

AutoCert+ Eris Exchange User Manual

3/15/15

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Please submit user experience feedback about this help system.

Getting Started

The AutoCert+ tool is an automated testing tool for validating application functionality. It provides an easy-to-use web interface for walking through CME Group certification scenarios.

To facilitate the process of connecting a customer application to Streamlined FIX/FAST for the Eris Exchange, CME Group provides a dedicated certification environment to allow customers to test their systems before they complete certification.

The Streamlined FIX/FAST for the Eris Exchange tests focus on verifying that customer applications can receive and process market data messages for Eris Exchange products.

Streamlined FIX/FAST for the Eris Exchange certification testing consists of the following test cases:

- Security Definition
- Book Management (Market by Order)
- Recovery via TCP Replay
- Single Order Book Reset
- Channel Reset
- Request for Quote (RFQ)

The following assumptions apply to each test case:

- The book is clear at the beginning of any scenario requiring orders to be sent.
- AutoCert+ selects dummy instruments.
- A set of instruments is reserved for each customer while running scenarios that require orders to be sent.

To run and navigate AutoCert+:

- 1. Log into the automated certification tool.
- 2. Review general AutoCert+ test suite navigation and general interview information.
- 3. Complete the Interview for this test suite.
- 4. Complete applicable test cases.
- 5. Complete the certification process from the Post Certification tab.

What's New

The list below illustrates the updates made to the AutoCert+ Eris Help system.

Date	Author	Торіс	Description
10/13/15	JJ		Added Feedback feature
4/15/14	NU	All	Updated links and edited for Help standards.
11/5/12		Security Definition	Updated test to include Security Definition for spreads. Updated to include question about supporting spreads.
9/17/12		Getting Started	Enhanced Getting Started section.
9/23/11			Updated all screens for 4.0 enhancements.
2/24/11			Initial release.

Interview

The interview consists of a series of questions about your system. Based on your responses, certain tests are required and others are optional.

To complete the interview process:

- If you answer "Yes" to the question, "Does your system support RFQ (Request for Quote) Messages?", then the <u>RFQ</u> (<u>Request for Quote</u>) Message test is included as a mandatory test. If you answer "No," the RFQ (Request for Quote) Message test is included as an optional test.
- 2. If you answer "**Yes**" to the question, "Does your system support spreads?", then a Security Definition and a Security Definition message with a delete instruction for a spread will be sent during the Security Definition test.
- 3. Click "Complete".

	Current Te	sting Configura	ation	
Company Name:	CME INTERNAL TESTING	•	Tester:	noke test8 👻
System Profile:	KT Test5 - Non-Automated Trading System 1.0 🔹		TestSuite: Er	s Exchange 👻
			Test Suite Status:	
SenderComp :	Select SenderComp 👻 ASSIGN		Pre-Certification Interview	: O Not Complete
			Eris Exchange Online Help	
Interview Test	Suite Test Case Post Certification			
Does you	r system support RFQ (Request for Quote) Messages?			
© No				
Does you	r system support spreads?			
C No				

Security Definition

This test verifies that your application can properly receive Security Definition messages and properly handle the deletion of Dynamic Security Definition messages.

Note: This test is mandatory for all customers.

Note: If you answered "**Yes**" to the question, "Does your system support spreads?" in the <u>Interview</u>, then steps 3 and 4 will be included for this test.

