

# EQUITY MARKET BISTECH FIX CERTIFICATION PROGRAM- ORDER ENTRY STAGE ADVANCED LEVEL

# EQUITY MARKET BISTECH FIX CERTIFICATION PROGRAM – ORDER ENTRY STAGE – ADVANCED LEVEL

	A.Ş.	BISTECH FIX	ORDER	ENTRY	STAGE
CONNECTIVITY TEST					

To The Attention of Our Members:

The purpose of this test is to enable our members to test their own systems as they are in BISTECH FIX environment.

Order entry part of the test is segmented according to required phases of routine operation. It comprises Opening Session, Continuous Transaction and Primary Market (Initial Public Offering Fixed Price Method) sections. Please note that Throttling (Maximum number of orders allowed in unit time) test is excluded.

Please perform the below transactions in order and make sure to check the messages incoming at every step when you carry out these transactions.

First, determine the impact expected to occur when order is sent to the system.

Whether expected impact occurred or not after order or any request is sent to the system will be controlled by dimensional and contextual integrity and accuracy of the response which reached you with respect to the activity at the first degree. By controlling whether the activities are accurately processed or not at your main system which is the source of the activities carried out from every channel at the back in the second degree, proper blanks below each option will be ticked.

Inform the officers immediately if an unexpected situation occurs.

Please send the document to Borsa Istanbul officers after filling the part spared for you at the end of the test.

Legal Liability fully pertains to the member in disputes which may arise between the customers and members who do not use optional order and transaction functions in their FIX programs which are taking part in existing transaction rules of Equity Market and allowed by Equity Market to be used with BISTECH FIX.

For this reason, we recommend our members to inform their customers on this subject and form the proper legal basis with their customers.

Our members are fully responsible for faultless perform of the member system.

#### HİZMETE ÖZEL

#### **Contents**

S	ECTION 1	4
S	ECTION 2	8
	OPENING AUCTION	10
	OPENING SESSION - MATCH	13
	CONTINOUS AUCTION	15
	TRADE REPORT	21
	End of Day Batch	24
	Next Day Connection	24
	Failover to Secondary Gateway (Order Entry)	24
	Failover to Secondary Gateway (Drop Copy)	24
S	ECTION 3	26
	OPENING SESSION	28
	OPENING SESSION MATCHING	28
	CONTINOUS AUCTION	29
	Test Evaluation	33

# SECTION 1:

**CONNECTIVITY TEST** 

1.	>	gon with Password Change Send the first Logon message of the day with sequence number 1. (Password=LLL) Receive Logout message from the system with "Password Expired" message. (SessionStatus=8 – Password Expired)
	( )	Expected messages are received. ( ) Problem with messages
		Send Logon message with Password Change. (554=LLL 925=MMM). Receive Logo message from the system with "Password Changed" status.
(	( )	Expected messages are received. ( ) Problem with messages
2.	Log	gout Message Send Logout message and receive Logout message from the system with "Logout Complete".
(	( )	Expected messages are received. ( ) Problem with messages
3.	Log	gon Message with Reset Sequence Number Flag Send Logon message with reset sequence number. (ResetSeqNumFlag=Y, SeqNum=Receive Logon message from the system with "Active" status. (SessionStatus=0 SeqNum=1)
(		Expected messages are received. ( ) Problem with messages
4.		nding Resend Request Message  ter Order  Send below orders to the system and receive Execution reports (Accepted):  o AKBNK.E BUY Price: 5.000 Quantity: 5 Lot [ClOrdID=1]  o GARAN.E BUY Price: 5.010 Quantity: 10 Lot [ClOrdID=2]  o NETAS.E BUY Price: 5.020 Quantity: 15 Lot [ClOrdID=3]  o ZOREN.E BUY Price: 5.030 Quantity: 20 Lot [ClOrdID=4]
	( )	Expected messages are received. ( ) Problem with messages

