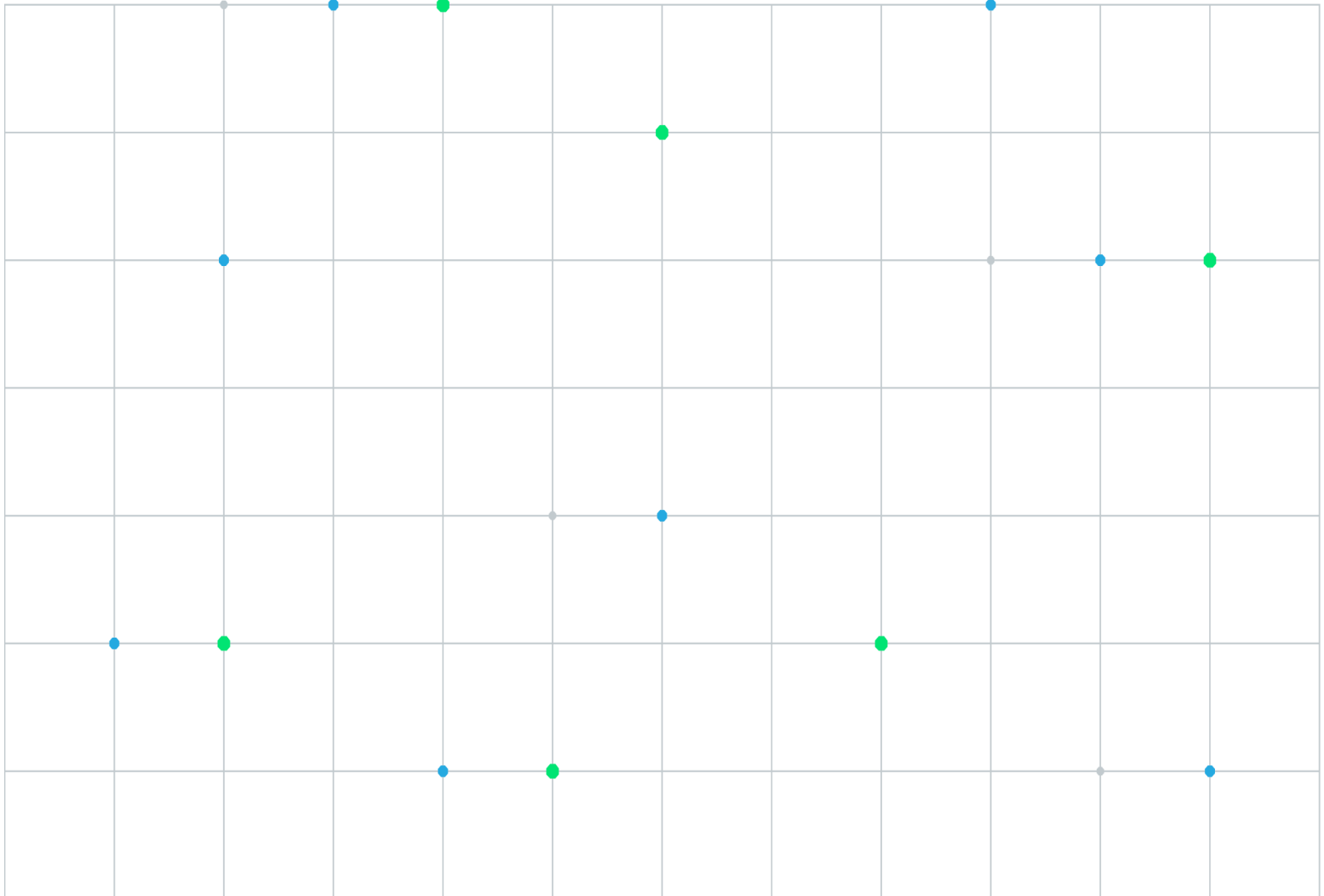


# AutoCert+ EBS Risk Management API User Manual

20 October 2022



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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.

This Help system accompanies the AutoCert+ EBS Risk Management API test suite.

## EBS Risk Management API

EBS Risk Management API provides API access to EBS risk administrators through simple API calls to retrieve lists of entity groups, retrieve and set credit limits and kill or unkill trading.

EBS Risk Management API is a JSON (JavaScript Object Notation) Representation State Transfer (REST) API which provides REST endpoints (URLs) representing the HTTP methods GET request to retrieve records, and the POST request to create new records. EBS Risk Management API risk authenticates risk administrators using OAuth 2.0 protocol.

