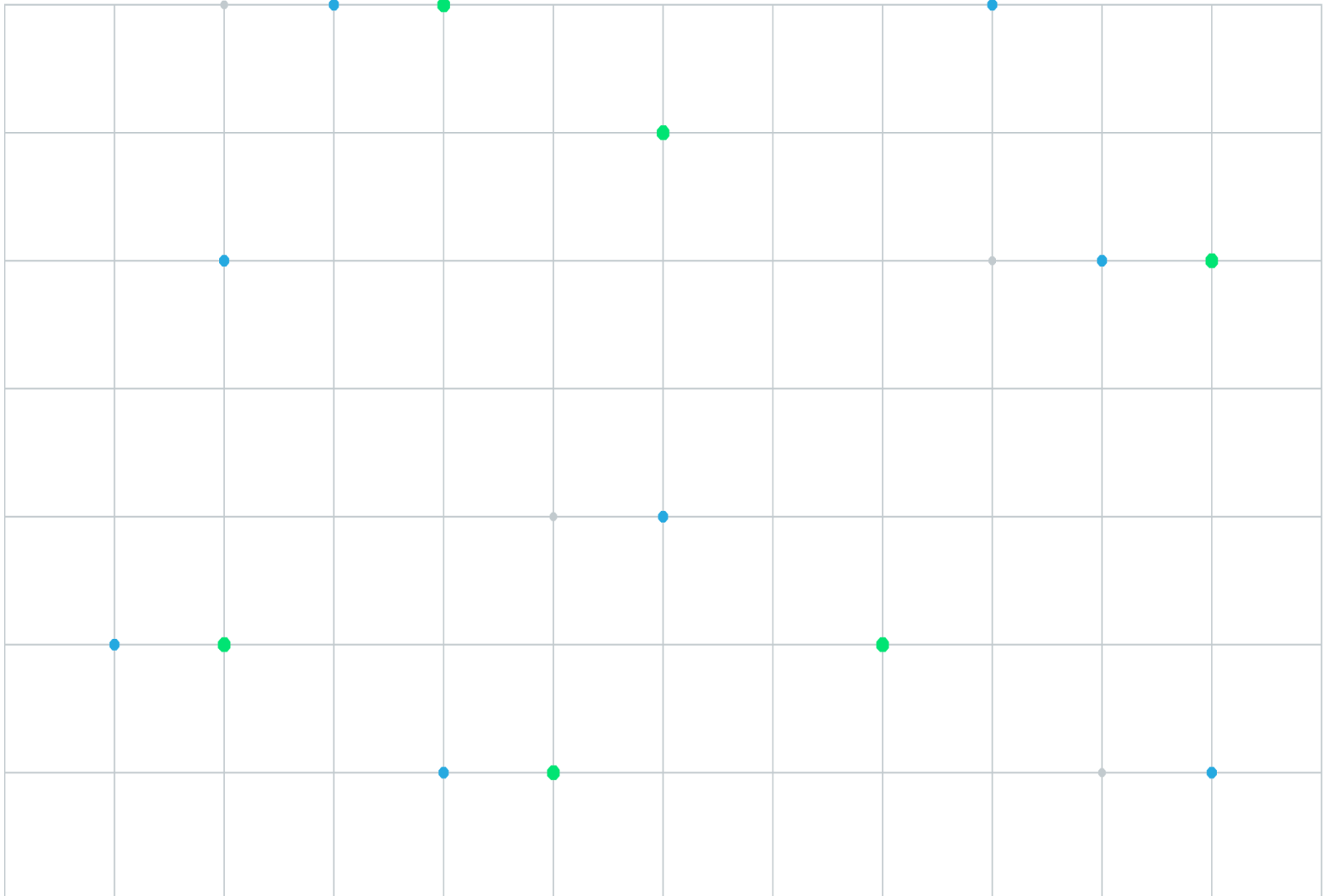


# AutoCert+ Order Entry API on GCP Websocket User Manual

May 1, 2026



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## Disclaimer

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# 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.

Certification session details will be assigned and forwarded to the customer, including certification target locations and firm / user Identifiers.

This Help system accompanies the AutoCert+ Order Entry API on GCP Websocket test suite.

The purpose of the test is to confirm that customers can connect to the Order Entry v2 websocket API and process business messages. Certification is required for customers that will use the Order Entry v2 Websocket functionality.

## ► To run and navigate AutoCert+:

1. [Log in](#) to the automated certification tool.
2. Review general AutoCert+ test suite [navigation](#) and [general interview](#) information.
3. Navigate to the AutoCert+ Order Entry API on GCP Websocket test suite.

### Current Testing Configuration

Tester:	<b>Tom Tester</b>	Type:	Automated Trading System
Company Name:	QA	Category:	Prop System
Market:	Futures & Options	1603:	TEST
Purpose:	CME Globex Order Entry API on GCP via Websocket	1604:	1
Application System:	TEST	1605:	FNO
Test Suite:	CME Globex Order Entry API on GCP via Websocket		

**NOTE: This test suite utilizes the NEWRELEASE environment.**

Identifier:  ASSIGN

**Test Suite Status:**

Pre-Certification Interview: ✔ Complete

Test Suite Status: In Progress

- a. Select a **Company Name**.
  - b. For **Market**, select *Futures & Options*.
  - c. For **Purpose**, select *CME Globex Order Entry API on GCP via Websocket*.
  - d. Select an **Application System**. Use the refresh () button to update the list to include recently created Application Systems.
  - e. For **Test Suite**, select *CME Globex Order Entry API on GCP via Websocket*.
4. Complete the [Interview](#) for this test suite.
  5. Complete applicable **test cases**.
  6. Complete the certification process from the [Post Certification](#) tab.

## What's New

The list below illustrates the updates made to the AutoCert+ Order Entry API on GCP Websocket Help system.

Date	Topic	Description
May 1, 2026	<a href="#">Search for Trade Tests</a>	Removed Search For Trade using Globex Security ID.
January 14, 2024	All	initial release

## Interview

The interview consists of a series of questions about your trading application. You must complete the pre-certification interview before running the test cases.

Based on your responses, certain tests are required and others are optional.

▶ **To complete the interview:**

Answer each question, then select **Complete** when finished.

[View Interview screen](#)

Interview
Test Suite
Test Case
Post Certification
Help

**What types of Instruments will your system support?**

- Futures
- Options

**What types of Product will your system support?**

- Interest Rate
- Energy
- Equity
- FX
- Commodity

**Will your system support Spread Instruments?**

- Yes
- No

**How will your system send orders?**

- Manual
- ATS
- Semi Automated

**Which Order Types will be submitted by your system?**

- Limit Order
- Market Order
- Market to Limit Order
- Stop Order (For Futures Instruments Only)
- Stop Limit Order (For Futures Instruments Only)

**Which Order Duration type will your system support?**

- Day Order
- Fill and Kill
- Fill or Kill
- Good till Cancel
- Good till Date

**Will your system support Update Order?**

- Yes
- No

**Will your system use Update Order with Over-fill Mitigation functionality?**

- Yes
- No

**Will your system support Display Quantity functionality?**

- Yes
- No

**Will your system support Minimum Quantity Functionality?**

- Yes
- No

**Will your system support Mass Order Cancel?**

- Yes
- No

**Which Mass Order Cancel functionality does your system support?**

- All
- Market Segment ID
- Product Group
- Instrument

**Will your system support Order Status Requests?**

- Yes
- No

**Select the Order Status requests parameters your system will use:**

- Customer Order ID
- Venue Order IDs
- Customer Account IDs
- Operator IDs
- Status
- Transaction Time Start & Transaction Time End
- Not using optional parameters

**Will your system support Search for Trade functionality?**

- Yes
- No

**Select the Search for Trade parameters your system will use:**

- Customer Account IDs
- Customer Order IDs
- Transaction Time Start & Transaction Time End
- Venue Execution ID
- Venue Order IDs
- Not using optional parameters

**Will your system support creation of a UDS?**

- Yes
- No

**Can your system create a Covered Options Instrument?**

Yes  
 No

**Can your system create a Combo Options Instrument?**

Yes  
 No

**Can your system create a Recursive UDS Instrument?**

Yes  
 No

**Can your system send orders on UDS instruments?**

Yes  
 No

**Will your system support Request For Quote?**

Yes  
 No

**Will your system utilize Cancel on Disconnect functionality?**

Yes  
 No

**Select the Websocket Events parameters your system will use for Cancel on Disconnect:**

Customer Account  
 Operator  
 None (Cancel on Disconnect at Firm level)

**Cancel on Disconnect (CoD) functionality is offered by CME Group on a best-effort basis. If CoD functionality is unable to cancel an order that has been completely filled at the host, your application can submit Order Status Request to verify the status and Trade Status Request to recover the fills.**

Acknowledge  
 Not Acknowledge

**Due to the setup of the certification test suite, you may experience connection difference during certification.**

Acknowledge  
 Not Acknowledge

**Complete**

## Limit Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Limit Order type.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials. (retrieved in the previous step), then select **ASSIGN**.

- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

▶ **To run the Limit Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Limit Order Test

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Limit Order type.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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** **Test Not Running**

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Market Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Market Order type.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

**Current Testing Configuration**

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: **Automated Trading System**

Category: **Prop System**

1603: **TEST**

1604: **1**

1605: **FNO**

**NOTE: This test suite utilizes the NEWRELEASE environment.**

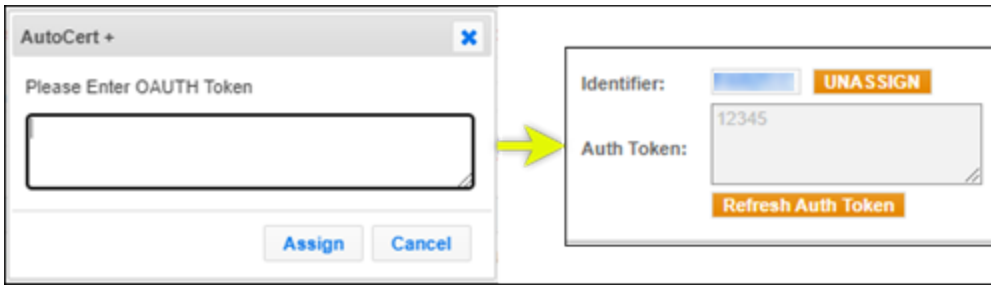
Identifier:  **ASSIGN**

**Test Suite Status:**

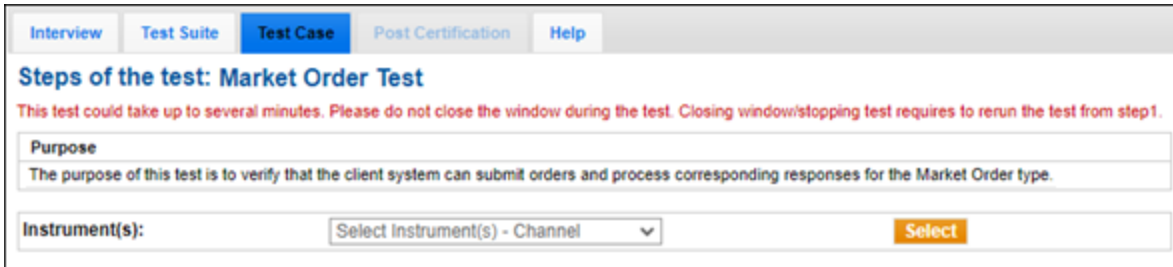
Pre-Certification Interview:  **Complete**

Test Suite Status: **In Progress**

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Market Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Market Order](#) (→ type=MARKET) with a quantity (→ qtyInt) greater than 1.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill](#) Response.
4. Send a [Cancel Order](#) for the remaining quantity on the original order (→ customerOrderId) submitted.
5. Receive and Process [Cancel Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Market Order Test

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 the client system can submit orders and process corresponding responses for the Market Order type.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

**Test Not Running**

Description	Flag	Status
1 Send a Market Order with a quantity greater than 1		Complete
2 Receive and Process Order Response Message		Complete
3 Receive and Process Trade Fill Response		Complete
4 Send a Cancel Order for the remaining quantity left on the original order submitted		Complete
5 Receive and Process Cancel Order Response Message		Complete

**REFRESH** Key: not tested complete pending failed

## Market to Limit Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Market-Limit Order type.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

**Current Testing Configuration**

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

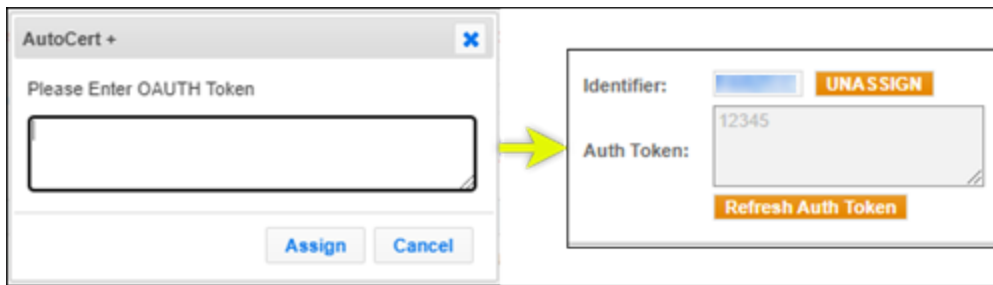
Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

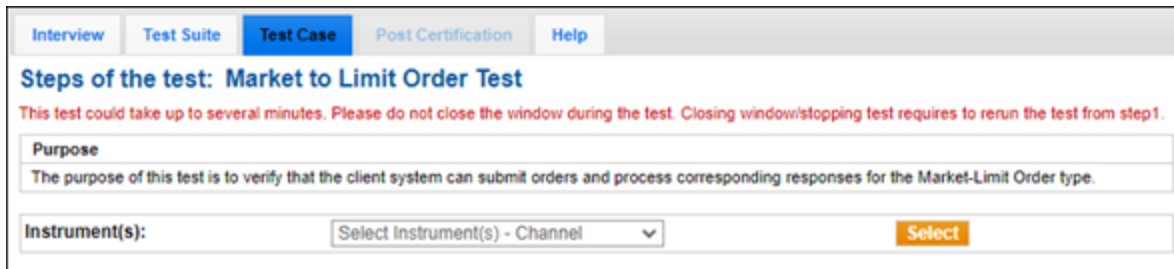
Identifier:  **ASSIGN**

**Test Suite Status:**  
Pre-Certification Interview: Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Market to Limit Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Market-Limit Order](#) (→ type=MARKET\_TO\_LIMIT) with a quantity (→ qtyInt) greater than 1.
2. Receive and Process [Order Response Message](#).
3. Receive and Process [Trade Fill](#) Response.
4. Send a [Cancel Order](#) for the remaining quantity on the original order (→ customerOrderId) submitted.
5. Receive and Process [Cancel Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Market to Limit Order Test

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Market-Limit Order type.

