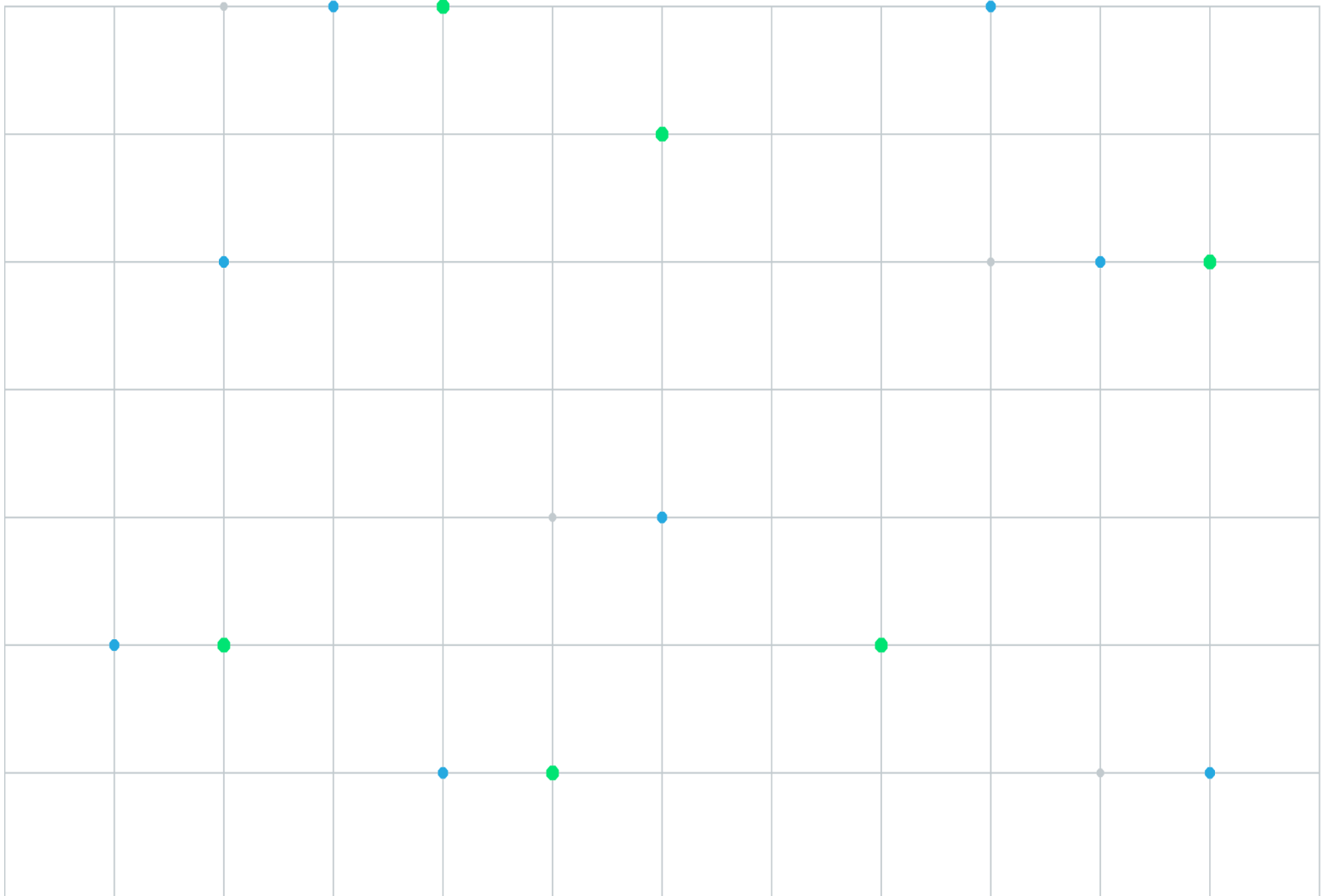


# AutoCert+ EBS Risk Management API User Manual

October 6, 2021



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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 Manager API

EBS Risk Manager 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 Manager 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.

- 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** and select **ASSIGN API ID**.