EBS risk administrators can use the EBS Risk Management API or User Interface(UI) to manage risk.

See also: [EBS Risk Management API - Features and Functions](#) client impact assessment.

## Run and Navigate AutoCert+

▶ To run and navigate AutoCert+:

1. [Log into](#) the automated certification tool.
2. Review general AutoCert+ test suite [navigation](#) and [general interview](#) information.
3. Navigate to the AutoCert+ EBS Risk Management API test suite.

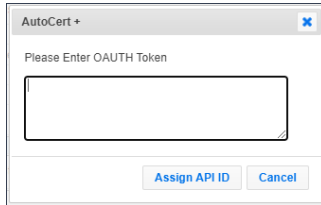
The screenshot shows the 'Test Case' tab in the AutoCert+ interface. The title is 'Steps of the test: GET - Grantor Groups'. A warning message states: 'This test could take up to several minutes. Please do not close the window during the test. Closing window/stopping test requires to rerun the test from step 1.' Below this is a 'Purpose' section with the text: 'The purpose of this test is to verify that the client system can retrieve the Grantor Groups they are permitted for.' A table lists the test steps:

Category	Value
GET Grantor Groups API URL	[Redacted]

A note below the table reads: '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.' To the right of the note is a 'START TEST' button. Below the table is a 'Test Not Running' status indicator. At the bottom of the interface is a 'REFRESH' button and a key: 'Key: ● not tested ● complete ● pending ● failed'.

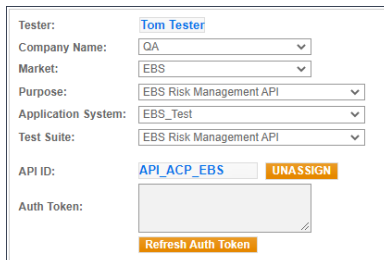
- a. Select a **Company Name**.
- b. For **Market**, select *EBS*.
- c. For **Purpose**, select *EBS Risk Management API*

- d. Select an **Application System**.
  - e. For **Test Suite**, select *EBS Risk Management API*.
4. Select an **API ID / SenderComp** then select **ASSIGN API ID**.



The screenshot shows a dialog box titled "AutoCert+" with a close button (X) in the top right corner. The text "Please Enter OAUTH Token" is displayed above a large, empty text input field. At the bottom of the dialog, there are two buttons: "Assign API ID" and "Cancel".

5. Validate access to assign the API ID by entering an **OAUTH Token**.
6. Select **Assign API ID**.



The screenshot shows a configuration form with the following fields and values:

- Tester: Tom Tester
- Company Name: QA
- Market: EBS
- Purpose: EBS Risk Management API
- Application System: EBS\_Test
- Test Suite: EBS Risk Management API
- API ID: API\_ACP\_EBS (with an UNASSIGN button next to it)
- Auth Token: (empty text field with a Refresh Auth Token button below it)

**Note:** The Auth Token must be refreshed every 30 minutes.

6. Complete the [Interview](#) for this test suite.
7. Complete applicable [test](#) cases.
8. Complete the certification process from the [Post Certification](#) tab.

## What's New

The list below illustrates the updates made to the AutoCert+ EBS Risk Management API Help system.

Date	Description
October 20, 2022	Website and PDF Format changes only.
June 3, 2022	Updated Interview questions.
October 6, 2021	Initial release.

## Interview

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

▶ **To complete the interview:**

Answer each question and select "**Complete**" when finished.

Available *Test Suites / Cases* are determined by the selected participant type and responses to interview questions; for grantor / grantee groups, limits, prime customers, firm status.

### Interview: Participant Type - Bilateral

Interview	Test Suite	Test Case	Post Certification	Help
<b>Select which participant type you support ?</b>				
<input checked="" type="radio"/>	Bilateral			
<input type="radio"/>	Prime			
<input type="radio"/>	Both Bilateral and Prime			
<b>Will your system support Health Check ?</b>				
<input checked="" type="checkbox"/>	Yes			
<b>Will your system support GET method for Grantor-groups ?</b>				
<input checked="" type="radio"/>	Yes			
<input type="radio"/>	No			
<b>Will your system support GET method for Grantee-groups ?</b>				
<input checked="" type="radio"/>	Yes			
<input type="radio"/>	No			
<b>Will your system support GET method for Limits ?</b>				
<input checked="" type="radio"/>	Yes			
<input type="radio"/>	No			
<b>Will your system support POST method for Limits ?</b>				
<input checked="" type="radio"/>	Yes			
<input type="radio"/>	No			
<b>Complete</b>				