Selected Instrument(s):  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Market-Limit Order with a quantity greater than 1	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested
4 Send a Cancel Order for the remaining quantity left on the original order submitted	<input type="radio"/>	Not Tested
5 Receive and Process Cancel Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Stop Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Stop Order type.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

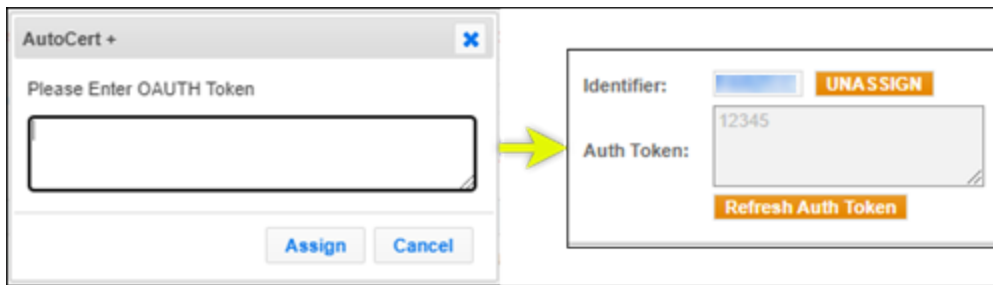
Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

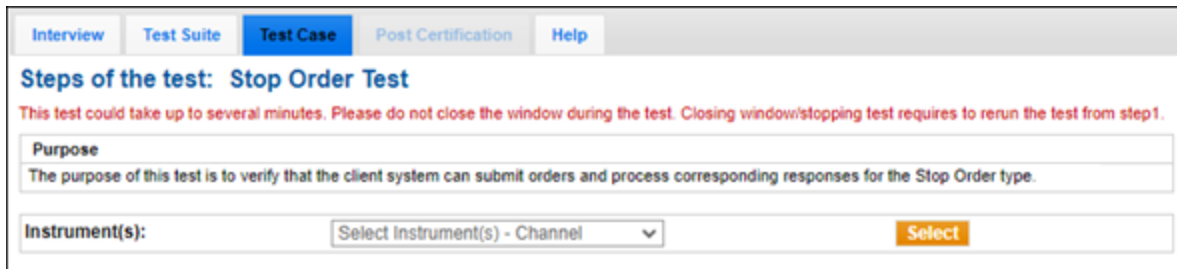
Identifier:  **ASSIGN**

Test Suite Status: **Complete**  
Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Stop Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Stop Order](#) (→ type=STOP, → stopPrice).

**i** See also: [CME Globex Order Entry APIs on Google Cloud - Stop Orders](#)

2. Receive and Process [Order Response Message](#).
3. Receive and Process Order Response Message when the stop price is triggered.
4. Receive and Process [Trade Fill Response](#).
5. Send a [Cancel Order](#) for the remaining quantity left on the original order submitted.
6. Receive and Process [Cancel Order Response Message](#).

Interview | Test Suite | **Test Case** | Post Certification | Help

### Steps of the test: Stop Order Test

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Stop Order type.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Stop Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Order Response Message when the stop price is triggered	<input type="radio"/>	Not Tested
4 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested
5 Send a Cancel Order for the remaining quantity left on the original order submitted	<input type="radio"/>	Not Tested
6 Receive and Process Cancel Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Stop Limit Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Stop-Limit Order type.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

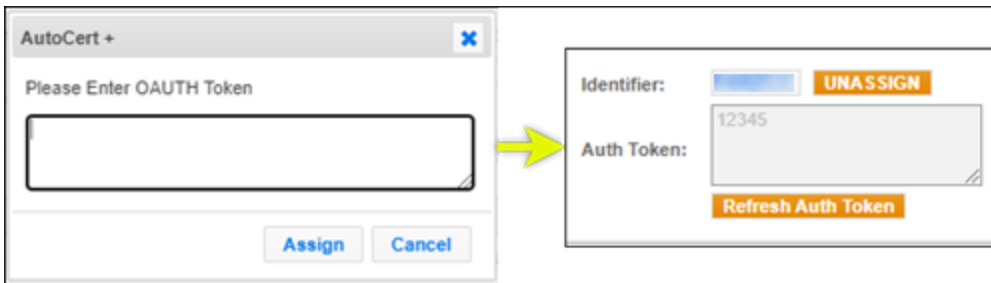
Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

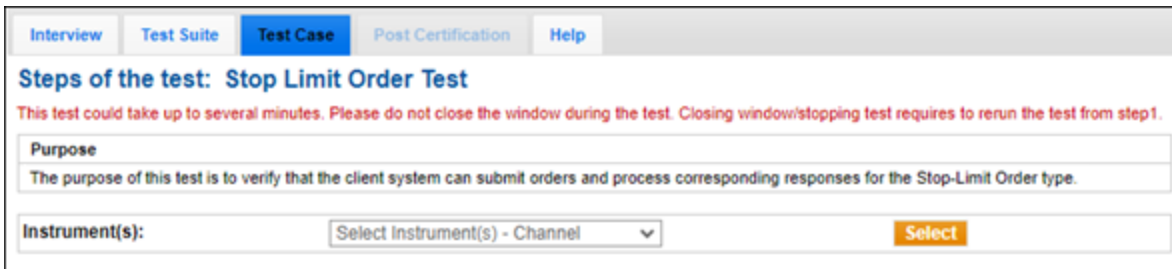
Identifier:  **ASSIGN**

**Test Suite Status:**  
Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.



c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Stop Limit Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Stop Limit Order](#) (→ type=STOP\_LIMIT, → stopPrice, → qtyInt). with a quantity greater than 1.

**See also:** [CME Globex Order Entry APIs on Google Cloud - Stop Orders](#)

2. Receive and Process [Order Response Message](#).
3. Receive and Process Order Response Message when the stop price is triggered.
4. Receive and Process [Trade Fill Response](#).
5. Send a [Cancel Order](#) for the remaining quantity left on the original order submitted.
6. Receive and Process [Cancel Order Response Message](#).

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Stop Limit Order Test

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 the client system can submit orders and process corresponding responses for the Stop-Limit Order type.

**Selected Instrument(s):** 0L6H3 C1290,0L6H3 P1315 - 610 **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Stop Limit Order with a quantity greater than 1	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Order Response Message when the stop price is triggered	<input type="radio"/>	Not Tested
4 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested
5 Send a Cancel Order for the remaining quantity left on the original order submitted	<input type="radio"/>	Not Tested
6 Receive and Process Cancel Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Good Till Cancel Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for eligible Duration Type GTC.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: Automated Trading System

Category: Prop System

1603: TEST

1604: 1

1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

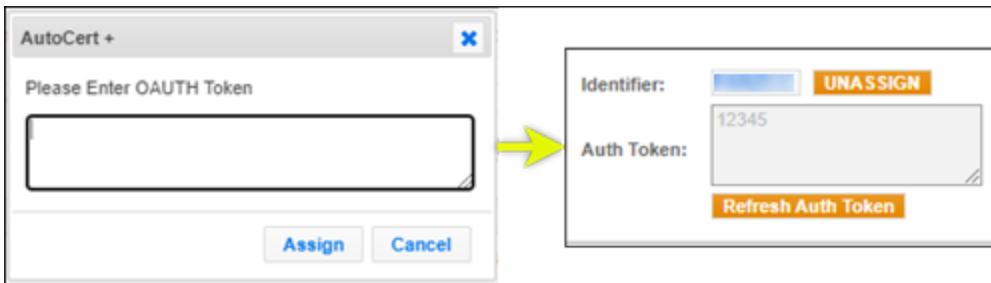
Identifier:  **ASSIGN**

Test Suite Status:

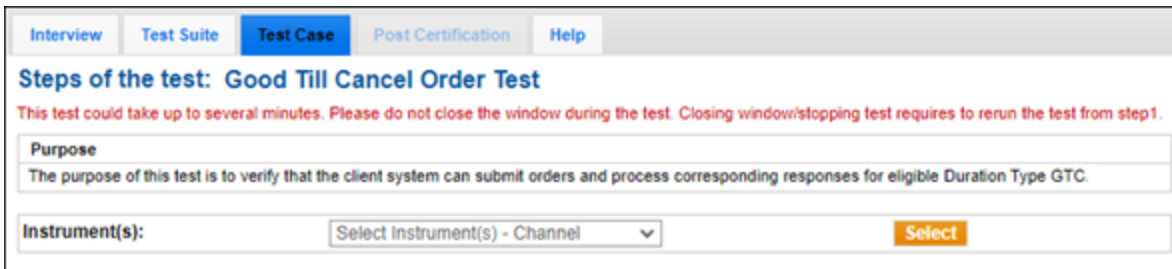
Pre-Certification Interview:  Complete

Test Suite Status:  In Progress

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.



c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Good till Cancel order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit GTC Order](#) (→ type=LIMIT, → durationType=GOOD\_TILL\_CANCEL) with a quantity greater than 1.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#).

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Good Till Cancel Order Test

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit orders and process corresponding responses for eligible Duration Type GTC.

Selected Instrument(s):  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**  
Test Not Running

Description	Flag	Status
1 Send a Limit GTC Order with a quantity greater than 1	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Good Till Date Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for eligible Duration Type GTD.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

 see also: [CME Group Login - Generate a token](#)

- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

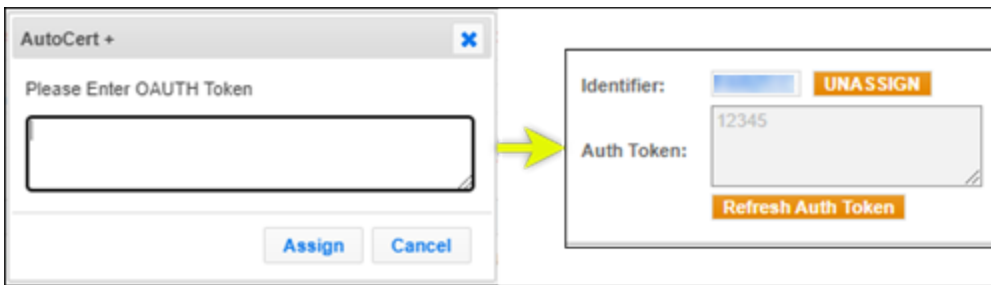
Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

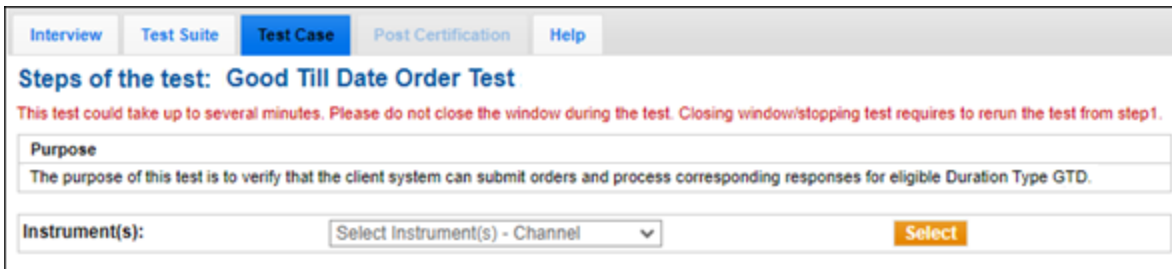
Identifier:  **ASSIGN**

**Test Suite Status:**  
Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



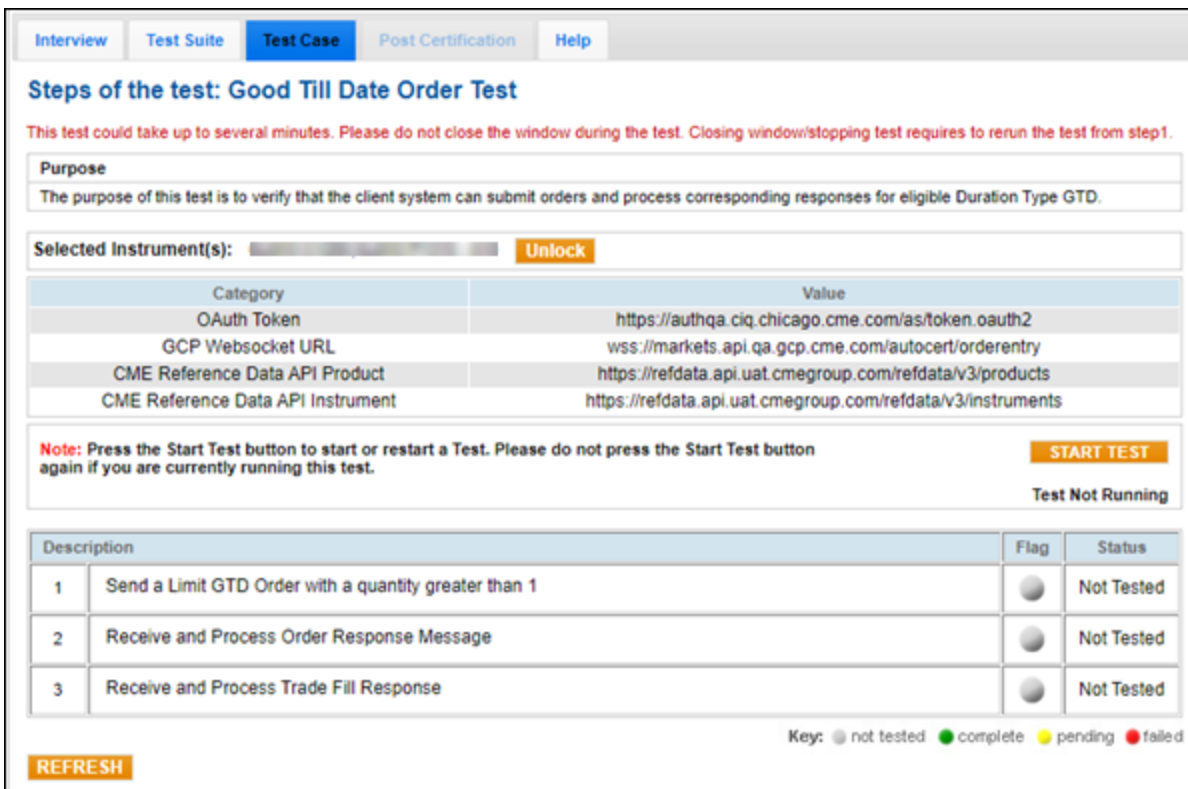
- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ To run a Good til Date order test:

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit GTD Order](#) (→ type=LIMIT, → durationType=GOOD\_TILL\_DATE) with a quantity greater than 1.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#).