This t	est could take up to several minutes. Pl	lease do not close the window	during the test Closing (the descented area in a dead second	quices to secue the	
			during the test closing i	window/stopping test re	quires to recuit the	e test from step1.
Pur	pose					
The	purpose of this test is to verify that yo unity Definition messages.	our application can properly rec	ceive Security Definition	lessages and properly	handle the deletion	n of Dynamic
Sele	cted Contract: 10Y-USD,5Y-USD	20121219 0.500/10Y-USD 201	30320 0.500 - 724	nlock		
	Category			IP		Port
	Incremental Fe	edA	23	9.43.100.26		15627
	Incremental Fe	ed B	23	9.43.100.26		15628
	TCP Repla	a contraction of the second seco	17	16 22 222		
Not	e: Press the Start Test button to s ton again if you are currently runn	tart or restart a Test. Pleas ing this test.	se do not press the S	art Test		12345 START TEST
Not but	e: Press the Start Test button to s ton again if you are currently runn scription	atart or restart a Test. Pleasing this test.	se do not press the S	art Test		Status
Not but	e: Press the Start Test button to s ton again if you are currently runn scription Confirm that your application	start or restart a Test. Pleas ling this test. successfully received and p	ae do not press the S	art Test	essage.	Status
De: 1	e: Press the Start Test button to s ton again if you are currently runn scription Confirm that your application Message.	start or restart a Test. Pleas ing this test. successfully received and p successfully received and p	processed Security Dr	art Test finition Response M Security Definition Re	essage. sponse	12345 START TEST Status
Not but 1 2 3	e: Press the Start Test button to s ton again if you are currently runn confirm that your application Confirm that your application Message. Confirm that your application Instrument.	start or restart a Test. Pleasing this test. successfully received and p successfully received and p successfully received and p	processed Security Dr processed Security Dr processed the delete	art Test Afinition Response M Security Definition Re	essage. sponse a Spread	12345 START TEST Status

To complete the Security Definition test:

- 1. From the **Contract** drop-down, select the desired contract if the contract is not already locked.
- 2. Click the "START TEST" button.

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Note: DO NOT select the "START TEST" button once the test is in progress.

3. Confirm that a Security Definition message was received and processed.

Enter the values for the following tags and click **Submit**:

- tag 55-Symbol
- tag 1151-SecurityGroup

- tag 541-Maturity Date
- 4. Confirm that a Security Definition message with a delete instruction was received and processed.

Enter the values for the following tags and click **Submit**:

- tag 55-Symbol
- tag 1151-SecurityGroup
- tag 980-SecurityUpdate Action
- 5. Confirm that a Security Definition message for a spread instrument was received and processed.

Enter the values for the following tags and click Submit:

- tag 55-Symbol
- tag 1151-SecurityGroup
- tag 167-SecurityType
- 6. Confirm that a Security Definition message with a delete instruction for a spread instrument was received and processed.

Enter the values for the following tags and click Submit:

- tag 55-Symbol
- tag 1151-SecurityGroup
- tag 980-SecurityUpdate Action

Book Management - Market by Order

This test verifies that you can receive and process book management information that is arranged in Market by Order levels for Eris instruments.

		Current Testi	ng Configuration	
ompany Name	81	QA	Tester: Let	st user1
ystem Profile	:	DEV_TEST_PROFILE - Automated Trading System 1.0	TestSuite:	is Exchange
			Test Suite Status:	
enderComp :		P09725 UNASSIGN	Pre-Certification Interview Test Suite Status: Eris Exchange Online Help	r: Complete In Progress
Interview	Test S	uite Test Case Post Certification		
	Steps This test	s of the test: Book Management for ERIS Ins could take up to several minutes. Please do not close the window d	truments uring the test.Closing window/stopping test requires t	to rerun the test from step1.
	Purpo	se		
	The pu Order I	rpose of this test is to verify that your application can properly receivered for ERIS instruments.	ve and process book management information that is	arranged in Market by
	Select	ed Contract : 10Y-USD - 724 Unlock		
		Category	IP	Port
		Incremental Feed A	239.43.100.26	15627
		Incremental Feed B	239.43.100.26	15628
	Note: I buttor	Press the Start Test button to start or restart a Test. Please again if you are currently running this test.	do not press the Start Test	START TEST
	Descr	ription		Status
	1	Confirm that the book is empty.		
	2	Receive and process orders for one instrument.		
	3	Receive cancellations for orders.		
	4	Confirm quantities and prices on the book.		
	5	Receive a new offer book update message at same price.		
		Density a sharened hid hash used to serve a start		

To run a Book Management test:

- 1. From the "Contract" drop-down, select the desired contract if the contract is not already locked.
- 2. Click the "**START TEST**" button.