### Interview: Participant Type - Prime / Bilateral and Prime

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

**Select which participant type you support ?**

- Bilateral
- Prime
- Both Bilateral and Prime

**Will your system support Health Check ?**

- Yes

**Will your system support GET method for Grantor-groups ?**

- Yes
- No

**Will your system support GET method for Grantee-groups ?**

- Yes
- No

**Will your system support GET method for Limits ?**

- Yes
- No

**Will your system support POST method for Limits ?**

- Yes
- No

**Will your system support GET method for Prime-Customers ?**

- Yes
- No

**Will your system support GET method for FirmStatus ?**

- Yes
- No

**Will your system support POST method for FirmStatus (Kill and Un-Kill) ?**

- Yes
- No

**Complete**



# Certification Tests

The following topics contain information on the AutoCert+ EBS Risk Management API certification tests.

Available *Test Suites / Cases* are determined by the selected participant type and responses to interview questions; for grantor / grantee groups, limits, prime customers, firm status.

API ID:  UNASSIGN

Auth Token:

Refresh Auth Token

**Test Suite Status:**

Pre-Certification Interview: ✔ Complete

Test Suite Status: ❗ Not Tested

Interview
Test Suite
Test Case
Post Certification
Help

EBS Risk Management API Certification Tests	Retest	Flag	Status	Mandatory/Optional
<a href="#">GET - Health Check</a>		<input type="radio"/>	Not Tested	Mandatory
<a href="#">GET - Grantor Groups</a>		<input type="radio"/>	Not Tested	Mandatory
<a href="#">GET - Grantee Groups</a>		<input type="radio"/>	Not Tested	Mandatory
<a href="#">GET and POST - Limits</a>		<input type="radio"/>	Not Tested	Mandatory
<a href="#">GET - List Prime Customers</a>		<input type="radio"/>	Not Tested	Mandatory
<a href="#">GET and POST - Update Firm Status</a>		<input type="radio"/>	Not Tested	Mandatory

REFRESH Key:  not tested  complete  pending  failed

- [GET - Health Check](#)
- [GET - Grantor Groups](#)
- [GET - Grantee Groups](#)
- [GET - Limits](#)
- [POST - Limits](#)
- [GET - List Prime Customers](#)
- [GET - Firm Status](#)
- [POST - Update Firm Status](#)

## GET - Health Check

The purpose of this test is to ensure proper health checks can be sent and received.

i **Note:** See the [Get Health Status](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAuth Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

Interview
Test Suite
Test Case
Post Certification
Help

**Steps of the test: GET - Health Check**

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 ensure proper health checks can be sent and received.

Category	Value
GET Health Status API URL	

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		Not Tested
2		Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

**To run a GET - Health Check test:**

1. From the *Test Suite* tab, select **GET - Health Check**, then select **START TEST**.
2. Submit a GET call to request the API health status.
3. Validate the health status returned.

# GET - Grantor Groups

The purpose of this verify that the client system can retrieve the Grantor Groups they are permissioned for.

**Note:** See the [List Grantor Groups](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAuth Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

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

**Steps of the test: GET - Grantor Groups**

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 retrieve the Grantor Groups they are permissioned for.

Category	Value
GET Grantor Groups API URL	https://testapi.ebs.com/api/grantor-groups

**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 Submit a GET call to request a list of Grantor Groups your API has entitlements to.	●	Not Tested
2 Validate the Grantor Group ID.	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

**REFRESH**

## ▶ GET - Grantor Groups test:

1. From the *Test Suite* tab, select **GET - Grantor Groups**, then select **START TEST**.
2. Submit a GET call to request a list of Grantor Groups your API has entitlements to.
3. Validate the Grantor Group ID.

# GET - Grantee Groups

The purpose of this verify that the client system can retrieve the Grantee Groups they are permissioned for.

**Note:** See the [List Grantee Groups](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAUTH Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

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

**Steps of the test: GET - Grantee Groups**

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 retrieve the Grantee Groups they are permissioned for.

Category	Value
GET Grantor Groups API URL	http://testapi.org/api/v1/entitlements/grantor-groups
GET Grantee Groups API URL	http://testapi.org/api/v1/entitlements/grantee-groups

**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 Submit a GET call to request a list of Grantor Groups your API has entitlements to.	●	Not Tested
2 Validate the Grantor Group ID.	●	Not Tested
3 Submit a GET call to request a list of Grantee Groups your Grantor Group has entitlements to.	●	Not Tested
4 Validate the first Grantee Group ID returned.	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

**REFRESH**

## ▶ GET - Grantee Groups test:

1. From the *Test Suite* tab, select **GET - Grantee Groups**, then select **START TEST**.
2. Submit a GET call to request a list of Grantor Groups your API has entitlements to.
3. Validate the Grantor Group ID.