<ul><li>Logout</li><li>➤ Send Logout message and receive Logout message.</li></ul>					
( ) Expected messages are received. ( ) Problem with messages					
Executions  While user is logged out, orders that will match with user's orders will be entered to the system.  Orders of the user will be executed and execution messages (Execution Report - Trade) will be written to the message queue of the user.					
<ul> <li>Logon and Resend Request</li> <li>➤ Send Logon message to the system without resetting the sequence number and receive Logon message from the system.</li> </ul>					
( ) Expected messages are received. ( ) Problem with messages					
➤ Send Resend Request message to the system due the fact that higher sequence number than expected is received. Following Execution Report messages will be received from the system as response to the Resend Request:					
o AKBNK.E BUY Price: 5.000 Quantity: 5 Lot fully traded.					
<ul> <li>GARAN.E BUY Price: 5.010 Quantity: 10 Lot fully traded.</li> <li>NETAS.E BUY Price: 5.020 Quantity: 15 Lot fully traded.</li> </ul>					
o ZOREN.E BUY Price: 5.03 Quantity: 20 Lot fully traded.					
( ) Expected messages are received. ( ) Problem with messages					
<ul><li>5. Logout</li><li>Send Logout message and receive Logout message.</li></ul>					
( ) Expected messages are received. ( ) Problem with messages					

#### 6. Replying Resend Request Message

Before user logs in to the system, expected sequence number on the server side will be decreased to a lower number manually. When user logs in to the system without resetting the sequence number, Resend Request message will be sent from the system.

#### Logon

Send Logon message <u>without</u> resetting Sequence number and receive Logon message from system.

( ) Expected messages are received. ( ) Problem with messages	(	) Expected messages are received.	(	) Problem with messages
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- Resend request message will be received from the system right after the Logon message. Resend Request message must be replied according to below principals. System will not respond with any message if there is not a problem with resent messages.
  - o Sequence Reset message with GapFillFlag=Y and NewSeqNum field should be sent instead of session messages that will be resent.
  - o Application messages should be resent with PossDupFlag=Y and OrigSendingTime fields.

(	) Expected messages are sent.	(	) Problem with messages
7.	Logout		
	Send Logout message and rece	eive	Logout message.

## SECTION 2:

# ORDER ENTRY AND FUNCTIONALITY

### <u>Instruments that will be used during test are listed below with Partition and Base Price information:</u>

SYMBOL	Partition	Base Price	SYMBOL	Partition	Base Price
ACSEL.E	1	6.000	GARAN.R	2	-
AEFES.E	1	5.000	GARAN.TE	2	5.000
AKCNS.E	1	5.000	GARAN.TR	2	5.000
ADEL.E	1	6.000	GASLA.V	2	-
ATAGY.E	1	5.000	ADAAA.C	1	-
ALCAR.E	1	5.000	GARAN.ME	1	5.000
AKBNK.E	1	5.000	EGGUB.E	1	14.480
AKGRT.E	1	5.000	GARAN.BE	1	-
ANSGR.E	1	5.000			
ARCLK.E	1	5.000			
ASELS.E	1	5.000			
ATLAS.E	1	5.000			
BIMAS.E	1	5.000			
AKBNK.AOF	1	5.000			
BAKAB.E	1	5.000			
DJIST.F	2	5.000			
FRIGO.E	2	0.21			
GARAN.E	2	5.000			
ZOREN.E	4	5.000			
NETAS.E	3	0.620			
BAGFS.E	1	15.000			

Reference Data (Security Definition, Security Status, Price Limits vs.) regarding the instruments that are listed will be available through FIX Reference Data connection.

#### **Order Details:**

- ✓ Orders should be **Limit** priced **Day** and **Client** orders unless it is noted otherwise.
- ✓ Expire Date for **Good Till Date** orders should be two workdays from test day. (Test day: 15.04.2015 Expire Date: 17.04.2015)
- ✓ For orders with AccountType **FUND**, AFK field with **XRM** value must be included in the order. (PartyGroup)
- ✓ Values of Account and Reference fields will be checked for only steps that indicate these
  values in the scenario. These fields should be sent in compliance with FIX Specification
  document.

#### **DropCopy Connection**

Connect to the DropCopy Port (will be given before test) with FIX DropCopy user. User should be stay connected during the test. After test is completed, message log file of DropCopy connection will be requested in addition to the message log files of FIX Order Entry connection.