Note: DO NOT select the "START TEST" button once the test is in progress.

3. Confirm that the book is empty.

- 4. Receive and process orders for one instrument.
- 5. Receive cancellations for orders.
- 6. Confirm the quantities and prices on the book.

Enter the price (tag 270-MDEntryPx) and quantity (tag 271-MDEntrySize) for each bid (269=0) and ask (269=1) order now present in the order book.

	Instrument 1	0Y-USD	SoliDrico	SollOuantity
	ooyrnce	ouycuanuty	o o	Jo
	0.0	0	0.0	
	0.0	0	0.0	0
	0.0	0	0.0	0
	0.0	0	0.0	0
	0.0	0	0.0	0
4	0.0	0	0.0	0
	0.0	0	0.0	0
	0.0	0	0.0	0
	0.0	0	0.0	0
	0.0	0	0.0	0
	0.0	0	0.0	0
	0.0	0	0.0	0
	Submit			

7. Receive a new offer book update message at the same price.

Enter the book level (tag 290-MDEntryPositionNo) and price (tag 270-MDEntryPx) of the new order.

8. Receive a changed bid book update message with a new quantity.

Enter the book level (tag 290-MDEntryPositionNo) and quantity (tag 271-MDEntrySize) of the changed order.

9. Confirm the quantities and prices on the book.

Enter the price (tag 270-MDEntryPx) and quantity (tag 271-MDEntrySize) for each bid (269=0) and ask (269=1) order now present in the order book.

Recovery via TCP Replay

This test verifies that your application can recover missed Streamlined FIX/FAST Eris Exchange messages via TCP Replay.

Note: This test is mandatory for all customers.