**Note:** For additional details on Grantor Group tests (for steps 1-3), refer to [GET - Grantor Groups](#).

3. Submit a GET call to request a list of Grantee Groups your Grantor Group has entitlements to.
4. Validate the first Grantee Group ID returned.

## GET - Grantee Limits

The purpose of this verify that the client system can retrieve and set the limits for a grantee group for which they are permissioned.

**Note:** See the [List Grantee Group Limits](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAuth Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

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

**Steps of the test: GET - Limits**

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 retrieve and set the limits for a grantee group they are permissioned for.

Category	Value
GET Grantor Groups API URL	<input type="text" value=""/>
GET Grantee Groups API URL	<input type="text" value=""/>
GET Limits API URL	<input type="text" value=""/>

**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 Submit a GET call to request a list of Grantor Groups your API has entitlements to.	<input type="radio"/>	Not Tested
2 Validate the Grantor Group ID.	<input type="radio"/>	Not Tested
3 Submit a GET call to request a list of Grantee Groups your Grantor Group has entitlements to.	<input type="radio"/>	Not Tested
4 Validate the first Grantee Group ID returned.	<input type="radio"/>	Not Tested
5 Using the first Grantee Group retrieved from Step 4, submit a GET call to request the limits.	<input type="radio"/>	Not Tested
6 Validate the Daily Adjusted Value on the SPOT limit returned.	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

### ▶ To run a GET - Limits test:

1. From the *Test Suite* tab, select **GET - Grantee Limits**, then select **START TEST**.
2. Submit a GET call to request a list of Grantor Groups your API has entitlements to.
3. Validate the Grantor Group ID returned.

**Note:** For additional details on Grantor Group tests (for steps 1-2), refer to [GET - Grantor Groups](#).

4. Submit a GET call to request a list of Grantee Groups your Grantor Group has entitlements to.
5. Validate the first Grantee Group ID returned.

**Note:** For additional details on Grantee Group tests (for steps 3-4), refer to [GET - Grantee Groups](#).

6. Using the first Grantee Group retrieved from Step 4, submit a GET call to request the limits.
7. Validate the Daily Adjusted Value (DAV) on the SPOT limit returned.

# POST - Limits

The purpose of this verify that the client system can retrieve and set the limits for a grantee group they are permissioned for.

**Note:** See the [Update Grantee Group Limits](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAUTH Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

Interview Test Suite Test Case Post Certification Help

**Steps of the test: GET and POST - Limits**

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 retrieve and set the limits for a grantee group they are permissioned for.

Category	Value
GET Grantor Groups API URL	[Redacted]
GET Grantee Groups API URL	[Redacted]
GET Limits API URL	[Redacted]
POST Limits API URL	[Redacted]

**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 Submit a GET call to request a list of Grantor Groups your API has entitlements to.	●	Not Tested
2 Validate the Grantor Group ID.	●	Not Tested
3 Submit a GET call to request a list of Grantee Groups your Grantor Group has entitlements to.	●	Not Tested
4 Validate the first Grantee Group ID returned.	●	Not Tested
5 Using the first Grantee Group retrieved from Step 4, submit a GET call to request the limits.	●	Not Tested
6 Validate the Daily Adjusted Value on the SPOT limit returned.	●	Not Tested
7 Using the SPOT Daily Adjusted Value validated in step 6, Submit a POST call to increase this dav by 1,000.	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

REFRESH

**To run a POST - Limits test:**

1. From the *Test Suite* tab, select **POST - Grantee Limits**, then select **START TEST**.
2. Submit a GET call to request a list of Grantor Groups your API has entitlements to.
3. Validate the Grantor Group ID returned.

**Note:** For additional details on Grantor Group tests, refer to [GET - Grantor Groups](#).

4. Submit a GET call to request a list of Grantee Groups your Grantor Group has entitlements to.
5. Validate the first Grantee Group ID returned.

**Note:** For additional details on Grantee Group tests, refer to [GET - Grantee Groups](#).

6. Using the first Grantee Group retrieved from Step 4, submit a GET call to request the limits.
7. Validate the Daily Adjusted Value (DAV) on the SPOT limit returned.



