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Revision Date Author **Revision Comments** 0.1 July 9, 2010 Kenneth To (HKEx) 1st draft 0.2 November 22, Review and comments after discussion in GexMC Hanno Klein, 2010 Deutsche Börse Group on Nov 15 Added FIXML abbreviations for new fields Kenneth To (HKEx) New proposed mapping for TradingSessionID and 0.3 November 30. 2010 TradingSessionSubID Change addition of TickTableID to Instrument (or BaseTradingRules) component instead of Security List and Security List Update Report messages. Add ShortSaleIndicator to BaseTradingRules instead of Instrument component block. Kenneth To (HKEx) 0.4 20 December, Revise after receiving comments on Dec 14 and discussion in GExMC on Dec 17 2010 Remove all proposed user-defined values (100plus) for TradingSessionSubID and TradSesStatus 0.5 January 18, 2011 Hanno Klein. Updates after GexMC on Jan 10 to prepare for Deutsche Börse Group GTC submission January 21, 2011 Kenneth To (HKEx) Updates after GTC meeting on Jan 20 to prepare 0.6 for public review. Remove the request for adding ShortSaleIndicator. Similar field was already approved by GTC in other proposal. Use more generic terms "Test Instrument" and "Dummy Instrument". 0.6 2011-08-28 Jim Northey As built

L. Taikitsadaporn

Document History

2011-12-01

Replaced "TBD" with assigned tag numbers and

enum values.

1 Introduction

HKEx finds gaps for some existing FIX pre-trade messages that provide market structure reference data and securities reference data to the FIX clients. HKEx requests to add tags and enumerations to fill the gaps for the following pre-trade messages:

- New field **TradSesControl(1785)** for message Trading Session Status (35=h) to convey if transitions are automatic or manual.
- New field **TradeVolType**(1786) for component block BaseTradingRules to convey whether minimum and maximum order volumes are defined in units or round lots.
- New field Ref**TickTableID**(1787) for component block Instrument to convey the identifier of a spread table.
- New enumerations for field InstrAttribType (871) to flag test and dummy instruments

2 Business Workflow

HKEx sends market definition and security list to the broker system upon session establishment as reference data for subsequent order submission. Trading session status will also be sent to broker system to notify the current market status. These reference data can also be sent on request from the broker system.

2.1 Trading Session Status

HKEx runs the normal published trading timetable during normal trading day and the trading session control is automatic. During some special conditions (e.g. typhoon day), the trading session control may be changed to manual mode which will override the default trading timetable. The trading session control mode is therefore required to deliver to the broker system via the **Trading Session Status** message.

Proposed new field for Trading Session Status (35=h):

• TradSesControl(1785) – To indicate how control of trading session and sub-session transitions are performed

0 – Automatic (default), meaning the trading session and sub-session transitions follow the normal trading timetable.

1 - Manual, meaning the trading session and sub-session transitions defined in the normal trading timetable are overridden by manual control. Broker system will be notified the current trading session status through Trading Session Status message.

2.2 Market Definition

HKEx sends the Market Definition message as part of the start of day reference data to the broker system. It consists of Market ID and the maximum number of lots allowed for each order submission in accordance with the trading rule. The following changes are requested for the BaseTradingRule component block:

Proposed New Field for BaseTradingRules Component Block:

• TradeVolType(1786) – define the type of trade volume applicable for the MinTradeVol and MaxTradeVol

- 0 Number of units (e.g. share, par, currency, contracts) (default)
- $1-Number \ of \ round \ lots$

Proposed description change:

• MaxTradeVol(1140): See description change in Appendix A – Data Dictionary

2.3 Security List and Security List Update Report

HKEx has defined few spread (price ticks) tables and each security is assigned to a spread table based on the nature of the security. Instead of attaching a bulky spread table definition for each security in the Security List message, a spread-table-code is preferred to be tagged to each security.

Other than normal tradable security, HKEx has defined some securities of attribute type "Dummy Stock". It is always halted and is only activated for trade under very special condition (e.g. temporarily assigned for newly listed stock). Another type of security is "Test Stock" which is tradable but has no effect on the positions, exchange turnover etc.

Proposed new field for **Instrument** component block :

• RefTickTableID(1787) – Spread table code referred by the security or symbol.

