FIX for BIST Phase 2

REFERENCE DATA

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1 REFERENCES

[1]

FIX 5.0 SP2 Protocol Specification

http://fixprotocol.org/specifications/fix5.0sp2spec

2 OVERVIEW

This document contains the specification for the FIX interface to Genium INET Reference Data.

The interface is based on the FIX Protocol 5.0 SP2 standard (Financial Information exchange). More detailed information about the standard can be found in FIX specification document see [1].

The interface implemented by NASDAQ OMX follows the FIX specifications as far as possible. In the majority of cases the structure and semantics of the messages are identical to the standard.

In some cases, the protocol has been extended to cover functions not considered by the standard. These extensions are clearly detailed in the document. In other cases, the standard is ambiguous or indicates that the details should be bilaterally agreed between the parties. In these cases this manual provides a detailed description to avoid any possible ambiguity.

To avoid possible duplication in the sources of information, this document does not include explanations of those matters that comply exactly with the standard. Therefore, the standard documentation should be considered as the main source of information for any matter that is not explicitly covered in this manual.

This specification tries not to repeat what is specified in the FIX standard. In many cases however, the FIX standard is, by necessity, more generic than that required for a specific marketplace. In other cases NASDAQ OMX has found reason to clarify matters. NASDAQ OMX tries to be explicit on deviations from the FIX standard specification in order to avoid confusion.

2.1 SUPPORTED FIX MESSAGES

2.1.1 Administrative messages

Logon Logout Sequence Reset Resend Request Test Request Heartbeat Reject

2.1.2 Inbound Application messages

Application Message Request Security Definition Request Security Status Request Price Reference Request

2.1.3 Outbound Application messages

Application Message Request Ack Security Definition Security Definition Update Report Market Definition Trading Session List Security Status Price Reference AtTheMoneyUpdate

2.2 STREAMING REFERENCE DATA OVER FIX

Genium INET Market Data over FIX is implemented using Application Sequencing..

3 THE FIX SESSION

The session layer offers limited standard FIX session support. Ordinary FIX message recovery is not supported. The Resend Request message is supported, but it will always be responded to with a Sequence Reset – gap fill message.

Message recovery is instead supported via application sequencing. See chapter 4 for details.

3.1 COMPANY IDS

The Sender- and TargetCompID define the FIX session. A session can only be active (established) between two hosts simultaneously.

- The Company ID of the marketplace is "BI". This value must be set on:
 - TargetCompID of inbound transactions
 - SenderCompID of outbound transactions
- The Company ID of the client is the participant ID (UC followed by 5 character firm ID).. This id must be set on:
 - SenderCompID of inbound transactions
 - TargetCompID of outbound transactions

3.2 SENDERSUBID

Each inbound business transaction must have the SenderSubID (tag 50) field set to an authenticated user. See the User Authentication section for details on how to authenticate a user. The SenderSubID on incoming transactions will be echoed back in TargetSubID (tag 57) on outbound transactions.

3.3 USER AUTHENTICATION

Each incoming business transaction must have a username set in the SenderSubID field. The user needs must be authenticated for the transaction to be accepted. A user is authenticated by setting the Username (553) and Password (554) in the Logon message.

3.3.1 Renew passwords

A new password may be set by setting the NewPassword (925) field along with the current password in Password. The SessionStatus (1409) field of the Logon returned to the client can be checked to see if the new password was accepted.

3.3.2 Expired passwords

If the password has expired when a client tries to log in, the system will respond with a Logout message with SessionStatus set to 8 – Password expired. To gain access, the client must issue a new Logon message with NewPassword set (along with the expired password in Password). If the new password is not valid, the system will respond with another Logout message. SessionStatus will be set to 3 – New session password does not comply with policy. The client will be able to log in again with another new password.

3.4 LOGON

At Logon, clients are identified by:

CompIDs

IP Address

The Logon Username (553) and Password (554) fields are used to authenticate the client. When the client is authenticated, the system responds with a Logon message to the client.

3.5 HEARTBEAT INTERVALS

Heartbeat intervals are negotiated at Logon using the HeartBtInt (108) field. The system allows heartbeat intervals greater than 10 seconds. **Recommended heartbeat interval is 30 s.** A heartbeat interval set lower than 10 seconds will result in a Logout response.

3.6 ENCRYPTION

The system does not support encryption.

3.7 DATATYPES AND REQUIRED FIELDS

This specification does not change the datatype on any fields defined in the standard FIX specification. There may be places where this specification restricts the value range of a field further than specified in standard FIX. This will be clearly marked in the spec.

All fields listed in this specification that are marked as required in the standard specification, are required also in this specification. This document specifies additional fields as required. These fields are marked with a 'Q' in the required column of the message listings.

3.8 CHARACTER ENCODING

The FIX gateway uses standard US ASCII encoding.

3.9 SESSION LIFETIME

The FIX session lifetime is restricted to one trading day. Unlike ordinary FIX sessions the sequence number restarts at 1 after a disconnect or Logout. Message recovery using standard FIX Resend Requests is not supported. Application Sequencing is used for message recovery.

3.10 FAILOVER AND MESSAGE RECOVERY

Message recovery in this solution is based on Application Sequencing. A client must implement Application Sequencing in order to perform message recovery. For backward compatibility reasons the ordinary FIX session-level message recovery transactions are still supported. But the response to a Resend Request will be an empty Sequence Reset –gap fill message. See chapter 4 for details on Application Sequencing.

All FIX sessions have at least one primary and one secondary gateway to which the session states are fully replicated. This means that regardless to which gateway a client connects, full message recovery is provided.

A client cannot have the same FIX session active towards multiple gateway instances simultaneously.

Failover is as simple as establishing a connection to a backup gateway, and perform message recovery as described above.

NOTE: A client is not allowed to have simultaneous active connections to both a primary and a backup gateway.

3.11 THE STANDARD HEADER

All FIX messages contain a Standard Header. The header contains important information such as session identifiers (CompIDs), sequence numbers and message type and length etc.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
8	BeginString	Y	Identifies beginning of new message and protocol version. ALWAYS FIRST FIELD IN MESSAGE. Valid values: FIXT.1.1
9	BodyLength	Y	Message length, in bytes, forward to the CheckSum field. ALWAYS SECOND FIELD IN MESSAGE.
35	MsgType	Y	Defines message type ALWAYS THIRD FIELD IN MESSAGE.
49	SenderCompID	Y	As specified in separate agreement
50	SenderSubID		Required on inbound transactions. Must be set to a valid authenticated user.
56	TargetCompID	Y	As specified in separate agreement
57	TargetSubID		Should not be populated on inbound transactions. Will contain the value of incoming SenderSubID on outbound transactions.
34	MsgSeqNum	Y	Integer message sequence number.
52	SendingTime	Y	Time of message transmission (always expressed in UTC (Universal Time Coordinated, also known as "GMT")

3.12 THE STANDARD TRAILER

All FIX messages end with a Standard Trailer. The trailer only includes a simple checksum field. The details on how to calculate the checksum can be found in the standard FIX specification.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
10	CheckSum	Y	

3.13 MESSAGE DETAILS

3.13.1 How to interpret the Required (Req'd) column

A 'Y' marks the field as required in standard FIX (and of course also in this implementation). A 'Q' means that the field is required in this implementation although it is not required in standard FIX. No entry at all means the field is optional.

3.13.2 Logon – inbound to Marketplace

The response to a logon is either a Logon, which denotes a successful logon, or a Logout. A client must be prepared to handle failure scenarios including (but not limited to):

A Logon attempt may fail or be rejected for several reasons. The FIX gateway will react differently depending on the kind of failure. The two different actions it may take are:

Silently ignore the Logon.

- If authentication fails (for security reasons).
- If the wrong Sender or Target CompID is specified.
- For other reasons specified in the standard FIX specifications.
- If the FIX gateway has no connection with the backend system. The gateway relies on the backend to persist its state.

Respond with a Logout.

- Logon failure for other reasons than authentication/security.
- The Logout response to a Logon will always contain a note on why in the Text (58) field.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = A
98	EncryptMethod	Y	Encryption not supported. Valid values: 0 = None / Other
108	HeartBtInt	Y	Heartbeat interval. Any value greater than 10 s is accepted.
141	ResetSeqNumFlag	Q	Indicates both sides of a FIX session should reset sequence numbers. Valid values: Y = Yes NOTE : This solution requires resetting the sequence numbers on each Logon. Application Sequencing is used to recover lost messages.
553	Username	Q	User
554	Password	Q	Password.
925	NewPassword		New Password
1137	DefaultApplVerID	Y	The default version of FIX messages used in this session. Valid values: 9 = FIX50SP2
	Standard Trailer	Y	

3.13.3 Logon – outbound from Marketplace

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = A
98	EncryptMethod	Y	Encryption not supported. Valid values: 0 = None / Other
108	HeartBtInt	Y	As specified in inbound Logon. Valid range: Greater than 10 s
141	ResetSeqNumFlag	Q	Indicates both sides of a FIX session should reset sequence numbers. Valid values: Y = Yes NOTE : This solution requires resetting the sequence numbers on each Logon. Application Sequencing is used to recover lost messages.
1409	SessionStatus	Q	Status of the FIX session. Valid values: 0 = Session Active 1 = Session password changed
1137	DefaultApplVerID	Y	The default version of FIX messages used in this session. Valid values: 9 = FIX50SP2
20002	DaysToPwdExpiry		Days to password expiration.
	Standard Trailer	Y	

3.13.4 Logout (in/out)

The Logout message is used to gracefully disconnect a FIX session. When receiving a Logout, the counterparty should respond with a Logout. A Logout can also be the response to an unsuccessful Logon attempt.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = 5
1409	SessionStatus		Status of the FIX session. This field must only be set by the marketplace. Valid values: 0 = Session logout complete 1=Password changed 3= New session password does not comply with policy 4= Session logout complete 5 = Invalid password or user name 6 = Account locked 8 = Password expired 9 = Invalid Session Credentials 100 = Invalid body length – session suspended 101 = Heartbeat interval too low
58	Text		Free text
	Standard Trailer	Y	

3.13.5 Sequence Reset (in/out)

This message has two uses. The common usage is with GapFillFlag set to 'Y', which is used in a response to a Resend Request to indicate that a range of messages will not be resent. This is commonly used to avoid resending administrative messages like Heartbeats.