> Send Logon message with resetting sequence number and receive Logon message from the system.

( ) Expected messages are received.	( ) Problem with messages

#### **OPENING AUCTION**

1. ACSEL.E enter orders listed below and receive Execution Reports (Accepted).

i.	ACSEL.E – BUY – 200 lot – 6.200 TL – Day - Client	[ClOrdID=10]
ii.	ACSEL.E – BUY – 90 lot – 6.090 TL – Day - Client	[ClOrdID=20]
iii.	ACSEL.E – BUY – 80 lot – 6.080 TL – Day - Client	[ClOrd ID=30]
iv.	ACSEL.E – BUY – 70 lot – 6.070 TL – Day - Client	[ClOrdID=40]
v.	ACSEL.E – BUY – 60 lot – 6.060 TL – Day - Client	[ClOrdID=50]
vi.	ACSEL.E – BUY – 50 lot – 6.050 TL – Immediate or Cancel - Client	[ClOrdID=60]
vii.	ACSEL.E – SELL – 20 lot – 6.100 TL – Day – Client	[ClOrdID=70]
viii.	ACSEL.E – SELL – 650 lot – 6.300 TL – Day - FON – AFK: XRM	[ClOrdID=80]

2.	<ul> <li>ACSEL.E cancel below orders and receive Execution Report messages. (cancelled)</li> <li>i. (ClOrdID=20) ACSEL.E – BUY – 90 lot – 6.090 TL – Day - Client [ClOrdID=90]</li> </ul>
	( ) Expected messages are received. ( ) Problem with messages
3.	ACSEL.E modify quantity of below orders and receive Execution Report messages. (modified)  i. (ClOrdID=30) – BUY – 79 lot – 6.080 TL – Day- Client [ClOrdID=100]
	( ) Expected messages are received. ( ) Problem with messages
4.	ACSEL.E modify below orders as underlined and receive Execution Report messages.  ii. (ClOrdID=40) BUY – 70 lot – 6.060 TL – Day – Client [ClOrdID=110]
	( ) Expected messages are received. ( ) Problem with messages
iiiiiiiv.v.vi	BUY - 250 lot - Market - Immediate or Cancel(IoC) - Client [ClOrdID=130] BUY - 300 lot - Market - Immediate or Cancel - Portföy [ClOrdID=140] SELL - 15 lot - 5.100 - Day - Client [ClOrdID=150] SELL - 25 lot - Market - Immediate or Cancel - Fon - AFK: XRM [ClOrdID=160] SELL - 35 lot - Market - Immediate or Cancel - Client [ClOrdID=170]
(	( ) Expected messages are received. ( ) Problem with messages
6.	AEFES.E cancel below order and receive Execution Report message. (cancelled)

i. (ClOrdID=170) SELL – 35 lot – Market –Immediate or Cancel- Client [ClOrdID=190]

	( ) Expected messages are received. ( ) Problem with messages
7. <i>i</i> .	AEFES.E modify below order as underlined and receive Execution Report message.  (ClOrdID=180) SELL – 40 lot – Market –IoC- Client [ClOrdID=200]
	( ) Expected messages are received. ( ) Problem with messages"
8. 4	AKCNS.E enter orders listed below and receive Execution Reports (Accepted).
i. ii. iii. iv.	BUY - 100 lot - 5.200 TL - Day - Client       [ClOrdID=210]         BUY - 250 lot - Market to Limit - Day - Client       [ClOrdID=220]         BUY - 300 lot - Market to Limit - Immediate or Cancel - Portföy       [ClOrdID=230]         SELL - 15 lot - 5.100 TL - Day - Client       [ClOrdID=240]
	( ) Expected messages are received. ( ) Problem with messages

