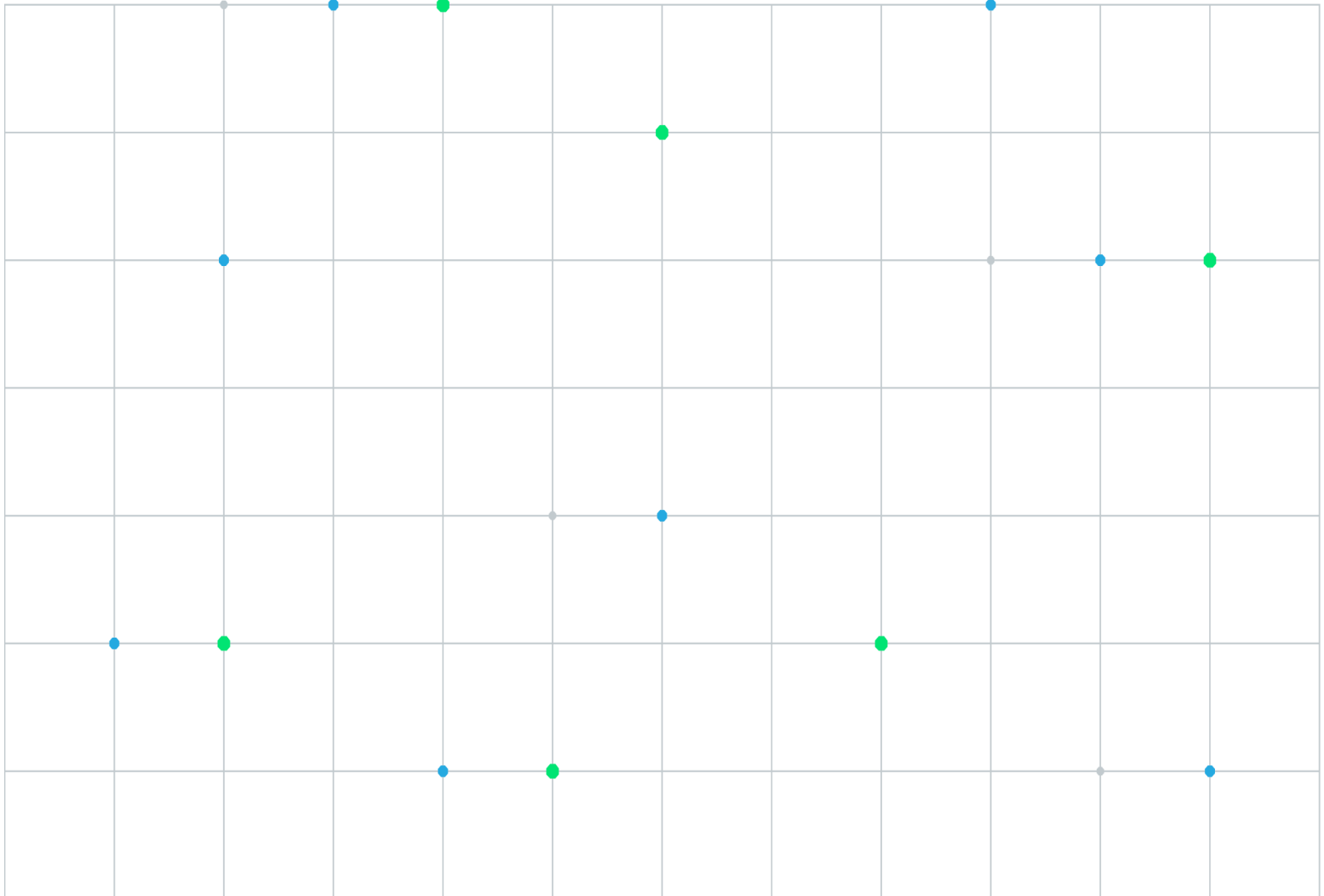


# AutoCert+ Streamlined SBE Block Trade

26 October 2022



## Disclaimer

---

Neither futures trading nor swaps trading are suitable for all investors, and each involves the risk of loss. Swaps trading should only be undertaken by investors who are Eligible Contract Participants (ECPs) within the meaning of Section 1a(18) of the Commodity Exchange Act. Futures and swaps each are leveraged investments and, because only a percentage of a contract's value is required to trade, it is possible to lose more than the amount of money deposited for either a futures or swaps position. Therefore, traders should only use funds that they can afford to lose without affecting their lifestyles and only a portion of those funds should be devoted to any one trade because traders cannot expect to profit on every trade. All examples discussed are hypothetical situations, used for explanation purposes only, and should not be considered investment advice or the results of actual market experience.

