderingStatus	N	
513	RegistID	N	Reference to Registration Instructions message for this Order.
494	Designation	N	Supplementary registration information for this Order
483	TransBkdTime	N	For CIV - Optional
515	ExecValuationPoint	N	For CIV - Optional
484	ExecPriceType	N	For CIV - Optional
485	ExecPriceAdjustment	N	For CIV - Optional
638	PriorityIndicator	N	
639	PriceImprovement	N	
851	LastLiquidityInd	N	Applicable only on OrdStatus

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				of Partial or Filled.
compo	nent block <contamtgrp></contamtgrp>	N		Number of contract details in
_	-			this message (number of
				repeating groups to follow)
	nent block	N		Number of legs
<instri< td=""><td>ntLegExecGrp></td><td></td><td></td><td>Identifies a Multi-leg</td></instri<>	ntLegExecGrp>			Identifies a Multi-leg
				Execution if present and non-
				zero.
797	CopyMsgIndicator	N		
compo	onent block <miscfeesgrp></miscfeesgrp>	N		Required if any
				miscellaneous fees are
				reported.
1380	DividendYield	N		
1028	ManualOrderIndicator	N		
1029	CustDirectedOrder	N		
1030	ReceivedDeptID	N		
1031	CustOrderHandlingInst	N		
1032	OrderHandlingInstSource	N		
compo	nent block	N		
<trdr< td=""><td>egTimestamps></td><td></td><td></td><td></td></trdr<>	egTimestamps>			
1188	Volatility	N		
1189	TimeToExpiration	N		
1190	RiskFreeRate	N		
811	PriceDelta	N		
Standa	ırdTrailer	Y		

5.2 Order Cancel Reject

Tag	FieldName	Req'd	ICR	Action	Mappings and	FIX Spec Comments
					Usage Comments	
Standa	ardHeader	Y				MsgType = 9
37	OrderID	Y				If CxlRejReason="Unknown
						order", specify "NONE".
198	SecondaryOrderID	N				Can be used to provide order
						id used by exchange or
						executing system.
526	SecondaryClOrdID	N				
11	ClOrdID	Y				Unique order id assigned by
						institution or by the
						intermediary with closest
						association with the investor.
						to the cancel request or to the
						replacement order.
583	ClOrdLinkID	N				
41	OrigClOrdID	N				ClOrdID(11) which could
						not be canceled/replaced.
						ClOrdID of the previous
						accepted order (NOT the
						initial order of the day) when

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	<u> </u>			canceling or replacing an
				order.
				Required when referring to orders that where
				electronically submitted over
				FIX or otherwise assigned a
20	0.16(Y		ClOrdID.
39	OrdStatus	Y		OrdStatus value after this
				cancel reject is applied.
				If CxlRejReason =
				"Unknown Order", specify
626	XX 1: X 1:	N		Rejected.
636	WorkingIndicator	N		For optional use with
506	0 : 0 D / 177	27		OrdStatus = 0 (New)
586	OrigOrdModTime	N		Den in 16
66	ListID	N		Required for rejects against
				orders which were submitted
		27		as part of a list.
1	Account	N		
660	AcctIDSource	N		
581	AccountType	N		
229	TradeOriginationDate	N		
75	TradeDate	N		
60	TransactTime	N		
434	CxlRejResponseTo	Y		
102	CxlRejReason	N		
1328	RejectText	N	Add	Reason description for
				rejecting the transaction
				<mark>request.</mark>
1664	EncodedRejectTextLen	N	Add	Must be set if
				EncodedRejectText(1665)
				field is specified and must
				immediately precede it.
<mark>1665</mark>	EncodedRejectText	N	Add	Encoded (non-ASCII
				characters) representation of
				the RejectText (1328) field in
				the encoded format specified
.				via the
5 0	Tout	N		MessageEncoding(347) field.
58	Text EncodedTextLen	N N		Must be set if EncodedText
354	Encoded LextLen	IN		
				field is specified and must immediately precede it.
355	EncodedText	N		Encoded (non-ASCII
333	Encoued Lext	14		characters) representation of
				the Text field in the encoded
				format specified via the
				MessageEncoding field.
			i 1	wiessageLifeOding field.
Standa	nrdTrailer	Y		