Proposed new enumerations for InstrAttribType(871):

- Test Instrument(34)
- Dummy Instrument(35)

(InstrAttribValue=Y/N for both new enumerations)

3 Issues and Discussion Points

N/A

4 Proposed Message Flow

There is no change to existing message flow.

5 FIX message tables

5.1 Trading Session Status

Ta	g Field	dName Req	'd Action	Mappings and Usage Comments	FIX Spec Comments
Standa	ardHeader	Y			MsgType = h (lowercase)
compo	onent block	N			
	licationSequenceCo	ntrol>			
335	TradSesReqID	N			Provided for a response to a specific Trading Session Status Request message (snapshot).
1301	MarketID	N			Market for which Trading Session applies
1300	MarketSegmentII	D N			Market Segment for which Trading Session applies
336	TradingSessionID				Identifier for Trading Session
625	TradingSessionSu	bID N			
338	TradSesMethod	N			Method of trading:
339	TradSesMode	Ν			Trading Session Mode
325	UnsolicitedIndica	tor N			Set to 'Y' if message is sent unsolicited as a result of a previous subscription request.
340	TradSesStatus	Y			State of the trading session
1368	TradSesEvent	N			Identifies an event related to the trading status of a trading session
567	TradSesStatusRej	Reason N			Use with TradSesStatus = "Request Rejected"
341	TradSesStartTime	e N			Starting time of the trading session
342	TradSesOpenTim	e N			Time of the opening of the trading session
343	TradSesPreClose	Fime N			Time of the pre-close of the trading session
344	TradSesCloseTim	e N			Closing time of the trading session
345	TradSesEndTime	N			End time of the trading session
1785	TradSesControl	N	Add		Indicates how control of trading session and subsession transitions are performed
387	TotalVolumeTrad				
58	Text	Ν			

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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.
compo	onent block <instrument></instrument>	N		
Standa	ardTrailer	Y		

6 FIX component blocks

6.1 BaseTradingRules component block

		<comp< th=""><th>onent Block B</th><th>aseTradingRules></th><th></th></comp<>	onent Block B	aseTradingRules>	
Tag	g FieldNam	e Req'd	Action	Mappings and Usage Comments	Comments
compo	nent block <tickrules< td=""><td>> N</td><td></td><td></td><td>This block specifies the rules for determining how a security ticks, i.e. the price increments at which it can be quoted and traded, depending on the current price of the security</td></tickrules<>	> N			This block specifies the rules for determining how a security ticks, i.e. the price increments at which it can be quoted and traded, depending on the current price of the security
compo	nent block <lottyper< td=""><td>ules> N</td><td></td><td></td><td>Specifies the lot types that are valid for trading.</td></lottyper<>	ules> N			Specifies the lot types that are valid for trading.
compo	nent block <pricelimit< td=""><td>ts> N</td><td></td><td></td><td>Specifies the price limits that are valid for trading.</td></pricelimit<>	ts> N			Specifies the price limits that are valid for trading.
827	ExpirationCycle	N			
<mark>1786</mark>	TradeVolType	N	Add		Defines the unit in which MinTradeVol and MaxTradeVol express order quantity
562	MinTradeVol	N			The minimum order quantity that can be submitted for an order.
1140	MaxTradeVol	N			The maximum order quantity that can be submitted for a security.

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			For listed derivatives this
			indicates the minimum
			quantity necessary for an
			order or trade to qualify as
			a block trade
1143	MaxPriceVariation	N	The maximum price
			variation of an execution
			from one event to the next
			for a given security.
			Expressed in absolute price
			terms.
1144	ImpliedMarketIndicator	N	
1245	TradingCurrency	N	Used when the trading
			currency can differ from the
			price currency
561	RoundLot	Ν	Trading lot size of security
1377	MultilegModel	N	Used for multileg security
	-		only. Defines whether the
			security is pre-defined or
			user-defined. Not that value
			= 2 (User-defined, Non-
			Securitized, Multileg) does
			not apply for Securities.
1378	MultilegPriceMethod	Ν	Used for multileg security
	-		only. Defines the method
			used when applying the
			multileg price to the legs.
423	PriceType	Ν	Defines the default Price
			Type used for trading.
		<comp< td=""><td>nent Block BaseTradingRules></td></comp<>	nent Block BaseTradingRules>