The other (very rare) usage is to reset the sequence numbers to a higher number to get out of a deadlock. This is only triggered by manual intervention.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = 4
123	GapFillFlag		
36	NewSeqNo	Y	
	Standard Trailer	Y	

3.13.6 Resend Request (in/out)

Resend Request is used to recover messages when a sequence number gap has been detected.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = 2
7	BeginSeqNo	Υ	
16	EndSeqNo	Υ	
	Standard Trailer	Υ	

3.13.7 Heartbeat (in/out)

A heartbeat message is sent at the interval set at Logon. It is also the response to a Test Request message.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Υ	MsgType = 0
112	TestReqID		Identifier included in Test Request message to be returned in resulting Heartbeat. Required when the heartbeat is the result of a Test Request message.
	Standard Trailer	Y	

3.13.8 Test Request (in/out)

Test Request is used to "ping" the counterparty whenever a heartbeat has not arrived at the negotiated heartbeat interval.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = 1
112	TestReqID	Y	Identifier included in Test Request message to be returned in resulting Heartbeat. Required when the heartbeat is the result of a Test Request message.
	Standard Trailer	Υ	

3.13.9 Reject (out)

The Reject, or session-level reject, message is sent whenever the FIX gateway is able to at least partially parse the message, but the message does not adhere to the specification and cannot be delivered to the back-end system.

TAG NUM	FIX FIELD NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = 3
45	RefSeqNum	Y	
371	RefTagID		
372	RefMsgType		
373	SessionRejectReason	Q	Valid values: 0 = Invalid Tag Number 1 = Required Tag Missing 2 = Tag Not Defined For This Message Type 3= Undefined Tag 4= Tag Specified Without A Value 5= Value Is Incorrect Out Of Range For This Tag 6 = Incorrect Data Format For Value 7 = Description problem 8 = Signature problem 9 = Comp ID Problem 10 = Sending Time Accuracy Problem 11 = Invalid Msg Type 12 = XML Validation Error 13 = Tag appearance more than once 14 = Tag specified out of required order 15 = Repeating group fields out of order 16 = Incorrect NumInGroup count for repeating group 17 = Non Data value includes field delimiter SOH character 18 = Invalid Unsupported Application Version 99 = Other
58	Text		
	Standard Trailer	Y	

4 APPLICATION SEQUENCING

4.1 APPLICATION SEQUENCING DETAILS

FIX Application Sequencing is a new concept introduced in FIX 5.0. It allows for a more fine-grained subscription and recovery, where the receiver can dictate what content will be sent. As such, it is very suitable for Reference Data dissemination.

The enabling of reference data is initiated by the client, which sends an Application Message Request.

4.1.1 Application IDs

The Reference Data is separated into logical streams, called an Application. The Application is assigned a unique Application ID. Each Application is sequence numbered separately. When logged in, the client requests enabling/recovery of reference data by sequence number for each Application. Note that all Applications are sent over the same FIX session.

The Application ID used for Reference Data is:

APPL ID	TYPE OF DATA	COMMENT
р	Reference Data	A single Application ID for all reference
IX.		data.

4.1.2 The ApplicationSequenceControl group

Every Reference Data message contains the ApplicationSequenceControl group. The group contains the Application ID and sequence number used in recovery. The receiver needs to track the sequence number for each application. AppIID (1180) contains the Application ID. Tag 1181, ApplSeqNum contains the sequence number.

ApplLastSeqNum contains the sequence number of the last sequence number sent for this Application ID on the current session. This allows gaps in the sequence. A receiver must check this field to avoid unnecessary resends.

The ApplResendFlag (1352) is only set on the responses to a request for resending of Application IDs that support full recovery. Full recovery is not available for Reference Data (see section 4.2.1 for details).

TAG NO	TAG NAME	COMMENT	
1180	ApplicationSequenceControl/	Application ID. Valid values:	
1100	AppIID	R = Reference Data	
1181	ApplicationSequenceControl/ ApplSeqNum Sequence number for this Application		
1350	ApplicationSequenceControl/	Last sequence number for this Application ID.	
1550	ApplLastSeqNum	Used to indicate gaps in the sequence.	
		Set to Y if this message is a result of a resend.	
1050	ApplicationSequenceControl/	Valid values:	
1352	ApplResendFlag	Y = Yes	
		N = No (default if not present)	

4.1.3 The AppIIDRequestGrp

The AppIIDRequestGrp is a repeating group in the Application Message Request message that contains the requested sequence numbers for each Application ID. The following fields are used:

TAG NO	TAG NAME	COMMENT
1351	AppIIDRequestGrp/NoAppIIDs	Number of Application IDs in this request.
1355	ApplIDRequestGrp/RefApplID	Application ID. Valid values: R = Reference Data
1182	ApplIDRequestGrp/ApplBegSeqNum	First requested sequence number. Ignored for non-recoverable Application IDs.
1183	AppIIDRequestGrp/AppIEndSeqNum	Only 0 (zero) is allowed (subscription will always be enabled.

4.2 REQUESTING AND RECOVERING REFERENCE DATA

In this solution Reference Data is sent to the client after an Application Message Request has been issued.

4.2.1 Limitations to Reference Data recovery

The Application Message Request also contains the application sequence numbers which governs recovery of lost data. Note that for reference data, full recovery is not supported. A request will result in enabling the real-time transmission of the data for the Application IDs in the request. The real-time data is preceded with an initial snapshot providing the current state. Regardless of the sequence numbers given in the request, the response will always start at the next sequence number with the real-time data (preceded with a possible snapshot).

4.2.2 Application Message Request

An Application Message Request is a general request to enable reference data as well as to recover lost reference data.

The message contains a repeating group with one entry for each *Application ID* (see section 4.1.1 for a list of available applications). Each Application ID present in the message enables the "subscription" on that type of data (given that the user is authorized to see said data).

REQUEST SEQUENCE NUMBERS

For each Application ID it is also possible to supply a start and end application sequence number to recover lost messages.

ApplEndSeqNum (1183) is used to define the end of a set of messages to recover. If it is set to 0 it means that a subscription is enabled. In this solution a request for an Application ID always enables the subscription, *ApplEndSeqNum must be set to 0.*

NOTE: As a consequence of always enabling a subscription, subsequent requests for the same Application ID after Logon will result in a reject.

ApplBegSeqNum (1182) is used to set the beginning of the messages to be sent.

- For the non-recoverable Application IDs this value is ignored. A snapshot will always be sent prior to the real-time messages.
- For the fully recoverable Application IDs, this value will dictate the starting point of the recovery. If ApplBegSeqNum
 is higher than the last sequence number, real-time messages will be enabled without any recovery.

NOTE: The receiver *must* keep track of the sequence numbers on each Application ID received to be able to recover in any situation where messages have been lost.

NOTE 2: Complete message recovery for all reference data is not possible.

The Response to an Application Message Request is an Application Message Request Ack. If the request was successful, the Ack will be followed by Reference Data messages.

4.2.3 Application Message Request Ack

The Application Message Request Ack (request ack) message is the response to an Application Message Request.

The ApplResponseType field (1348) signals if the request was successful or not.

5.2.3.1 SUCCESSFUL REQUESTS

For a completely successful request, the request ack will contain:

ApplResponseType = 0 (Request successfully processed)

Following the Application Message Request Ack, the messages will always be sent in the following order:

- 1. Market Definitions
- 2. Trading Session List
- 3. Security Definitions
- 4. Security Statuses
- 5. Price References

NOTE: A request may fail for some Application IDs, but still be successful for other.

5.2.3.2 REQUESTS FAILING FOR ONE OR MORE APPLICATION IDS

If a request is made for a non-existent application id, the request ack will contain:

- ApplResponseType = 1 (application does not exist)
- ApplResponseError = 0 (application does not exist) for that Application ID.

If a request is made for an application already requested previously, the request ack will contain:

- ApplResponseType = 3 (Duplicate requests for application)
- ApplResponseError = 3 (Duplicate requests for application) for that Application ID.

If a request is made for an application with ApplEndSeqNum (1183) not set to 0 (zero), the following will be returned in the request ack:

• ApplResponseError = 1 for that Application ID.

5 REFERENCE DATA

5.1 INTRODUCTION

The systems allow the transmission of Security Definitions, Market Definitions, Security Statuses, Price References and Trading Session Lists. To enable Reference Data the receiver logs in and sends an Application Message Request.

An Application Message Request is a general request for reference data. The same message is also used to recover lost messages. A successful Application Message Request returns one or more Reference Data messages.

The System also supports requests for Security Status, Security Definition and Price Reference which will send out information for a single instrument without setting up a subscription. The unsolicited indicator (tag 325) will indicate if the Security Definition, Security Status or Price Reference message was sent out as part of a subscription or not.

5.2 REQUESTING REFERENCE DATA

In this solution Reference Data is sent to the client after an Application Message Request has been issued. All Reference Data messages are enabled by this single request. See chapter 4 for details.

The System also supports requests for Security Statuses, Security Definitions and Price References without setting up a subscription by sending in a Application Message Request.

5.3 MAIN WORKFLOW

5.3.1 Security Definition

The Security Definition is used to publish start-of-day reference data for each tradable security in the system. For intraday updates the Security Definition Update Report is used. Price field and corporate action updates will not trigger a Security Definition Update Message.

5.3.2 Market Definition

The Market Definition message is used to publish information on the market structure of the marketplace. Each tradable security belongs to one market (represented by one Market Definition message).

5.3.3 Trading Session List

The Trading Session List message contains all trading states (Trading Sessions) the instruments can be in. It contains information on Trading Rules, Matching Rules, and allowed order types for each state.

NASDAQ OMX Extension: TradingSessionID (336) contains the actual ID of the state. Security Status messages also contain this ID to identify the state it refers to. This is in contrast to standard FIX where TradingSessionID contains enums such as DAY, HALFDAY etc.

5.3.4 Security Status

All session State change information is sent on the instrument level using the Security Status message. The Security Status message also contains information about last traded price and corporate actions.

5.3.5 Price Reference

Price reference contains reference price, current upper and lower limits, base price and previous day closing price for an instrument.

For price limits both the static and current price limits will be considered when this message is sent. The disseminated range will be the smallest allowed range.

Example:

The static price limits are: 10.00 - 10.50The dynamic price limits are: 10.10 - 10.60Result: The disseminated price limits are: 10.10 - 10.50

When there is fixed matching there is no allowed price limit range. In such a case the upper and lower limit values sent in fix will be the same as the base price. When there is no price limits the upper and lower price limit tags will not be sent at all.