**Note:** For additional details on Grantee Group limits, refer to [GET - Grantee Limits](#).

8. Using the SPOT Daily Adjusted Value validated in step 6, Submit a POST call to increase this DAV by 1,000.

## GET - List Prime Customers

The purpose of this verify that the client system can retrieve the list of prime customers they are permissioned for.

**Note:** See the [List Prime Customers](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAUTH Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

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

**Steps of the test: GET - List Prime Customers**

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 retrieve the list of prime customers they are permissioned for.

Category	Value
GET Prime Customers API URL	https://autocert.cmegroup.com/ebsrm/prime-customers

**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 Submit a GET call to request a list of prime customers your API has entitlements to.		Not Tested
2 Validate the first GFID that is returned.		Not Tested

Key: not tested complete pending failed

**REFRESH**

### To run a GET - List Prime Customers test:

1. From the *Test Suite* tab, select **GET - List Prime Customers**, then select **START TEST**.
2. Submit a GET call to request a list of prime customers your API has entitlements to.
3. Validate the first GFID that is returned.



## GET - Firm Status

The purpose of this verify that the client system can retrieve the tradeable status of a firm they permissioned for.

**Note:** See the [Get Firm Status](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAUTH Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

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

**Steps of the test: GET - Firm 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 retrieve the tradeable status of a firm they permissioned for.

Category	Value
GET Prime Customers API URL	http://testbed-integration-testbed.com:8080
GET Firm Status API URL	http://testbed-integration-testbed.com:8080

**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 Submit a GET call to request a list of prime customers your API has entitlements to.	<input type="radio"/>	Not Tested
2 Validate the first GFID that is returned.	<input type="radio"/>	Not Tested
3 Submit a GET call to request the trading status of the firm identified in step 2.	<input type="radio"/>	Not Tested
4 Provide the trading status of this firm.	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

### To run a GET - Firm Status test:

1. From the *Test Suite* tab, select **GET - Firm Status**, then select **START TEST**.
2. Submit a GET call to request the trading status of one of the firms your API has entitlements to.
3. Validate the first GFID that is returned.
4. Submit a GET call to request the trading status of the firm identified in step 2.
5. Provide the trading status of this firm.

## POST - Update Firm Status

The purpose of this verify that the client system can update the tradeable status of a firm they permissioned for.

**Note:** See the [Update Firm Status](#) message specification for more information.

1. Select an **API ID** and select **ASSIGN API ID**.
2. Enter an **OAUTH Token**.
3. Select **Assign API ID**.

**Note:** The Auth Token must be refreshed every 30 minutes.

The screenshot shows a web interface for configuring a test case. At the top, there are tabs for 'Interview', 'Test Suite', 'Test Case', 'Post Certification', and 'Help'. The 'Test Case' tab is active, showing the title 'Steps of the test: GET and POST - Update Firm Status'. Below the title, a 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 step1.' A 'Purpose' section contains the text: 'The purpose of this test is to verify that the client system can update the tradeable(kill/unkill) status of a firm they permissioned for.' A table lists the test steps with their categories and values. Below the table, a 'Note' says: '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.' There is a 'START TEST' button and a 'Test Not Running' indicator. At the bottom, a table shows the test steps with their descriptions, flags, and statuses. A 'REFRESH' button and a key are also visible.

Category	Value
GET Prime Customers API URL	[Redacted]
GET Firm Status API URL	[Redacted]
POST Firm Status API URL	[Redacted]

Description	Flag	Status
1 Submit a GET call to request a list of prime customers your API has entitlements to.	●	Not Tested
2 Validate the first GFID that is returned.	●	Not Tested
3 Submit a GET call to request the trading status of the firm identified in step 2.	●	Not Tested
4 Provide the trading status of this firm.	●	Not Tested
5 Using the same firm, change the firm status using a POST firmStatus call.	●	Not Tested
6 Confirm you properly received and processed a successful response for updating the Firm Status.	●	Not Tested

Key: ● not tested ● complete ● pending ● failed

### To run a POST - Update Firm Status test:

1. From the *Test Suite* tab, select **POST - Update Firm Status**, then select **START TEST**.
2. Submit a GET call to request a list of prime customers your API has entitlements to.
3. Validate the first GFID that is returned.
4. Submit a GET call to request the trading status of the firm identified in step 2.
5. Provide the trading status of this firm.

**Note:** Step 4 is only required for systems receiving Snapshot+Updates.

6. Using the same firm, change the firm status using a POST firmStatus call.
7. Confirm you properly received and processed a successful response for updating the Firm Status.