## Fill and Kill Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for eligible Duration Type Fill and Kill.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

Enter the **OAuth Token** *OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.*, then select **ASSIGN**.

- On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

### ▶ To run the Stop Order test:

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

- Send a Limit [FAK](#) (→ type=LIMIT, → durationType=FILL\_AND\_KILL) Order with a quantity (→ qtyInt) greater than 1.
- Receive and Process [Order Response](#) Message.

3. Receive and Process [Trade Fill Response](#).
4. Receive and Process [Order Expired](#) Message.

Interview Test Suite Test Case Post Certification Help

### Steps of the test: FAK Order Test

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit orders and process corresponding responses for eligible Duration Type FAK.

**Selected Instrument(s):** Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1	Send a Limit FAK Order with a quantity greater than 1	● Not Tested
2	Receive and Process Order Response Message	● Not Tested
3	Receive and Process Trade Fill Response	● Not Tested
4	Receive and Process Order Expired Message	● Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Fill or Kill Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for eligible Duration Type FOK.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: <span style="color: blue; font-weight: bold;">Tom Tester</span> Company Name: <input type="text" value="QA"/> Market: <input type="text" value="Futures &amp; Options"/> Purpose: <input type="text" value="CME Globex Order Entry API on GCP via Websocket"/> Application System: <input type="text" value="TEST"/> Test Suite: <input type="text" value="CME Globex Order Entry API on GCP via Websocket"/>	Type: Automated Trading System Category: Prop System 1603: TEST 1604: 1 1605: FNO
--	---

NOTE: This test suite utilizes the NEWRELEASE environment.

Identifier:  ASSIGN

Test Suite Status:

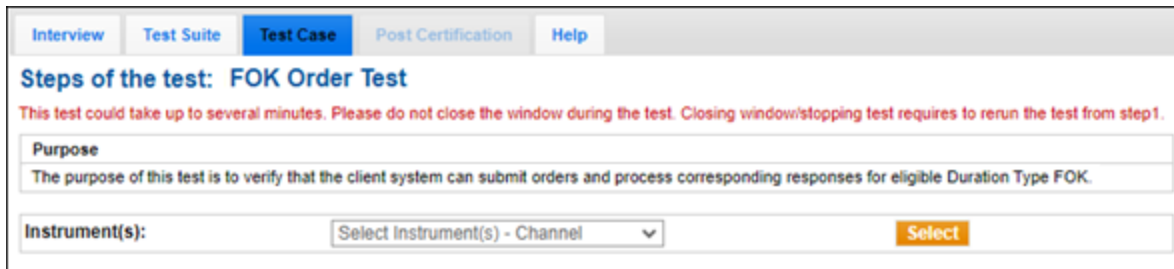
Pre-Certification Interview: Complete

Test Suite Status: In Progress

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Fill or Kill order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit FOK](#) (→ type=LIMIT, → durationType=FILL\_OR\_KILL) Order with a quantity (→ qtyInt) greater than 1.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Order Expired](#) Message.
4. Send a Limit FOK Order with a quantity greater than 1.
5. Receive and Process Order Response Message.
6. Receive and Process [Trade Fill Response](#).

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: FOK Order Test

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 the client system can submit orders and process corresponding responses for eligible Duration Type FOK.

Selected Instrument(s):  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Limit FOK Order with a quantity greater than 1	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Order Expired Message	<input type="radio"/>	Not Tested
4 Send a Limit FOK Order with a quantity greater than 1	<input type="radio"/>	Not Tested
5 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
6 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Outright Complete Order Test

The purpose of this test is to verify that the client system can submit orders and process corresponding responses (ack, fill, expired).

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

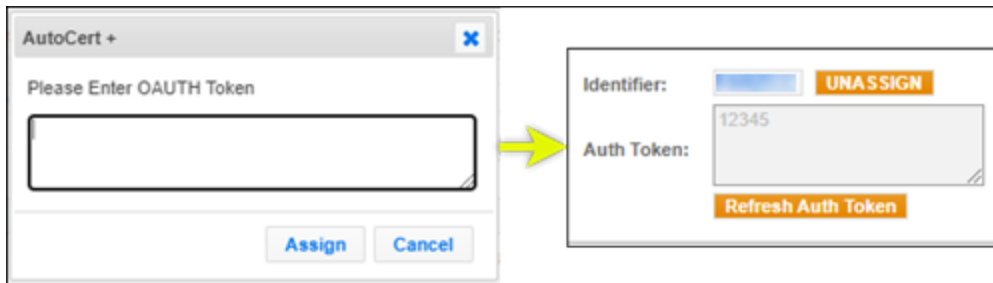
**NOTE: This test suite utilizes the NEWRELEASE environment.**

Identifier:  **ASSIGN**

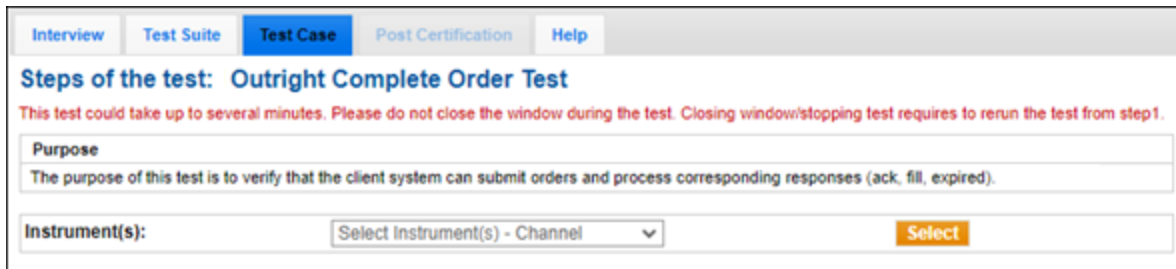
**Test Suite Status:**

Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** *OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.*, then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Outright Complete Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Receive and Process a [Trade Fill Response](#).
4. Send a Limit Order.
5. Receive and Process [Order Expired](#) message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Outright Complete Order Test

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 the client system can submit orders and process corresponding responses (ack, fill, expired).

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process a Trade Fill Response	<input type="radio"/>	Not Tested
4 Send a Limit Order	<input type="radio"/>	Not Tested
5 Receive and Process Order Expired	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Spread Complete Order Test

The purpose of this test is to verify that the client system can submit Spread instrument orders and process corresponding responses (ack, fill, expired).

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

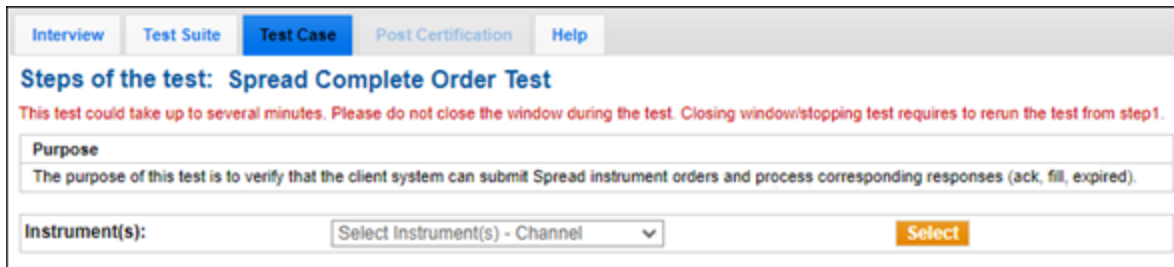
Identifier:  **ASSIGN**

**Test Suite Status:**  
Pre-Certification Interview:  Complete  
Test Suite Status:  In Progress

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run Spread Complete Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit Order](#) (→ type=LIMIT) with a quantity (→ qtyInt) of 1 for a spread instrument.
2. Receive and Process [Order Response Message](#).
3. Receive and Process [Trade Fill Response](#) for Spread, then enter the following values from the message:
  - lastTradePx
  - lastTradeQtyInt
4. Receive and Process Trade Fill Response for First Leg [→ spreadReportType (First Leg)], then enter the following value from the message:
  - lastTradePx
5. Receive and Process Trade Fill Response for the Second Leg [→ spreadReportType (Second Leg)], then enter the following value from the message:
  - lastTradePx

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Spread Complete Order Test

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 the client system can submit Spread instrument orders and process corresponding responses (ack, fill, expired).

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Limit Order with a quantity 1 for a spread instrument	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Trade Fill Response for Spread	<input type="radio"/>	Not Tested
4 Receive and Process Trade Fill Response for Leg (First Leg)	<input type="radio"/>	Not Tested
5 Receive and Process Trade Fill Response for Leg (Second Leg)	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Cancel Order Test

The purpose of this test is to verify that the client system can submit and cancel order.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

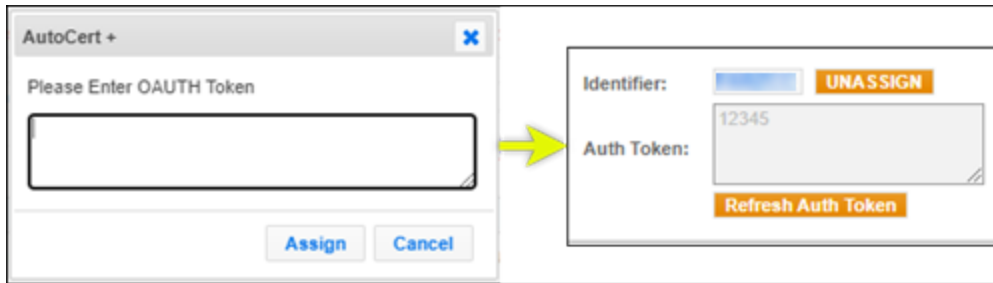
**NOTE: This test suite utilizes the NEWRELEASE environment.**

Identifier:  **ASSIGN**

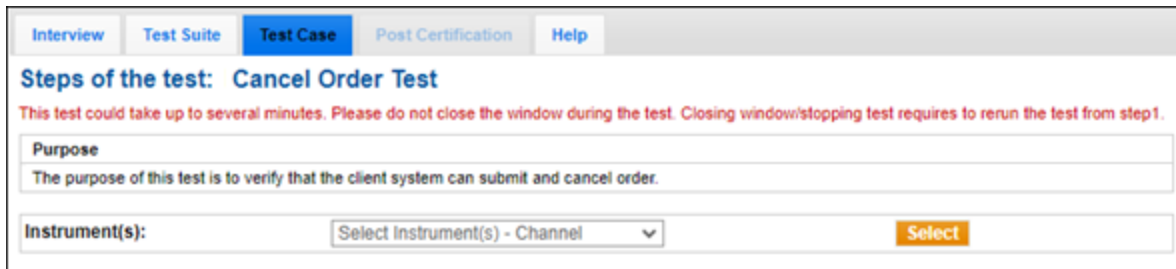
Test Suite Status: **Complete**

Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run a Cancel Order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit Order](#) (→ type=LIMIT) resting in the market.
2. Receive and Process [Order Response](#) message.
3. Send a [Cancel Order](#) for the order (→ customerOrderId) placed in step 1.
4. Receive and Process [Cancel Order Response](#) message.

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### Steps of the test: Cancel Order Test

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 the client system can submit and cancel order.

**Selected Instrument(s):**   Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1 Send a Limit Order resting in the market	●	Not Tested
2 Receive and Process Order Response Message	●	Not Tested
3 Send a Cancel Order for the order place in step 1	●	Not Tested
4 Receive and Process Cancel Order Response Message	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Update Order with Over-fill Mitigation Test

The purpose of this test is to verify that the client system can submit an order and update it with Over-fill Mitigation.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: <span style="color: blue; text-decoration: underline;">Tom Tester</span>	Type: Automated Trading System
Company Name: <span style="border: 1px solid #ccc; padding: 2px;">QA</span>	Category: Prop System
Market: <span style="border: 1px solid #ccc; padding: 2px;">Futures &amp; Options</span>	1603: TEST
Purpose: <span style="border: 1px solid #ccc; padding: 2px;">CME Globex Order Entry API on GCP via Websocket</span>	1604: 1
Application System: <span style="border: 1px solid #ccc; padding: 2px;">TEST</span>	1605: FNO
Test Suite: <span style="border: 1px solid #ccc; padding: 2px;">CME Globex Order Entry API on GCP via Websocket</span>	

NOTE: This test suite utilizes the NEWRELEASE environment.

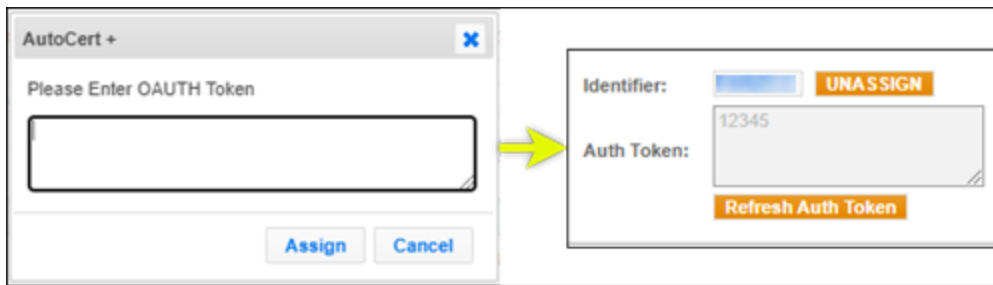
Identifier: Select Identifier ASSIGN

Test Suite Status:

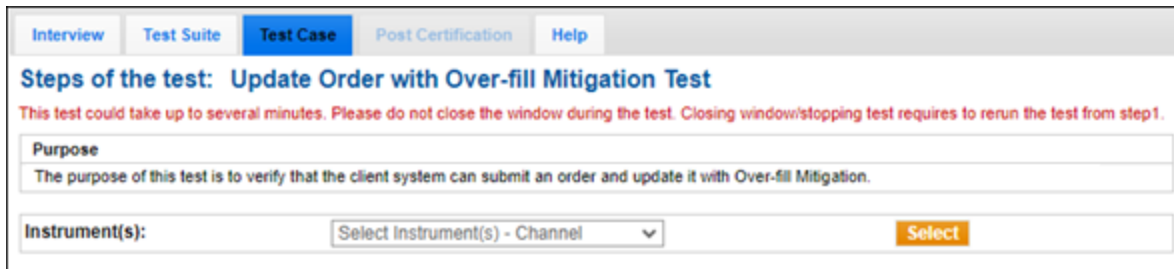
Pre-Certification Interview: Complete

Test Suite Status: In Progress

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



► **To run Update Order with Over-fill Mitigation test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit Day Order](#) (→ type=LIMIT, → durationType=DAY) with a quantity greater than 100.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#), then enter the following values from the message:
  - lastTradePx
  - remainingQtyInt
4. Send an [Update Order](#) changing the price (→ price) and increasing the quantity (→ qtyInt).
5. Receive and Process [Update Order Response](#) Message.
6. Receive and Process [Trade Fill Response](#).
  - lastTradePx
  - remainingQtyInt
7. Send an [Update Order](#) decreasing the quantity by 2.
8. Receive and Process [Trade Fill Response](#).
9. Receive and Process [Update Order Reject](#).

