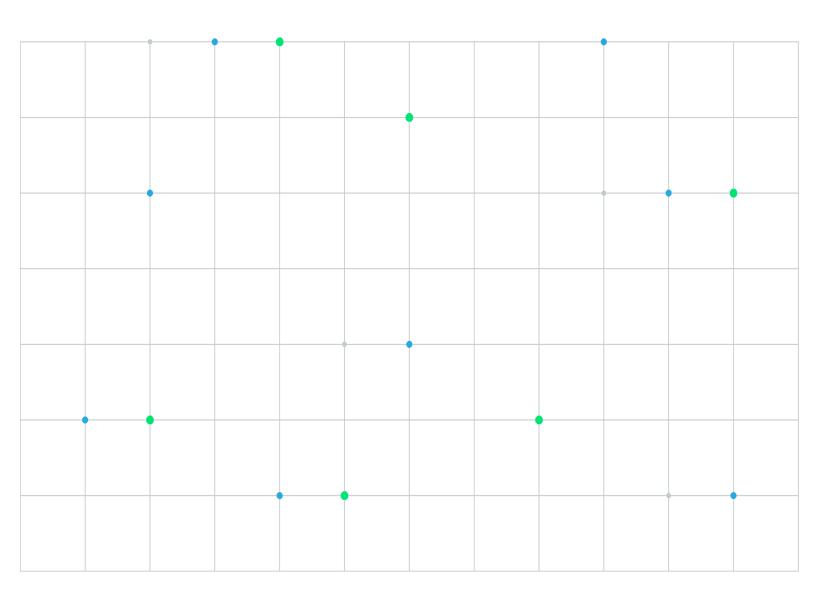


# AutoCert+ CME STP FIXML Failover User Manual

13 November 2024



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

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

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 All matters pertaining to rules and specifications herein are made subject to and are superseded by official CME, CBOT and NYMEX rules.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

Copyright © 2024 CME Group Inc. All rights reserved.

# **Table of Contents**

Getting Started	
Accessing and Navigating AutoCert+	Z
What's New	
Interview	
Test Suite	
Failover for Request Type of Subscription with Start Time	8
Failover for Request Type of Subscription with Query	

# **Getting Started**

The AutoCert+ tool is an automated testing tool for validating application functionality. It provides a web interface for using CME Group certification scenarios.

To facilitate the process of connecting a customer application to CME Globex, CME Group provides a dedicated certification environment to allow customers to test their systems before they complete certification.

This user manual accompanies the AutoCert+ CME STP FIXML Failover test suite for certifying your application. With the migration of CME STP FIXML to GCP and the fact that regional <u>failover</u> can occur on GCP, failover certification tests are required for FIXML customers.

## Accessing and Navigating AutoCert+



#### To access and navigate AutoCert+:

- 1. Log into the automated certification tool.
- 2. Review general AutoCert+ test suite navigation and general interview information.
- 3. To access the AutoCert+ CME STP FIXML Failover test suite, select the following settings on the **Current Testing Configuration** screen.
  - a. Company Name: Select a company profile.
  - b. Market: Select "Futures & Options".
  - c. Purpose: Select "CME STP".
  - d. Application System: Select a test system.
  - e. Test Suite: Select "CME STP FIXML Failover".
  - f. Identifier: Select an identifier and click Assign.



- 4. Complete the Interview for this test suite.
- Complete the applicable test cases in the <u>Test Suite</u>.
- 6. Complete the certification process from the Post Certification tab.

## What's New

The following table shows the updates made to the AutoCert+ CME STP FIXML Failover Help system.

Date	Topic(s)	Description
13 Nov 2019	All	Initial release

### Interview

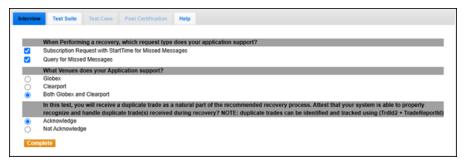
The interview consists of a series of questions about your trading application. Based on your responses, certain questions and tests are required and others are optional. You must complete the pre-certification interview before running the test suite.



#### To complete the interview:

- 1. Select the **Interview** tab.
- 2. Answer each question and click the **Complete** button.

After completing the interview, proceed to the Test Suite.