5.3 Quote Status Report

Tag	FieldName	Req'd	ICR	Action	Mappings and Usage Comments	FIX Spec Comments
Standa	ardHeader	Y				MsgType = AI
649	QuoteStatusReqID	N				
131	QuoteReqID	N				Required when quote is in response to a Quote Request message
117	QuoteID	N				Maps to QuoteID(117) of a single Quote(MsgType=S) or QuoteEntryID(299) of a MassQuote(MsgType=i).
1166	QuoteMsgID	N				Maps to QuoteMsgID(1166) of a single Quote(MsgType=S) or QuoteID(117) of a MassQuote(MsgType=i).
693	QuoteRespID	N				Required when responding to a Quote Response message.
537	QuoteType	N				Quote Type If not specified, the default is an indicative quote
298	QuoteCancelType	N				_
compo	onent block <parties></parties>	N				Insert here the set of "Parties" (firm identification) fields defined in "Common Components of Application Messages"
compo	onent block <targetparties></targetparties>	N				Can be populated with the values provided on the associated QuoteStatusRequest(MsgTyp e=A).
336	TradingSessionID	N				
625	TradingSessionSubID	N				
compo	onent block <instrument></instrument>	N				Conditionally required when reporting status of a single security quote.
<finar< td=""><td>onent block ncingDetails></td><td>N</td><td></td><td></td><td></td><td>Insert here the set of "FinancingDetails" (symbology) fields defined in "Common Components of Application Messages"</td></finar<>	onent block ncingDetails>	N				Insert here the set of "FinancingDetails" (symbology) fields defined in "Common Components of Application Messages"
<undi< td=""><td>nent block nstrmtGrp></td><td>N</td><td></td><td></td><td></td><td>Number of underlyings</td></undi<>	nent block nstrmtGrp>	N				Number of underlyings
54	Side	N				
compo	onent block <orderqtydata></orderqtydata>	N				Required for Tradeable quotes of single instruments
63	SettlType	N				
64	SettlDate	N				Can be used with forex

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				quotes to specify a specific
				"value date"
193	SettlDate2	N		(Deprecated in FIX.5.0)Can
				be used with OrdType =
				"Forex - Swap" to specify the
				"value date" for the future
				portion of a F/X swap.
192	OrderQty2	N		(Deprecated in FIX.5.0)Can
				be used with OrdType =
				"Forex - Swap" to specify the
				order quantity for the future
1.5	G	NT.		portion of a F/X swap.
15	Currency	N		Can be used to specify the
				currency of the quoted prices.
				May differ from the 'normal'
				trading currency of the
compo	nent block <stipulations></stipulations>	N		instrument being quoted
1	Account	N		
660	AcctIDSource	N		
581	AccountType	N		Type of account associated
				with the order (Origin)
	nent block	N		Required for multileg quote
	QuotStatGrp>			status reports
	nent block <quotqualgrp></quotqualgrp>	N		
126	ExpireTime	N		
44	Price	N		
423	PriceType	N		
	nent block	N		
	ndOrBenchmarkCurveData> nent block <yielddata></yielddata>	N		
132	BidPx	N		If E/V quoto, should be the
132	Blurx	IN		If F/X quote, should be the "all-in" rate (spot rate
				adjusted for forward points).
				Note that either BidPx,
				OfferPx or both must be
				specified.
133	OfferPx	N		If F/X quote, should be the
		= '		"all-in" rate (spot rate
				adjusted for forward points).
				Note that either BidPx,
				OfferPx or both must be
				specified.
645	MktBidPx	N		Can be used by markets that
				require showing the current
				best bid and offer
646	MktOfferPx	N		Can be used by markets that
				require showing the current
				best bid and offer
647	MinBidSize	N		Specifies the minimum bid
				size. Used for markets that
				use a minimum and