5.4 MESSAGE DETAILS

5.4.1 Security Definition (out)

TAG	ΕΙΧ ΤΔ	G NAME	REQ'D	COMMENT
		l Header	Y	MsgType = d
		onSequenceControl/		Application ID. Valid values:
1180	AppIID		Q	R = Reference Data
				Application sequence number assigned to the
	Applicati	onSequenceControl/		message by the application generating the
1181	ApplSeq		Q	message.
				The previous sequence number in the
				application sequence stream. Permits an
	Applicati	onSequenceControl/		application to publish messages with sequence
1350	ApplLast	SeqNum	Q	gaps where it cannot be avoided.
55	Symbol		Q	Short name.
107	Security	Desc		Long name
48	Security	D	Q	Orderbook ID
				Valid values:
22	Security	DSource	Q	M = Marketplace-assigned identifier
				Valid values:
				1 = Options
				2 = Forward
				3 = Futures
				4 = FRA
				5 = Cash
				6 = Payment
				7 = Exchange Rate
				8 = Interest rate swap
				9 = REPO
				11 = Combination 12 = Guarantee
				13 = OTC general
				14 = Equity warrant
				15 = Security lending
				17 = Strip
167	Security	Туре		18 = Certificates
541	Maturity			Date of Maturity.
20041	NoCoup			Number of listed coupons
\rightarrow	223	CouponRate		• •
\rightarrow	224	CouponPaymentDate		
306	Underlyi			
		-		Specifies the ratio or multiply factor to convert
				from "nominal" units (e.g. contracts) to total
231	Contract	Multiplier		units (e.g. shares).
				Used to indicate if a security has been defined
1244	Flexiblel	ndicator		as flexible according to "non-standard" means.
				Used to indicate if a product or group of product
1242	FlexProc	luctEligibilityIndictor		supports the creation of flexible securities

			Number of underlying instruments. This group	
			is only set if the instrument is derived from an	
			underlying instrument.	
711	Nallada	rh vin an	NOTE: Underlying information will only be set if	
	NoUnde 311		the underlying is traded within the system.	
\rightarrow	309	UnderlyingSymbol	Underlying identity.	
\rightarrow	309	UnderlyingSecurityID	Orderbook ID of underlying Valid values:	
	305	LinderheingSeguritulDSeuree		
\rightarrow	318	UnderlyingSecurityIDSource	M = Marketplace-assigned identifier	
\rightarrow	310	UnderlyingCurrency	Underlying security's Currency. Number of Collateral underlying instruments.	
			This group is only set if the instrument have a	
21019	NoCollU	nderlyings	related Collateral.	
\rightarrow	21020	CollUnderlyingSymbol	Underlying identity.	
	21020	CollUnderlyingSecurityID	Orderbook ID of underlying	
,	21021		Valid values:	
\rightarrow	21022	CollUnderlyingSecurityIDSource	M = Marketplace-assigned identifier	
\rightarrow	21022	CollUnderlyingCurrency	Underlying security's Currency.	
,	21020	Conondenyingourrency	Specifies the month and year of maturity.	
200	Maturity	MonthYear	Format: YYYYMM	
200	watanty		Indicates whether an option contract is a put or	
			call. Valid values:	
			0 = Put	
201	PutOrCa	all	1 = Call	
202	StrikePr		Strike Price for an Option.	
15	Currenc		Currency of exercise / subscription / strike price	
21001		sification	Instrument classification grouping	
20035		JingDate	Date of Last Trading	
20037		dingDate	Date of First Trading	
20036		dingTime	Time of Last Trading	
20038		dingTime	Time of First Trading	
20039	SectorC		Sector Code	
20040		odeDesc	Sector Code Description	
225	IssueDa			
873	DatedDa			
454	NoSecu		Number of alternate Security Identifiers	
			International Securities Identification Number	
	455	SecurityAltID	(ISIN)	
			Valid values:	
	456	SecurityAltIDSource	4 = ISIN number	
			Number of legs (for strategy/combination)	
			instruments.	
555	NoLegs		NOTE: Only used for strategies.	
\rightarrow	600	LegSymbol	Short name of leg instrument.	
\rightarrow	602	LegSecurityID	Order book ID of leg instrument.	
			Valid values:	
\rightarrow	603	LegSecurityIDSource	M = Marketplace-assigned identifier	
			The ratio of quantity for this individual leg	
\rightarrow	623	LegRatioQty	relative to the entire multileg security.	
			The side of this individual leg (multileg	
			security). Valid values:	
\rightarrow	624	LegSide	B = As Defined	

			C = Opposite
			Number of market segments on which the
			u u u u u u u u u u u u u u u u u u u
4040	No Marila 40 a pres a sta		security is traded.
1310	NoMarketSegments	Q	Will always be 1.
\rightarrow	1301 MarketID	Q	Name of the market
			Market Segment Code.
			Valid Values:
			CMF = VIOP – EMTIA VIS – TRY
			CRF = VIOP – DOVIZ VIS – TRY
			CRFU = VIOP – DOVIZ VIS – USD
			CRO = VIOP – DOVIZ OPSIYON – TRY
			ENF = VIOP – ENERJI VIS – TRY
			ETF = VIOP – BORSA YATIRIM FONU VIS –
			TRY
			FGAP = BAP – GAP – TL
			FGRB = BAP – GCREPO-BANKALARARASI-
			TL
			FGRK = BAP-GCREPO-KUCUK-TL
			FGRN = BAP-GCREPO-NORMAL-TL
			FKEE = BAP-KES-EUR
			FKEK = BAP-KES-KUCUK-TL
			FKET = BAP-KES-NORMAL-TL
			FKEU = BAP-KES-USD
			FMKR = BAP-MKTR-TL
			FNYE = BAP-NIP-EUR
			FNYT = BAP-NIP-TL
			FNYU = BAP-NIP-USD
			FRPY = BAP-PAY REPO – TL
			FTAS = BAP-TAAHHUTLU-SUKUK-TL
			FTME = BAP-TEMERRUT-EUR
			FTMT = BAP-TEMERRUT-TL
			FTMU = BAP-TEMERRUT-USD
			FUTE = BAP-UTP-EUR
			FUTU = BAP-UTP-USD
			FIF = VIOP – YABANCI ENDEKSLER VIS –
			TRY
			G = PAY-GELISEN ISLETMELER PAZARI
			INF = VIOP – ENDEKS VIS – TRY
			INO = VIOP – ENDEKS OPSIYON – TRY
			IP = IHRAC PAZARI
			K = PAY-KOLLEKTIF&YAPILANDIRILMIS UR.
			PAZARI
			KCMH = KMP CUMHURIYET ALTINI
			KES = KESIN ALIM SATIM
			KFIX = KMP ALTIN FIKSING
			KLEN = KMP ODUNC PIYASASI
			KN1E = KMP ALTIN – S. DISI ve CEVHER
			(EUR)
			KN1T = KMP ALTIN – S. DISI ve CEVHER
			(TRY)
			KN1U = KMP ALTIN – S. DISI ve CEVHER
\rightarrow	1300 MarketSegmentID		(USD)

				KN2E = KMP GUMUS – S. DISI ve CEVHER
				(EUR) KN2T = KMP GUMUS – S. DISI ve CEVHER
				(TRY)
				KN2U = KMP GUMUS – S. DISI ve CEVHER
				(USD)
				KN3E = KMP PLATIN – S. DISI (EUR)
				KN3T = KMP PLATIN – S. DISI (TRY)
				KN3U = KMP PLATIN – S. DISI (USD)
				KN4E = KMP PALADYUM – S. DISI (EUR)
				KN4T = KMP PALADYUM – S. DISI (TRY)
				KN4U = KMP PALADYUM – S. DISI (USD)
				KS1E = KMP ALTIN – STANDART (EUR)
				KS1T = KMP ALTIN – STANDART (TRY)
				KS1U = KMP ALTIN – STANDART (USD)
				KS2E = KMP GUMUS – STANDART (EUR)
				KS2T = KMP GUMUS – STANDART (TRY)
				KS2U = KMP GUMUS – STANDART (USD) KS3E = KMP PLATIN – STANDART (EUR)
				KS3E = KMP PLATIN = STANDART (EUK) KS3T = KMP PLATIN = STANDART (TRY)
				KS3U = KMP PLATIN - STANDART (USD)
				KS4E = KMP PALADYUM - STANDART
				(EUR)
				KS4T = KMP PALADYUM – STANDART (TRY)
				KS4U = KMP PALADYUM – STANDART
				(USD)
				KTEK = KMPALTIN TEK FIYAT
				MTF = VIOP – METAL VIS – USD
				N = PAY-ANA PAZAR
				ONF = VIOP – GECELIK REPO VIS – TRY
				PMF = VIOP – KIYMETLI MADENLER VIS –
				TRY
				PMFU = VIOP – KIYMETLI MADENLER VIS –
				Q = PAY-NITELIKLI YATIRIMCI ISLEMLERI PAZARI
				PAZARI S = PAY-PIYASA ONCESI ISLEM
				PLATFORMU
				SSF = VIOP – PAY VIS – TRY
				SSO = VIOP – PAY OPSIYON – TRY
				W = PAY-YAKIN IZLEME PAZARI
				Z = PAY-YILDIZ PAZAR
				E = PAY-EMTIA PAZARI
\rightarrow	1396	MarketSegmentDesc		Market Segment Name
				Number of Tick Rules
				NOTE: Tick Rules are associated with the
\rightarrow	1205	NoTickRu		security, not with the market.
\rightarrow	\rightarrow	1206	StartTickPriceRange	Starting price range for specified tick increment
		1007		Ending price range for the specified tick
\rightarrow	\rightarrow	1207	EndTickPriceRange	increment
				Tick increment for stated price range. Specifies
		1208	TickIncrement	the valid price increments at which a security
		1200		can be quoted and traded