6.2 Instrument component block

	<component block="" instrument=""></component>					
Tag	FieldName	Req'd	Action	Mappings and Usage Comments	Comments	
55	Symbol	Ν			Common, "human understood" representation of the security. SecurityID value can be specified if no symbol exists (e.g. non- exchange traded Collective Investment Vehicles) Use "[N/A]" for products which do not have a symbol.	
65	SymbolSfx	N			Used in Fixed Income with a value of "WI" to indicate "When Issued" for a security to be reissued under an old CUSIP or ISIN or with a value of "CD" to indicate a EUCP with lump-sum interest rather than	

			discount price.
48	SecurityID	N	Takes precedence in identifying
40	SecurityID	19	security to counterparty over
			Security AltID block. Requires
		N 7	 SecurityIDSource if specified.
22	SecurityIDSource	Ν	Required if SecurityID is
			 specified.
compon	ent block <secaltidgrp></secaltidgrp>	Ν	Number of alternate Security
			Identifiers
460	Product	Ν	Indicates the type of product the
			security is associated with (high-
			level category)
1227	ProductComplex	Ν	Identifies an entire suite of
			products for a given market. In
			Futures this may be "interest
			rates", "agricultural", "equity
			indexes", etc
1151	SecurityGroup	N	An exchange specific name
	~ 1		assigned to a group of related
			securities which may be
			concurrently affected by market
			events and actions.
461	CFICode	N	Indicates the type of security using
101	crieode	1	ISO 10962 standard, Classification
			of Financial Instruments (CFI
			code) values. It is recommended
			that CFICode be used instead of
			SecurityType for non-Fixed Income instruments.
1.67	G :	N	
167	SecurityType	Ν	It is recommended that CFICode
			be used instead of SecurityType
			for non-Fixed Income instruments.
			Required for Fixed Income.
			Refer to Volume 7 - Fixed Income
			Futures and Options should be
			specified using the CFICode[461]
			field instead of SecurityType[167]
			(Refer to Volume 7 -
			Recommendations and Guidelines
			 for Futures and Options Markets.)
762	SecuritySubType	Ν	Sub-type
			qualification/identification of the
			SecurityType (e.g. for
			SecurityType="MLEG"). If
			specified, SecurityType is
			required.
200	MaturityMonthYear	N	Specifies the month and year of
200		- 1	maturity. Applicable for
			standardized derivatives which are
			typically only referenced by month and user ($a \in S \otimes P$ futures). Note
			and year (e.g. S&P futures). Note
			MaturityDate (a full date) can also
			be specified.
541	MaturityDate	Ν	Specifies date of maturity (a full

h 				
				date). Note that standardized
				derivatives which are typically
				only referenced by month and year
				(e.g. S&P futures).may use
				MaturityMonthYear and/or this
				field.
				When using MaturityMonthYear,
				it is recommended that markets
				and sell sides report the
				MaturityDate on all outbound
				messages as a means of data
				enrichment.
				For NDFs this represents the fixing
				date of the contract.
1079	MaturityTime	N		For NDFs this represents the fixing
1079	WaturityTime	IN		time of the contract. It is optional
066	SattleOnOnex Els -	N		to specify the fixing time. Indicator to determine if
966	SettleOnOpenFlag	N		
1040		N		Instrument is Settle on Open.
1049	InstrmtAssignmentMetho d	N		
965	SecurityStatus	Ν		Gives the current state of the
				instrument
224	CouponPaymentDate	Ν		Date interest is to be paid. Used in
				identifying Corporate Bond issues.
1449	RestructuringType	N		
1450	Seniority	N		
1451	NotionalPercentageOutsta nding	N		
1452	OriginalNotionalPercenta geOutstanding	N		
1457	AttachmentPoint	Ν		
1458	DetachmentPoint	N		
225	IssueDate	N		Date instrument was issued. For
223	IssueDute	14		Fixed Income IOIs for new issues,
				specifies the issue date.
239	RepoCollateralSecurityTy	N		(Deprecated in FIX.4.4)
	pe			· · ·
226	RepurchaseTerm	N		(Deprecated in FIX.4.4)
227	RepurchaseRate	N		(Deprecated in FIX.4.4)
228	Factor	N		For Fixed Income: Amortization
				Factor for deriving Current face
				from Original face for ABS or
				MBS securities, note the fraction
				may be greater than, equal to or
				less than 1. In TIPS securities this
				is the Inflation index.
				Qty * Factor * Price = Gross
				Trade Amount
				For Derivatives: Contract
1 I				Value Factor by which price must
			1	value i detoi by winten price must
				be adjusted to determine the true

