

# CUSTOMS

Message exchange testing service

Customer instruction

tulli.fi

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## **Manual for the message exchange testing service**

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## 1. Introduction

The message exchange testing service enables Customs' customers to do direct message exchange testing independently irrespective of time and place. The customers are able to test their own systems against the Customs interface and to verify that their systems can correctly produce the messages to be sent to Customs and handle the reply messages from Customs. The message exchange testing service automatically performs the actions that an official earlier had to perform manually, and in the service, the customers always see the progress of their test in real time.

On the start page of the test automation application, there are info links to direct message exchange manuals and general instructions on message exchange testing.

## 2. Required equipment and software

The customer interface of the test automation service can be used with the following browsers and operating systems:

Browsers: Firefox, Chrome

Operating systems: Windows, Mac OS

In addition to the user interface, the testing requires the customer's own system for generating and receiving messages via the Web Service interface for direct message exchange to the customer environment of the actual business application. The instructions on each test case specify what the message to be sent must contain and how its reception is checked.

## 3. Presentation of the test automation

### Logging in

Using the message exchange testing service requires identification.

You can now use Suomi.fi identification to log in to the service. The Suomi.fi mandate code used in this service is "Message exchange with Customs". In the message exchange testing service, the company tests its own message exchange, and the mandate to represent is not used in the service.

You will get to the testing service from our website <https://tulli.fi/en/businesses/services-for-businesses/message-exchange/instructions-for-testing>

**GO TO THE MESSAGE EXCHANGE TESTING SERVICE**

On that page, there is the button

## Instructions for testing

Before starting to use message exchange, the company must test the functionality of its software with Customs and that the messages the software produces conform to Customs' specifications. At the same time, the data communication links are also tested. When the company's application has been processed, Customs will contact the company to arrange a consultation and to set the dates for the testing. The company is to build its own declaration system independently based on Customs' message implementing guidelines.

During the testing, the company submits declaration messages with varying data content (for example complete or amended declarations or additional information), to which Customs then responds with messages (acceptance, error, request for additional information, etc.). The company must respond to the reply messages as required, for example by correcting errors or sending additional information.

The company is to reserve an uninterrupted work period of three to five weeks for the customer testing. The duration of the testing depends on the system to be tested, the number of messages to be submitted and the content of the declarations.

After successfully completing the testing phases, the company will receive the decision on message exchange registration and can enter the production phase of message exchange on the date specified in the decision. If the time reserved for testing is exceeded, the testing will be interrupted and the company must schedule a new time for the testing. This may mean postponing the final testing considerably.

## Completing the testing

### Technical testing of the connection

Before the actual system testing, the company applying for message exchange must test the connection via a public message interface from the company's system to Customs' message interface. If the company or the service provider used by the company has carried out the technical testing of the connection earlier, no new testing is needed.

The technical testing of the connection for message exchange consists of three test cases (four if the customer starts using the message notification service). The connection is working if the message exchange web service reports the receipt of the customer's message. In addition, the customer has to be able to retrieve the response notification from the Customs message storage. The content of the response notification (acceptance, rejection etc.) is irrelevant for the testing of the connection.

### Customer testing in the Message exchange testing service

The purpose of customer testing is to ensure that the customer's system generates the declaration messages to be sent to Customs correctly and processes the response notifications from Customs correctly.

In the Message exchange testing service, the company tests message exchange declarations independently using the test cases specified by Customs. In the testing service, the testing official determines the testing period for the company as well as the test cases that the company must complete to pass the testing. The testing service carries out all the measures required for the testing and guides the customer during the testing.

[GO TO THE MESSAGE EXCHANGE TESTING SERVICE](#)

[More information about the Message exchange testing service](#)



### Manual customer testing

Some of the test cases in customer testing are conducted with the Customs testing official, so that the testing official manually verifies that the messages are correct. As a rule, the testing is carried out using the test cases provided by Customs, but in certain special cases, the customer's own declaration material can be used in manual system testing. The testing official will tell in which situations it is possible to use the customer's own testing material.

#### Services for businesses

E-services

#### Message exchange

How to apply for message exchange customer status

#### Instructions for testing

For software developers

How to identify yourself

Codes used in customs declarations

Fallback procedures

The service will move you automatically to the login page. After identification, confirm the transfer to the message exchange testing service.

## Company selection for message exchange testing service

You are about to log in to the message exchange testing service as XXXXXXXXXXXXXXXXXXXX  
(FI1234567-8)

Return to online services

Log out

Continue to message exchange testing service

**Note!** The user interface login will be active for 60 minutes. If the user doesn't perform any functions during this time, they will be automatically logged out. For security reasons the user interface will only work on one tab at a time, and it won't open in other browsers or on other tabs, neither via links. If the session times out, the user has to log in again to continue.

## Language

- You can select the user interface language (Finnish, Swedish or English) from the top right corner of the page.