				Number of Tick Rules
				NOTE: Optinal Tick Rules that, if defined, are
\rightarrow	21015	NoCollTi	ckRules	used when this security is used as collateral
				Tick increment for stated price range. Specifies
				the valid price increments at which a security
\rightarrow	\rightarrow	21016	CollTickIncrement	can be quoted and traded
			CollStartTickPriceRan	
\rightarrow	\rightarrow	21017	ge	Starting price range for specified tick increment
			CollEndTickPriceRang	Ending price range for the specified tick
\rightarrow	\rightarrow	21018	e	increment
				Number of Lot Types
				NOTE: Lot Types are associated with the
	1234	NoLotTy	peRules	security, not with the market.
				Lot Type. Valid values:2 = Round Lot
\rightarrow	\rightarrow	1093	LotType	3 = Block Lot
				Lot size of lot type specified in LotType(1093).
				To enter an order for this particular Lot Type
				MatchIncrement needs to be set to this value.
				Note that order quantity must be a multiple of
\rightarrow	\rightarrow	1231	MinLotSize	this value.
\rightarrow	\rightarrow	21010	LotStartPrice	
				The maximum order quantity that can be
				submitted for a security. It is valid only for
\rightarrow	\rightarrow	21012	LotMaxTradeVol	Normal Limit Price Orders.
				The minimum quantity of an order for the
\rightarrow	\rightarrow	21013	LotMinQty	defined price level
\rightarrow	\rightarrow	21068	LotMinQuote	The minimum quote quantity that can be submitted for a security.
				The maximum quote quantity that can be
\rightarrow	\rightarrow	21069	LotMaxQuote	submitted for a security.
				The maximum show quantity allowed in an
\rightarrow	\rightarrow	21009	LotDisplayHighQty	order for the defined price level
				The minimum show quantity allowed in an order
\rightarrow	\rightarrow	21014	LotDisplayLowQty	for the defined price level
				Default limit in case no price source series or
\rightarrow	\rightarrow	21011	LotDefaultQtyLimit	closing price can be found
228	Factor			Price quotation factor
				Corporate Actions currently active for this
				security.
				Valid values:
				01 = R.H. Kullandirilarak Bedelli Sermaye Art
				02 = R.H. Kullandirilmadan Bedlli Sermaye Art
				03 = Bedelsiz Sermaye Artirimi
				04 = Sermaye Azaltimi
				05 = Birlesme / Devralma
				06 = Temettu
				99 = Diger
				Important Note: When multiple corporate
				actions occur, tag 292 is sent with a space
				character between multiple values.
292	Corpora	teAction		(i.e. "292=01 03")
1150		ReferenceP	rice	Reference price.
21003	BasePri			Base price.
2,000	Buoorin			Duco prico.

1116	8 NoRoot	PartyIDs		Number of party id entries (used to show market makers for this security)
\rightarrow	1117	RootPartyID	Q	Party identifier.
				Valid values:
\rightarrow	1118	RootPartyIDSource	Q	D = Proprietary/Custom code
				Identifies the type of role for the PartyID specified. Valid values:
				35 = Liquidity Provider
\rightarrow	1119	RootPartyRole	Q	66 = Market Maker
\rightarrow	1120	NoRootPartySubIDs		Number if party id enteries (used to show market maker's obligation in this security
		1121 RootPartySubID		Valid values:
				11 = Market Hours Continuous Quoting 12 = Market Hours Quote Request
				21 = Off Market Hours Continuous Quoting
\rightarrow	\rightarrow			22 = Off Market Hours Quote Request
\rightarrow	\rightarrow	1122 RootPartySubIDType		Valid value 4001 = Market Maker Obligations
				The two character information field from
21004	Tradin	gMethod		the Instrument Class.
				Y if gross settlement is applied on the
21005	Gross	Settlement		Instrument Class level, otherwise N.
				For Fixed-income market series,
				-Value1 date
				For equity market series,
040				-First trading date for extra-ordinary series.
916	StartD	ate		None if no date is defined.
				For Fixed-income market series, -Value2 date
				For equity market series, Last trading date for extra-ordinary series.
917	EndDa	ate		None if no date is defined.
- 017	Endbo			Values:
				1= Clear against Central Counterparty
577	Clearii	ngInstruction		7 = Exclude from central counterparty
				Indicates whether the message is sent as a
				result of a subscription request or not. Will be
				'N' in initial startup request to FIX client.
325	Unsoli	cited Indicator		Otherwise 'Y'.
21007	Tradin	gSessionName		Name of the Trading Session
21008	Partitio	onld	Q	Which partition this security is traded on.
				Specifies the level of derivation for the
				instrument.
				Valid values:
				0 = Spot
01000	Danius	tivel evel		1 = Derivative on a spot
21026	Deriva	itiveLevel		2 = Derivative on a derivative of level 1
21027	Numb	erOfSharesIssued		Specifies the total number of shares issued for this security.
21021	CITION	ยา บายาเสเซอเออนฮน		Specifies whether the instrument is defined with
				physical delivery or not.
				Valid values:
21028	Physic	calDelivery		Y/N
		,		This is an optional field that provides additional
21029	Multip	lier		information for Warrants/Certificates.

21030	Reference		This is an optional field that provides additional information for Warrants/Certificates.
21032	InstrumentType	Q	Instrument Type
21031	SeriesDesc	Q	Valid values: S – Standard Instrument NS – Non-Standard Instrument
1194	ExerciseStyle		Valid values:0 = European1 = American2 = Bermuda
965	SecurityStatus	Q	Valid values: 1 = Active2 = Inactive
1148	LowLimitPrice		Current lower limit for price limits.
1149	HighLimitPrice		Current upper limit for price limits.
5011	OrderMaxValue		Maximum order value, only applicable for equity market.
38	OrderQty		
159	AccuredInterestAmt		Amount of Accrued Interest for fixed income and fixed income derivatives
1948	CouponFrequencyPeriod		Time unit multiplier for the frequency of fixed
1340			income instruments coupon payment.
1949	CouponFrequencyUnit		Time unit associated with the frequency of fixed income instruments coupon payment.
1950	CouponDayCount		The day count convention used in interest
			calculations for fixed income instruments.
			Valid values:
			1-US30360
			4-EU30360
			6- ACT360
			7- ACT365
			8- ACTAFB
			9- ACTACT ISMA
			17- ACT364
21059	CouponInterest		The coupon interest for the underlying. (Only
21000			applicable for interest-related fixed-income
			instruments.)
21055	OddFirstCoupon		Y if odd-first coupon is used, otherwise N.
21056	OddLastCoupon		Y if odd-last coupon is used, otherwise N.
21057	PremiumUnit		Order entry price unit
21007	Tremumonit		Valid values:
			1 – Price
			2– Yield
			3 – Point
			7 – Basis point
			8 – Clean price
			9 – Dirty price
			12 – Rate
21058	FixedIncomeType		Type of fixed-income underlying. Valid values:
			12 – Type 1 Discounted securities
			13 – Type 2 Fixed rate bonds
			14 – Type 3A Variable rate bonds next coupon
			is known
			15 – Type 4 Index linked strips
			16 – Type 5 Index linked bonds
			17 – Type 6 Euro bonds USD

			18 – Type 7 Euro bonds EUR
			19 – Type 8A Irregular Clean price
			20 – Type 3B Variable rate bonds next coupon
			is unknown
			21 – Type 8B Irregular Dirty price
			22- Type 10A TLREF linked bonds – Simple
			weighted average
			23- Type 10B TLREF linked bonds –
			Compounded
			24- Type 10C TLREF linked bonds – Index
			based Valid values:
1940	AccetTures		
1940	AssetType		Precious Valid values:
1938	AssetClass		5 – Commodity
			Valid values:
1939	AssetSubCla	SS	13 – Metal
			Metal weight unit. The certified weight of the
			precious metal. Valid values:
			KG – kilogram
996	UnitOfMeasu	Iro	GR – gram OZ – Troy ounce
550	Oniconvieasu		The market convention for notation of the metal
21061	FinenessNot	ation	purity
			The conversion factor is used to normalize the
21062	MetalWeight	ConversionFactor	order and trade price
			The purity of the metal, accurate to 4 decimal
			places.
21060	Fineness		Valid range: 0.0001 to 1.0000
1147	UnitOfMeasu	ireQty	The certified weight of the precious metal
21050	NoTradeRep	orts	Number of Trade Reports.
			Number to be used in tag 828 TrdType in Trade Reports. Please refer to the list of supported
\rightarrow	21051	TradeReportCode	Trade Type values supplied by the marketplace.
\rightarrow	21052	MinTradeRepQty	Minimum quantity in Trade Report.
\rightarrow	21053	MaxTradeRepQty	Maximum quantity in Trade Report.
\rightarrow	21064	TrLotsize	Trade Report Lotsize
60	TransactTime	9	Dissemination time = Current time
2304	NoAssetAttri	butes	
			Valid values:
			MetalType
			Shape
\rightarrow	2305	AssetAttributeType	Refinery
			Asset attribute values directly depend on previously selected type.
			For metal types:
			AU – gold
			AG – silver
			PT – platinum
			PD – palladium
			For shape types:
			BA – Bar MB – Mini Bar
			LB – Large Bar
			GB – Granule Bag
			NS – Non-standard
			OR – Ore
	0000	A 14011 1 1 1 1	For refinery types:
\rightarrow	2306	AssetAttributeValue	I – GDL In

		O – GDL Out
		Number of days to maturity date / repo term for
21063	DaysToMaturity / Repo Term	Fixed-Income market series.
		Indicates whether a restriction applies to short
		selling a security.
		Valid values:
		0 = Undefined
		1 = No restrictions
8000	ShortSaleRestriction	2 = Security is not shortable
		Specify what Short Sell validation rule that
		should be used.
		This value is only used by the system for orders
		that are flagged as Short Sell.
		Valid values;
		0 : No validation
		1 : Price greater or equal to LTP
21070	ShortSellValidation	3 : Undefined
21065	IndexClassification	Specify a valid Index Classification
21066	ValueDate	Value date for underlying.
21067	ResetDate	
743	DeliveryDate	Delivery Start Date
		0 : Allowed
		1 : Notice (*)
		2 : Warning (*)
		3 : Not Allowed
		(*) Currently unavailable, reserved for future
		use
21071	PositionIncreasingOrders	Only valid for Derivatives Market
		Number of decimals used in price for the order
21072	NumberOfDecimalInPrice	book.
21073	InstrumentClass	The Instrument class identity.
	Standard Trailer	Υ

5.4.2 Security Definition Request (in)

TAG	FIX TAG NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = c
320	SecurityReqID	Υ	Client-generated identifier.
321	SecurityRequestType	Y	Type of Security Definition request. Valid values: 4 = Symbol
55	Symbol	Q	Short name.
	Standard Trailer	Y	

TAG	FIX TAG I	NAME	REQ' D	COMMENT	
	Standard H	leader	Y	MsgType = BP	
1180	Application AppIID	SequenceControl/	Q	Application ID. Valid values: R = Reference Data	
1181	Application ApplSeqNu	SequenceControl/ Im	Q	Application sequence number assigned to the message by the application generating the message.	
1350	Application ApplLastSe	SequenceControl/ eqNum	Q	The previous sequence number in the application sequence stream. Permits an application to publish messages with sequence gaps where it cannot be avoided.	
980	SecurityUp	dateAction	Q	Valid values: A = Add D = Delete M = Modify	
55	Symbol		Q	Short name	
107	SecurityDe	SC		Long name	
48	SecurityID		Q	Orderbook ID	
22	SecurityIDS	Source	Q	Valid values: M = Marketplace-assigned identifier	
167	SecurityTy	0e		Valid values: 1 = Options 2 = Forward 3 = Futures 4 = FRA 5 = Cash 6 = Payment 7 = Exchange Rate 8 = Interest rate swap 9 = REPO 11 = Combination 12 = Guarantee 13 = OTC general 14 = Equity warrant 15 = Security lending 17 = Strip 18 = Certificates	
541	MaturityDa	te		Date of Maturity.	
20041	NoCouponBlock			Number of listed coupons	
	223	CouponRate			
	224	CouponPaymentDate			
306	Underlying	Issuer			
231	ContractMu	ıltiplier		Specifies the ratio or multiply factor to convert from "nominal" units (e.g. contracts) to total units (e.g. shares).	