9.	ADEL.E enter orders listed below and receiv	e Ex	secution Reports (Accepted	1).
i ii iii iv	BUY – 250 lot – Imbalance – IoC- Clien SELL –15 lot – 6.200 TL – Day – Client	t		[ClOrdID=250] [ClOrdID=260] [ClOrdID=270] [ClOrdID=280]
(	) Expected messages are received.	(	) Problem with messag	es
	Opening Auction will be ended. Check the Extrelated with below executions on ACSEL.E.  i. Trade 1: 20 lot 6.200TL  ii. Trade 2: 10 lot 6.200 TL		tion Report and Trade Cap	oture Report messages
(	) Expected messages are received.	(	) Problem with messag	ges
	Below Opening Auction order will be cancell iii. (ClOrdID=60) BUY – 50 lot – 6.050			n Report message.
(	) Expected messages are received.	(	) Problem with messag	es
11.	Opening Auction will be ended. Check the Exrelated with below executions on <b>AEFES.E</b> .  i. Trade 1: 25 lot 5.210 TL  ii. Trade 2: 40 lot 5.210 TL  iii. Trade 3: 15 lot 5.210 TL	xecu	tion Report and Trade Cap	oture Report messages
(	) Expected messages are received.	(	) Problem with message	s
Be	low Opening Auction orders will be cancelled	. Ch	eck the related Execution	Report messages.
	iv. (ClOrdID=130) BUY – <u>170 lot</u> – Mar v. (ClOrdID=140) BUY – 300 lot – Mar			
(	) Expected messages are received.	(	) Problem with message	s

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#### **CONTINOUS AUCTION**

i. BUY – 100 lot – 5.200 TL – Day – Client	[ClOrdID=290]
ii. SELL –20 lot – 5.200 TL – Day – Client	[ClOrdID=300]
Check Execution Messages and Trade Report messages of trade below i. Trade 1: 20 lot 5.200 TL	·
( ) Expected messages are received. ( ) Problem wit	h messages
<ul> <li>IS. ZOREN.E modify quantity of your partially traded order and receive leads.</li> <li>i. (ClOrdID=290) BUY - 70 lot* - 5.200 TL - Day - Client</li> </ul>	Execution Report messages.  [ClOrdID=310]
* Order with original quantity of 100 lots is partially executed and remains befor modification. When order is modified as 70 lots, partially executed quand passive order in the orderbook will be updated as 50 lots. Check and counter the LeavesQty field (151=50). (This warning messages is for users who see Request for order modification.)	quantity will be extracted onfirm that 50 is received in and Order Cancel Replace
( ) Expected messages are received. ( ) Problem with m	essages
<b>i.</b> (ClOrdID=310) BUY – 90 lot** – 5.200 TL – Day – Client  ** Order with original quantity of 100 lots is partially executed and remain befor modification. When order is modified as 90 lots, partially executed quand passive order in the orderbook will be updated as 70 lots. Check and cathe LeavesQty field (151=70). (This warning messages is for users who see Request for order modification.)	[ClOrdID=320] as 80 lots in the orderbook quantity will be extracted onfirm that 70 is received in
( ) Expected messages are received. ( ) Problem with m	essages

**14. ZOREN.E** enter below orders (2nd partition) and receive Execution Report messages.

17. ALCAR.E enter below orders (1st partition) and receive Execution Report	messages.
i. BUY – 100 lot – 5.200 TL – Day - Client	[ClOrdID=330]
ii. SELL – 60 lot – 5.200 TL – Good Till Date (Two workdays from t	est day) – Client [ClOrdID=340]
Check Execution Messages and Trade Report messages of trades below. i.Trade 1: 60 lot 5.200 TL	
( ) Expected messages are received. ( ) Problem with messages	ges
18. ALCAR.E modify quantity of your partially traded order and receive Exec	ution Report messages
i.(ClOrdID=330) BUY $-50 \cdot 10t*** -5.200 \cdot TL - Day - Client$	[ClOrdID=350]
*** Order with original quantity of 100 lots is partially executed and remains 4 before modification. When order is modified as 50 lots, partially executed quant and passive order in the orderbook will be deleted. Check and confirm that 0 is LeavesQty field (151=00). (This warning messages is for users who send Order Request for order modification.)	tity will be extracted received in the
( ) Expected messages are received. ( ) Problem with messa	ges
<ul> <li>19. AKBNK.E enter below orders and receive Execution Report messages.</li> <li>i. BUY - 100 lot - 5.200 TL - Day - Client</li> <li>ii. BUY - 200 lot - 5.190 TL - Day - Client</li> <li>iii. SELL - 450 lot - Market - IoC - Client</li> </ul>	[ClOrdID=360] [ClOrdID=370] [ClOrdID=380]
Check Execution Messages and Trade Report messages of trades below. i.Trade 1: 100 lot 5.200 TL ii.Trade 2: 200 lot 5.190 TL	
Below order will be cancelled. Check the related Execution Report message	۵۰
iii. (ClOrdID=380) 150 lot Market	