## Navigating the user interface

- You can navigate between the start page and the Test cases page using the arrows on top of the page.

## Start page

On this page, you see a summary of the overall test situation. The statuses of the test cases marked as mandatory for your company have been grouped according to application.

- When you want to begin testing, click **START TESTING**.

- The **TEST REPORT** button opens a printer friendly report of the test status in PDF format. This is not an official test report. You will get the official test report from Customs after the mandatory customer tests have been carried out.
- The **UPDATE** button updates the statuses of the test cases.
- In the More information box, there are links to other Customs pages related to direct message exchange. Here you will also find the manual for the message exchange testing service.
- The **LOGGING OUT** button ends the session.

### Test case statuses:

- **SUCCESSFUL** - The test case has been run according to the instructions, and the test automation has checked the results.
- **DISCONTINUED** – The test case has been started, but the user has discontinued it in order to complete it later.
- **IN PROCESS** – The test case has been started in the application, it has not been interrupted and it hasn't yet been completed.
- **CANCELLED** – The run of the test case has been cancelled – the case has returned to the original state.
- **NOT STARTED** – The test cases haven't yet been started.
- By clicking **CONFIRM** you confirm that you have completed the test cases. Do not confirm the testing until you have completed all the mandatory test cases.

### The test cases page

To run the test cases, go to the Entity menu and first select for example Export and then from the Group menu for example Export declaration. You can select the group from the drop-down

menu or from the tab bar. As standard, test cases with all statuses are shown. You can specify your search so that only test cases with a specific status, for example “Successful”, are shown.

The statuses of the individual test cases are shown on the Test cases page.

**★Mandatory** means that your company must run this test case. Unmarked tests are optional and will not affect the approval.

The info link [Information to be reported](#) of the test case takes you to more specific instructions on the message to be sent to the customer testing environment.

By selecting [SEE RESULTS](#) you can see all the transactions you have tested with this test case.

By clicking **START** you can start the test case. If the test case is in process, the button has the text **CONTINUE**.

#### 4. Running the test cases

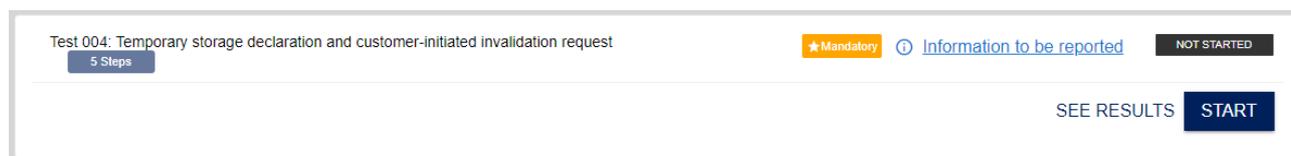
When you have selected the test group, read the instruction concerning the group. You'll find the instruction for each case by clicking [Information to be reported](#). When you are ready to start running a test case, select **START** and follow the the instructions given by the automation.

The number of test steps and the test step in process are shown on the page for test case runs under the headline for each test case. It is possible for the testing official at Customs to follow the progress of the testing in real time.

#### Starting a test case

Select a test case to start testing:

- Click **START** in the test case run view.



**Note!**The test cases must be run one at a time, from beginning to end, so that a successful testing can be reliably verified.

#### Running a test step

Test 004: Temporary storage declaration and customer-initiated invalidation request ★Mandatory ⓘ Information to be reported IN PROCESS

5 Steps

Please send a temporary storage declaration message accordant with test case 4.

CANCEL DISCONTINUE NEXT

Follow the instruction for the test step. The instruction may e.g. ask you to send a message to Customs' test environment or to check in your own system that you have received the response messages from Customs.

When you have followed the instruction, click **NEXT** or **CHECK**, depending on the step.

Test 004: Temporary storage declaration and customer-initiated invalidation request ★Mandatory ⓘ Information to be reported IN PROCESS

1 / 5 Steps

Enter the MRN in the field and click on "Check".

\*

CANCEL DISCONTINUE CHECK

Test 004: Temporary storage declaration and customer-initiated invalidation request ★Mandatory ⓘ Information to be reported IN PROCESS

1 / 5 Steps

Enter the MRN in the field and click on "Check".

\*

⚠ Please wait, the message is being checked. This may take several minutes. Please do not exit the test case.

CANCEL DISCONTINUE CHECK

Test 004: Temporary storage declaration and customer-initiated invalidation request ★Mandatory ⓘ Information to be reported IN PROCESS

2 / 5 Steps

You have received a registration notification. Please send an Invalidation request with code N to request for invalidation.