5.4.3 Security Definition Update Report (out)

			Used to indicate if a security has
1244	FlexibleIn	dicator	been defined as flexible according
1277	Полют		to "non-standard" means.
			Used to indicate if a product or
1242	FlexProdu	ıctEligibilityIndictor	group of product supports the
			creation of flexible securities
			Number of underlying instruments.
			This group is only set if the
			instrument is derived from an
711	NoUnderly	yings	underlying instrument.
111			NOTE: Underlying information will
			only be set if the underlying is
			traded within the system.
\rightarrow	311	UnderlyingSymbol	Underlying identity.
\rightarrow	318	UnderlyingCurrency	Underlying security's Currency.
\rightarrow	309	UnderlyingSecurityID	Orderbook ID of underlying
	0.05		Valid values:
\rightarrow	305	UnderlyingSecurityIDSource	M = Marketplace-assigned
			identifier
			Number of Collateral underlying instruments. This group is only set
			if the instrument have a related
21019	NoCollUn	derlvings	Collateral.
\rightarrow	21020	CollUnderlyingSymbol	Underlying identity.
\rightarrow	21021	CollUnderlyingSecurityID	Orderbook ID of underlying
			Valid values:
			M = Marketplace-assigned
\rightarrow	21022	CollUnderlyingSecurityIDSource	identifier
\rightarrow	21023	CollUnderlyingCurrency	Underlying security's Currency.
200	MaturityM	onthVear	Specifies the month and year of
200	watuntyw	Unin Tear	maturity. Format: YYYYMM
			Indicates whether an option
			contract is a put or call. Valid
201	PutOrCall		values:
			0 = Put
			1 = Call
202	StrikePrice	e	Strike Price for an Option.
15	Currency		Currency of exercise / subscription
	· ·	6	/ strike price
21001	InstClassi		Instrument classification grouping
20035 20036	LastTradir LastTradir	· · · · · · · · · · · · · · · · · · ·	Date of Last Trading Time of Last Trading
20036	FirstTradir		Date of First Trading
20037	FirstTradi		Time of First Trading
20038	SectorCod		Sector Code
20039	SectorCod		Sector Code Description
20040	IssueDate		
873	DatedDate		
	NoSecurit		Number of alternate Security
454		,	Identifiers

	455	SecurityAltID		International Securities
	400	,		Identification Number (ISIN)
	456	SecurityAltIDSource		Valid Values:
	100			4 = ISIN number
				Number of legs (for
555	NoLegs			strategy/combination) instruments.
				NOTE : Only used for strategies.
\rightarrow	600	LegSymbol		Short name of leg instrument.
\rightarrow	602	LegSecurityID		Order book ID of leg instrument.
				Valid values:
\rightarrow	603	LegSecurityIDSource		M = Marketplace-assigned
		<i></i> ,		identifier
				The ratio of quantity for this
\rightarrow	623	LegRatioQty		individual leg relative to the entire
		G ()		multileg security.
				The side of this individual leg
				(multileg security). Valid values:
\rightarrow	624	LegSide		B = As Defined
				C = Opposite
				Number of market segments on
1310	NoMarke	tSegments	Q	which the security is traded.
				Will always be 1.
\rightarrow	1301	MarketID	Q	Name of the Market
				Market Segment Code.
				Valid Values:
				CMF = VIOP – EMTIA VIS – TRY
				CRF = VIOP – DOVIZ VIS – TRY
				CRFU = VIOP – DOVIZ VIS –
				USD
				CRO = VIOP – DOVIZ OPSIYON
				– TRY
				ENF = VIOP – ENERJI VIS – TRY
				ETF = VIOP – BORSA YATIRIM
				FONU VIS – TRY
				FGAP = BAP – GAP – TL
				FGRB = BAP – GCREPO-
				BANKALARARASI-TL
				FGRK = BAP-GCREPO-KUCUK-
				TL
				FGRN = BAP-GCREPO-
				NORMAL-TL
				FKEE = BAP-KES-EUR
				FKEK = BAP-KES-KUCUK-TL
				FKET = BAP-KES-NORMAL-TL
				FKEU = BAP-KES-USD
				FMKR = BAP-MKTR-TL
				FNYE = BAP-NIP-EUR
				FNYT = BAP-NIP-TL
				FNYU = BAP-NIP-USD
				FRPY = BAP-PAY REPO – TL
				FTAS = BAP-TAAHHUTLU-
				SUKUK-TL
\rightarrow	1300	MarketSegmentID		FTME = BAP-TEMERRUT-EUR

FITM = BAP-TEMERRUT-USD FUTE = BAP-UTP-EUR FUTU = BAP-UTP-USD FUTE = BAP-UTP-USD FUTE = WOP - YABANCI ENDEKSLER VIS - TRY G = PAY-GELISEN ISLETMELER PAZARI INF = VIOP - ENDEKS VIS - TRY INO = VIOP - ENDEKS VIS - TRY INO = VIOP - ENDEKS OPSIYON - TRY IP = IHRAC PAZARI K = PAY- K COLLEKTIF&YAPLANDIRILMIS UR, PAZARI KCMH = KMP CUMHURIYET ALTIN KES = KESIN ALIM SATIM KES = KESIN ALIM SATIM KESI = KMP GUMUS - S. DISI VE CEVHER (USD) KNDE = KMP GUMUS - S. DISI VE CEVHER (USD) KNDE = KMP FLATIN - S. DISI (USD) KNDE = KMP PLATIN - S. DISI (USD) KNDE = KMP PLATIN - S. DISI (USD) KNDE = KMP PLADYUM - S. DISI (USD) KNDE = KMP PLADYUM - S. DISI (U	
FUTE = BAP-UTP-EUR FUTU = BAP-UTP-USD FIF = VIOP - YABANCI ENDEKSLER VIS - TRY G = PAY-GELISEN ISLETIMELER PAZARI INF = VIOP - ENDEKS OPSIYON - TRY IP = IHRAC PAZARI K = PAY- K COLLEKTIF&YAPLLANDIRILMIS UR, PAZARI KCMH = KMP CUMHURIYET ALTIN KES = KESIN ALIM SATIM KFF = KMP ALTIN - S. DISI ve CEVHER (ICP) KNIT = KMP ALTIN - S. DISI ve CEVHER (TRY) KNIT = KMP GUMUS - S. DISI ve CEVHER (TRY) KNZU = KMP GUMUS - S. DISI ve CEVHER (ICP) KNZU = KMP FLATN - S. DISI (ICP) KNZU = KMP FLATN - S. DISI (ICP) KN	FTMT = BAP-TEMERRUT-TL
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	(USD)
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	STANDART (EUR)

					KS2T = KMP GUMUS -
					STANDART (TRY)
					KS2U = KMP GUMUS –
					STANDART (USD)
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					STANDART (EUR)
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					STANDART (TRY)
					KS3U = KMP PLATIN -
					STANDART (USD)
					KS4E = KMP PALADYUM -
					STANDART (EUR)
					KS4T = KMP PALADYUM –
					STANDART (TRY)
					KS4U = KMP PALADYUM -
					STANDART (USD)
					KTEK = KMPALTIN TEK FIYAT
					MTF = VIOP – METAL VIS – USD
					N = PAY-ANA PAZAR
					ONF = VIOP – GECELIK REPO
					VIS – TRY
					PMF = VIOP – KIYMETLI
					MADENLER VIS – TRY
					PMFU = VIOP – KIYMETLI
					MADENLER VIS – USD
					Q = PAY-NITELIKLI YATIRIMCI
					ISLEMLERI PAZARI
					S = PAY-PIYASA ONCESI ISLEM
					PLATFORMU
					SSF = VIOP – PAY VIS – TRY
					SSO = VIOP – PAY OPSIYON –
					TRY
					W = PAY-YAKIN IZLEME PAZARI
					Z = PAY-YILDIZ PAZAR
					E = PAY-EMTIA PAZARI
\rightarrow	1396	MarketS	SegmentDesc		Market Segment Name
					Number of Tick Rules
	4005				NOTE: Tick Rules are associated
\rightarrow	1205	NoTickR	Rules		with the security, not with the
					market.
					Starting price range for specified
\rightarrow	\rightarrow	1206	StartTickPriceRange		tick increment
					Ending price range for the
\rightarrow	\rightarrow	1207	EndTickPriceRange		
					specified tick increment
	→	1208			Tick increment for stated price
\rightarrow			TickIncrement		range. Specifies the valid price
					increments at which a security can
					be quoted and traded
					Number of Tick Rules
					NOTE: Optinal Tick Rules that, if
				defined, are used when this	
\rightarrow	21015	NoCollT	ickRules		security is used as collateral