20. AK	GRT.E enter below orders and receive Execution Report messages.	
i. ii. iii.	BUY – 100 lot – 5.200 TL – Day - Client BUY – 200 lot – 5.190 TL – Day - Client SELL – 450 lot – Market to Limit – Good Till Date (Test Day) [ClOrdID=410]	[ClOrdID=390] [ClOrdID=400] - Client
	ck Execution Messages and Trade Report messages of trades below Frade 1: 100 lot 5.200 TL	
	Rest of the partially traded Market to Limit (350 lot) order will be porice level 5.200 TL. No messages will be received for this transaction	
( )	Expected messages are received. ( ) Problem with n	nessages
21. ANS	<b>GGR.E</b> enter below orders and receive Execution Report messages.	
i. ii. iii.	BUY – 100 lot – 5.200 TL – Day - Client BUY – 200 lot – 5.190 TL – Day - Client SELL – 450 lot – Market to Limit – IoC – Client	[ClOrdID=420] [ClOrdID=430] [ClOrdID=440]
	ck Execution Messages and Trade Report messages of trades below Frade 1: 100 lot 5.200 TL	
	Rest of the partially traded Market to Limit (350 lot) order will be porice level 5.200 TL. No messages will be received for this transaction	
( )	Expected messages are received. ( ) Problem with m	nessages
22. AR	CLK.E enter below orders and receive Execution Report messages.	
ii. E	SUY – 100 lot Appearable Amount Miktar - 500 toplam Miktar (Par Order / Iceberg) – 5.200 TL – Day - Client SUY – 200 lot – 5.190 TL – Day - Client	[ClOrdID=450] [ClOrdID=460]
	ELL – 100 lot – 5.20 – Day – Client  k Execution Messages and Trade Report messages of trades below.	[ClOrdID=470]
i.Trade	e 1: 100 lot 5.200 TL e 2: 100 lot 5.200 TL	
( )	Expected messages are received. ( ) Problem with me	essages

23.	ASELS.E	enter l	below	orders	and	receive	Execution	Report	messages.	

i.	BUY – 100 lot – 5.200 TL – Day - Client	[ClOrdID=480]
ii.	SELL – 200 lot – 5.220 TL – Day - Client	[ClOrdID=490]
iii.	BUY – 45000 lot – 5.210 TL – Midpoint Limit – Day – Client	[ClOrdID=500]
iv.	BUY – 50000 lot – 5.230 TL – Midpoint Limit – Day – Client	[ClOrdID=510]
v.	BUY – 70000 lot – Midpoint Market – IoC – Client	[ClOrdID=520]
vi.	SELL – 80000 lot – Midpoint Market – IoC – Client	[ClOrdID=530]

Check Execution Messages and Trade Report messages of trades below.

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i.Trade 1: 45000 lot 5.210 TL ii. Trade 2: 35000 lot 5.210 TL
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Below order will be cancelled. Check the related Execution Report message:

iii. (ClOrdID=520) BUY 70000 lot

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( ) Expected messages are received. ( ) Problem with messages
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**24. AKBNK.AOF** enter below orders and receive Execution Report messages.

i.	BUY – 100000 lot – (-0.01) TL – Day - Client	[ClOrdID=540]
ii.	BUY - 100000  lot - (0.000)  TL - Day - Client	[ClOrdID=550]
iii.	BUY - 100000  lot - (0.01) TL - Day - Client	[ClOrdID=560]
iv.	SELL – 250000 lot – (-0.010 ) TL – Day - Client	[ClOrdID=570]