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### Steps of the test: Update Order with Over-fill Mitigation Test

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 step1.

**Purpose**

The purpose of this test is to verify that the client system can submit an order and update it with Over-fill Mitigation.

**Selected Instrument(s):**  Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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  
Test Not Running

Description	Flag	Status
1	Send a Limit Day Order with a quantity greater than 100	● Not Tested
2	Receive and Process Order Response Message	● Not Tested
3	Receive and Process Trade Fill Response	● Not Tested
4	Send an Update Order changing the price and increasing the quantity	● Not Tested
5	Receive and Process Update Order Response Message	● Not Tested
6	Receive and Process Trade Fill Response	● Not Tested
7	Send an Update Order decreasing the quantity by 2	● Not Tested
8	Receive and Process Trade Fill Response	● Not Tested
9	Receive and Process Update Order Reject	● Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Update Order without Over-fill Mitigation Test

The purpose of this test is to verify that the client system can submit an order and update it without over-fill mitigation.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

Current Testing Configuration	
Tester:	Tom Tester
Company Name:	QA
Market:	Futures & Options
Purpose:	CME Globex Order Entry API on GCP via Websocket
Application System:	TEST
Test Suite:	CME Globex Order Entry API on GCP via Websocket
<b>NOTE: This test suite utilizes the NEWRELEASE environment.</b>	
Identifier:	Select Identifier
Type:	Automated Trading System
Category:	Prop System
1603:	TEST
1604:	1
1605:	FNO
<b>Test Suite Status:</b>	
Pre-Certification Interview:	Complete
Test Suite Status:	In Progress

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.

AutoCert +
Please Enter OAUTH Token
<input type="text"/>
<input type="button" value="Assign"/> <input type="button" value="Cancel"/>
Identifier: <input type="text"/> <input type="button" value="UNASSIGN"/>
Auth Token: <input type="text"/>
<input type="button" value="Refresh Auth Token"/>

- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

Interview	Test Suite	Test Case	Post Certification	Help
<b>Steps of the test: Update Order without Over-fill Mitigation Test</b>				
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.				
<b>Purpose</b>				
The purpose of this test is to verify that the client system can submit an order and update it without Over-fill Mitigation.				
<b>Instrument(s):</b> <input type="text"/> Select Instrument(s) - Channel <input type="button" value="Select"/>				

▶ **To run Order Update without Over-fill Mitigation test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a Limit Day [Order](#) (→ type=LIMIT, → durationType=DAY) with a quantity (→ qtyInt) greater than 100.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill](#) Response, then enter the following values from the message:
  - qtyInt
  - remainingQtyInt
4. Send an [Update Order](#) changing the price (→ price) and decreasing the quantity (→ qtyInt) to 90.
5. Receive and Process [Update Order Response](#) Message, then enter the following values from the message:
  - qtyInt
  - remainingQtyInt
6. Receive and Process [Trade Fill Response](#), then enter the following values from the message:

- qtyInt
- remainingQtyInt

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### Steps of the test: Update Order without Over-fill Mitigation Test

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 the client system can submit an order and update it without Over-fill Mitigation.

**Selected Instrument(s):** XXXXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.cmegroup.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1	Send a Limit Day Order with a quantity greater than 100	● Not Tested
2	Receive and Process Order Response Message	● Not Tested
3	Receive and Process Trade Fill Response	● Not Tested
4	Send an Update Order changing the price and decreasing the quantity to 90	● Not Tested
5	Receive and Process Update Order Response Message	● Not Tested
6	Receive and Process Trade Fill Response	● Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Manage Minimum Quantity Test

The purpose of this test is to verify that the client system can submit an order with a Minimum Quantity value set. Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: <b>Tom Tester</b>	Type: Automated Trading System
Company Name: <input type="text" value="QA"/>	Category: Prop System
Market: <input type="text" value="Futures &amp; Options"/>	1603: TEST
Purpose: <input type="text" value="CME Globex Order Entry API on GCP via Websocket"/>	1604: 1
Application System: <input type="text" value="TEST"/>	1605: FNO
Test Suite: <input type="text" value="CME Globex Order Entry API on GCP via Websocket"/>	

**NOTE: This test suite utilizes the NEWRELEASE environment.**

Identifier:  ASSIGN

**Test Suite Status:**

Pre-Certification Interview: ✔ Complete

Test Suite Status: In Progress

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.

AutoCert + ✕

Please Enter OAUTH Token

Assign
Cancel

➔

Identifier:  UNASSIGN

Auth Token:

Refresh Auth Token

- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

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### Steps of the test: Manage Minimum Quantity Test

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 step1.

**Purpose**

The purpose of this test is to verify that the client system can submit orders and process corresponding responses for the Market-Limit Order type.

Instrument(s):  Select

▶ **To run the minimum quantity test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Limit Day](#) (→ type=LIMIT, → durationType=DAY) or [FAK](#) (→ type=LIMIT, → durationType=FILL\_AND\_KILL) Order with a quantity (→ qtyInt) greater than 4 with Minimum Quantity (→ minimumQtyInt) greater than 0 and less than the quantity.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Order Expired](#) Message.
4. Send a Limit Day or an FAK Order with a quantity greater than 4 with Minimum Quantity greater than 0 and less than the quantity.
5. Receive and Process Order Response Message.
6. Receive and Process [Trade Fill Response](#).

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### Steps of the test: Manage Minimum Quantity Test

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 the client system can submit an order with a Minimum Quantity value set.

**Selected Instrument(s):** XXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1	Send a Limit Day or an FAK Order with a quantity greater than 4 with Minimum Quantity greater than 0 and less than the quantity	● Not Tested
2	Receive and Process Order Response Message	● Not Tested
3	Receive and Process Order Expired Message	● Not Tested
4	Send a Limit Day or an FAK Order with a quantity greater than 4 with Minimum Quantity greater than 0 and less than the quantity.	● Not Tested
5	Receive and Process Order Response Message	● Not Tested
6	Receive and Process Trade Fill Response	● Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Manage Display Quantity Test


The purpose of this test is to verify that the client system can submit an order with Display Quantity.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

Current Testing Configuration	
Tester:	Tom Tester
Company Name:	QA
Market:	Futures & Options
Purpose:	CME Globex Order Entry API on GCP via Websocket
Application System:	TEST
Test Suite:	CME Globex Order Entry API on GCP via Websocket
<b>NOTE: This test suite utilizes the NEWRELEASE environment.</b>	
Type:	Automated Trading System
Category:	Prop System
1603:	TEST
1604:	1
1605:	FNO
Identifier:	Select Identifier <b>ASSIGN</b>
<b>Test Suite Status:</b>	
Pre-Certification Interview:	Complete
Test Suite Status:	In Progress

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.

<div style="border: 1px solid gray; padding: 5px;"> <p>AutoCert +</p> <p>Please Enter OAUTH Token</p> <div style="border: 1px solid gray; height: 20px; width: 100%;"></div> <p style="text-align: right;"> <input type="button" value="Assign"/> <input type="button" value="Cancel"/> </p> </div>		<div style="border: 1px solid gray; padding: 5px;"> <p>Identifier: <input type="text" value="12345"/> <b>UNASSIGN</b></p> <p>Auth Token: <input type="text" value="12345"/></p> <p style="text-align: right;"><b>Refresh Auth Token</b></p> </div>
---	---	--

- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

Interview	Test Suite	Test Case	Post Certification	Help
<b>Steps of the test: Manage Display Quantity Test</b>				
<i>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 step1.</i>				
<b>Purpose</b>				
The purpose of this test is to verify that the client system can submit an order with Display Quantity.				
<b>Instrument(s):</b> <input type="text" value="Select Instrument(s) - Channel"/> <b>Select</b>				

▶ **To run a Manage Display Quantity test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a Limit Day [Order](#) (→ type=LIMIT, → durationType=DAY) with a quantity (→ qtyInt) greater than 4 with Display Quantity (→ displayQtyInt) greater than 2.
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#).
4. Receive and Process Trade Fill Response.

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### Steps of the test: Manage Display Quantity Test

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit an order with Display Quantity.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

**Test Not Running**

Description	Flag	Status
1 Send a Limit Day Order with a quantity greater than 4 with Display Quantity greater than 2	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested
4 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Manual Indicator for Manual System

The purpose of this test case is to verify how customer is using Manual Indicator.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

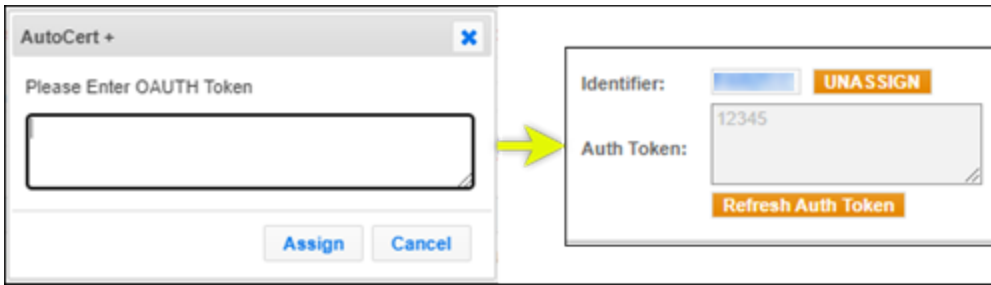
**NOTE: This test suite utilizes the NEWRELEASE environment.**

Identifier:  **ASSIGN**

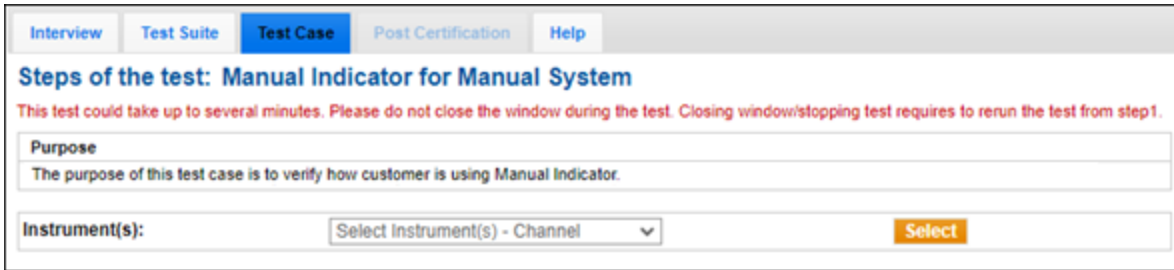
**Test Suite Status:**

Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



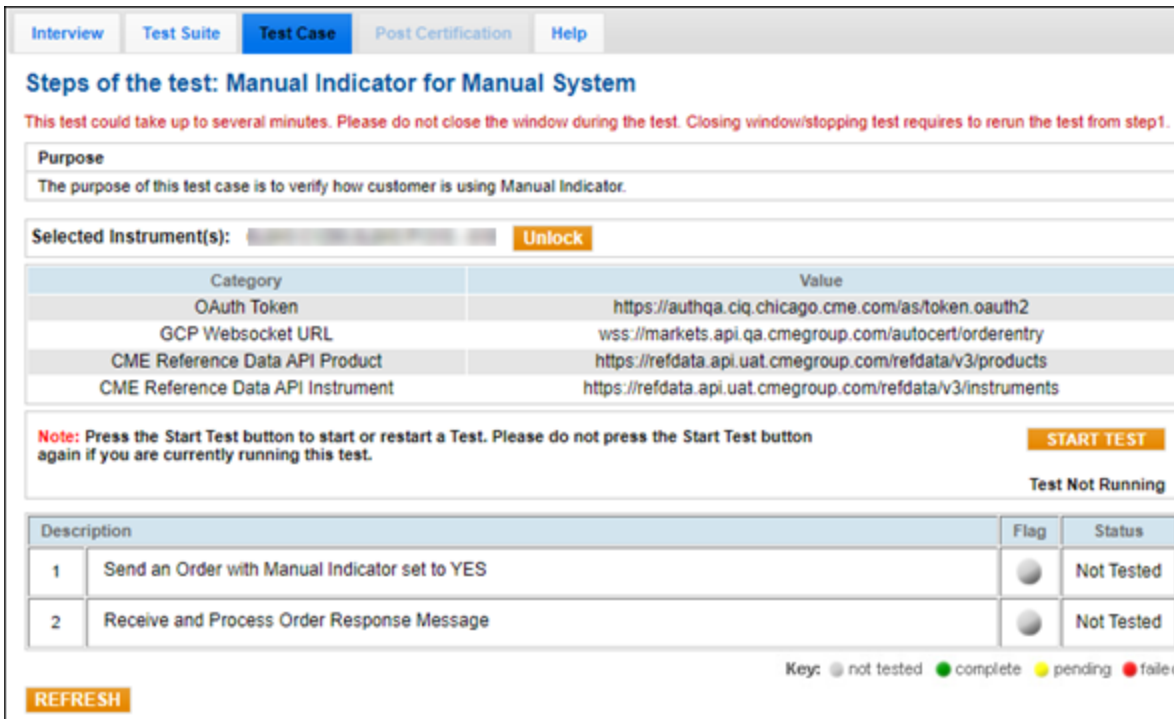
- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ To run Manual Indicator for Manual System test:

**Note:** For additional information and order entry message specifications message specifications, refer to the links in the below procedures.

1. Send an [Order](#) with Manual Indicator (→ manuallnd) set to YES.
2. Receive and Process [Order Response](#) Message.



## Manual Indicator for Semi Automated System

The purpose of this test case is to verify how customer is using Manual Indicator.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

Enter the **OAuth Token** *OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.*, then select **ASSIGN**.

- On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

### ▶ To run a Manual Indicator for Semi Automated System test:

**Note:** For additional information and order entry message specifications message specifications, refer to the links in the below procedures.

- Send an [Order](#) with Manual Indicator (→ manualInd) set to YES.
- Receive and Process an [Order Response](#) Message.