					Tick increment for stated price
					range. Specifies the valid price
					increments at which a security can
\rightarrow	\rightarrow	21016	Coll I	ickIncrement	be quoted and traded
		01017	Caller	tertTiel/DriesDenge	Starting price range for specified tick increment
\rightarrow	\rightarrow	21017	COIIS	tartTickPriceRange	
		21018	CollE	ndTickPriceRange	Ending price range for the specified tick increment
\rightarrow	\rightarrow	21010	COILE	nunckritterange	Specified tick increment Number of Lot Types
					NOTE : Lot Types are associated
\rightarrow	1234	NoLotTy	peRule	S	with the security, not with the
					market.
					Lot Type. Valid values:2 = Round
					Lot
\rightarrow	\rightarrow	1093		LotType	3 = Block Lot
					Lot size of lot type specified in
					LotType(1093). To enter an order
		1231		MinLotSize	for this particular Lot Type
7	7	1201			MatchIncrement needs to be set to
					this value. Note that order quantity
					must be a multiple of this value.
\rightarrow	\rightarrow	21010		LotStartPrice	
					The maximum order quantity that
					can be submitted for a security. It
					is valid only for Normal Limit Price
\rightarrow	\rightarrow	21012		LotMaxTradeVol	Orders.
		01010			The minimum quantity of an order
\rightarrow	\rightarrow	21013		LotMinQty	for the defined price level
		21068		L atMinQuata	The minimum quote quantity that
\rightarrow	\rightarrow	21000		LotMinQuote	can be submitted for a security. The maximum quote quantity that
_		21069		LotMaxQuote	can be submitted for a security.
,	,	21003		LotividAQUOLO	The maximum show quantity
					allowed in an order for the defined
\rightarrow	\rightarrow	21009		LotDisplayHighQty	price level
					The minimum show quantity
					allowed in an order for the defined
\rightarrow	\rightarrow	21014		LotDisplayLowQty	price level
					Default limit in case no price
					source series or closing price can
\rightarrow	\rightarrow	21011		LotDefaultQtyLimit	be found
228	Factor				Price quotation factor
					Corporate Actions currently active
					for this security. Valid values:
					01 = R.H. Kullandirilarak Bedelli
					Sermaye Art
					02 = R.H. Kullandirilmadan Bedlli
					Sermaye Art
					03 = Bedelsiz Sermaye Artirimi
					04 = Sermaye Azaltimi
000		A		05 = Birlesme / Devralma	
292	Corporat	eAction			06 = Temettu

					99 = Diger
					Important Note: When multiple
					corporate actions occur, tag 292 is
					sent with a space character
					between multiple values.
					(i.e. "292=01 03")
1150	TradingF	ReferencePri	ice		Reference price.
21003	BasePric	e			Base price.
					Number of party id entries (used to
1116	NoRootPa	irtylDs			show market makers for this security)
\rightarrow	1117	RootPa	artyID	Q	Party identifier.
	1118	PootPo	artyIDSource	Q	Valid values: D = Proprietary/Custom code
\rightarrow	1110	RUULFa		Q	Identifies the type of role for the
					PartyID specified. Valid values:
					35 = Liquidity Provider
\rightarrow	1119	RootPa	artyRole	Q	66 = Market Maker
					Number if party id enteries (used to
					show market maker's obligation in
\rightarrow	1120	NoRoot	tPartySubIDs		this security
					Valid values:
					11 = Market Hours Continuous
					Quoting 12 = Market Hours Quote Request
					21 = Off Market Hours Continuous
					Quoting
\rightarrow	\rightarrow	1121	RootPartySubID		22 = Off Market Hours Quote Reques
					Valid value 4001 = Market Maker
\rightarrow	\rightarrow	1122	RootPartySubIDType		Obligations
					The two character information
21004	TradingN	/lethod			field from the Instrument Class.
					Y if gross settlement is applied on
					the Instrument Class level,
21005	GrossSe	ttlement			otherwise N.
					For Fixed-income market series,
					-Value1 date
					For equity market series,
					-First trading date for extra-
0.4.0					ordinary series.
916	StartDate	9			None if no date is defined
					For Fixed-income market series,
					-Value2 date
					For equity market series,
					-First trading date for extra-
					ordinary series.
917	EndDate				None if no date is defined.
					Values:
					2 = Clear against Central
					Counterparty
					7 = Exclude from central
577	Clearing	Instruction			
577		Instruction	_		counterparty
21007	i radingS	SessionNam	e		Name of the trading session.
					Which partition this security is
21008	Partition	d			traded on.
21000					
21000					Specifies the level of derivation for

		Valid values:
		0 = Spot
		1 = Derivative on a spot
		2 = Derivative on a spot
		2 = Derivative on a derivative of level 1
		Specifies the total number of
21027	NumberOfSharesIssued	shares issued for this security.
		Specifies whether the instrument is
		defined with physical delivery or
		not.
		Valid values:
21028	PhysicalDelivery	Y/N
		This is an optional field that
		provides additional information for
21029	Multiplier	Warrants/Certificates.
		This is an optional field that
		provides additional information for
21030	Reference	Warrants/Certificates.
21032	InstrumentType	Q Instrument Type
21031	SeriesDesc	Q Valid values:
21001		S – Standard Instrument
		NS – Non-Standard Instrument
1194	ExerciseStyle	Valid values:0 = European1 = American2 = Bermuda
965	SecurityStatus	Q Valid values:
303		1 = Active2 = Inactive
1148	LowLimitPrice	Current lower limit for price limits.
1149	HighLimitPrice	Current upper limit for price limits.
5011	OrderMaxValue	Maximum order value, only
		applicable for equity market.
38	OrderQty	
		Amount of Accrued Interest for
		fixed income and fixed income
159	AccuredInterestAmt	derivatives
	CouponFrequencyPeriod	Time unit multiplier for the
		frequency of fixed income
1948		instruments coupon payment.
	CouponFrequencyUnit	Time unit associated with the
		frequency of fixed income
1949		instruments coupon payment.
	CouponDayCount	The day count convention used in
		interest calculations for fixed
		income instruments.
		Valid values:
		1-US30360
		4-EU30360
		6- ACT360
		7- ACT365
		8- ACTAFB
		9- ACTACT ISMA
1950		17- ACT364
	CouponInterest	The coupon interest for the
21059		underlying. (Only applicable for

		interest-related fixed-income
	OddFirstCoupon	instruments.) Y if odd-first coupon is used,
21055		otherwise N.
21056	OddLastCoupon	Y if odd-last coupon is used, otherwise N.
	PremiumUnit	Order entry price unit
		Valid values:
		1 - Price
		2 – Yield
		3 - Point
		7 - Basis point
		8 – Clean price
		9 – Dirty price
21057		12 – Rate
	FixedIncomeType	Type of fixed-income underlying. Valid values:
		12 – Type 1 Discounted securities
		13 – Type 2 Fixed rate bonds
		14 – Type 3A Variable rate bonds
		next coupon is known
		15 – Type 4 Index linked strips
		16 – Type 5 Index linked bonds
		17 – Type 6 Euro bonds USD
		18 – Type 7 Euro bonds EUR
		19 – Type 8A Irregular Clean price
		20 – Type 3B Variable rate bonds
		next coupon is unknown
		21 – Type 8B Irregular Dirty price
		22- Type 10A TLREF linked bonds – Simple weighted average
		23- Type 10B TLREF linked bonds
		- Compounded
		24- Type 10C TLREF linked bonds
21058		- Index based
		Valid values:
1940	AssetType	Precious
1938	AssetClass	Valid values: 5 – Commodity
		Valid values:
1939	AssetSubClass	13 – Metal Metal weight unit. The certified
		weight of the precious metal. Valid values:
		KG – kilogram
996	UnitOfMeasure	GR – gram
990		OZ – Troy ounce The market convention for notation
21061	FinenessNotation	of the metal purity
21062	MetalWeightConversionFactor	The conversion factor is used to normalize the order and trade price
21002		The purity of the metal, accurate to
		4 decimal places.
21060	Fineness	Valid range: 0.0001 to 1.0000
21000		The certified weight of the precious
1147	UnitOfMeasureQty	metal

04050	No Tre de Dono	-4-	Number of Trade Departs
<u>21050</u> →	NoTradeRepo 21051	TradeReportCode	Number of Trade Reports. Number to be used in tag 828 TrdType in Trade Reports. Please refer to the list of supported Trade Type values supplied by the marketplace.
\rightarrow	21052	MinTradeRepQty	Minimum quantity in Trade Report.
\rightarrow	21053	MaxTradeRepQty	Maximum quantity in Trade Report.
\rightarrow	21064	TrLotsize	Trade Report Lotsize
60	TransactTime		Dissemination time = Current time
2304	NoAssetAttrib	utes	
_→	2305	AssetAttributeType	Valid values: MetalType Shape Refinery Asset attribute values directly
→	2306	AssetAttributeValue	depend on previously selected type. For metal types: AU – gold AG – silver PT – platinum PD – palladium For shape types: BA – Bar MB – Mini Bar LB – Large Bar GB – Granule Bag NS – Non-standard OR – Ore For refinery types: I – GDL In O – GDL Out
			Number of days to maturity date /
21063	DaysToMatur	ity / Repo Term	repo term for Fixed-Income market series.
			Indicates whether a restriction
			applies to short selling a security.
			Valid values:
			0 = Undefined
8000	ShortSaleRes	triation	1 = No restrictions
0000	ShortSaleres		2 = Security is not shortable Specify what Short Sell validation
			rule that should be used.
			This value is only used by the
			system for orders that are flagged
			as Short Sell.
			Valid values;
			0 : No validation
			1 : Price greater or equal to LTP
21070	ShortSellValio	lation	3 : Undefined
21065	IndexClassific	ation	Specify a valid Index Classification
21066	ValueDate		Value date for underlying.
21067	ResetDate		
743	DeliveryDate		Delivery Start Date
21071	PositionIncrea	asingOrders	0 : Allowed

			1 : Notice (*) 2 : Warning (*) 3 : Not Allowed (*) Currently unavailable, reserved for future use Only valid for Derivatives Market
21072 21073	NumberOfDecimalInPrice InstrumentClass		Number of decimals used in price for the order book. The Instrument class identity.
	Standard Trailer	Y	

TAG	FIX TAG NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = BU
1180	ApplicationSequenceControl/ AppIID	Q	Application ID. Valid values: R = Reference Data
1181	ApplicationSequenceControl/ ApplSeqNum	Q	Application sequence number assigned to the message by the application generating the message.
1350	ApplicationSequenceControl/ ApplLastSeqNum	Q	The previous sequence number in the application sequence stream. Permits an application to publish messages with sequence gaps where it cannot be avoided.
1394	MarketReportID	Y	Required in FIX. Will be set, but can be ignored.
1301	MarketID	Y	Five-character market identifier.
	Standard Trailer	Y	