5. Enter an **OAUTH Token**.
6. Select **Assign API ID**.

The screenshot shows a configuration form titled "Current Test". It contains several dropdown menus and text input fields. The "Company Name" is set to "QA", "Market" to "EBS", "Purpose" to "EBS Risk Management API", "Application System" to an empty dropdown, and "Test Suite" to "EBS Risk Management API". Below these, the "API ID" field is empty with an orange "UNASSIGN" button next to it. The "Auth Token" field is also empty 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

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

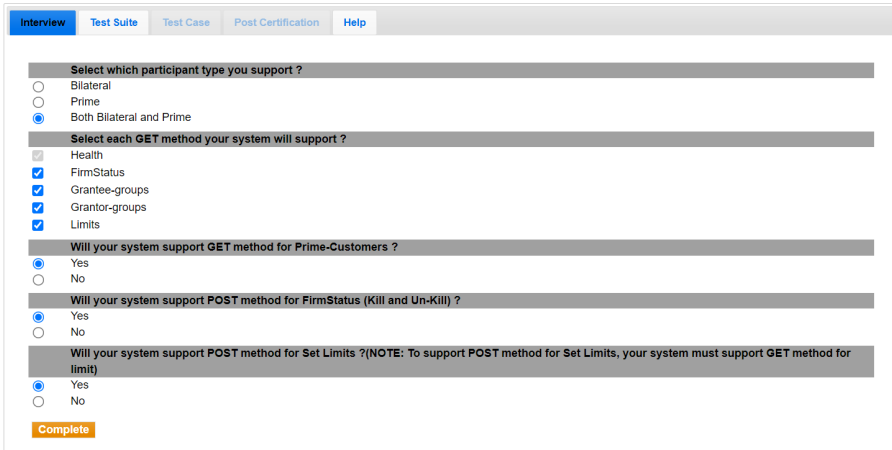
Date	Description
October 6, 2021	Initial release.

# 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.



The screenshot shows a web interface for the interview. At the top, there are navigation tabs: Interview (selected), Test Suite, Test Case, Post Certification, and Help. Below the tabs are several questions with radio buttons and checkboxes.

**Select which participant type you support ?**

- Bilateral
- Prime
- Both Bilateral and Prime

**Select each GET method your system will support ?**

- Health
- FirmStatus
- Grantee-groups
- Grantor-groups
- Limits

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

- Yes
- No

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

- Yes
- No

**Will your system support POST method for Set Limits ?(NOTE: To support POST method for Set Limits, your system must support GET method for limit)**

- Yes
- No

At the bottom left, there is a **Complete** button.

# Certification Tests

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

## GET - Health Check

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

**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.

The screenshot shows the 'Test Case' tab in the AutoCert+ interface. The title is 'Steps of the test: GET - Health Check'. Below the title, there is a warning: '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.' The 'Purpose' section states: 'The purpose of this test is to ensure proper health checks can be sent and received.' A red instruction reads: 'Please assign a Sendercomp ID and make sure a valid contract is selected to start certifying a test.' A table lists the test steps:

Description	Flag	Status
1 Submit a GET call to request the API health status.		Not Tested
2 Validate the health status returned.		Not Tested

Key: not tested complete pending failed

A 'REFRESH' button is visible at the bottom left of the test case details.

### ▶ To run a GET - Health Check test:

1. Submit a GET call to request the API health status.
2. 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.

The screenshot shows the 'Test Case' tab in the AutoCert+ interface. The title is 'Steps of the test: GET - Grantor Groups'. Below the title, there is a warning: '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.' The 'Purpose' section contains the text: 'The purpose of this verify that the client system can retrieve the Grantor Groups they are permissioned for.' Below this, a red message states: 'Please assign a Sendercomp ID and make sure a valid contract is selected to start certifying a test.' A table with columns 'Description', 'Flag', and 'Status' lists two test steps. Step 1 is 'Submit a GET call to request a list of Grantor Groups your API has entitlements to.' and Step 2 is 'Validate the Grantor Group ID.' Both steps have a 'Flag' of a grey circle and a 'Status' of 'Not Tested'. A 'REFRESH' button is located at the bottom left. A key at the bottom indicates: 'Key: not tested (grey circle), complete (green circle), pending (yellow circle), failed (red circle)'.

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

### ▶ GET - Grantor Groups test:

1. Submit a GET call to request a list of Grantor Groups your API has entitlements to.
2. Validate the health status returned.

## 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 step 1.

**Purpose**  
The purpose of this test is to verify that the client system can retrieve the Grantee Groups they are permissioned for.

Please assign a Sendercomp ID and make sure a valid instrument is selected to start certifying a test.

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

Description	Flag	Status
1 Submit a GET call to request a list of Grantee Groups your API has entitlements to.	<input type="radio"/>	Not Tested
2 Validate the first Grantee Group ID returned.	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

### ▶ GET - Grantee Groups test:

1. Submit a GET call to request a list of Grantee Groups your API has entitlements to.
2. Validate the health status 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 permitted.