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			maximum bid size.
134	BidSize	N	Specifies the bid size. If MinBidSize is specified, BidSize is interpreted to
			contain the maximum bid size.
648	MinOfferSize	N	Specifies the minimum offer size. If MinOfferSize is specified, OfferSize is interpreted to contain the maximum offer size.
135	OfferSize	N	Specified the offer size. If MinOfferSize is specified, OfferSize is interpreted to contain the maximum offer size.
110	MinQty	N	
62	ValidUntilTime	N	
188	BidSpotRate	N	May be applicable for F/X quotes
190	OfferSpotRate	N	May be applicable for F/X quotes
189	BidForwardPoints	N	May be applicable for F/X quotes
191	OfferForwardPoints	N	May be applicable for F/X quotes
631	MidPx	N	
632	BidYield	N	
633	MidYield	N	
634	OfferYield	N	
60	TransactTime	N	
40	OrdType	N	Can be used to specify the type of order the quote is for
642	BidForwardPoints2	N	(Deprecated in FIX.5.0)Bid F/X forward points of the future portion of a F/X swap quote added to spot rate. May be a negative value
643	OfferForwardPoints2	N	(Deprecated in FIX.5.0)Offer F/X forward points of the future portion of a F/X swap quote added to spot rate. May be a negative value
656	SettlCurrBidFxRate	N	Can be used when the quote is provided in a currency other than the instrument's 'normal' trading currency. Applies to all bid prices contained in this message
657	SettlCurrOfferFxRate	N	Can be used when the quote is provided in a currency other than the instrument's

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				'normal' trading currency.
				Applies to all offer prices
				contained in this message
156	SettlCurrFxRateCalc	N		Can be used when the quote
				is provided in a currency
				other than the instruments
				trading currency.
13	CommType	N		Can be used to show the
				counterparty the commission
				associated with the
				transaction.
12	Commission	N		Can be used to show the
				counterparty the commission
				associated with the
				transaction.
582	CustOrderCapacity	N		For Futures Exchanges
100	ExDestination	N		Used when routing quotes to
1122	E D d d BC	N		multiple markets
1133	ExDestinationIDSource	N		
775	BookingType	N		
528 529	OrderCapacity OrderRestrictions	N N		
297	QuoteStatus	N		Quote Status
300	QuoteRejectReason	N		Reason Quote was rejected
1328	RejectText	N N	Add	Reason description for
1320	Rejectiext	IN .	Add	rejecting the quote.
1664	EncodedRejectTextLen	N	Add	Must be set if
1004	EncodedicettextEen	1	Auu	EncodedRejectText(1665)
				field is specified and must
				immediately precede it.
1665	EncodedRejectText	N	Add	Encoded (non-ASCII
		_		characters) representation of
				the RejectText(1328) field in
				the encoded format specified
				<mark>via the</mark>
				MessageEncoding(347) field.
58	Text	N		
354	EncodedTextLen	N		
355	EncodedText	N		
Standa	rdTrailer	Y		

5.4 Trade Capture Report Ack

Tag	FieldName	Req'd		Comments
Standa	rdHeader	Y		MsgType = AR
571	TradeReportID	N		Unique identifier for the Trade
				Capture Report
1003	TradeID	N		
1040	SecondaryTradeID	N		

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1041	FirmTradeID	N		
1042	SecondaryFirmTradeID	N		
487	TradeReportTransType	N		Identifies Trade Report message transaction type.
856	TradeReportType	N		Indicates action to take on trade
828	TrdType	N		
829	TrdSubType	N		
855	SecondaryTrdType	N		
1123	TradeHandlingInstr	N		
1124	OrigTradeHandlingInstr	N		
1125	OrigTradeDate	N		Used to preserve original trade date when original trade is being referenced in a subsequent trade transaction such as a transfer
1126	OrigTradeID	N		Used to preserve original trade id when original trade is being referenced in a subsequent trade transaction such as a transfer
1127	OrigSecondaryTradeID	N		Used to preserve original secondary trade id when original trade is being referenced in a subsequent trade transaction such as a transfer
830	TransferReason	N		
compo	nent block <rootparties></rootparties>	N		Insert here the set of "Root Parties" (firm identification) fields defined in "common components of application messages" Range of values on report:
150	ЕхесТуре	N		Type of Execution being reported: Uses subset of ExecType for Trade Capture Reports
572	TradeReportRefID	N		The TradeReportID that is being referenced for some action, such as correction or cancelation
881	SecondaryTradeReportRefI D	N		(Deprecated in FIX.5.0)The SecondaryTradeReportID that is being referenced for some action, such as correction or cancelation
939	TrdRptStatus	N		Status of Trade Report
751	TradeReportRejectReason	N		Reason for Rejection of Trade Report
1328	RejectText	N	Add	Reason description for rejecting the TradeCapture