CME Group, the Globe Logo and CME are trademarks of Chicago Mercantile Exchange Inc. CBOT is a trademark of the Board of Trade of the City of Chicago, Inc. NYMEX is a trademark of New York Mercantile Exchange, Inc. COMEX is a trademark of Commodity Exchange, Inc. All other trademarks are the property of their respective owners.

The information within this manual has been compiled by CME Group for general purposes only. CME Group assumes no responsibility for any errors or omissions. Additionally, all examples in this manual are hypothetical situations, used for explanation purposes only, and should not be considered investment advice or the results of actual market experience. All matters pertaining to rules and specifications herein are made subject to and are superseded by official CME, CBOT and NYMEX rules. Current rules should be consulted in all cases concerning contract specifications.

Copyright © 2023 CME Group Inc. All rights reserved.

---

---

# Table of Contents

---

<b>Getting Started</b> .....	<b>4</b>
What's New .....	5
Interview .....	6
<b>Block Trades</b> .....	<b>7</b>
Incremental Market Data Refresh Messages .....	8
Recovery via TCP Replay .....	10
Support for Spreads .....	12
Price Precision Extension .....	14

# 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, CME Group provides a dedicated certification environment to allow customers to test their systems before they complete certification.

This Help system accompanies the AutoCert+ Streamlined SBE Block Trade test suite.

## 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+ Streamlined SBE Block Trade Help system.

Date	Topic	Description
26 Oct 2022	Format	Website and PDF format changes only.
15 Jun 2018		Added <a href="#">Price Precision Extension</a> chapter.
10 Jun 2016		Initial release

# Interview

The interview consists of a series of questions about your application. Based on your responses, certain tests are required and others are optional. You must complete the pre-certification interview before running the test cases.

After answering the Interview questions, click the **Complete** button.

**Current Testing Configuration**

Company Name: <input type="text"/>	Designated Contract Market: <input type="text" value="CME Group"/>
Tester : <input type="text"/>	System Profile: <input type="text" value="test_June2 - Automated Trading System 1.0"/>
	TestSuite: <input type="text" value="Streamlined SBE Block Trade"/>

SenderComp : PF4111 UNASSIGN

**Test Suite Status:**  
Pre-Certification Interview :  Complete  
Test Suite Status:   
[Streamlined SBE Block Trade Online](#)  
[Help](#)

Interview Test Suite Test Case Post Certification

**Has this profile certified to MDP 3.0?**

Yes  
 No

**Does your system support Block Trades?**

Yes  
 No

**Complete**

# Block Trades

CME Group disseminates Block Trades market data via [streamlined SBE](#)<sup>1</sup>. A Block Trade is a privately negotiated futures or option on futures transaction that is executed apart from the public auction market and that is permitted in designated contracts subject to specified conditions.

The AutoCert+ Streamlined SBE Block Trade tests consist of the following:

- [Incremental Market Data Refresh Messages](#)
- [Recovery via TCP Replay](#)
- [Support for Spreads](#)
- [Price Precision Extension](#)

---

<sup>1</sup>Streamlined SBE is distinct from MDP3.0 format for CME Globex market data dissemination. As such, streamlined SBE has a dedicated message specification, message template, and Market Data Platform configuration.

# Incremental Market Data Refresh Messages

This test verifies that the application properly receives and processes incremental Market Data Refresh Block Trade Messages.

**Steps of the test: Incremental Market Data Refresh Messages for Block Trades**

*This test could take up to several minutes. Please do not close the window during the test. Closing window/stopping test requires to rerun the test from step 1.*

**Purpose**  
The purpose of this test is to verify that your application can properly receive and process Incremental Market Data Refresh Block Trade Messages.