npany Name:	QA	Tester:	test user1
tem Profile:	DEV_TEST_PROFILE - Automated Trading System 1.0	TestSuite:	Eris Exchange
		Test Suite Sta	itus:
nderComp :	P09725 UNASSIGN	Pre-Certification I Test Suite Status: Eris Exchance On	In Progress
terview Test	Suite Test Case Post Certification		
Ster	as of the test: Recovery via TCP Replay for F	RIS Instruments	
This for	al could take up to several mouths. Rease do not close the window	during the least Chasing window Managing least	requires to rerup the test from step 1.
Pure		on of the state of the second s	regenere to the one one of the one endy to
The	purpose of this test is to verify that your application can perform a re	covery via TCP Replay for ERIS messages.	
The	purpose of this test is to verify that your application can perform a re	covery via TCP Replay for ERIS messages.	
Sele	purpose of this test is to verify that your application can perform a re cted Constract: 10Y-USD - 724 UNKOCK	covery via TCP Replay for ERIS messages.	
Sele	purpose of the test is to verify that your application can perform a re cted Contract: 101/USD - 724 Unitook Category	covery via TCP Replay for ERIS messages.	Port
Sele	cted Contract: 101-USD - 724 Unitook Category Incremental Feed A	IP 239.43.100.25	Port 15627
Sele	cted Contract: 10/-USD - 724 Unexck Category Incremental Feed A Incremental Feed B TCP Receive	10 10 239 43, 100 25 239 43, 100 25 239 43, 100 25 172 55 32 231	Port 15627 15629 20029
The Sello	purpose of the test is to verify that your application can perform a re cted Contract: 107/-USD - 724 Undock Category Incremental Feed A Incremental Feed B TCP Replay TCP Replay TCP Replay TCP Replay	IP 239.43, 100.25 239.43, 100.25 239.43, 100.25 172.16.32.231 e do not press the Start Test	Port 15627 15928 20029 START TE ST
Solo Both	purpose of the test is to verify that your application can perform a re cted Contract: 10//-USO - 724 Veneck Category Incremental Feed A Incremental Feed A Incremental Feed B TCP Replay Incremental Feed B TCP Replay Incremental Feed B TCP Replay	P 239.43.100.25 239.43.100.25 239.43.100.25 172.15.32.231 e do not press the Start Test	Port 15527 15628 20029 START FEST Status
The Selev Boots Duets	purpose of the test is to verify that your application can perform a re cted Contract: 101/-USD - 724 UNKOCK Category Incremental Feed A Incremental Feed A Incremental Feed B TCP Replay Incremental Feed B TCP Replay	P 209.43.100.25 239.43.100.25 239.43.100.25 172.16.32.231 e do not press the Start Test	Port 15927 15928 20029 START TEST Status
Note Butt	Category Incremental Feed A Incremental Feed A Incremental Feed A Incremental Feed B TCP Replay TCP Replay Creption Confirm that the book is empty. AutoCert- sends some Market Data book updates then c	IP 239.43.100.25 239.43.100.25 239.43.100.25 172.16.32.231 e do not press the Start Test reates a gap that needs to be recovered	Port 15927 15928 20029 START TEST Status
Selle Boots 1 2 3	Category Incremental Feed A Incremental Feed A Incremental Feed A Incremental Feed B TCP Replay E Press the Start Test button to start or restart a Test. Pleas on again if you are currently running this test. Confirm that the book is empty. AutoCert- sends some Market Data book updates then o Establish a TCP connection and submit a Logon message	IP 209 43 100 25 209 43 100 25 209 43 100 25 172 16 32 231 e do not press the Start Test reales a gap that needs to be recovered ge using your AutoCert- credentials	Port 15627 15628 20029 STANT TEST Status
Bosh Bush Des 1 2 3 4	Universe of the test is to verify that your application can perform a re Category Category Incremental Feed A Incremental Feed B TCP Replay E Press the Start Test buttion to start or restart a Test. Pleas on again if you are currently running this test. Confirm that the book is empty. AutoCert- sends some Market Data book updates then o Establish a TCP connection and submit a Logon message Receive a Logon Confirmation message	IP 239 43 100 26 239 43 100 26 239 43 100 26 172 16 32 231 e do not press the Start Test reates a gap that needs to be recovered ge using your AutoCert+ credentials	Port 15527 15628 20029 STARE TE ST Status 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Note But Des 1 2 3 4 5		IP 209 43 100 26 209 43 100 26 209 43 100 26 209 43 100 26 172 16 32 231 e do not press the Start Test reales a gap that needs to be recovered ge using your AutoCert+ credentials	Port 15927 15928 20029 START TE ST Status 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Note Note Note Note Note Note Note Note	ted Contract: 10//USD - 724 USOCC Category Incremental Feed A Incremental Feed A Incremental Feed B TCP Replay TCP Replay Confirm that the book is empty. AutoCert+ sends some Market Data book updates then c Establish a TCP connection and submit a Logon message Receive a Logon Confirmation message Submit a Market Data Request message Receive streamlined FDUFAST recovery messages that w	IP 239.43.100.25 239.43.100.25 239.43.100.25 172.16.32.231 e do not press the Start Test reates a gap that needs to be recovered. ge using your AutoCert- credentials rere requested in the Market Data Reque	Port 15927 15928 20029 START TEST Status Sta

To run a Recovery via TCP Replay test:

- 1. From the **Contract** drop-down, select the desired contract if the contract is not already locked.
- 2. Click the "START TEST" button.

Note: DO NOT select the "START TEST" button once the test is in progress.

- 3. Confirm that the book is empty.
- 4. Receive market data book updates. There will be missing messages which need to be recovered.
- 5. Establish a TCP connection and submit a Logon message using AutoCert+ credentials.
- 6. Confirm that a Logon message was received.
- 7. Submit a Market Data Request message to request the range of missing messages.
- 8. Receive Streamlined FIX/FAST recovery messages that were requested in the Market Data Request message.
- 9. Confirm that a Logout message was received.