**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 step1.

**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 permitted for.

Description	Flag	Status
1 Submit a GET call to request a list of Grantee Groups your API has entitlements to.	<span style="color: green;">●</span>	Complete
2 Retrieve the list of grantee groups.	<span style="color: green;">●</span>	Complete
3 Using the first Grantee Group retrieved from Step 2, submit a GET call to request the limits.	<span style="color: green;">●</span>	Complete
4 Validate the first set of limits returned.	<span style="color: green;">●</span>	Complete

Key: ● not tested ● complete ● pending ● failed

**REFRESH**

### ▶ To run a GET - Limits test:

1. Submit a GET call to request a list of Grantee Groups your API has entitlements to.
2. Validate the first Grantee Group ID returned.
3. Retrieve the list of grantee groups.
4. Validate the first set of limits 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: 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 step1.

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

Please assign a Sendercomp ID and make sure a valid contract is selected to start certifying a test.

Description	Flag	Status
1 Submit a GET call to request a list of Grantee Groups your API has entitlements to.	<input type="radio"/>	Not Tested
2 Retrieve the list of grantee groups and verify the first Grantee GroupID.	<input type="radio"/>	Not Tested
3 Using the first Grantee Group retrieved from Step 2, submit a GET call to request the limits.	<input type="radio"/>	Not Tested
4 Validate the defaultLimit on the first set of limits returned.	<input type="radio"/>	Not Tested
5 Using the defaultLimit validated in step 4, Submit a POST call to increase this defaultLimit by 1,000.	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

### ▶ To run a POST - Limits test:

1. Submit a GET call to request a list of Grantee Groups your API has entitlements to.
2. Retrieve the list of grantee groups and verify the first Grantee GroupID.
3. Using the first Grantee Group retrieved from Step 2, submit a GET call to request the limits.
4. Validate the defaultLimit on the first set of limits returned.
5. Using the defaultLimit validated in step 4, Submit a POST call to increase this defaultLimit by 1,000.

## 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.

**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 step1.

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

Please assign a Sendercomp ID and make sure a valid contract is selected to start certifying a test.

Description	Flag	Status
1 Submit a GET call to request the trading status of one of the firms your API has entitlements to.		Not Tested
2 Provide the trading status of this firm.		Not Tested

Key: not tested complete pending failed

**REFRESH**

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

1. Submit a GET call to request the trading status of one of the firms your API has entitlements to.
2. 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.

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

**Steps of the test: POST - Update 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 step1.

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

Please assign a Sendercomp ID and make sure a valid contract is selected to start certifying a test.

Description	Flag	Status
1 Submit a GET call to request the trading status of one of the firms your API has entitlements to.	<input type="radio"/>	Not Tested
2 Provide the trading status of this firm.	<input type="radio"/>	Not Tested
3 Using the same firm, change the firm status using a POST firmStatus call.	<input type="radio"/>	Not Tested
4 Confirm you properly received and processed a successful response for updating the Firm Status.	<input type="radio"/>	Not Tested

Key:  not tested  complete  pending  failed

**REFRESH**

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

▶ **To run a POST - Update Firm Status test:**

1. Submit a GET call to request the trading status of one of the firms your API has entitlements to.
2. Provide the trading status of this firm.
3. Using the same firm, change the firm status using a POST firmStatus call.
4. Confirm you properly received and processed a successful response for updating the Firm Status.

## 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.

The screenshot shows the 'Test Case' configuration page in the AutoCert+ application. The page title is 'Steps of the test: GET - List Prime Customers'. Below the title, there is a warning message: '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.' The 'Purpose' section contains the text: 'The purpose of this verify that the client system can retrieve the list of prime customers they are permissioned for.' Below this, there is a red instruction: 'Please assign a Sendercomp ID and make sure a valid contract is selected to start certifying a test.' A table with two columns, 'Description' and 'Status', lists two test steps. Step 1 is 'Submit a GET call to request a list of prime customers your API has entitlements to.' and Step 2 is 'Validate the first GFID that is returned.' Both steps have a 'Not Tested' status. A 'REFRESH' button is located at the bottom left of the table. A key at the bottom right indicates the status colors: grey for 'not tested', green for 'complete', yellow for 'pending', and red for 'failed'.

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

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

1. Submit a GET call to request a list of prime customers your API has entitlements to.
2. Validate the first GFID that is returned.