**Selected Contract :** GEU0,GE:BF U0-U1-U2 - 742 **Unlock**

Category	IP	Port
Incremental Feed A	224.0.25.126	17909
Incremental Feed B	224.0.25.126	18909
TCP Replay	69.50.112.139	

**Note:** Press the Start Test button to start or restart a Test. Please do not press the Start Test button again if you are currently running this test. **START TEST**

Description	Flag	Status
1 Confirm that your application successfully received and processed the incremental market data refresh (35=X) message for Block Trades.		Not Tested
2 Confirm that your application successfully received and processed the incremental market data refresh (35=X) message for Block Trade Deletions.		Not Tested

Key: not tested complete pending failed

**REFRESH**

**To test the Incremental Market Data Refresh Message:**

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

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


3. Enter the following tag values from the Incremental Market Data Refresh Message for Block Trades that your application received.
  - MDUpdateAction
  - SecurityGroup
  - TradeType

Description	Flag	Status
1 Confirm that your application successfully received and processed the incremental market data refresh (35=X) message for Block Trades. Instrument: GEU0 SecurityID: 843520 MDUpdateAction : <input type="text"/> SecurityGroup : <input type="text"/> TradeType : <input type="text"/> <b>Submit</b>		Pending

Click **Submit**.



4. Enter the following tag values from the Incremental Market Data Refresh Message for Block Trade Deletions that your application received:
- MDUpdateAction
  - SecurityGroup
  - TradeType

2	Confirm that your application successfully received and processed the incremental market data refresh (35=X) message for Block Trade Deletions.		Pending
	MDUpdateAction : <input type="text"/>		
	SecurityGroup : <input type="text"/>		
	TradeType : <input type="text"/>		
<input type="button" value="Submit"/>			

Click **Submit**.

# Recovery via TCP Replay

This test verifies your application can perform a recovery via TCP Replay for Block Trade messages.

**Steps of the test: Recovery via TCP Replay for Block Trades**

This test could take up to several minutes. Please do not close the window during the test. Closing window/stopping test requires to rerun the test from step 1.

**Purpose**

The purpose of this test is to verify that your application can perform a recovery via TCP Replay for Block Trade messages.

**Selected Contract :** GEU0,GE:BF U0-U1-U2 - 742 Unlock

Category	IP	Port
Incremental Feed A	224.0.25.126	17909
Incremental Feed B	224.0.25.126	18909
TCP Replay	69.50.112.139	

**Note:** Press the Start Test button to start or restart a Test. Please do not press the Start Test button again if you are currently running this test. START TEST

Description	Flag	Status
1 AutoCert+ sends some Market Data book updates then creates a gap that needs to be recovered.	<input type="radio"/>	Not Tested
2 Establish a TCP connection and submit a Logon message. Was TCP connection established and logon message submitted successfully?	<input type="radio"/>	Not Tested
3 Receive a Logon Confirmation message. Was Logon confirmation message received?	<input type="radio"/>	Not Tested
4 Submit a Market Data Request message	<input type="radio"/>	Not Tested
5 Confirm that your application successfully received the Streamlined SBE recovery message that was requested in the Market Data Request Message.	<input type="radio"/>	Not Tested
6 Receive and process a Logout message	<input type="radio"/>	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH


## ▶ To test Recovery via TCP Relay for Block Trades:

Click **START TEST** to begin.

**Note:** For questions where a YES/NO response is required, **YES** completes the step, **NO** results in a failed step result.

For the Recovery via TCP Relay for Block Trades test, submit and receive the following messages:

1. AutoCert+ sends market data book updates, then creates a gap to be recovered.
2. TCP connection established and logon message submitted using AutoCert+ credentials? Select **YES** or **NO**.
3. Logon confirmation message received? Select **YES** or **NO**.
4. Market Data Request message submitted.
5. Streamlined SBE recovery messages requested in the Market Data Request message received? Select **YES** or **NO**.

5	<p>Confirm that your application successfully received the Streamlined SBE recovery message that was requested in the Market Data Request Message.</p> <p>MEntryPx: <input type="text"/></p> <p>MEntrySize: <input type="text"/></p> <p><input type="button" value="Submit"/></p>		Pending
---	---	---	---------

6. Receive and process Logout message.

## Support for Spreads

This test validates that the customer can handle Streamlined SBE messages that span across multiple packets.