3. Send an [Order](#) with Manual Indicator set to NO.
4. Receive and Process [Order Response](#) Message.

[Interview](#) | [Test Suite](#) | **[Test Case](#)** | [Post Certification](#) | [Help](#)

### Steps of the test: Manual Indicator for Semi Automated System

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 step1.

**Purpose**  
The purpose of this test case is to verify how customer is using Manual Indicator.

**Selected Instrument(s):** Select Instrument Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.cmegroup.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1 Send an Order with Manual Indicator set to YES	●	Not Tested
2 Receive and Process Order Response Message	●	Not Tested
3 Send an Order with Manual Indicator set to NO	●	Not Tested
4 Receive and Process Order Response Message	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Manual Indicator for ATS System

The purpose of this test case is to verify how a customer is using Manual Indicator for their Automated Trading System (ATS). Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: <span style="color: blue; text-decoration: underline;">Tom Tester</span>	Type: Automated Trading System
Company Name: <span style="border: 1px solid gray; padding: 2px;">QA</span>	Category: Prop System
Market: <span style="border: 1px solid gray; padding: 2px;">Futures &amp; Options</span>	1603: TEST
Purpose: <span style="border: 1px solid gray; padding: 2px;">CME Globex Order Entry API on GCP via Websocket</span>	1604: 1
Application System: <span style="border: 1px solid gray; padding: 2px;">TEST</span>	1605: FNO
Test Suite: <span style="border: 1px solid gray; padding: 2px;">CME Globex Order Entry API on GCP via Websocket</span>	

NOTE: This test suite utilizes the NEWRELEASE environment.

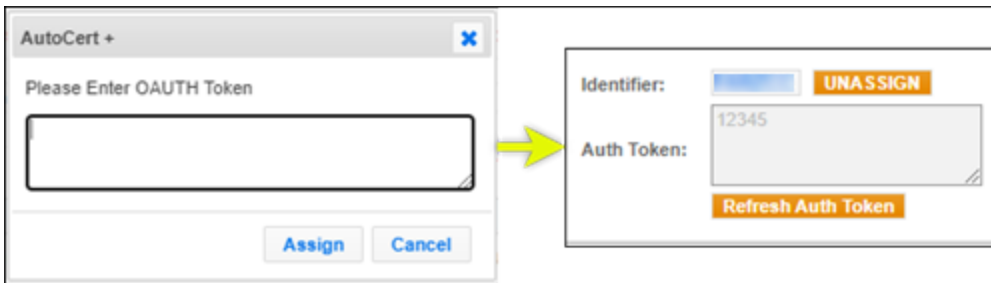
Identifier: Select Identifier ASSIGN

Test Suite Status:

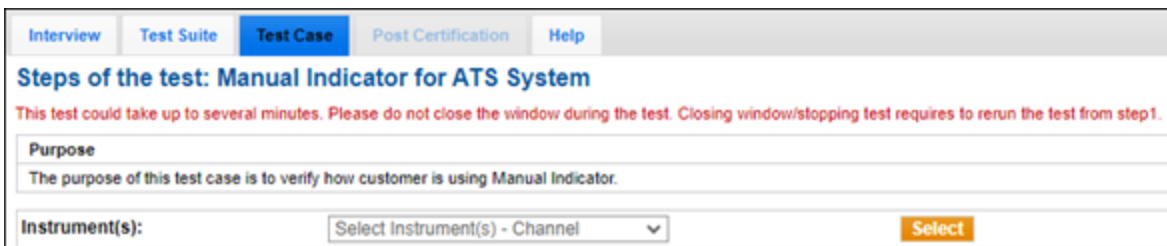
Pre-Certification Interview: Complete

Test Suite Status: In Progress

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.



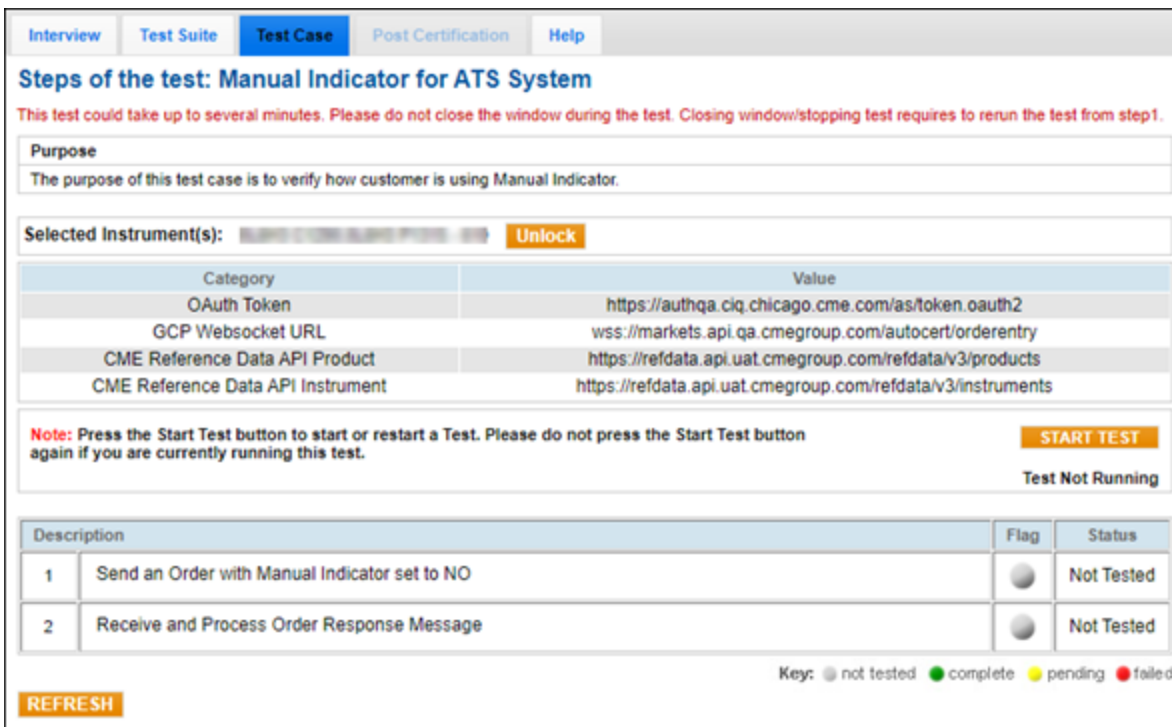
- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Manual Indicator for ATS System test:**

**Note:** For additional information and order entry message specifications message specifications, refer to the links in the below procedures.

1. Send an [Order](#) with Manual Indicator (→ manualInd) set to NO.
2. Receive and Process [Order Response](#) Message.



## Processing Error Test

The purpose of this test is to verify that the client system can receive and process Error Response Message.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

Enter the **OAuth Token** *OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.*, then select **ASSIGN**.

- On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

### ▶ To run a Processing Error test:

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

- Send a [Limit Day Order](#) (→ type=LIMIT, → durationType=DAY).
- Receive and Process [Order Reject Error Response](#) (→ messageType=ORDNEWRJ) message.
- Send a [Limit Day Order](#).

4. Receive and Process [Business Reject Message](#).
5. Send a [Limit Day Order](#).
6. Receive and Process [Order Response](#) Message.
7. Send a [Cancel Order](#) for the order place in step 5.
8. Receive and Process [Cancel Order Reject Error Response](#) Message.
9. Send a [Limit Day Order](#).
10. Receive and Process [Order Response](#) Message.
11. Send an [Update Order](#) for the order place in step 9.
12. Receive and Process [Update Order Reject Error Response](#) Message.

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### Steps of the test: Processing Error Test

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 the client system can receive and process Error Response Message.

**Selected Instrument(s):** XXXXXXXXXXXXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1	Send a Limit Day Order	● Not Tested
2	Receive and Process Order Reject Error Response Message	● Not Tested
3	Send a Limit Day Order	● Not Tested
4	Receive and Process Business Reject Message	● Not Tested
5	Send a Limit Day Order	● Not Tested
6	Receive and Process Order Response Message	● Not Tested
7	Send a Cancel Order for the order place in step 5	● Not Tested
8	Receive and Process Cancel Order Reject Error Response Message	● Not Tested
9	Send a Limit Day Order	● Not Tested
10	Receive and Process Order Response Message	● Not Tested
11	Send an Update Order for the order place in step 9	● Not Tested
12	Receive and Process Update Order Reject Error Response Message	● Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Mass Order Cancel

The purpose of this test is to verify that the client system can submit a mass order cancel request using the ALL parameter.

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

Mass Order Cancel tests:

- [Mass Order Cancel Test - All](#)
- [Mass Order Cancel Test - Market Segment](#)
- [Mass Order Cancel Test - Product Group](#)
- [Mass Order Cancel Test - Instrument](#)

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.

- On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

The screenshot shows a web interface with a navigation bar containing 'Interview', 'Test Suite', 'Test Case' (highlighted), 'Post Certification', and 'Help'. Below the navigation bar, the title is 'Steps of the test: Mass Order Cancel Test - All'. A red warning message states: '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.' There are two input fields: 'Purpose' with the text 'The purpose of this test is to verify that the client system can submit a mass order cancel request using the ALL parameter.' and 'Instrument(s):' with a dropdown menu labeled 'Select Instrument(s) - Channel' and a 'Select' button.

## Mass Order Cancel Test - All

► **To run the Mass Order Cancel Test - All test:**

1. Send a [Limit Day Order](#) (→ type=LIMIT, → durationType=DAY) that will rest on the book.
2. Receive and Process [Order Response](#) Message.
3. Send a [Limit Day Order](#) that will rest on the book for instrument different from step 1 of different market segment.
4. Receive and Process [Order Response](#) Message.
5. Send a [Mass Order Cancel](#) with Instrument Scope = ALL.
6. Receive and Process [Mass Order Cancel Response](#) for order in step 1, then validate the following values:
  - marketSegmentId
  - customerOrderId
  - venueOrderId
7. Receive and Process [Mass Order Cancel Response](#) for order in step 3, then validate the following values:
  - marketSegmentId
  - customerOrderId
  - venueOrderId

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### Steps of the test: Mass Order Cancel Test - All

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 the client system can submit a mass order cancel request using the ALL parameter.

**Selected Instrument(s):** XXXXXXXXXXXXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1 Send a Limit Day Order that will rest on the book	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Send a Limit Day Order that will rest on the book for instrument different from step 1 of different market segment.	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
5 Send a Mass Order Cancel with Instrument Scope = ALL	<input type="radio"/>	Not Tested
6 Receive and Process Mass Order Cancel Response for order in step 1	<input type="radio"/>	Not Tested
7 Receive and Process Mass Order Cancel Response for order in step 3	<input type="radio"/>	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Mass Order Cancel Test - Market Segment

The purpose of this test is to verify that the client system can submit a mass order cancel request using the Market Segment parameter.

▶ **To run the Mass Order Cancel Test - Market Segment test:**

1. Send a [Limit Day Order](#) (→ type=LIMIT, → durationType=DAY) that will rest on the book.
2. Receive and Process [Order Response](#) Message.
3. Send another [Limit Day Order](#) of the same market segment that will rest on the book.
4. Receive and Process [Order Response](#) Message.
5. Send a [Mass Order Cancel](#) with Instrument Scope = MARKET\_SEGMENT for Market Segment ID 99.
6. Receive and Process [Mass Order Cancel Response](#) for order in step 1 and step 3.

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### Steps of the test: Mass Order Cancel Test - Market Segment

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 the client system can submit a mass order cancel request using the Market Segment parameter.

**Selected Instrument(s):** Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

**Test Not Running**

Description	Flag	Status
1	Send a Limit Day Order that will rest on the book	● Not Tested
2	Receive and Process Order Response Message	● Not Tested
3	Send another Limit Day Order of the same market segment that will rest on the book	● Not Tested
4	Receive and Process Order Response Message	● Not Tested
5	Send a Mass Order Cancel with Instrument Scope = MARKET_SEGMENT for Market Segment ID 99	● Not Tested
6	Receive and Process Mass Order Cancel Response for order in step 1 and step 3	● Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Mass Order Cancel Test - Product Group

The purpose of this test is to verify that the client system can submit a mass order cancel request using the Product Group parameter.

► **To run the Mass Order Cancel Test - Product Group test:**

1. Send a [Limit Day Order](#) (→ type=LIMIT, → durationType=DAY) that will rest on the book.
2. Receive and Process [Order Response](#) Message.
3. Send a [Limit Day Order](#) that will rest on the book for instrument different from step 1 of different product group.
4. Receive and Process [Order Response](#) Message.
5. Send a [Mass Order Cancel](#) with Instrument Scope = PRODUCT\_GROUP canceling step 1 order.
6. Receive and Process [Mass Order Cancel Response](#) for order in step 1.



Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Mass Order Cancel Test - Instrument

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 the client system can submit a mass order cancel request by instrument.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Limit Day Order that will rest on the book	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Send a Limit Day Order that will rest on the book for instrument different from step 1	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
5 Send a Mass Order Cancel with Instrument Scope = INSTRUMENT canceling step 1 order	<input type="radio"/>	Not Tested
6 Receive and Process Mass Order Cancel Response for order in step 1	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Create a Combo option contract and send an order on the new contract

The Purpose of this test is to verify that your application can create a User-Defined Combo option contract and send a New Order and a Cancel Request on such instrument.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

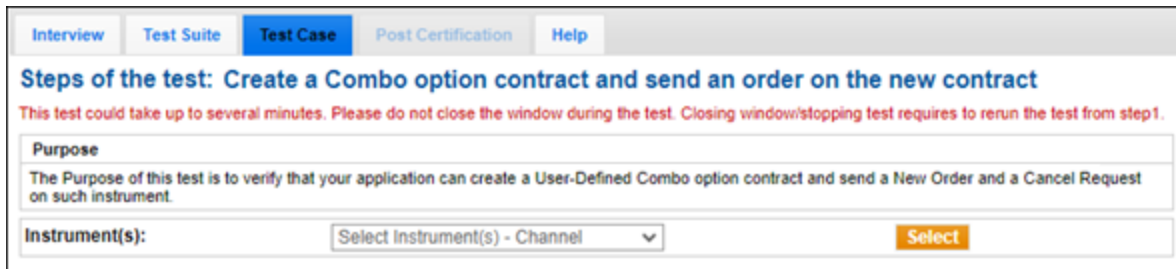
Identifier:  **ASSIGN**

**Test Suite Status:**  
Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** (OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.), then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run a Combo Option creation and order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Using options instrument, send a Submit Instrument request to [create a Combo Option](#) instrument.  
A Combo Option instrument is created.
2. Send an [order](#) on the UDS Combo Option created in Step 2.
3. Receive and Process [Order Response](#) Message.
4. Send a [Cancel Order](#) for the order place in step 3.
5. Receive and Process [Cancel Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

**Steps of the test: Create a Combo option contract and send an order on the new contract**

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 step1.