AutoCert+ closes the TCP connection.

Single Order Book Reset

This test verifies that your application can properly receive and process book reset messages in order to recover a single order book.

	Current Test	ing Configuration	
ompany Name:	QA	Tester:	test user1
ystem Profile:	DEV_TEST_PROFILE - Automated Trading System 1.0	TestSuite:	Eris Exchange
SenderComp :	PD9725 UNASSIGN	Test Suite Sta Pre-Certification In Test Suite Status: Eris Exchange On	atus: nterview : Complete In Progress line Help
Interview Test	t Suite Test Case Post Certification		
This to Pun The	est could take up to several minutes. Please do not close the window of pose purpose of this test is to verify that your application can properly rece	turing the test. Closing window/stopping test	requires to rerun the test from step
This to Pury The Sete	est could take up to several minutes. Please do not close the window of pose purpose of this test is to verify that your application can properly rece cted Contract : 10Y-USD - 724 Unlock Category Incremental Feed A Locremental Feed B	turing the test Closing window/stopping test ive and process book reset messages in ord IP 239.43.100.26 239.43.100.26	requires to rerun the test from step ler to recover the book. Port 15627 15628
This to Purn The Sele	e: Press the Start Test button to start or restart a Test. Please to again if you are currently running this test.	turing the test. Closing window/stopping test inve and process book reset messages in ord 239.43.100.26 239.43.100.26 172.16.32.231 e do not press the Start Test	requires to rerun the test from step ler to recover the book. Port 15627 15628 20029 START TEST
This to Purn The Sele	e: Press the Start Test button to start or restart a Test. Please to again if you are currently running this test.	turing the test. Closing window/stopping test inve and process book reset messages in ord 239.43.100.26 239.43.100.26 172.16.32.231 e do not press the Start Test	requires to rerun the test from step ler to recover the book. Port 15627 15628 20029 START TEST
This to Pury The Sele Not but	est could take up to several minutes. Please do not close the window of pose purpose of this test is to verify that your application can properly recent cted Contract : 10Y-USD - 724 Unlock Category Incremental Feed A Incremental Feed B TCP Replay et Press the Start Test button to start or restart a Test. Please ton again if you are currently running this test.	turing the test Closing window/stopping test ive and process book reset messages in ord 239.43.100.26 239.43.100.26 172.16.32.231 e do not press the Start Test	requires to rerun the test from step ler to recover the book. Port 15627 15628 20029 START TEST Status
This to Pury The Sele	est could take up to several minutes. Please do not close the window of pose purpose of this test is to verify that your application can properly rece cted Contract : 10Y-USD - 724 Unlock Category Incremental Feed A Incremental Feed B TCP Replay e: Press the Start Test button to start or restart a Test. Please ton again if you are currently running this test. scription Confirm that the book is empty. Confirm you have received Book Reset message with 265	turing the test Closing window/stopping test ive and process book reset messages in ord 239.43.100.26 239.43.100.26 172.16.32.231 e do not press the Start Test	requires to rerun the test from step ler to recover the book. Port 15627 15628 20029 START TE ST Status
This to Pury The Sele Note butt	e: Press the Start Test button to start or restart a Test. Please to again if you are currently running this test.	turing the test. Closing window/stopping test ive and process book reset messages in ord 239.43.100.26 239.43.100.26 172.16.32.231 e do not press the Start Test P=J. e number.	requires to rerun the test from step ler to recover the book. Port 15627 15628 20029 START TEST Status

To complete the Single Order Book Reset test:

- 1. From the **Contract** drop-down, select the desired contract if the contract is not already locked.
- 2. Click the **START TEST** button to begin the test.

Note: DO NOT select the "START TEST" button once the test is in progress.

3. Confirm that the book is empty.

AutoCert+ Eris Exchange

4. Confirm that the Book Reset¹ message was received.

Note: Tag 83-RptSeq should increment up from the last value from the previous message.