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				Report(35=AE).
1664	EncodedRejectTextLen	N	Add	Must be set if
	3			EncodedRejectText(1665)
				field is specified and must
				immediately precede it.
1665	EncodedRejectText	N	Add	Encoded (non-ASCII
				characters) representation of
				the RejectText(1328) field in
				the encoded format specified
				<mark>via the</mark>
				MessageEncoding(347) field.
818	SecondaryTradeReportID	N		(Deprecated in FIX.5.0)
263	SubscriptionRequestType	N		Used to subscribe /
				unsubscribe for trade capture
				reports
				If the field is absent, the
820	TradeLinkID	N		value 0 will be the default
820	TradeLinkID	IN		Used to associate a group of trades together. Useful for
				average price calculations.
880	TrdMatchID	N		average price calculations.
17	ExecID	N		Exchanged assigned
1,	Execip	11		Execution ID (Trade
				Identifier)
527	SecondaryExecID	N		
378	ExecRestatementReason	N		
570	PreviouslyReported	N		
423	PriceType	N		
822	UnderlyingTradingSessionI	N		
	D			
823	UnderlyingTradingSession	N		
	SubID			
716	SettlSessID	N		
717	SettlSessSubID	N		
854	QtyType	N		
32	LastQty	N		
31	LastPx	N		
1430	VenueType	N		
1300	MarketSegmentID	N		
1301	MarketID	N		
compo	nent block <instrument></instrument>	Y		Insert here the set of
				"Instrument" (symbology)
				fields defined in "Common Components of Application
				Components of Application Messages"
669	LastParPx	N		Messages
1056	CalculatedCcyLastQty	N		
1071	LastSwapPoints	N		+
15	Currency	N		Primary currency of the
13	Carrency	14		specified currency pair. Used
				to qualify LastQty and
				GrossTradeAmout
				GrossTradeAmout

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120	0.40	N.			
120	SettlCurrency	N			Contra currency of the deal.
					Used to qualify
194	LastSpotRate	N			CalculatedCcyLastQty
194	LastForwardPoints	N			
30	LastMkt	N			
75	TradeDate	N			
715	ClearingBusinessDate	N			
6	AvgPx	N			
819	AvgPxIndicator	N			
442	MultiLegReportingType	N			
824	TradeLegRefID	N			
60	TransactTime	N			Time ACK was issued by matching system, trading system or counterparty
63	SettlType	N			
compo	nent block	N			
	nstrmtGrp>				
573	MatchStatus	N			
574	MatchType	N			
797	CopyMsgIndicator	N			
compo	nent block	N			
<trdr< td=""><td>epIndicatorsGrp></td><td></td><td></td><td></td><td></td></trdr<>	epIndicatorsGrp>				
852	PublishTrdIndicator	N			(Deprecated in FIX.5.0)
1390	TradePublishIndicator	N			
853	ShortSaleReason	N			
	nent block	N			
	nstrmtLegGrp>	1			
	nent block	N			
	egTimestamps>	1			
725	ResponseTransportType	N			Ability to specify whether the
	71				response to the request should
					be delivered inband or via pre-
					arranged out-of-band
					transport.
726	ResponseDestination	N			URI destination name. Used
					if ResponseTransportType is
					out-of-band.
58	Text	N			May be used by the executing
					market to record any
					execution Details that are
					particular to that market
354	EncodedTextLen	N			Must be set if EncodedText
					field is specified and must
					immediately precede it.
355	EncodedText	N			Encoded (non-ASCII
					characters) representation of
					the Text field in the encoded
					format specified via the
					MessageEncoding field.
1015	AsOfIndicator	N			Indicates if the trade is an
					outtrade from a previous day
<u> </u>	1		<u> </u>	1	1 F

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635	ClearingFeeIndicator	N		
component block		N		Insert here here the set of
	ionAmountData>	_,		"Position Amount Data" fields
				defined in "Common
				Components of Application
				Messages"
994	TierCode	N		Indicates the algorithm (tier)
				used to match a trade
1011	MessageEventSource	N		Used to identify the event or
	_			source which gave rise to a
				message
779	LastUpdateTime	N		Used to indicate reports after a
				specific time
991	RndPx	N		Specifies the rounded price to
				quoted precision.
	nent block	N		
<trdc< td=""><td>apRptAckSideGrp></td><td></td><td></td><td></td></trdc<>	apRptAckSideGrp>			
1135	RptSys	N		
381	GrossTradeAmt	N		(LastQty(32) * LastPx(31) or
				LastParPx(669)) For Fixed
				Income, LastParPx(669) is
				used when LastPx(31) is not
				expressed as "percent of par"
				price.
64	SettlDate	N		
1329	FeeMultiplier	N		
Standa	rdTrailer	Y		

6 FIX component blocks

No change for FIX component blocks.