5.4.4 Market Definition (out)

TAG	FIX TAG	NAME		REQ'D	COMMENT
	Standard	Header		Y	MsgType = BJ
1180	Applicatio AppIID	onSequence	eControl/	Q	Application ID. Valid values: R = Reference Data
1181	Application ApplSeqN	onSequence Num	eControl/	Q	Application sequence number assigned to the message by the application generating the message.
1350	Applicatio ApplLast	onSequence SeqNum	eControl/	Q	The previous sequence number in the application sequence stream. Permits an application to publish messages with sequence gaps where it cannot be avoided.
386	NoTradin	gSessions		Y	Number of Trading Sessions (states) listed in this message
\rightarrow	336	Trading	SessionID	Y	ID of Trading Session
\rightarrow	1326	Tradings	SessionDesc	Q	Human-readable name of Trading Session
\rightarrow	1237	NoOrdT	/peRules		Will always be 1
\rightarrow	\rightarrow	40	OrdType		Shows whether Market orders are allowed in this state. Valid values: 1 = Market
\rightarrow	1239	NoTimel	nForceRules		Indicates number of allowed distinct order type rules
→	→	59	TimeInForce		Shows whether IOC or FOK orders are allowed in this state. Valid values: 3 = Immediate Or Cancel (IOC) 4 = Fill Or Kill (FOK)
\rightarrow	1235	NoMatch	Rules		Will always be 1
\rightarrow	\rightarrow	1142	MatchAlgorithm		Required in FIX if group is present. Always set to [N/A]
\rightarrow	\rightarrow	574	MatchType		Valid values: 4 = Auto-match
\rightarrow	20032	SessionStateTypeNumber			NASDAQExtension: The number used in TriggerTradingSessionID on an order to trigger it when this state occurs.
\rightarrow	21024	OffHou	rsTrading		This flag indicates if a session is off hours or not
	Standard	Trailer		Y	

5.4.5 Trading Session List (out)

5.4.6 Security Status Request (in)

TAG	FIX TAG NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = e
			Subscription request type. Valid values:
263	Subscription Request Type	Q	0 = Snapshot

55	Symbol	Q	Short name.
324	SecurityStatusReqID	Q	Client-generated identifier.
	Standard Trailer	Y	

5.4.7 Security Status (out)

TAG	FIX TAG NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = f
	ApplicationSequenceControl/		Application ID. Valid values:
1180	AppIID	Q	R = Reference Data
	ApplicationSequenceControl/		Application sequence number assigned to the message by the
1181	ApplSeqNum	Q	application generating the message.
			The previous sequence number in the application sequence
	ApplicationSequenceControl/		stream. Permits an application to publish messages with
1350	ApplLastSeqNum	Q	sequence gaps where it cannot be avoided.
55	Symbol	Q	Short name.
48	SecurityID	Q	Orderbook ID
			Valid values:
22	SecurityIDSource	Q	M = Marketplace-assigned identifier
336	TradingSessionID		ID of Session State
			Will be sent out when a security is suspended or
			resumed. Values:
			2 = Trading Halt
326	SecurityTradingStatus		3 = Resume
			Indicates whether the message is sent as a result of a
			subscription request or not. Will be 'N' in initial startup
325	Unsolicited Indicator		request to FIX client. Otherwise 'Y'.
			Corporate Actions currently active for this security
			Valid values:
			01 = R.H. Kullandirilarak Bedelli Sermaye Art
			02 = R.H. Kullandirilmadan Bedlli Sermaye Art
			03 = Bedelsiz Sermaye Artirimi
			04 = Sermaye Azaltimi
			05 = Birlesme / Devralma
			06 = Temettu
			99 = Diger
			Important Note: When multiple corporate actions occur, tag
			292 is sent with a space character between multiple values.
292	CorporateAction		(i.e. "292=01 03")
			Last trade price in the related security in the last session. This
31	LastPX		price is not updated in real time after every trade.
	Standard Trailer	Y	

5.4.8 Price Reference Request (in)

TAG	FIX TAG NAME	REQ'D	COMMENT	
	Standard Header	Y	MsgType = pp	
55	Symbol	Q	Short name.	
	Standard Trailer	Y		

5.4.9 Price Reference (out)

TAG	FIX TAG NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = pr
	ApplicationSequenceControl/		Application ID. Valid values:
1180	AppIID	Q	R = Reference Data
	ApplicationSequenceControl/		Application sequence number assigned to the message by
1181	ApplSeqNum	Q	the application generating the message.
			The previous sequence number in the application sequence
	ApplicationSequenceControl/		stream. Permits an application to publish messages with
1350	ApplLastSeqNum	Q	sequence gaps where it cannot be avoided.
55	Symbol	Q	Short name.
48	SecurityID	Q	Orderbook ID
			Valid values:
22	SecurityIDSource	Q	M = Marketplace-assigned identifier
			Indicates whether the message is sent as a result of a
			subscription request or not. Will be 'N' in initial startup
325	Unsolicited Indicator	Q	request to FIX client. Otherwise 'Y'.
1148	LowLimitPrice		Current lower limit for price limits.
1149	HighLimitPrice		Current upper limit for price limits.
1150	TradingReferencePrice		Reference Price
21003	Base Price		Base Price
21025	TheoreticalPrice		Theoretical Price
140	PrevClosePx		Previous day's closing price
60	TransactTime		Dissemination time = Current time
	Standard Trailer	Y	

5.4.10 At The Money Update (out)

TAG	FIX TAG NAME	REQ'D	COMMENT
	Standard Header	Y	MsgType = mm
	ApplicationSequenceControl/		Application ID. Valid values:
1180	AppIID	Q	R = Reference Data
	ApplicationSequenceControl/		Application sequence number assigned to the message by
1181	ApplSeqNum	Q	the application generating the message.
			The previous sequence number in the application sequence
	ApplicationSequenceControl/		stream. Permits an application to publish messages with
1350	ApplLastSeqNum	Q	sequence gaps where it cannot be avoided.
55	Symbol	Q	Short name.
48	SecurityID	Q	Orderbook ID
			Valid values:
22	SecurityIDSource	Q	M = Marketplace-assigned identifier
202	Strike Price	Q	Strike Price for an Option
541	MaturityDate	Q	Date of maturity.
			Additional Note:

			At-The-Money Maturity Date may differ from Maturity Date at the Securtiy Definition\Security Definition Update message(s). Maturity Date may be changed after it is created due to Derivatives Market decision. In case of this change, ATM Maturity Date shows original expiration date.
21054	ATMPrice	Q	At-The-Money price.
21003	BasePrice	Q	Used base Price
201	PutOrCall	Q	Indicates whether an option contract is put or call
60	TransactTime		Dissemination time = Current time
	Standard Trailer	Y	

5.4.11	Application	Message	Request	(in)
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TAG	FIX TAG NAME		REQ'D	COMMENT
	Standard	Header	Y	MsgType = BW
1346	ApplReqI	כ	Y	Unique identifier for request
1347	ApplReqType		Y	Type of Application Message Request being made. Valid values: 1 = Subscription to the specified Applications
1351	NoAppIIDs			Number of Application IDs in this request
\rightarrow	1355	RefAppIID	Q	Application ID requested. Valid values: R = Reference Data
\rightarrow	1182	ApplBegSeqNum		Sequence number of first message to be resent.
\rightarrow	1183	ApplEndSeqNum		Last Sequence number of message to be resent or 0 (zero) for all messages.
	Standard Trailer		Y	

TAG	FIX TA	G NAME	REQ'D	COMMENT
	Standard Header		Y	MsgType = BX
1353	ApplRes	ApplResponseID		Identifier for the Application Message Request Ack
1346	ApplRed	DIp	Q	Identifier of the request associated with this ACK message
1347	ApplRed	туре	Q	Type of Application Message Request being made. Valid values: 1 = Subscription to the specified Applications
1348	ApplResponseType		Q	Used to indicate the type of acknowledgement being sent. Valid Values: 0 = Request successfully processed 1 = Application does not exist 2 = Messages not available 3 = Duplicate requests for application (NASDAQ OMX Extension)
1351	NoAppll	Ds		Number of Application IDs in this request
\rightarrow	1355	RefAppIID		Application ID requested. Valid values: R = Reference Data
\rightarrow	1182	ApplBegSeqNum		Sequence number of first message to be resent.
\rightarrow	1183	ApplEndSeqNum		Last Sequence number of message to be resent or 0 (zero) for all messages.
_→	1354	ApplResponseError		Valid values: 0 = Application does not exist 1 = Messages requested are not available 3 = Duplicate requests for application (NASDAQ OMX Extension)
58	Text			
	Standar	d Trailer	Y	

5.4.12 Application Message Request Ack (out)

6 APPENDIX A, NASDAQ OMX EXTENSIONS

This chapter details how this solution deviates from standard FIX 5.0 SP2. While great care has been taken to conform to the standard, a number of deviations are unavoidable to support all mechanisms provided by the host.

There are different types of deviations from the standard:

- Fields added. A few user defined fields had to be added to accommodate back-end functionality not present in FIX 5.0 SP2.
- Enumerated values added. Some fields have added enums.
- Field definition changed.

6.1 ADDED FIELDS

FIELD	NAME	ADDED TO MESSAGE	COMMENT
20002	DaysToPwdExpiry	Logon	int
577	ClearingInstruction	Security Definition Security Definition Update Report	int
20032	SessionStateTypeNumber	Trading Session List	int
20035	LastTradingDate	Security Definition Security Definition Update Report	Date
21001	InstClassification	Security Definition Security Definition Update Report	String
21003	BasePrice	Security Definition Security Definition Update Report Price Reference At The Money Update	Price
21004	TradingMethod	Security Definition Security Definition Update Report	String
21005	GrossSettlement	Security Definition Security Definition Update Report	Boolean
21007	TradingSessionName	Security Definition Security Definition Update Report	String
21008	PartitionId	Security Definition Security Definition Update Report	String
21009	LotDisplayHighQty	Repeating Group: NoLotTypeRules	Qty
21010	LotStartPrice	Repeating Group: NoLotTypeRules	Price
21011	LotDefaultQtyLimit	Repeating Group: NoLotTypeRules	Boolean
21012	LotMaxTradeVol	Repeating Group: NoLotTypeRules	Qty
21013	LotMinQty	Repeating Group: NoLotTypeRules	Qty
21014	LotDisplayLowQty	Repeating Group: NoLotTypeRules	Qty
21015	NoCollTickRules	Security Definition Security Definition Update Report	int
21016	CollTickIncrement	Repeating Group: NoCollTickRules	Price
21017	CollStartTickPriceRange	Repeating Group: NoCollTickRules	Price
21018	CollEndTickPriceRange	Repeating Group: NoCollTickRules	Price