- 5. Receive the resent book message and process the orders.
- 6. Confirm the quantities and prices on the book.

Enter the price (tag 270-MDEntryPx) and quantity (tag 271-MDEntrySize) for each bid (269=0) and ask (269=1) order now present in the order book.

BuyPrice	BuyQuantity	SellPrice	SellQuantity
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
Submit			
	Instrument 1 BuyPrice 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Instrument 10Y-USD BuyPrice BuyQuantity 0.0 0	Instrument 10Y-USD SellPrice BuyPrice BuyQuantity SellPrice 0.0 0 0.0

¹Tag 35=X Tag 269=J

Channel Reset

This test verifies that your application can properly receive and process book reset messages in order to recover all books on the channel.

Current Testi	ng Configuration	
any Name: QA	Tester:	test user1
m Profile: DEV_TEST_PROFILE - Automated Trading System 1.0	TestSuite:	Eris Exchange
	Test Suite Status:	
erComp : P09725 UNASSIGN	Pre-Certification Intervi Test Suite Status: Eris Exchange Online H	ew : Complete In Progress
ew Test Suite Test Case Post Certification		
Purpose The purpose of this test is to verify that your application can properly received Selected Contract: 10Y-USD - 724 Unlock Category Incremental Feed A Incremental Feed B TCP Replay Note: Press the Start Test button to start or restart a Test. Please	IP 239.43.100.25 239.43.100.25 172.16.32.231	Port 15627 15628 20029
Note: Press the start rest button to start or restart a fest. Please button again if you are currently running this test.	do not press the Start Test	START TEST
Description		Status
be being more		
1 Confirm books are empty for the selected instrument.		
Confirm books are empty for the selected instrument. Receive market data for a set of orders.		
Confirm books are empty for the selected instrument. Receive market data for a set of orders. Confirm quantities and prices on the book for the selected	i instrument.	
1 Confirm books are empty for the selected instrument. 2 Receive market data for a set of orders. 3 Confirm quantities and prices on the book for the selected 4 Receive Channel reset message with 269=J.	instrument.	0 0 0
1 Confirm books are empty for the selected instrument. 2 Receive market data for a set of orders. 3 Confirm quantities and prices on the book for the selected 4 Receive Channel reset message with 269=J. 5 Receive resent book with report sequence number reset to	linstrument. o 1.	0 0 0 0

To run the Channel Reset test:

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- 1. From the **Contract** drop-down, select the desired contract if the contract is not already locked.
- 2. Click the "START TEST" button.

Note: DO NOT select the "START TEST" button once the test is in progress.

- 3. Confirm that the book is empty.
- 4. Receive market data for a set of orders.
- 5. Confirm the quantities and prices on the book.

Enter the price (tag 270-MDEntryPx) and quantity (tag 271-MDEntrySize) for each bid (269=0) and ask (269=1) order now present in the order book.

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BuyPrice	BuyQuantity	SellPrice	SellQuantity
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
0.0	0	0.0	0
Submit			
	BuyPnce 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	BuyPrice BuyQuantity 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0	BuyPrice BuyQuantity SellPrice 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0 0.0 0 0.0

- 6. Receive a Channel Reset¹ message.
- 7. Receive the resent book.

Note: Tag 83-RptSeq should be set to 1.

8. Confirm the quantities and prices on the book.

Enter the price (tag 270-MDEntryPx) and quantity (tag 271-MDEntrySize) for each bid (269=0) and ask (269=1) order now present in the order book.

¹tag 35=X tag 269=J

Request for Quote

This test verifies that your application can properly receive and process Request for Quote messages.