Check Execution Messages and Trade Report messages of trades below.

i.Trade 1: 100000 lot (0.010) TL ii.Trade 2: 100000 lot (0.000) TL iii.Trade 3: 50000 lot (-0.010) TL

( ) Expected messages are received.	( ) Problem with messages
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**25.** Enter BUY orders to below instruments with price 5.000 TL, quantity100 lot and receive Execution Report messages (Accepted).

i.	GARAN.R	[ClOrdID=580]
ii.	GARAN.TE	[ClOrdID=590]
iii.	GARAN.TR	[ClOrdID=500]
iv.	GASLA.V	[ClOrdID=610]
v.	ADAAA.C	[ClOrdID=620]
vi.	GARAN.ME	[ClOrdID=630]
vii.	GARAN.BE	[ClOrdID=640]

( ) Expected messages are received.	( ) Problem with messages

#### **26. BAKAB.E** enter the below orders and check the Execution Report messages.

i.	BUY - 100 lot - 5.000 TL - Day - Client	[ClOrdID=650]
ii.	SELL - 10 lot - 5.000 TL - Day - Client	[ClOrdID=660]
iii.	BUY - 50 lot - 5.010 TL - Day - Client	[ClOrdID=670]
iv.	Short Sell – 50 lot – 5.010 TL – Day - Client	[ClOrdID=680]

Check Execution Messages and Trade Report messages of trades below.

i.Trade 1: 10 lot 5.000 TL

ii.Trade 2: 50 lot 5.010 TL (Short Sell Trade)

#### **End of Day Batch**

Check cancel messages (Execution Report - cancelled) for Expired day orders.
( ) Expected messages are received. ( ) Problem with messages
Logout from the system after expected cancel messages are received. System will be restarted after End of Day Batch.
( ) Expected messages are received. ( ) Problem with messages
Failover to Secondary Gateway (Order Entry)  Terminate connection with Primary FIX Gateway IP and Ports and connect to secondary FIX Gateway IP and Port provided.  ▶ Send Logon message without resetting Sequence number and receive Logon message.,
( ) Expected messages are received. ( ) Problem with messages
Enter below orders to the secondary system and receive Execution Report (accepted) messages:
o ARCLK.E BUY PRICE: 5.000 20 LOT (Partition1)
o GARAN.E BUY PRICE: 5.060 20 LOT (Partition2)
o NETAS.E BUY PRICE: 5.000 10 LOT (Partition3)
o TCELL.E BUY PRICE: 7.500 10 LOT (Partition4)
( ) Expected messages are received. ( ) Problem with messages

#### **Failover to Secondary Gateway (Drop Copy)**

The connection from the primary DC Gateway IPs is terminated. While the user is in the Logout state, orders that match the user orders are entered into the system. User orders are executed and execution reports (Execution Report - Trade) are written to the user's message queue.

Drop copy connections are established in all partitions with the given Secondary Gateway IPs. The ports used in the primary gateway connection will be used.

>	The Logon message is sent and the Logon mess the sequence number.	ssage is received from the system without resetting
	( ) Expected messages are received.	( ) Problem with messages

> Since the Sequence number of the message coming from the server is higher than expected, a Resend Request message is sent to the system. It is seen that the missed messages are received from the system in response to the Resend Request message:

ARCLK.E Price: 5.000 20 LOT fully traded.
 GARAN.E Price: 5.060 20 LOT fully traded.
 NETAS.E Price: 5.000 10 LOT fully traded.
 TCELL.E Price: 7.500 10 LOT fully traded.

## **SECTION 3:**

### MARKET MAKER FUNCTIONALITY TEST

#### **Notes**

- ✓ Orders should be **Limit** priced, **Day** and **Client** orders.
- ✓ Values of Account and Reference fields will be checked for only steps that indicate these
  values in the scenario. These fields should be sent in compliance with FIX Specification
  document.
- ✓ PartyID of MassQuote messages must be "PY" with PartyRole 28-Custodian.
- ✓ There will be no response from the system for successful MassQuote entries. MassQuote Acknowledgement message will be sent if one or more Quote entry has incorrect value. MassQuote message will be validated by Exchange operator and user will be informed.
- ✓ It is strongly recommended that the QuoteIDs are taken from the same numbering series as the ClOrdID in cases where Orders and Quotes are submitted through the same FIX session. This principle is applied for test steps below and previously used ClOrdIDs/TradeReportIDs are not used.
- ✓ "QuoteEntryID" value that will be given to each quote entry is started from 1 and incremented by one for each quote entry. Given QuoteEntryIDs are expected for MassQuote messages that include more than one quotes.
- ✓ Entered successful MassQuotes will be checked from Trader Workstation by Exchange Operator.