**Purpose**  
The Purpose of this test is to verify that your application can create a User-Defined Combo option contract and send a New Order and a Cancel Request on such instrument.

**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**  
Test Not Running

Description	Flag	Status
1 Using options instrument, send a Submit Instrument request to create a Combo Option instrument	<input type="radio"/>	Not Tested
2 Successfully created a Combo Option instrument	<input type="radio"/>	Not Tested
3 Send an order on the UDS Combo Option created in Step 2	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
5 Send a Cancel Order for the order place in step 3	<input type="radio"/>	Not Tested
6 Receive and Process Cancel Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Create a Covered option contract and send an order on the new contract

The Purpose of this test is to verify that your application can create a User-Defined Covered option contract and send a New Order and a Cancel Request on such instrument.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

**Current Testing Configuration**

Tester: **Tom Tester**  
 Company Name: QA  
 Market: Futures & Options  
 Purpose: CME Globex Order Entry API on GCP via Websocket  
 Application System: TEST  
 Test Suite: CME Globex Order Entry API on GCP via Websocket

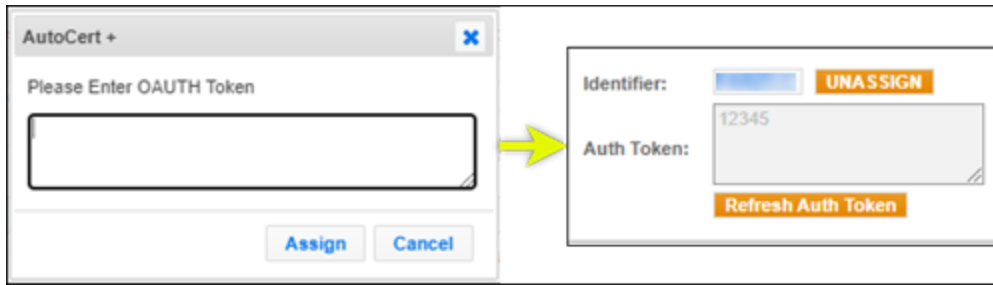
Type: Automated Trading System  
 Category: Prop System  
 1603: TEST  
 1604: 1  
 1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

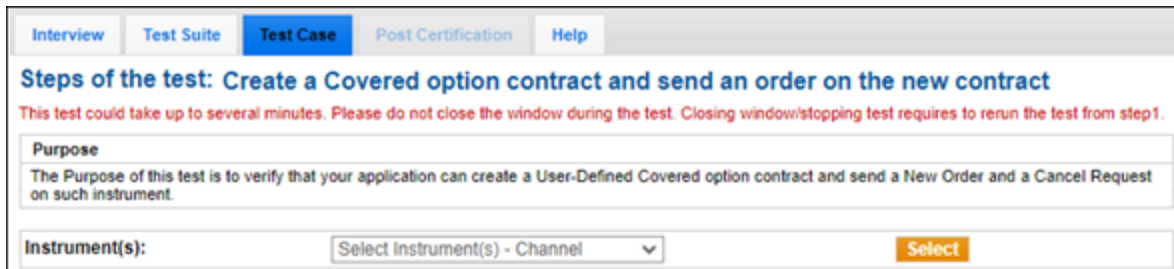
Identifier: Select Identifier **ASSIGN**

Test Suite Status:  
 Pre-Certification Interview:  Complete  
 Test Suite Status:  In Progress

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run covered option creation and order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Using options instrument, send a Submit Instrument request to [create a Covered Option instrument](#) with one call option leg and a future leg.  
Successfully created a Covered Option instrument.
2. Send an [order](#) on the UDS Covered Option created in the previous step.
3. Receive and Process [Order Response](#) Message.
4. Send a [Cancel Order](#) for the order place in step 3.
5. Receive and Process [Cancel Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Create a Covered option contract and send an order on the new contract

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 create a User-Defined Covered option contract and send a New Order and a Cancel Request on such instrument.

**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**

Test Not Running

Description	Flag	Status
1 Using options instrument, send a Submit Instrument request to create a Covered Option instrument with one call option leg and a future leg	<input type="radio"/>	Not Tested
2 Successfully created a Covered Option instrument	<input type="radio"/>	Not Tested
3 Send an order on the UDS Covered Option created in Step 2	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
5 Send a Cancel Order for the order place in step 3	<input type="radio"/>	Not Tested
6 Receive and Process Cancel Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Create a recursive UDS contract and send an order on the new contract

The Purpose of this test is to verify that your application can create a User-Defined Spread with one or more of its legs being a User-Defined Spread and send a New Order message on such instrument.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: [Tom Tester](#)

Company Name:

Market:

Purpose:

Application System:

Test Suite:

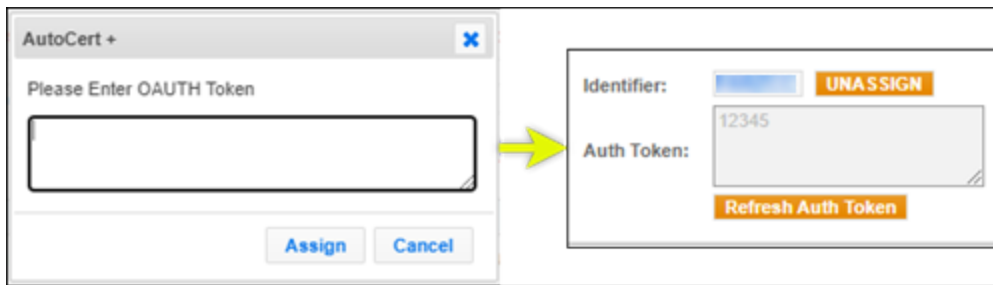
**NOTE: This test suite utilizes the NEWRELEASE environment.**

Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

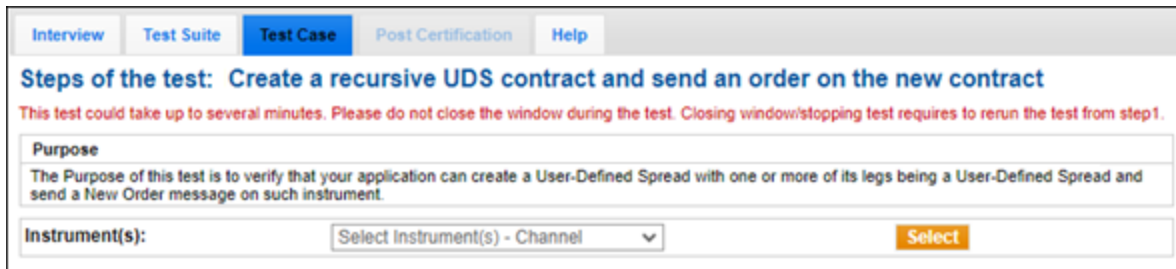
Identifier:  **ASSIGN**

**Test Suite Status:**  
Pre-Certification Interview: ✔ Complete  
Test Suite Status: In Progress

Enter the **OAuth Token** *OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.*, then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run recursive UDS contract creation and order test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Using options instrument, send a Submit Instrument request to [create Spread Combo or Covered Option instrument](#) with at least one leg being a User-Defined Spread.  
Successfully created a UDS instrument.
2. Send an [order](#) on the UDS contract created in Step 2.
3. Receive and Process [Order Response](#) Message.
4. Send a [Cancel Order](#) for the order place in step 3.
5. Receive and Process [Cancel Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

**Steps of the test: Create a recursive UDS contract and send an order on the new contract**

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 step1.

**Purpose**  
The Purpose of this test is to verify that your application can create a User-Defined Spread with one or more of its legs being a User-Defined Spread and send a New Order message on such instrument.

**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**

Test Not Running

Description	Flag	Status
1 Using options instrument, send a Submit Instrument request to create Spread Combo or Covered Option instrument with at least one leg being a User-Defined Spread	●	Not Tested
2 Successfully created a UDS instrument	●	Not Tested
3 Send an order on the UDS contract created in Step 2	●	Not Tested
4 Receive and Process Order Response Message	●	Not Tested
5 Send a Cancel Order for the order place in step 3	●	Not Tested
6 Receive and Process Cancel Order Response Message	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

**REFRESH**

## Process a Submit Instrument Reject in response to Submit Instrument Request

The Purpose of this test is to verify that your application can process a Submit Instrument Reject message.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

**Current Testing Configuration**

Tester: Tom Tester  
 Company Name: QA  
 Market: Futures & Options  
 Purpose: CME Globex Order Entry API on GCP via Websocket  
 Application System: TEST  
 Test Suite: CME Globex Order Entry API on GCP via Websocket

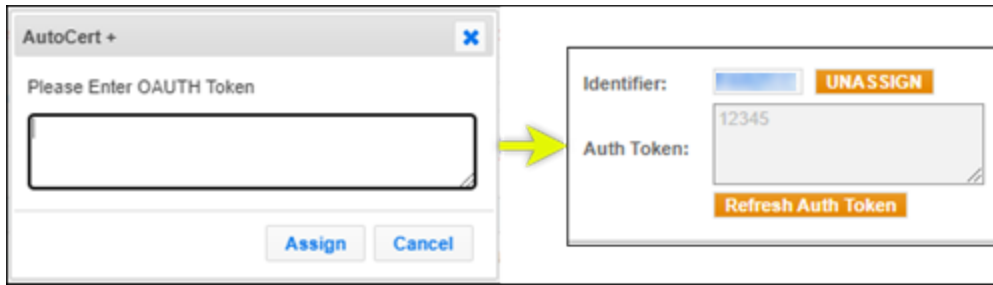
Type: Automated Trading System  
 Category: Prop System  
 1603: TEST  
 1604: 1  
 1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

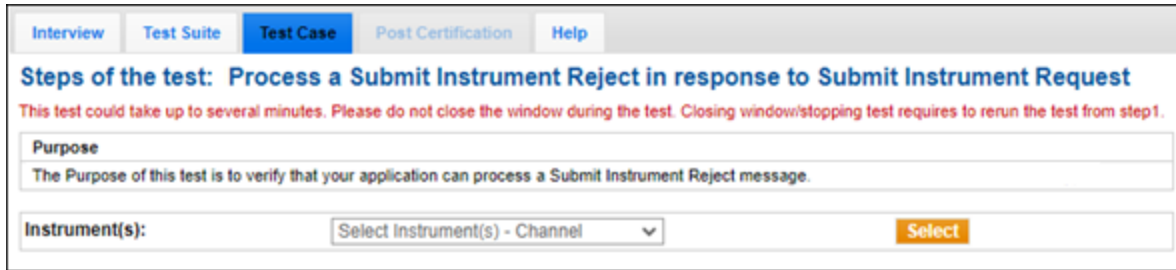
Identifier: Select Identifier **ASSIGN**

Test Suite Status:  
 Pre-Certification Interview: Complete  
 Test Suite Status: In Progress

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



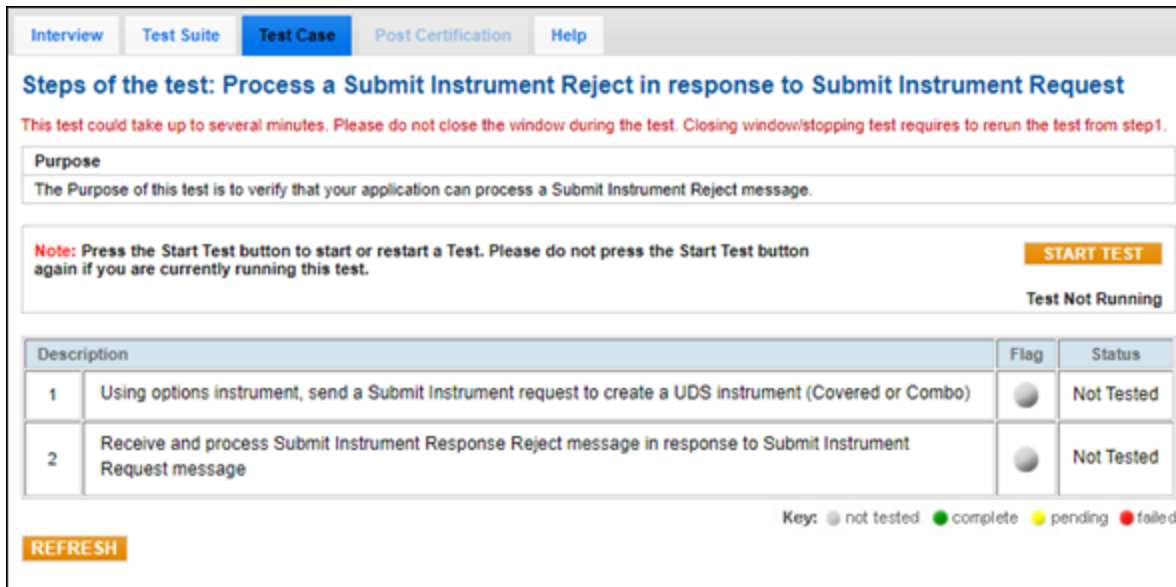
- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



► To process a submit instrument reject in response to submit instrument request:

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Using options instrument, send a Submit [Instrument request](#) to create a UDS instrument (Covered or Combo).
2. Receive and process Submit [Instrument Response Reject](#) message in response to Submit Instrument Request message.



## Send an order on an existing UDS

The Purpose of this test is to verify that the application system can submit an order on an existing User-Defined Spread instrument.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- b. From the drop down menu select an **Identifier**.

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.

- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

▶ **To test sending an order on an existing UDS:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send an [order](#) on an UDS instrument (→ instrument).
2. Receive and Process [Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Send an order on an existing UDS

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 step1.