Note: If you answered "**Yes**" to the question, "Does your system support RFQ (Request for Quote) Messages?" in the <u>Interview</u>, then this test is mandatory. If you answered "**No**," then this test is optional.

mpany Nar	ne:	GA	Tester:	test user1
rstem Profi	lec	DEV_TEST_PROFILE - Automated Trading System 1.0	TestSuite:	Eris Exchange
			Test Suite Statu	151
SenderComp	p:	P09725 UNASSION	Pre-Certification Inte	view: O Complete
			Test Suite Status:	In Progress
			Eris Exchange Online	Help
Interview	Test	Suite Test Case Post Certification		
	Step This ter Purp The p	s of the test: Request For Quote Message for ER a could take up to several minutes. Please do not close the window during to ose wroose of this test is to verify that your application can properly receive an	IS Instruments he test. Closing window/stopping test req i process Request for Quote Messages.	vires to rerun the test from step 1.
	Step This ter Purp The p	s of the test: Request For Quote Message for ER could take up to several minutes. Please do not close the window during to ose urpose of this test is to verify that your application can properly receive and ted Contract: 10Y-USD - 724 [Undock]	IS Instruments he test. Closing window/latopping test req if process Request for Quote Messages.	ures to rerun the test from step1.
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	Step This ter Purp The p Selec	s of the test: Request For Quote Message for ER if could take up to several minutes. Please do not close the window during to ose uppose of this test is to verify that your application can properly receive and ted Contract: 101/-USD - 724 [UNDOCK] Category Incremental Feed A.	IS Instruments he test Closing window/latopping test req process Request for Guote Messages. pp 239.43.100.26	vies to rerun the test from step 1. Port 15627
	Step This ter Purp The p Selec	s of the test: Request For Quote Message for ER t could take up to several menutes. Please do not close the window during to ose uppose of this test is to verify that your application can properly receive and ted Contract: 107-USD - 724 Unlock ted Contract: 107-USD - 724 Unlock Contract For A Incremental Feed A Incremental Feed B	IS Instruments he test. Closing window/intopping test req process Request for Guote Messages. pr 239.43.100.26 239.43.100.26	vites to rerun the test from step1. Port 15527 15528
	Step This let Purp The p Selec	s of the test: Request For Quote Message for ER t could take up to several minutes. Please do not close the window during to ose uppose of this test is to verify that your application can properly receive and ted Contract: 10//-USO - 724 Category Incremental Feed A Incremental Feed B TCP Replay	IS Instruments he test. Closing window/intopping test req process Request for Guote Messages. 299.43.100.26 239.43.100.26 172.16.32.231	Port 15627 15628 20029
	Step This ter Purp The p Selec	s of the test: Request For Quote Message for ER could take up to several minutes. Please do not close the window during to ose upose of this test is to verify that your application can properly receive and ted Contract: 107/4/50 - 724 Category Incremental Feed A Incremental Feed B TCP: Replay Press the Start Test button to start or restart a Test. Please do no in again if you are currently running this test.	IS Instruments the test. Closing window/latopping test request for Quote Messages.	Port 15627 15628 20029 START TEST
	Step This ter Purp The p Selec	s of the test: Request For Quote Message for ER could take up to several minutes. Rease do not close the window during to ose urpose of this test is to verify that your application can properly receive and ted Contract: 10Y-USD - 724 Unlock Category Incremental Feed A Incremental Feed A Incremental Feed B TCP Replay Press the Start Test button to start or restart a Test. Please do not n again if you are currently running this test. reption	IS Instruments he test. Closing window/atopping test req process Request for Quite Messages. 239-43.100.26 239-43.100.26 172.16.32.231 of press the Start Test	Port 15627 15628 20029 START TEST Status

To complete the Request for Quote test:

- 1. From the **Contract** drop-down, select the desired contract if the contract is not already locked.
- 2. Click the "**START TEST**" button.

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Note: DO NOT select the "START TEST" button once the test is in progress.

3. Confirm that an RFQ message was received.

Enter the values from the following tags:

- tag 55-Symbol
- tag 1151-SecurityGroup
- tag 537-QuoteType
- tag 38-OrderQty

Description		Status
•	Confirm that your application successfully received and processed RFQ message.	
	Symbol :	
	SecurityGroup :	
	QuoteType :	-
	OrderQty:	
	Submit	