CANCEL DISCONTINUE NEXT

Test 004: Temporary storage declaration and customer-initiated invalidation request  
3 / 5 Steps
★ Mandatory
Information to be reported
IN PROCESS

**Enter in the field the MRN that you have received from temporary storage declaration and click on "Check".**

24FIE41000038201U9 ★

CANCEL
DISCONTINUE
CHECK

Test 004: Temporary storage declaration and customer-initiated invalidation request  
3 / 5 Steps
★ Mandatory
Information to be reported
IN PROCESS

**Enter in the field the MRN that you have received from temporary storage declaration and click on "Check".**

24FIE41000038201U9 ★

⚠ Please wait, the message is being checked. This may take several minutes. Please do not exit the test case.

CANCEL
DISCONTINUE
CHECK

Enter the MRN without spaces.

When the test automation is checking the test case, you will see a blue bar moving back and forth. Wait for the results until the automation has stopped and the bar has disappeared from the view. The processing may take several minutes.

In some of the test cases, you have to confirm the receipt of messages and attachments before the test case run can be considered successful. Check in your own system that you have done that. If all the messages and attachments are not marked as confirmed, an error message will appear on the bottom of the page.

Test 004: Temporary storage declaration and customer-initiated invalidation request  
4 / 5 Steps
★ Mandatory
Information to be reported
IN PROCESS

**Confirm the reply messages and PDF files you have received.**

- Registration notification (REK) response to temporary storage declaration FI337 ★
- Registration notification (REK) response to invalidation request FI314 ★
- Invalidation message (MIT) ★
- Decision on invalidation (PDF) ★

CANCEL
DISCONTINUE
CONFIRM

Test 004: Temporary storage declaration and customer-initiated invalidation request ★ Mandatory ⓘ Information to be reported IN PROCESS

4 / 5 Steps

**Confirm the reply messages and PDF files you have received.**

- Registration notification (REK) response to temporary storage declaration FI337 \*
- Registration notification (REK) response to invalidation request FI314 \*
- Invalidation message (MIT) \*
- Decision on invalidation (PDF) \*

CANCEL DISCONTINUE CONFIRM

The details of each test step are saved in the test case results.

## End of the test case

After the successful completion of the last test step the test case has the status **SUCCESSFUL** and the test log of the latest run is shown.

Test 004: Temporary storage declaration and customer-initiated invalidation request ★ Mandatory ⓘ Information to be reported SUCCESSFUL

5 Steps

Test log CLOSE RESULTS START

📅 15.03.2024 12:35

- Confirmation on the receipt of messages and attachments  
 15.03.2024 12:35
 

- Registration notification (REK) response to temporary storage declaration FI337
  - Registration notification (REK) response to invalidation request FI314
  - Invalidation message (MIT)
  - Decision on invalidation (PDF)
- Check of an invalidation request  
 15.03.2024 12:33
 

mrn  
 24FIE41000038201U9
- Receipt of message  
 15.03.2024 12:27
 

mrn  
 24FIE41000038201U9

Clicking the arrow in the top right corner will reduce the test result window.

## Checking the results later

If the test case has been completed, the details of the test step runs can be viewed later in the log:

- Click **SEE RESULTS**.

Test 004: Temporary storage declaration and customer-initiated invalidation request  
5 Steps

★Mandatory ⓘ Information to be reported SUCCESSFUL

SEE RESULTS START

## Ending a mandatory test

When you have completed all the mandatory test cases of the test group, confirm the testing by clicking **CONFIRM RESULTS**. Information about the completed testing is transmitted to the testing official, who will accept or reject the it.

Temporary storage  
Testing period: A testing period has not been set

1 0 2 0 9

CONFIRM RESULTS

Temporary storage  
Testing period: A testing period has not been set

1 0 2 0 9

CONFIRM RESULTS

If the testing is accepted, the official will notify the customer of it.

## Cancelling, discontinuing and continuing a test case run

- **DISCONTINUE** discontinues the test case run. The test case status is saved in the test system and you can continue testing from the same test step later. On the start page of discontinued test cases, there is the text **CONTINUE** instead of **START**. In order to ensure test results, do not start running another test case if you have one discontinued test case. The test cases must be run one at a time, from beginning to end.
- **CANCEL** – The test case returns to the original state, and you can start running the test case from the beginning.
- **CONTINUE** – The test case continues running from the point where it was discontinued.

Test 004: Temporary storage declaration and customer-initiated invalidation request  
2 / 5 Steps

★Mandatory ⓘ Information to be reported IN PROCESS

You have received a registration notification. Please send an Invalidation request with code N to request for invalidation.

CANCEL DISCONTINUE NEXT



status **CONFIRMED**. Tests not marked as mandatory can be run even if the testing official has not accepted the testing yet.

If the Customs testing official accepts the confirmed tests as completed, they are shown on the start page with the status **ACCEPTED**. The testing official also notifies the customer separately of the accepted tests.

If the Customs testing official notices flaws in the test runs, they may return the tests to be run again. Returned tests must be run and confirmed again.

In matters concerning testing, you can contact the testing official: [ututesti@tulli.fi](mailto:ututesti@tulli.fi)