7 Category Changes

Category change is not applicable.

Appendix A - Data Dictionary

Tag	Field Name	Action	Data type	Description	FIXML Abbreviation	Add to / Deprecate from Message type or Component block
18	ExecInst	Add enum	MultipleC harValue	Instructions for order handling on exchange trading floor. If more than one instruction is applicable to an order, this field can contain multiple instructions separated by space. *** SOME VALUES HAVE BEEN REPLACED - See "Replaced Features and Supported Approach" *** (see Volume : "Glossary" for value definitions) New value: x- Ignore notional value checks Valid Values: TO BE CHANGED	@ExecInst	Moved elaborations of enum descriptions to elaborations and changed enum description case to match the standard.
				Va Description Elaboration		

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_	[T					T	
Tag	Field Name	Action	Data type	Description		FIXML	Add to / Deprecate from Message	
							Abbreviation	type or Component block
				Q	Cancel on system failure	<u>Mutually</u>		
					(mutually exclusive with H	exclusive with		
					and 1)	H and 1 (lower		
l l					D: 1	case L).		
				R	Primary peg-(primary market - buy at bid/sell at offer)	Primary market - buy at bid, sell		
					buy at bia/sen at oner)	at offer		
1				T	Fixed peg to local best bid or	<u>at 01101</u>		
					offer at time of order			
				U	Customer display instruction	Used in US		
					(Rule 11Ac1-1/4)	Markets for:		
						SEC Rule		
				37	T. I. I.	11Ac1-1/4.		
				X Y	Trade along			
				a	Try to stop Trailing stop peg			
				b b	Strict limit (No price	No price		
				U	improvement)	improvement.		
1				c	Ignore price validity checks	improvoment.		
				d	Peg to limit price			
				e	Work to target strategy			
				f	Intermarket sweep			
				g	External routing allowed			
				<u>h</u>	External routing not allowed			
				i	Imbalance only			
				k 1	Best execution	N. C		
				I I	Suspend on system failure (mutually exclusive with H	Mutually exclusive with		
					and Q)	H and Q.		
				m	Suspend on trading halt	Mutually		
					(mutually exclusive with J	exclusive with J		
					and K)	and K.		
				<mark>n</mark>	Reinstate on connection loss	<u>Mutually</u>		
					(mutually exclusive with o	exclusive with o		
					and p)	and p.		
				O	Cancel on connection loss (mutually exclusive with n	Mutually exclusive with n		
					and p)	and p.		
				p	Suspend on connection loss	Mutually		
				P	(mutually exclusive with n	exclusive with n		
					and o)	and o.		
				q	Release(mutually exclusive	Mutually		
					with S and w)	exclusive with		
						S and w.		

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Tag	Field Name	Action	Data type	Description	FIXML Abbreviation	Add to / Deprecate from Message type or Component block
				u Minimum guaranteed fill eligible v Bypass non-displayed liquidity w Lock (mutually exclusive with q) Mutually exclusive with q		
103	OrdRejReason	Add enum	int	Code to identify reason for order rejection. Note: Values 3, 4, and 5 will be used when rejecting an order due to pre-allocation information errors. Valid Values: 0 – Broker / Exchange option 1 – Unknown symbol 2 – Exchange closed 3 – Order exceeds limit 18 - Invalid price increment 99 – Other 19 – Reference price not available 20 – Notional value exceeds threshold	@RejRsn	
1328	RejectText	Add to msg				ExecutionReport OrderCancelReject TradeCaptureReportAck QuoteStatusReport
1664	EncodedRejectTextLe n	Add to msg				ExecutionReport OrderCancelReject TradeCaptureReportAck QuoteStatusReport
1665	EncodedRejectText	Add to msg				ExecutionReport OrderCancelReject TradeCaptureReportAck QuoteStatusReport

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Appendix B - Glossary Entries

Term	Definition	Field where used

Appendix C – Abbreviations

Term	Proposed Abbreviation	Proposed Messages, Components, Fields where used

Appendix D - Usage Examples

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