		Security Definition	
21019 NoCollUnderlyings		Security Definition Update Report	int
21020	CollUnderlyingSymbol	Repeating Group: NoCollUnderlyings	String
21021	CollUnderlyingSecurityID	Repeating Group: NoCollUnderlyings	String
21022	CollUnderlyingSecurityIDSource	Repeating Group: NoCollUnderlyings	String
21023	CollUnderlyingCurrency	Repeating Group: NoCollUnderlyings	String
21024	OffHoursTrading	Repeating Group: NoMatchRules	Boolean
21025	TheoreticalPrice	Price Reference	Price
21026	DerivativeLevel	Security Definition Security Definition Update Report	int
21027	NumberOfSharesIssued	Security Definition Security Definition Update Report	Qty
21028	PhysicalDelivery	Security Definition Security Definition Update Report	Boolean
21029	Multiplier	Security Definition Security Definition Update Report	String
21030	Reference	Security Definition Security Definition Update Report	String
21031	SeriesDesc	Security Definition Security Definition Update Report	String
21032	InstrumentType	Security Definition Security Definition Update Report	String
21050	NoTradeReports	Security Definition Security Definition Update Report	int
21051	TradeReportCode	Repeating Group: NoTradeReports	int
21052	MinTradeRepQty	Repeating Group: NoTradeReports	Qty
21053	MaxTradeRepQty	Repeating Group: NoTradeReports	Qty
21054	AtTheMoneyPrice	At The Money Update	Price
21063	DaysToMaturity / Repo Term	Security Definition Security Definition Update Report	int

6.2 ADDED ENUMERATIONS

ENUMERATION	ADDED TO FIELD NAME	COMMENT
100 = Invalid body length in received message, session suspended 101 = Heartbeat interval too low	SessionStatus	
101 = All or None Lot (NASDAQ OMX Extension enum)	LotType	
1 = Options 2 = Forward 3 = Futures 4 = FRA 5 = Cash 6 = Payment	SecurityType	
7 = Exchange Rate		

8 = Interest rate swap		
9 = REPO		
11 = Combination		
12 = Guarantee		
13 = OTC general		
14 = Equity warrant		
15 = Security lending		
17 = Strip		
18 = Certificates		
101 = Trade Report Close	TradSesStatus	
102 = System Available	Trausessialus	
3 = Duplicate requests for application	ApplResponseType	
3 = Duplicate requests for application	ApplResponseError	

6.3 FIELD DEFINITION CHANGED

No field definitions changed.

7 REVISION HISTORY

DATE	REVISION	CHANGE DESCRIPTION
June 24, 2014	0.1	Initial version.
August 8, 2014	0.2	Added new FIX messages
September 3, 2014	0.3	Updating the newly added fix messages with correct fields.
September 12, 2014	0.4	Added tag 21007 and changed tag 1301 to 1396
October 17, 2014	0.5	Added all BIST possible values for tag 167 (Security Type)
November 19, 2014	0.6	Added new logotype.
December 3, 2014	0.7	Added MarketID to Security Definition and Security Definition Update Report. Also added Unsolicited indicator to Security Definition. Added information regarding exact match and 0 price limits.
January 26, 2015	0.8	Removed MarketSegmentDesc from marketDefinition message. Added Security status and Price reference to section 5.3.2.1
February 12, 2015	0.9	Added description for corporate action updates.
March 16, 2015	0.9.1	Added Liquidity Provider as a valid partyrole for tag 1119
April 7, 2015	0.9.2	Added possible values to tags 292, 1300 and 21007
June 9, 2015	0.9.3	Added tag 20002 to logon out message.
July 10, 2015	0.9.4	Tag 340 is no longer required in trading session list message.
August 17, 2015	0.9.5	Tag 336 is removed from the price reference message.
September 21, 2015	0.9.6	Updating the disclaimer.
Febuary 1, 2016	0.9.7	Removed prv_ts from the TradingSessionName
April 23, 2015	1.0.0	Creating initial version for phase 2
September 14,2015	1.0.2	Phase 2 specific changes and including updates from phase 1.
February 5, 2016	1.0.3	Added tag 21024 to Trading session list,
		rootpartysubldGroup to security definition,
		AtTheMoneyMessage. Added tags 21030, 21031, 1194, 965,
		21032, 1148, 1149 and the noTradeReports group to the security
		definition message.
February 25, 2016	1.0.4	Added derivative trading sessions to TradingSessionName
Mars 14, 2016	1.0.5	Added additional info to tags 21026-21030 for Security Definition
		and security definition update messages.
Mars 16, 2016	1.0.6	Corrected MsgType tag in Chapter AtTheMoneyUpdate (out)
		message. Added tag 21025 to Chapter Price Reference (out).
April 5, 2016	1.0.7	Removed tag 340 from Chapter Trading Session List and Trading Session List (out).
		Added new outbound message AtTheMoneyUpdate
		Added new tag 1244/FlexibleIndicator to Security Definition (out) and Security Definition Update Report (out)
		Added new tag 1242/FlexProductEligibilityIndictor to Security
		Definition (out) and Security Definition Update Report (out)
		Added new group 21019/NoCollUnderlyings to Security Definition (out) and Security Definition Update Report (out)
		Added new group 21015/NoCollTickRules to Security Definition
		(out) and Security Definition Update Report (out)
		Added new tags 21010/LotStartPrice, 21013/LotMinQty,
		21009/LotDisplayHighQty, 21014/LotDisplayLowQty,
		21011/LotDefaultQtyLimit to NoLotTypeRules group in Security
		Definition (out) and Security Definition Update Report (out)

DATE	REVISION	CHANGE DESCRIPTION	
		Replaced tag 1140/MaxTradeVol with 21012/LotMaxTradeVol	
		Added new group 1120/NoRootPartySubIDs	
		Removed two allowed values (1 = Odd Lot and A = All or None	
		Lot (NASDAQ Extension enum)) from tag 1093/LotType	
		Added new message "AtTheMoneyUpdate (out)"	
June 24, 2016	1.0.8	Updated Revision History table by adding missing entries when	
		compared to phase 1 documentation	
July 27, 2016	1.0.9	Added new SecurityType value "11 = Combination"	
August 4, 2016	1.0.10	Added/updated comments for tags 21013, 21009, 21014, 21011, 228, 21051, 1300, 1237, 1239, 1235, 31.	
October 24, 2016	1.0.11	Updated list of custom fields. Removed duplicate definition of tag 21028 from Security Definition and Security Definition Update Report messages.	
November 15, 2016	1.0.12	Updated the list of valid values for tag 1121 RootPartySubID.	
November 16, 2016	1.0.13	Copyright and disclaimer change	
June 14,2017	1.0.13	Added new tags to the Security Definition and Security Definition	
June 14,2017	1.0.14	Update Report messages: 38,159,996,1147,1938,1939,1940,1948,1949,1950,2304,2305,23 06,5011,21055,21056,21057,21058,21059,21060,21061,21062	
October 16,2017	1.0.15	Added new tags to the Security Definition and Security Definition Update Report messages: 223,224,306 Updated the list of valid values for tags 21057 and 1300	
January 8,2018	1.0.16	Updated the list of valid values for tags 21057 and 1950	
January 15,2018	1.0.16	Added new SecurityType value "17 = Strip"	
January 30,2018	1.0.17	Added new tags to Security Definition and Security Definition	
····· , ···		Update Report messages: 107, 20036, 20037, 20038, 20039, 20040, 225, 873	
February 22,2018	1.0.18	Added new tag to Security Definition and Security Definition Update Report messages: 20041	
May 07, 2018	1.0.19	Edit in NoCollTickRules Group	
May 16, 2018	1.0.20	Updated "Number of Tick Rules" repeating group.	
August 9, 2018	1.0.21	Updated tags to Security Definition and Security Definition Update Report messages: 916, 917 Added new tag to Security Definition and Security Definition Update Report messages: 21063	
February 13, 2018	1.0.22	167 tag values typo is updated.	
March 26, 2018	1.0.23	The "Shortsalerestriction" – tag 8000 information and The "TrLotsize" – tag 21064 information are available over FIX RD in the outbound Security Definition/Security Definition Update Report messages.	
April 18, 2019	1.0.24	 Added new values to tag 1409 for Logout message(MsgType=5) 	
October 22, 2019	1.0.25	Added new values (22, 23, 24) to tag 21058 for Security Definition (out) (MsgType = d) and Security Definition Update Report (out) (MsgType = BP)	
February 6, 2020	1.0.26	Updated syntax error; 3.13.4 Logout(tag 1409), 3.13.9 Reject(tag 373), 5.4.1 Security Definition(tag 21057), 5.4.3 Security Definition Update Report(tag 21057),	

DATE	REVISION	CHANGE DESCRIPTION	
		5.4.5 Trading Session List(tag 59) 6.2 ADDED ENUMERATIONS	
February 18, 2020	1.0.27	Added new tag 21065 (IndexClassification) and tag 21066 (ValueDate) for Security Definition (out) (MsgType = d) and Security Definition Update Report (out) (MsgType = BP)	
May 22, 2020	1.0.28	Added new tag 21067 (ResetDate) for Security Definition (out) (MsgType = d) and Security Definition Update Report (out) (MsgType = BP)	
April 5, 2021	1.0.29	Added new tag 743 (DeliveryDate) for Security Definition (out) (MsgType = d) and Security Definition Update Report (out) (MsgType = BP)	
		Updated commnet of 159 tag as "Amount of Accrued Interest for fixed income and fixed income derivatives"	
May 13, 2022	1.0.30	Added new tags to Security Definition and Security Definition Update Report messages: 21068 (LotMinQuote), 21069 (LotMaxQuote)	
October 27, 2023	1.0.31	Added new tag to Security Definition and Security Definition Update Report messages: 21070 ShortSellValidation (Enable with Service Release 3.01)	
November 28, 2023	1.0.32	Added a new enumeration (2) to tag 21070 (Enable with Service Release 3.01)	
March 6, 2024	1.0.33	Updated 541(Maturity Date) tag comment in "At the Money Update" message. Added new tag to Security Definition and Security Definition Update Report messages: 21071 PositionIncreasingOrders (Enable with Service Release 3.10)	
June 10, 2024	1.0.34	59 tag value is corrected.	
July 23, 2024	1.0.35	Decription of tags 292 and 1300 are updated.	
September 10, 2024	1.0.36	Added new tags to Security Definition and Security Definition Update Report messages: 21072 NumberOfDecimalInPrice 21073 InstrumentClass (Enable with Service Release 3.11)	
November 14, 2024	1.0.37	The enumeration of ShortSellValidation (tag21070) has been updated.	
November 15, 2024	1.0.38	The enumeration of ShortSaleRestriction(tag8000) and ShortSellValidation (tag21070) has been updated.	

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