**Purpose**  
The Purpose of this test is to verify that your application can submit an order on an existing User-Defined Spread instrument.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send an order on an UDS instrument	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Request for Quote Test

The purpose of this test is to verify that the client system can submit a Request For Quote message and process corresponding responses.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

### Current Testing Configuration

Tester: **Tom Tester**

Company Name:

Market:

Purpose:

Application System:

Test Suite:

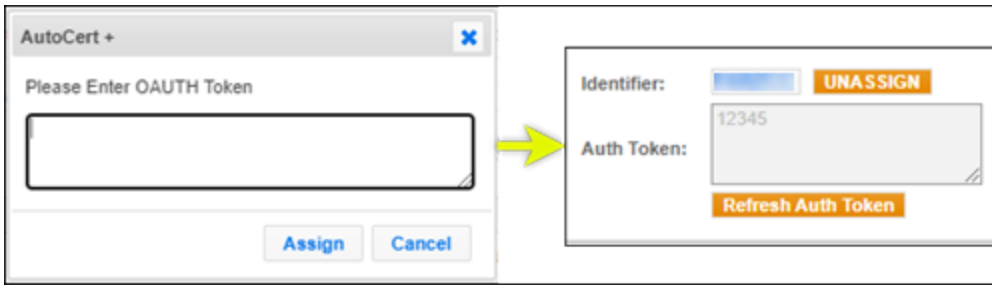
Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

**NOTE: This test suite utilizes the NEWRELEASE environment.**

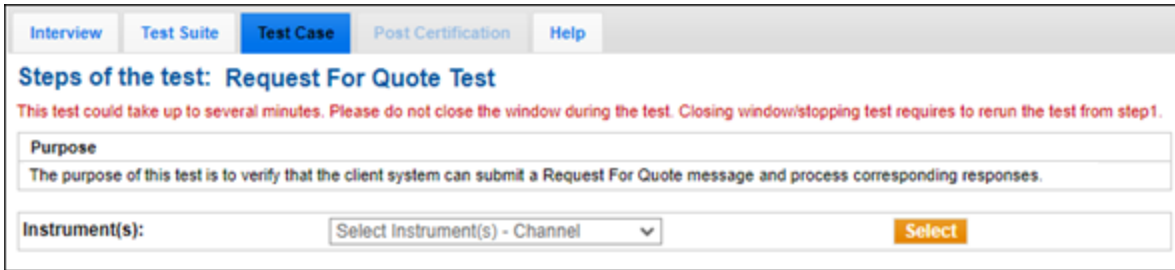
Identifier:  **ASSIGN**

Test Suite Status: **Complete**  
Pre-Certification Interview:  Complete  
Test Suite Status: **In Progress**

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



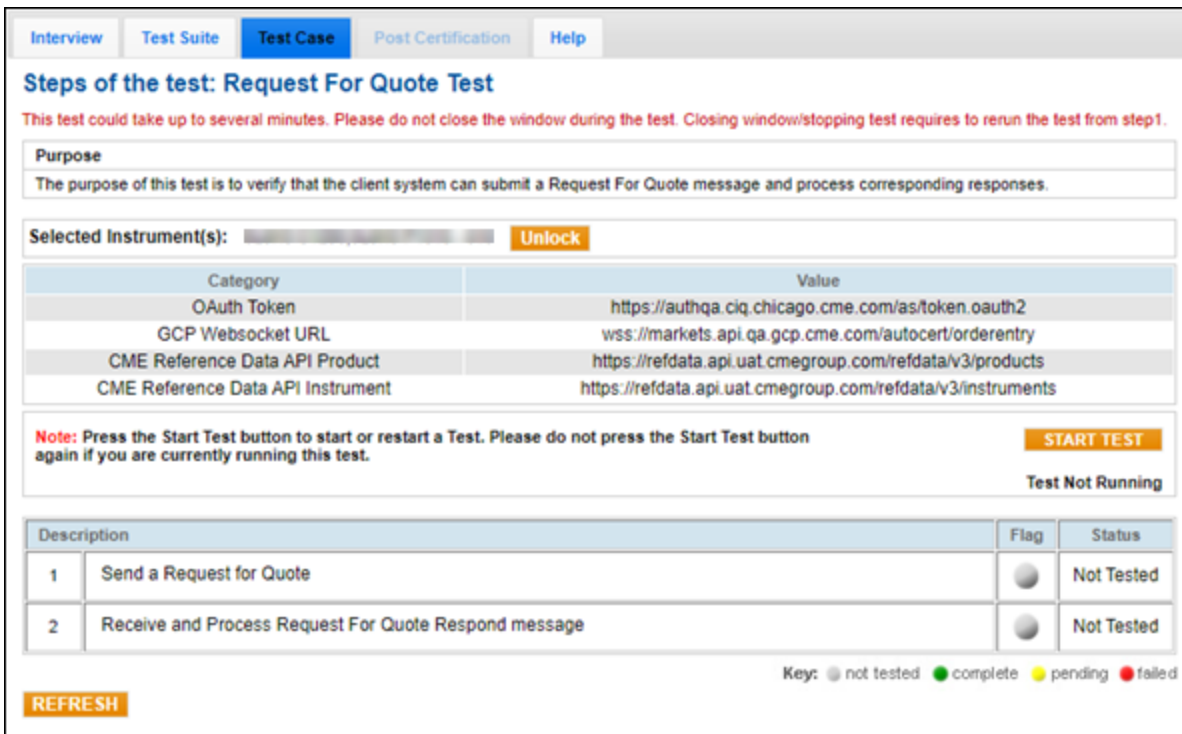
- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ To run a Request for Quote test:

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a [Request for Quote](#).
2. Receive and Process Request For Quote [Response](#) message.



## Get Order Status Tests

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

#### Order Status Tests:

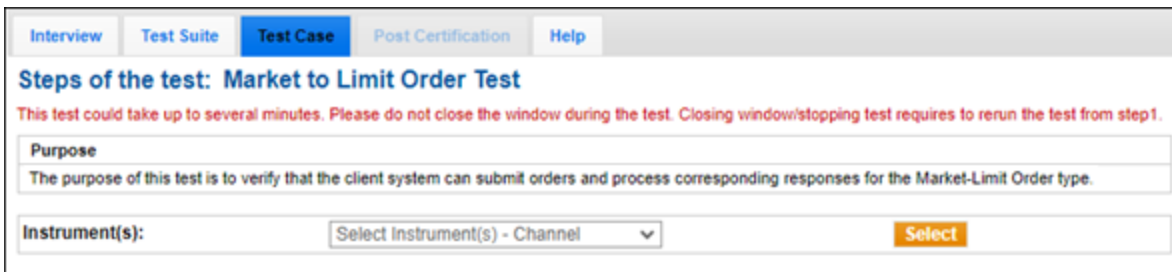
- [Get Order Status using Customer Order ID](#)
- [Get Order Status using Venue Order ID](#)
- [Get Order Status using Customer Account ID](#)
- [Get Order Status using Operator ID](#)
- [Get Order Status using Status](#)
- [Get Order Status using Transaction Time Start & Transaction Time End](#)
- [Get Order Status without using filter parameter](#)

Prior to beginning the test ensure an *OAuth ID* / Token is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.

- On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

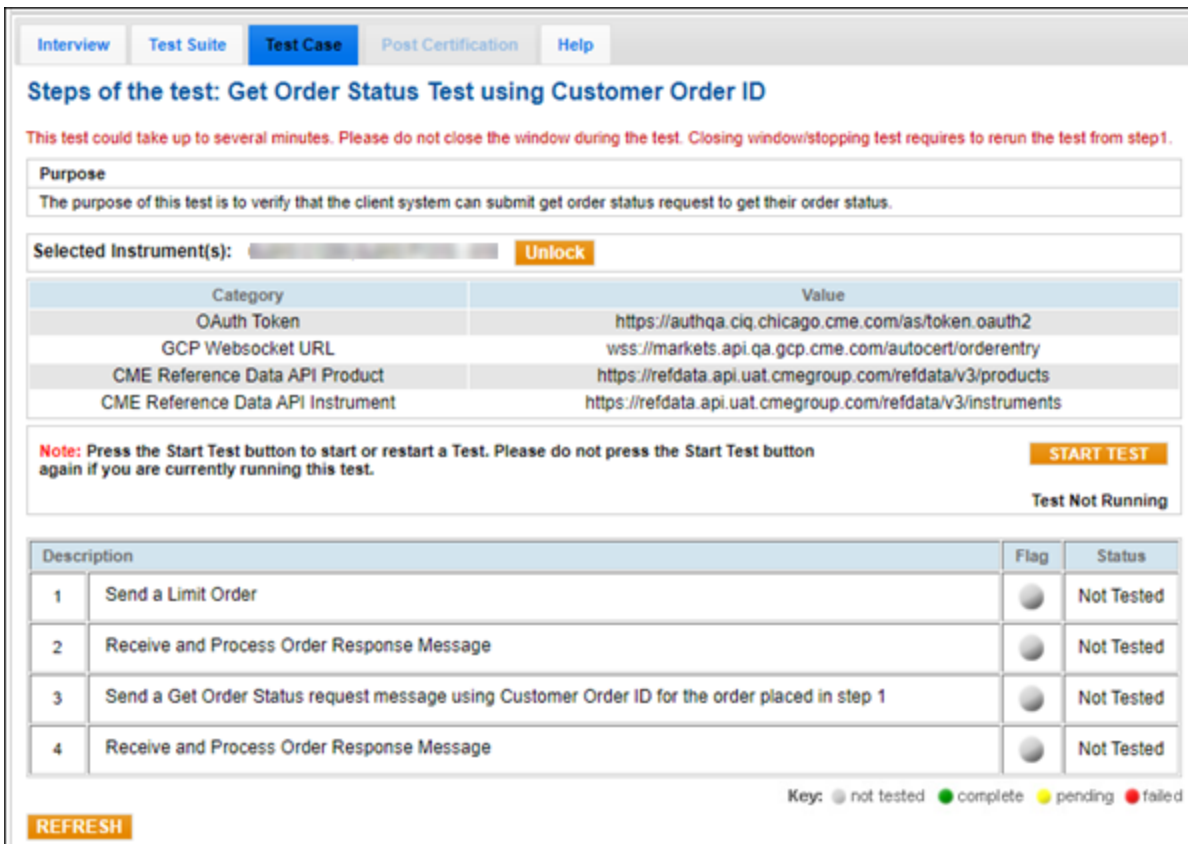


## Get Order Status using Customer Order ID

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

► **To run the Get Order Status using Customer Order ID test:**

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Send a [Get Order Status](#) request message using Customer Order ID (→ customerId) for the order placed in step 1.
4. Receive and Process [Order Response](#) Message.



## Get Order Status using Venue Order ID

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.

3. Send a [Get Order Status](#) request message using Venue Order IDs for the order placed in step 1.
4. Receive and Process [Order Response](#) Message.

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### Steps of the test: Get Order Status Test using Venue Order ID

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 the client system can submit get order status request to get their order status.

**Selected Instrument(s):** XXXXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1 Send a Limit Order	●	Not Tested
2 Receive and Process Order Response Message	●	Not Tested
3 Send a Get Order Status request message using Venue Order IDs for the order placed in step 1	●	Not Tested
4 Receive and Process Order Response Message	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Get Order Status using Customer Account ID

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Send a [Get Order Status](#) request message using Customer Account ID for the order placed in step 1.
4. Receive and Process [Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Get Order Status Test using Customer Account ID

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 the client system can submit get order status request to get their order status.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.cmegroup.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Send a Get Order Status request message using Customer Account ID for the order placed in step 1	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Get Order Status using Operator ID

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Send a [Get Order Status](#) request message using Operator ID for the order placed in step 1.
4. Receive and Process [Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Get Order Status Test using Operator ID

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 the client system can submit get order status request to get their order status.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**  
Test Not Running

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Send a Get Order Status request message using Operator ID for the order placed in step 1	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Get Order Status using Status

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Send a [Get Order Status](#) request message using Status for the order placed in step 1.
4. Receive and Process [Order Response](#) Message.

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### Steps of the test: Get Order Status Test using Status

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 the client system can submit get order status request to get their order status.

**Selected Instrument(s):** XXXXXXXXXXXXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

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

Test Not Running

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Send a Get Order Status request message using Status for the order placed in step 1	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Get Order Status using Transaction Time Start & Transaction Time End

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Send a [Get Order Status](#) request message using Transaction Time Start & Transaction Time End for the order placed in step 1.
4. Receive and Process [Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Get Order Status Test using Transaction Time Start & Transaction Time End

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit get order status request to get their order status.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**  
Test Not Running

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Send a Get Order Status request message using Transaction Time Start & Transaction Time End for the order placed in step 1	<input type="radio"/>	Not Tested
4 Receive and Process Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Get Order Status without using filter parameter

The purpose of this test is to verify that the client system can submit get order status request to get their order status.

1. Send a [Get Order Status](#) request message without using filter parameter.
2. Receive and Process [Order Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Get Order Status Test without using filter parameter

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit get order status request to get their order status.

**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**  
Test Not Running

Description	Flag	Status
1 Send a Get Order Status request message without using filter parameter	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Search for Trade Tests

The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

Search for Trade tests:

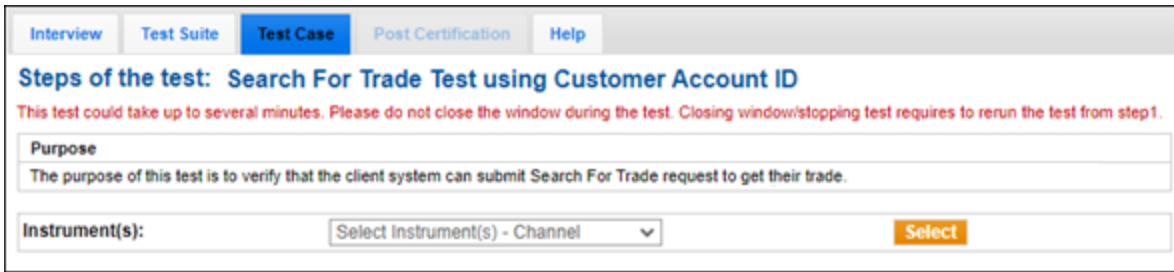
- [Search For Trade using Customer Account ID](#)
- [Search For Trade using Customer Order ID](#)
- [Search For Trade using Transaction Time Start & Transaction Time End](#)
- [Search For Trade using Venue Execution ID](#)
- [Search For Trade using Venue Order ID](#)
- [Search For Trade without using filter parameter](#)