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			futures/options contract. (Qty * Price) * Factor = Nominal Value
255	CreditRating	N	Nominal Value
543	InstrRegistry	N	The location at which records of ownership are maintained for this instrument, and at which ownership changes must be recorded. Can be used in
470	CounterOfficius	N	conjunction with ISIN to address ISIN uniqueness issues. ISO Country code of instrument
470	CountryOfIssue	N	iso Country code of instrument issue (e.g. the country portion typically used in ISIN). Can be used in conjunction with non-ISIN SecurityID (e.g. CUSIP for Municipal Bonds without ISIN) to provide uniqueness.
471	StateOrProvinceOfIssue	N	A two-character state or province abbreviation.
472	LocaleOfIssue	N	The three-character IATA code for a locale (e.g. airport code for Municipal Bonds).
240	RedemptionDate	N	(Deprecated in FIX.4.4)
202	StrikePrice	N	Used for derivatives, such as options and covered warrants
947	StrikeCurrency	Ν	Used for derivatives
967	StrikeMultiplier	N	Used for derivatives. Multiplier applied to the strike price for the purpose of calculating the settlement value.
968	StrikeValue	N	Used for derivatives. The number of shares/units for the financial instrument involved in the option trade.
1478	StrikePriceDetermination Method	Ν	
1479	StrikePriceBoundaryMeth od	N	
1480	StrikePriceBoundaryPreci sion	Ν	
1481	UnderlyingPriceDetermin ationMethod	N	
206	OptAttribute	N	Used for derivatives, such as options and covered warrants to indicate a versioning of the contract when required due to corporate actions to the underlying. Should not be used to indicate type of option - use the CFICode[461] for this purpose.
231	ContractMultiplier	Ν	For Fixed Income, Convertible Bonds, Derivatives, etc. Note: If

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			used, quantities should be
			expressed in the "nominal" (e.g.
			contracts vs. shares) amount.
1435	ContractMultiplierUnit	Ν	
1439	FlowScheduleType	Ν	
969	MinPriceIncrement	Ν	Minimum price increment for the
			instrument. Could also be used to
			represent tick value.
1146	MinPriceIncrementAmou	Ν	Minimum price increment amount
	nt		associated with the
			MinPriceIncrement [969]. For
			listed derivatives, the value can be
			calculated by multiplying
			MinPriceIncrement by
			ContractValueFactor [231]
996	UnitOfMeasure	N	0
1147	UnitOfMeasureQty	Ν	
1191	PriceUnitOfMeasure	Ν	
1192	PriceUnitOfMeasureQty	Ν	
1193	SettlMethod	Ν	Settlement method for a contract.
			Can be used as an alternative to
			CFI Code value
1194	ExerciseStyle	Ν	Type of exercise of a derivatives
			security
1482	OptPayoutType	Ν	
1195	OptPayoutAmount	Ν	Cash amount indicating the pay
			out associated with an option. For
			binary options this is a fixed
110.6		N.	amount
1196	PriceQuoteMethod	N	Method for price quotation
1197	ValuationMethod	Ν	Indicates type of valuation method
1100		ŊŢ	used.
1198	ListMethod	Ν	Indicates whether the instruments
			are pre-listed only or can also be
1100	C D	N	defined via user request
1199	CapPrice	Ν	Used to express the ceiling price of
1200	FloorPrice	N	a capped call Used to express the floor price of a
1200	FIOOIPTICE	IN	
201	PutOrCall	N	capped put
1244	FlexibleIndicator	N N	Used to express option right Used to indicate if a security has
1244	riexidiemulcator	IN	been defined as flexible according
			to "non-standard" means. Analog
			to CFICode Standard/Non-
			standard indicator
1242	FlexProductEligibilityIndi	N	Used to indicate if a product or
1242	cator	14	group of product supports the
	Carol		creation of flexible securities
997	TimeUnit	N	Used to indicate a time unit for the
771	Thirdonic	14	contract (e.g., days, weeks,
			months, etc.)
223	CouponRate	N	For Fixed Income.
223	SecurityExchange	N	Can be used to identify the
207	SecurityExcitalige	11	Can be used to ruentiny the

				security.
970	PositionLimit	Ν		Position Limit for the instrument.
971	NTPositionLimit	Ν		Near-term Position Limit for the
				instrument.
106	Issuer	Ν		
348	EncodedIssuerLen	Ν		Must be set if EncodedIssuer field is specified and must immediately precede it.
349	EncodedIssuer	N		Encoded (non-ASCII characters) representation of the Issuer field in the encoded format specified via the MessageEncoding field.
107	SecurityDesc	Ν		
350	EncodedSecurityDescLen	N		Must be set if EncodedSecurityDesc field is specified and must immediately precede it.
351	EncodedSecurityDesc	N		Encoded (non-ASCII characters) representation of the SecurityDesc field in the encoded format specified via the MessageEncoding field.
compon	ent block <securityxml></securityxml>	Ν		Embedded XML document describing security.
691	Pool	N		Identifies MBS / ABS pool
667	ContractSettlMonth	N		Must be present for MBS/TBA
875	CPProgram	Ν		The program under which a commercial paper is issued
876	CPRegType	Ν		The registration type of a commercial paper issuance
	ent block <evntgrp></evntgrp>	Ν		Number of repeating EventType group entries.
873	DatedDate	Ν		If different from IssueDate
874	InterestAccrualDate	Ν		If different from IssueDate and DatedDate
compon	ent block	Ν		Used to identify the parties listing
	mentParties>			a specific instrument
	ent block lexEvents>	Ν		
1787 [°]	RefTickTableID	N	Add	Spread table code referred by the security or symbol.

7 Appendix A - Data Dictionary

Tag	Field Name	Action	Data type	Description	FIXML Abbreviation	Add to / Deprecate from Message type or Component block
1785	TradSesControl	Add Tag	int	Indicates how control of trading session and subsession transitions are performed. 0 = Automatic (default) 1 = Manual	<mark>@TrdgSesCtrl</mark>	TradingSessionStatus(35=h) message
1786	TradeVolType	Add Tag	int	Define the type of trade volume applicable for the MinTradeVol(562) and MaxTradeVol(1140) 0 – Number of units (e.g. share, par, currency, contracts) (default) 1 – Number of round lots	@TrdVolTyp	BaseTradingRules component block
1787	RefTickTableID	Add Tag	<mark>int</mark>	Spread table code referred by the security or symbol.	@RefTickTblID	Instrument component block
562	MinTradeVol	Change description	Qty	The minimum order quantity (as expressed by TradeVolType(1786)) that can be submitted trading volume for a security	@MinTrdVol	
1140	MaxTradeVol	Change description	Qty	The maximum order quantity (as expressed by TradeVolType(1786)) that can be submitted for a security.	@MaxTrdVol	

Tag	Field Name	Action	Data type	Description	FIXML Abbreviation	Add to / Deprecate from Message type or Component block
871	InstrAttribType	Add value	int	Code to represent the type of instrument attribute 1 = Flat (securities pay interest on a current basis but are traded without interest) 2 = Zero coupon 29 = Tradeable Indicator 99 = Text. Supply the text of the attribute or disclaimer in the InstrAttribValue (872) field. 34 = Test Instrument 35 = Dummy Instrument	@Typ	

8 Appendix B - Glossary Entries

Term	Definition	Field where used
Test Instrument	Instrument that is tradable but has no effect on the positions, exchange turnover etc.	InstrAttribType
Dummy Instrument	Instrument that is normally halted and is only activated for trading under very special conditions (e.g. temporarily assigned for newly listed instrument). Use of a dummy instrument generally applies to systems that are unable to add reference data for new instruments intraday.	InstrAttribType

9 Appendix C – Abbreviations

Term	Abbreviation		
Table	Tbl		

10Appendix D - Usage Examples