### Steps of the test: Support for spreads

This test could take up to several minutes. Please do not close the window during the test. Closing window/stopping test requires to rerun the test from step 1.

**Purpose**  
The purpose of this test is to validate the customer can handle Streamlined SBE messages that span across multiple packets.

**Selected Contract :** GEU0,GE:BF U0-U1-U2 - 742 Unlock

Category	IP	Port
Incremental Feed A	224.0.25.126	17909
Incremental Feed B	224.0.25.126	18909
TCP Replay	69.50.112.139	

**Note:** Press the Start Test button to start or restart a Test. Please do not press the Start Test button again if you are currently running this test. START TEST

Description	Flag	Status
1 Confirm that your application successfully received and processed the first packet of incremental market data refresh (35=X) messages for a Block Trade spread.	●	Not Tested
2 Confirm that your application successfully received and processed the second packet of incremental market data refresh (35=X) messages for a Block Trade spread.	●	Not Tested

Key: ● not tested ● complete ● pending ● failed


REFRESH

### ▶ To run the Support for Spreads test:

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

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

3. Enter the following tag values from the first packet of Market Data Incremental Refresh (35=X) messages for a Block Trade spread that your application received.
  - Spread Name
  - Spread Trade Price
  - Leg 1 Symbol
  - Leg 1 Trade Price
  - Leg 2 Symbol
  - Leg 2 Trade Price

Description	Flag	Status
<p>1</p> <p>Confirm that your application successfully received and processed the first packet of incremental market data refresh (35=X) messages for a Block Trade spread.</p> <p>Instrument: GE:BF U0-U1-U2 SecurityID: 164580</p> <p>Spread Name : <input type="text"/></p> <p>Spread trade Price : <input type="text"/></p> <p>Leg 1 Symbol : <input type="text"/></p> <p>Leg 1 Trade Price : <input type="text"/></p> <p>Leg 2 Symbol : <input type="text"/></p> <p>Leg 2 Trade Price : <input type="text"/></p> <p><input type="button" value="Submit"/></p>		Pending

Click **Submit**.

- 4. Enter the following tag values from the second packet of Market Data Incremental Refresh (35=X) messages for a Block Trade spread that your application received.
  - Leg 3 Symbol
  - Leg 3 Trade Price

<p>2</p> <p>Confirm that your application successfully received and processed the second packet of incremental market data refresh (35=X) messages for a Block Trade spread.</p> <p>Leg 3 Symbol : <input type="text"/></p> <p>Leg 3 Trade Price : <input type="text"/></p> <p><input type="button" value="Submit"/></p>		Pending
--	---	---------

Click **Submit**.

# Price Precision Extension

This test validates that your system has adopted the new template and can support a price up to 8 decimal precision.

**Note:** Press the Start Test button to start or restart a Test. Please do not press the Start Test button again if you are currently running this test.

**START TEST**

Description	Flag	Status
1 Confirm that your application successfully received and processed the incremental market data refresh (35=X) message for Block Trades.		Not Tested
2 Confirm that your application successfully received and processed the incremental market data refresh (35=X) message for Block Trades.		Not Tested
3 Do your downstream systems correctly process the expanded price precision?		Not Tested

Key: not tested complete pending failed

**REFRESH**

**To run the Price Precision Extension test:**

1. Click **START TEST** to begin.

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

2. Enter the tag 270-MDEntryPx value that your application received to confirm that your system successfully received and processed the Market Data Incremental Refresh (35=X) message for Block Trades.

Click **Submit**.

3. Enter the tag 270-MDEntryPx value that your application received to confirm that your system successfully received and processed the Market Data Incremental Refresh (35=X) message for Block Trades.

2	Confirm that your application successfully received and processed the incremental market data refresh (35=X) message for Block Trades. MDEntryPx : <input type="text"/> <b>Submit</b>		Pending
---	---	--	---------

Click **Submit**.

4. Click **Yes** or **No** to indicate whether or not your downstream systems correctly process the expanded price precision.