## **Test Suite**

Use the **Test Suite** tab to run the **CME STP FIXML Failover Certification Tests** required to certify your application. You are required to select and run each test in the test suite.



The following test cases are available based on your Interview responses.

- Failover for Request Type of Subscription with Start Time
- Failover for Request Type of Subscription with Query

## Failover for Request Type of Subscription with Start Time

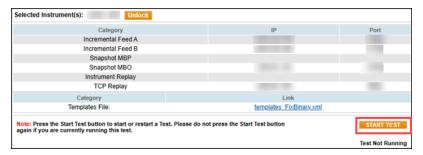
The purpose of this test is to verify the client system can properly handle a failover event using a new subscription with a Start Time as a means of recovery. This includes identifying a failover response, subscribing with a new token, and receiving duplicate trades as part of the recommended failover process (deduping).

This test is mandatory if you selected **Subscription with StartTime for Missed Messages** in the first interview question.

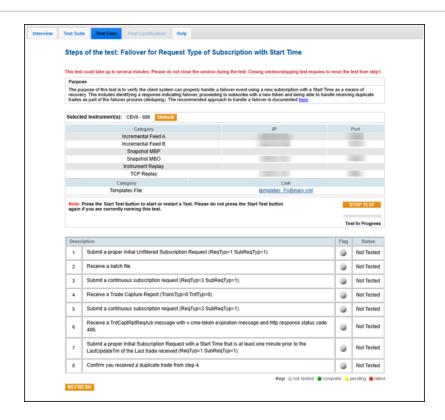


#### To run the test

- 1. On the Test Case tab, use the Instrument(s) drop down menu to choose an instrument and channel and click SELECT.
- 2. Select START TEST.



- 3. Submit a proper initial Unfiltered Subscription Request (ReqType="1", SubReqType="1").
- 4. Receive an empty batch file (<Batch>).
- 5. Submit a continuous subscription request (RegTyp="3", SubReqTyp="1").
- 6. Receive a Trade Capture Report (TransTyp="0", TrdTyp="0"). Validate the Product Code (ID), Trade Quantity (LastQty), and Last Update Time (LastUpdateTm).
- 7. Submit a continuous subscription request (RegTyp="3" SubRegTyp="1").
- 8. Receive a TrdCaptRptReqAck message with x-cme-token expiration message and HTTP response status code 406.
- 9. Submit a proper Initial Subscription Request with a Start Time (StartTm) that is at least one minute prior to the Last Update Time (LastUpdateTm) of the last trade received (ReqType="1", SubReqType="1").
- 10. Confirm you received a duplicate trade from step 6.



## Failover for Request Type of Subscription with Query

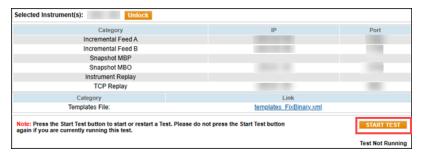
The purpose of this test is to verify the client system can properly handle a failover event using a Query for recovery purposes. This includes identifying a failover response, subscribing with a new token, and receiving duplicate trades as part of the failover process (deduping).

This test is mandatory if you selected Query for Missed Messages in the first interview question.



#### To run the test

- 1. On the Test Case tab, use the Instrument(s) drop down menu to choose an instrument and channel and click SELECT.
- 2. Select START TEST.



- 3. Submit a proper Initial Unfiltered Query Request using Start Time (ReqType="1" SubReqType="1").
- 4. Receive an empty batch file (<Batch>).
- 5. Submit a continuous subscription request (RegTyp="3", SubReqTyp="1").
- 6. Receive a Trade Capture Report (TransTyp="0", TrdTyp="0"). Validate the Product Code (ID), Trade Quantity (LastQty), and Last Update Time (LastUpdateTm).
- 7. Submit a continuous subscription request (RegTyp="3" SubRegTyp="1").
- 8. Receive a TrdCaptRptReqAck message with x-cme-token expiration message and HTTP response status code 406.
- 9. Submit a proper Query Request with a Start Time (StartTm) that is at least one minute prior to the Last Update Time (LastUpdateTm) of the last trade received (ReqType="1" SubReqType="0").
- 10. Confirm you received a duplicate trade from step 6.