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#### **OPENING SESSION**

1. ATAGY.E enter below orders and receive Execution Report messages.	
i. BUY - 100 lot - 4,950 TL ii. SELL - 700 lot - 5,100 TL	[ClOrdID=5010] [ClOrdID=5020]
( ) Expected messages are received. ( ) Problem with messa	ges
2. <b>ATAGY.E</b> enter MassQuote at price levels 5,100 – 5,110 and 500 lots each	n side. [QuoteID=5030]
<b>NOTE:</b> No response will be received from system for a successful MassQueentry will be checked from Trading Workstation by Exchange Operator dur	•
OPENING SESSION MATCHING	
Opening Session will be ended and match will be started. Check Execution Rep Report messages for ATAGY.E:  i. Trade: 500 lot 5.100TL	oort ve Trade Capture
( ) Expected messages are received. ( ) Problem with messa	ges
3. ATAGY.E enter MassQuote at price levels 5,200 – 5,250 and 500 lots each Quote Acknowledgement- Reject message is received. NOT: MassQuote entry is not allowed in this session state.	n side. Check Mass [QuoteID=5040]
( ) Expected messages are received. ( ) Problem with mess	ages

<b>P_SaltKotasyon Session</b>	(Before	<b>Continuous</b>	Auction	<b>Session</b> )	Quotation
Entry					

Ent	Entry						
4. ATAGY.E Enter a quote order for 500 lots at prices 5.08 - 5.09. [QuoteID=5050] Check the DC Quote Status Reports.							
(	) Expected messages are received.	(	) Problem with messages				
	5. ATAGY.E Change the quote prices as 5.07 – 5.080. [QuoteID=5060] Check the DC Quote Status Reports.						
(	) Expected messages are received.	(	) Problem with messages				
	6. ATAGY.E cancel the quote order. [QuoteID=5070] Check the DC Quote Status Reports.						
(	) Expected messages are received.	(	) Problem with messages				
CONTINOUS AUCTION  7. ATAGY.E enter MassQuote at price levels 5,200 – 5,250 and 500 lots each side. Quote entry on his instrument will be updated. Check below Execution Report and Trade Report messages are eceived after MassQuote update.  [QuoteID=5080]  i. Trade: 200 lot 5.100TL							
(	) Expected messages are received.	(	) Problem with messages				
S. ATAGY.E enter MassQuote at price levels 5,300 – 5,350 and 250 lots each side. Quote entry on this instrument will be updated.  [QuoteID=5090]							
(	) Expected messages are received.	(	) Problem with messages				
).ATA	GY.E enter below orders and receive Exec	cution	Report messages.				
i	ii. SELL - 100 lot - 5,310 TL iii. SELL - 20 lot - 5,320 TL v. SELL - 30 lot - 5,330 TL		[ClOrdID=5100] [ClOrdID=5110] [ClOrdID=5120]				

	( ) Ex	pected messages are received.	(	) Problem with messages
1(		E update the price of BUY side of the execution Report and Trade Report mes	•	te as 5,330 TL as are received for below trades after Quote
	update:  v. vi. vii.	Trade: 100 lot 5.310 TL Trade: 20 lot 5.320 TL Trade: 30 lot 5.330 TL		[QuoteID=5130]
	( ) Ex	pected messages are received.	(	) Problem with messages

11. D.	JIST	<b>.F</b> enter	Mass	Quote a	ıt price	e level	ls 5,00	00 – 5	5,2	250 and 500 l	ots each		oteID=51	140]
(	) E	xpected	d mes	ssages	are rec	ceive	d.	(		) Problem w	ith mes	sages		
12. D.	JIST	.F cance	el only	the BU	JY sid	e of th	he quo	ote en	nte	red to this ins	strument		oteID=51	150]
(	) E	xpected	d mes	ssages	are rec	ceive	d.	(		) Problem w	ith mes	sages		
		.F cance				_	uote e	ntered	d t	to this instrun	nent, too		at there w	
(	) Ex	pected	mess	sages a	re rec	eived	l.	(	)	Problem wi	ith mess	ages		
14. A'	ГAG	Y.E ent	er Ma	ssQuote	e only	on BU	UY si	de at j	pr	ice level 5,51	0 TL wi		Lots. oteID=51	170]
(	) E	xpected	d mes	ssages	are rec	ceive	d.	(		) Problem w	ith mes	sages		

<b>15. ATAGY.E</b> enter MassQuote only on SELL side at price level 5,580 TL with 500 Lots. (BUY side will be cancelled)				
side will be calledied)	[QuoteID=5180]			
( ) Expected messages are received. ( ) Problem with n	nessages			
<b>16.</b> Enter a single MassQuote message on below instruments with given pricQuoteEntryID.	ce levels, size and			
	[QuoteID=5190]			
<b>ADAAA.C</b> : BUY: 7,900 TL 5000 Lot - SELL: 8,600 5000 Lot	(QuoteEntryID=1)			
<b>EGGUB.E</b> : BUY: 16,000 TL 500 Lot — SELL: 16,200 1000 Lot	(QuoteEntryID=2)			
<b>NETAS.E</b> : BUY: 5.30 TL 500 Lot – SELL: 5.50 500 Lot	(QuoteEntryID=3)			
<b>ZOREN.E</b> : BUY: 5,100 TL 500 Lot – SELL: 5,200 1000 Lot	(QuoteEntryID=4)			
( ) Expected messages are received. ( ) Problem with m	essages			
<b>17.</b> Enter a single MassQuote message on below instruments with given pricQuoteEntryID.	ce levels, size and			
<b>ADAAA.C</b> : BUY: 8,000 TL 5000 Lot – SELL: 8,100 5000 Lot	[QuoteID=5200] (QuoteEntryID=1)			
<b>EGGUB.E</b> : BUY: 15,000 TL 500 Lot – SELL: 16,200 1000 Lot	(QuoteEntryID=2)			
<b>NETAS.E</b> : BUY: 0,530 TL 500 Lot - SELL: 0,580 500 Lot	(QuoteEntryID=3)			
<b>ZOREN.E</b> : BUY: 17,000 TL 500 Lot - SELL: 16,200 1000 L	ot ( <b>QuoteEntryID=4</b> )			
Check that "Mass Quote Acknowledgement - Some Quotes Rejected" mess rejection of 4th quote entry in the MassQuote message.	age is received due to			
( ) Expected messages are received. ( ) Problem with r	nessages			

**18.** Enter a single MassQuote message on below instruments with given price levels, size and QuoteEntryID.

[QuoteID=5210]

**ADAAA.C**: BUY: 8,000 TL 5000 Lot – SELL: 8,100 5000 Lot (*QuoteEntryID=1*)

**EGGUB.E**: BUY: 15,000 TL 500 Lot - SELL: 16,200 1000 Lot (*QuoteEntryID=2*)

**NETAS.E**: BUY: 0,530 TL 500 Lot – SELL: 0,580 500 Lot (*QuoteEntryID=3*)

**ZOREN.E**: BUY: 17,000 TL 500 Lot — SELL: 16,200 1000 Lot (*QuoteEntryID=4*)

Check that "Mass Quote Acknowledgement – All Quotes Rejected" message is received due to rejection of all quote entries in the MassQuote message.

#### **Test Evaluation**

Title of the Brokerage House	
Technical Staff Participated in the Test	
Market Staff Participated in the Test	
Exchange Official Participated in the Test	
General Evaluation (to be filled by BIST officials)	

Please contact with  $\underline{bistech support\_autoticket@borsaistanbul.com}\ for\ your\ questions.$