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

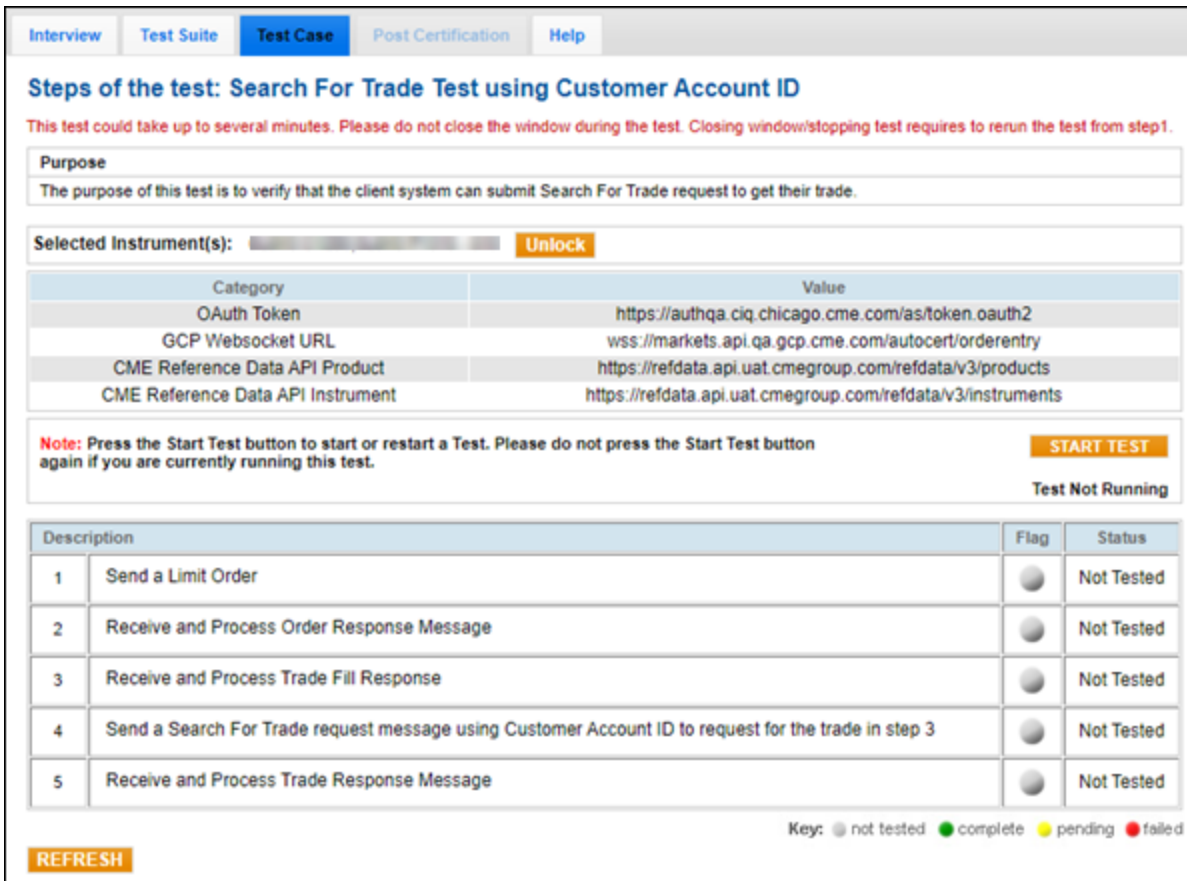
Enter the **OAuth Token** *OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.*, then select **ASSIGN**.

- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



## Search For Trade using Customer Account ID

- ▶ To test searching for a trade using customer account ID:
  1. Send a [Limit Order](#) (→ type=LIMIT).
  2. Receive and Process [Order Response](#) Message.
  3. Receive and Process [Trade Fill Response](#).
  4. Send a [Search For Trade](#) request message using Customer Account ID to request for the trade in step 3.
  5. Receive and Process [Trade Response](#) Message.



## Search For Trade using Customer Order ID

The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

- ▶ To test searching for a trade using customer account ID:

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#).
4. Send a [Search For Trade](#) request message using Customer Order ID to request for the trade in step 3.
5. Receive and Process [Trade Response](#) Message.

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### Steps of the test: Search For Trade Test using Customer Order ID

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 the client system can submit Search For Trade request to get their trade.

**Selected Instrument(s):** Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1 Send a Limit Order	●	Not Tested
2 Receive and Process Order Response Message	●	Not Tested
3 Receive and Process Trade Fill Response	●	Not Tested
4 Send a Search For Trade request message using Customer Order ID to request for the trade in step 3	●	Not Tested
5 Receive and Process Trade Response Message	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Search For Trade using Transaction Time Start & Transaction Time End

The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#).
4. Send a [Search For Trade](#) request message using Transaction Time Start & Transaction Time End to request for the trade in step 3.
5. Receive and Process [Trade Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Search For Trade Test using Transaction Time Start & Transaction Time End

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 the client system can submit Search For Trade request to get their trade.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

**Test Not Running**

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested
4 Send a Search For Trade request message using Transaction Time Start & Transaction Time End to request for the trade in step 3	<input type="radio"/>	Not Tested
5 Receive and Process Trade Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Search For Trade using Venue Execution ID

The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#).
4. Send a [Search For Trade](#) request message using Venue Execution ID to request for the trade in step 3.
5. Receive and Process [Trade Response](#) Message.

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### Steps of the test: Search For Trade Test using Venue Execution ID

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 step1.

**Purpose**

The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

**Selected Instrument(s):** XXXXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1 Send a Limit Order	●	Not Tested
2 Receive and Process Order Response Message	●	Not Tested
3 Receive and Process Trade Fill Response	●	Not Tested
4 Send a Search For Trade request message using Venue Execution ID to request for the trade in step 3	●	Not Tested
5 Receive and Process Trade Response Message	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Search For Trade using Venue Order ID

The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

1. Send a [Limit Order](#) (→ type=LIMIT).
2. Receive and Process [Order Response](#) Message.
3. Receive and Process [Trade Fill Response](#).
4. Send a [Search For Trade](#) request message using Venue Order ID (→ venueOrderIds) to request for the trade in step 3.
5. Receive and Process [Trade Response](#) Message.

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### Steps of the test: Search For Trade Test using Venue Order ID

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

**Selected Instrument(s):**  **Unlock**

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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**

Test Not Running

Description	Flag	Status
1 Send a Limit Order	<input type="radio"/>	Not Tested
2 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
3 Receive and Process Trade Fill Response	<input type="radio"/>	Not Tested
4 Send a Search For Trade request message using Venue Order ID to request for the trade in step 3	<input type="radio"/>	Not Tested
5 Receive and Process Trade Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Search For Trade without using filter parameter

The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

1. Send a [Search For Trade](#) request message without using filter parameter.
2. Receive and Process [Trade Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Search For Trade Test without using filter parameter

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system can submit Search For Trade request to get their trade.

**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**

Test Not Running

Description	Flag	Status
1 Send a Search For Trade request message without using filter parameter	<input type="radio"/>	Not Tested
2 Receive and Process Trade Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Detect a gap test

The purpose of this test is to verify that the client system can detect a gap and respond to it.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- From the drop down menu select an **Identifier**.

Enter the **OAuth Token** *OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials.*, then select **ASSIGN**.

- On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

### ▶ To run the gap test:

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

- Send a [Limit Order](#) (→ type=LIMIT).
- Receive and Process [Order Response](#) Message.
- Detect a gap, disconnect your system. Were you able to reconnect?

Select Yes/No to respond.

4. After re-connecting, send a [Get Order Status](#) request message for the order (→ customerOrderIds) placed in step 1.
5. Receive and Process Order Response Message.
6. Send a [Search For Trade](#) request message for the order (→ customerOrderIds) placed in step 1.
7. Receive and Process [Trade Response](#) Message, then validate the following values:
  - price
  - qtyint

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### Steps of the test: Detect a gap test

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 step1.

**Purpose**

The purpose of this test is to verify that the client system can detect a gap and respond to it.

**Selected Instrument(s):** XXXXXXXXXXXX Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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

Test Not Running

Description	Flag	Status
1 Send a Limit Order	●	Not Tested
2 Receive and Process Order Response Message	●	Not Tested
3 Detect a gap, disconnect your system. Were you able to reconnect?	●	Not Tested
4 After re-connecting, send a Get Order Status request message for the order placed in step 1	●	Not Tested
5 Receive and Process Order Response Message	●	Not Tested
6 Send a Search For Trade request message for the order placed in step 1	●	Not Tested
7 Receive and Process Trade Response Message	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

## Verify connectivity test

The purpose of this test is to verify that the client system reacts correctly in case of an interruption of communication with CME, Customer to disconnect and re-connect to ensure a stable instance and use Order Status and Trade Search to recover any possible missed information.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- a. [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).  
The OAuth ID and token is used to authenticate the websocket connection prior to running the test.
- b. From the drop down menu select an **Identifier**.

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.

c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.

▶ **To run the connectivity test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Over a connected WebSocket connection, Receive and Process [Heartbeat](#) message.
2. Receive and Process Heartbeat message.
3. Over 15 seconds, no message is received. Please disconnect and your system. Were you able to reconnect?
4. After re-connecteing, send a [Get Order Status](#) request message.
5. Receive and Process [Order Response](#) Message.
6. Send a [Search For Trade](#) request message for the order placed in step 1.
7. Receive and Process [Trade Response](#) Message.

Interview Test Suite **Test Case** Post Certification Help

### Steps of the test: Verify connectivity test

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 step1.

**Purpose**  
The purpose of this test is to verify that the client system reacts correctly in case of an interruption of communication with CME. Customer to disconnect and re-connect to ensure a stable instance and use Order Status and Trade Search to recover any possible missed information.

**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**

Test Not Running

Description	Flag	Status
1 Over a connected WebSocket connection, Receive and Process Heartbeat message	<input type="radio"/>	Not Tested
2 Receive and Process Heartbeat message	<input type="radio"/>	Not Tested
3 Over 15 seconds, no message is received. Please disconnect and your system. Were you able to reconnect?	<input type="radio"/>	Not Tested
4 After re-connecting, send a Get Order Status request message	<input type="radio"/>	Not Tested
5 Receive and Process Order Response Message	<input type="radio"/>	Not Tested
6 Send a Search For Trade request message for the order placed in step 1	<input type="radio"/>	Not Tested
7 Receive and Process Trade Response Message	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

## Recovery Test

The purpose of this test is to verify that the client system can recover after disconnection.

Prior to beginning the test ensure an *OAuth ID / Token* is created, then select an *Identifier* and *Instrument*.

- [Create an OAuth ID](#) (if applicable) in CME Customer Center then [retrieve the authentication token](#).

The OAuth ID and token is used to authenticate the websocket connection prior to running the test.

- From the drop down menu select an **Identifier**.

**Current Testing Configuration**

Tester: [Tom Tester](#)

Company Name:

Market:

Purpose:

Application System:

Test Suite:

Type: Automated Trading System  
Category: Prop System  
1603: TEST  
1604: 1  
1605: FNO

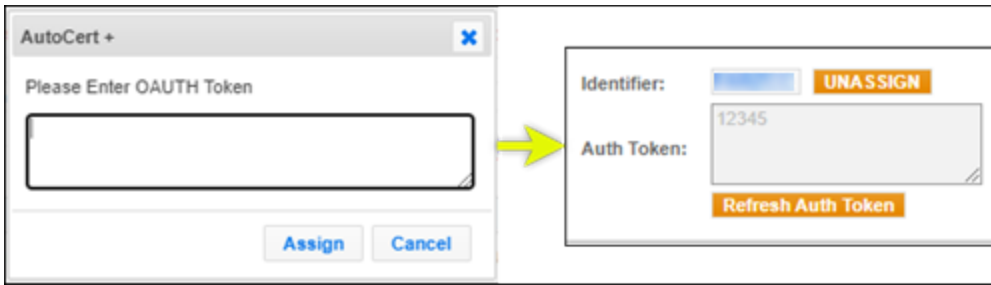
**NOTE: This test suite utilizes the NEWRELEASE environment.**

Identifier:  **ASSIGN**

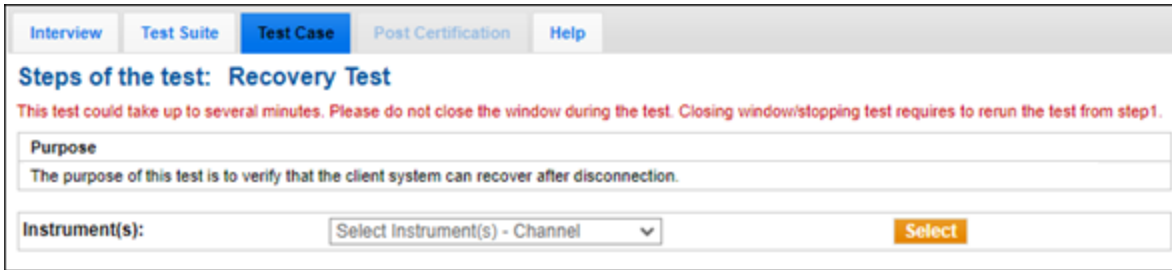
Test Suite Status:

Pre-Certification Interview:  Complete  
Test Suite Status:  In Progress

Enter the **OAuth Token** OAuth allows resource owners to authorize third-party access to their server resources without sharing their credentials., then select **ASSIGN**.



- c. On the selected Test Case screen, select an **Instrument**, then select **START TEST**.



▶ **To run the Recovery test:**

**Note:** For additional information and order entry message specifications, refer to the links in the below procedures.

1. Send a Limit [Order](#) with a quantity (→ type=LIMIT, → qtyInt) greater than 1.
2. Receive and Process [Order Response](#) Message.
3. Websocket is disconnected. For [Cancel on Disconnect](#) enabled WebSocket connections, COD is invoked
4. After few seconds, re-connect to the Websocket and send a [Get Order Status](#) request message for the order placed in step 1
5. Receive and Process [Order Response](#) Message
6. Send a [Search For Trade](#) request message for the order placed in step 1
7. Receive and Process [Trade Response](#) Message, then validate the following values:
  - price
  - qtyint

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### Steps of the test: Recovery Test

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 the client system can recover after disconnection.

**Selected Instrument(s):** Unlock

Category	Value
OAuth Token	https://authqa.ciq.chicago.cme.com/as/token.oauth2
GCP Websocket URL	wss://markets.api.qa.gcp.cme.com/autocert/orderentry
CME Reference Data API Product	https://refdata.api.uat.cmegroup.com/refdata/v3/products
CME Reference Data API Instrument	https://refdata.api.uat.cmegroup.com/refdata/v3/instruments

**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  
Test Not Running

Description	Flag	Status
1	Send a Limit Order with a quantity greater than 1	● Not Tested
2	Receive and Process Order Response Message	● Not Tested
3	Websocket is disconnected. For Cancel on Disconnect enabled WebSocket connections, COD is invoked	● Not Tested
4	After few seconds, re-connect to the Websocket and send a Get Order Status request message for the order placed in step 1	● Not Tested
5	Receive and Process Order Response Message	● Not Tested
6	Send a Search For Trade request message for the order placed in step 1	● Not Tested
7	Receive and Process Trade Response Message	● Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH