

# **PUBLIC INTERFACE TESTING (PIT)**

## **TRADER SUPPORT GUIDE**

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## 1. What is PIT?

Customs Public Interface Testing (PIT) environments are designed to provide a test platform for software developers and their customers to submit test declarations and queries to a wide range of test Customs ROS Web Services. The PIT environments mimic services currently available in the live environment or planned to be released to the live environment.

The PIT facility is provided at two different software levels (accessible once you have registered for a Pit Digital Certificate):

- The **Live Level PIT 3** uses the same software version as the customs production systems. This version should be used if you are developing software that will be compatible with forms and services already released live by Revenue.

<https://softwaretest.ros.ie/customs/service/ManifestDeclaration>

<https://softwaretest.ros.ie/customs/service/ManifestCancellation>

<https://softwaretest.ros.ie/customs/service/ManifestAmendment>

<https://softwaretest.ros.ie/customs/service/SadFile>

<https://softwaretest.ros.ie/customs/service/EdeFile>

<https://softwaretest.ros.ie/customs/service/EntrySummaryDeclaration>

- The **Development Level PIT 4** version includes new software that is still under development and which has not as yet been released to production. You should use this version only if you are developing software that will be compatible with a future release of ROS. This environment is only available for a defined period prior to the introduction of new functionality. The Soap Web Services endpoints can be accessed via the following URL's.

<https://softwaretestnextversion.ros.ie/customs/service/ManifestDeclaration>

<https://softwaretestnextversion.ros.ie/customs/service/ManifestCancellation>

<https://softwaretestnextversion.ros.ie/customs/service/ManifestAmendment>

<https://softwaretestnextversion.ros.ie/customs/service/SadFile>

<https://softwaretestnextversion.ros.ie/customs/service/EdeFile>

<https://softwaretestnextversion.ros.ie/customs/service/EntrySummaryDeclaration>

## 2. PIT Helpdesk

To support developers and testers through the PIT process, Revenue has provisioned a dedicated online PIT Helpdesk. By using the PIT Helpdesk developers and testers can:

- Notify Revenue of their interest in public interface testing
- Raise and track ticketed queries
- Apply for a Test ROS Digital Certificate

Logging into the PIT Helpdesk is a two-step verification process requiring the interested developer/tester to have:

- A valid email address
- A smart device installed with Google Authenticator

Please note that images used throughout this document are broadly indicative of the final product but may be subject to change.

This helpdesk is hosted in the cloud and is not suitable for sensitive data, such as data taken from live systems which relates to real transactions, persons or organisations. For issues relating to live data or systems, please contact the appropriate live support services.

### 3. PIT Helpdesk Registration

Developers/testers can register for the PIT Helpdesk by completing a short online form available at:  
Url: <https://revenuehelpdesk.configure.net /portal/revenueie/register.html>

The screenshot shows a registration form titled "New User Registration" for the "Revenue Public Interface Test Environment". The Revenue logo is in the top left. A dark green bar contains the text "PLEASE ENTER YOUR DETAILS". The form fields are:

- First name \*
- Last name \*
- E-mail \*
- Company / Business Name \*
- Business Address \*
- Tax Reference/VAT Number \*
- Contact Phone Number \*
- Software Product Details \*
- System to be tested in PIT \*

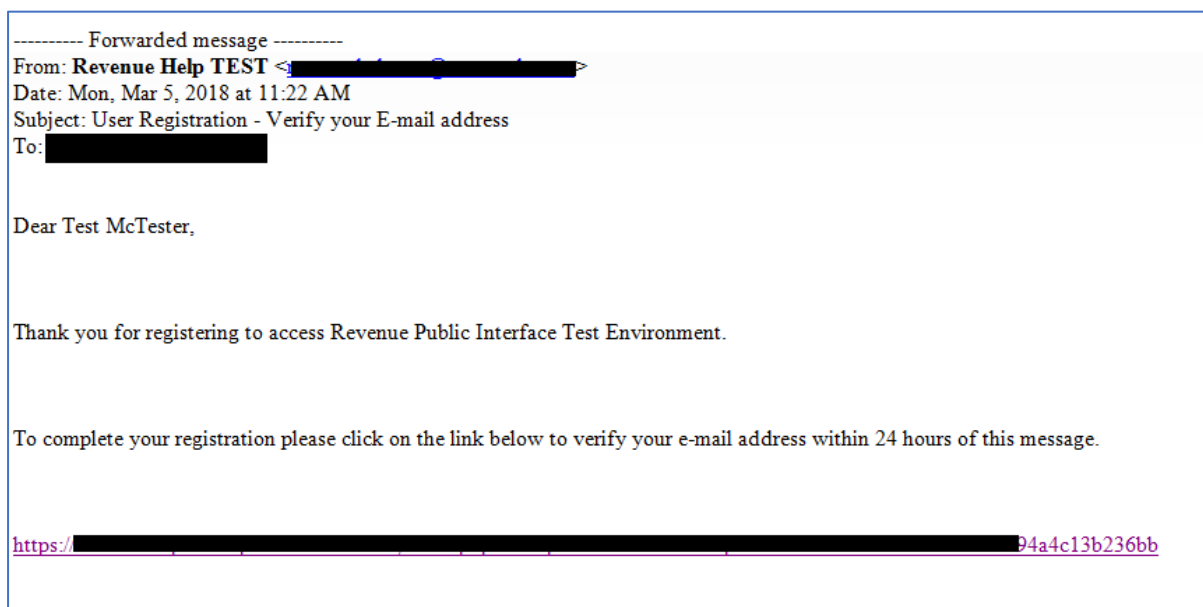
Below the fields is a disclaimer: "This Help Desk is provided by Revenue for the support of Public Interface Testing (PIT) using Revenue's dedicated PIT environments. Neither this Help Desk nor the PIT environments are intended to hold sensitive data, such as personal or customer-related data from live systems." Below the disclaimer is a checkbox for "I acknowledge the above and undertake not to submit such data through this Help Desk." At the bottom is a reCAPTCHA widget with the text "I'm not a robot" and a "SUBMIT" button. A note below the button says "After submitting check your e-mail for confirmation".

Figure 1 New User Registration screen

The information supplied under the 'Company/Business Name' field will be used by Revenue to group users belonging to the same Business/Company together. Users belonging to the same group will have access to each other's queries raised through the PIT Helpdesk<sup>1</sup>.

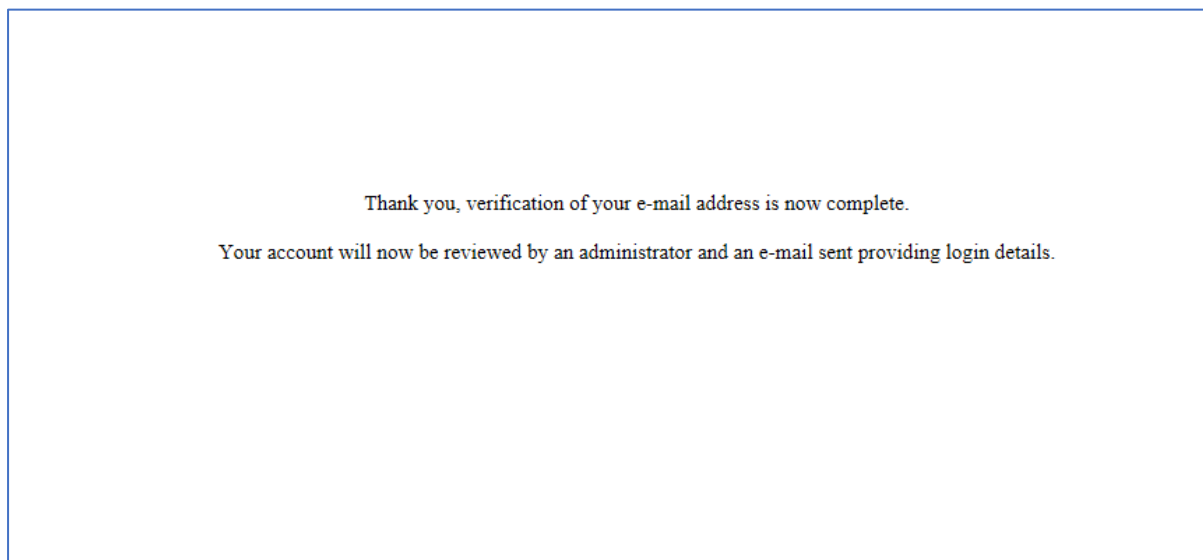
Upon successful completion of the form, the developer/tester will receive an initial verification email.

**Note:** Email clients may treat an initial email from the Helpdesk as spam so please check spam folders if expected email has not arrived.



**Figure 2 Email Verification**

Clicking on the link will present the developer/tester with the following message:



**Figure 3 Email successfully verified**

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<sup>1</sup> As part of reviewing pending registrations Revenue will not associate a registration with a particular business/company group until it has verified that this is allowed by the business/company.

At this point in the process Revenue will be alerted to the registration request and will review the supplied registration details before associating the registration with the specified company/business group and activating access to the Helpdesk.

The developer/tester will be notified of successful registration by email which will include instructions on how to complete the process and log in to the Helpdesk:

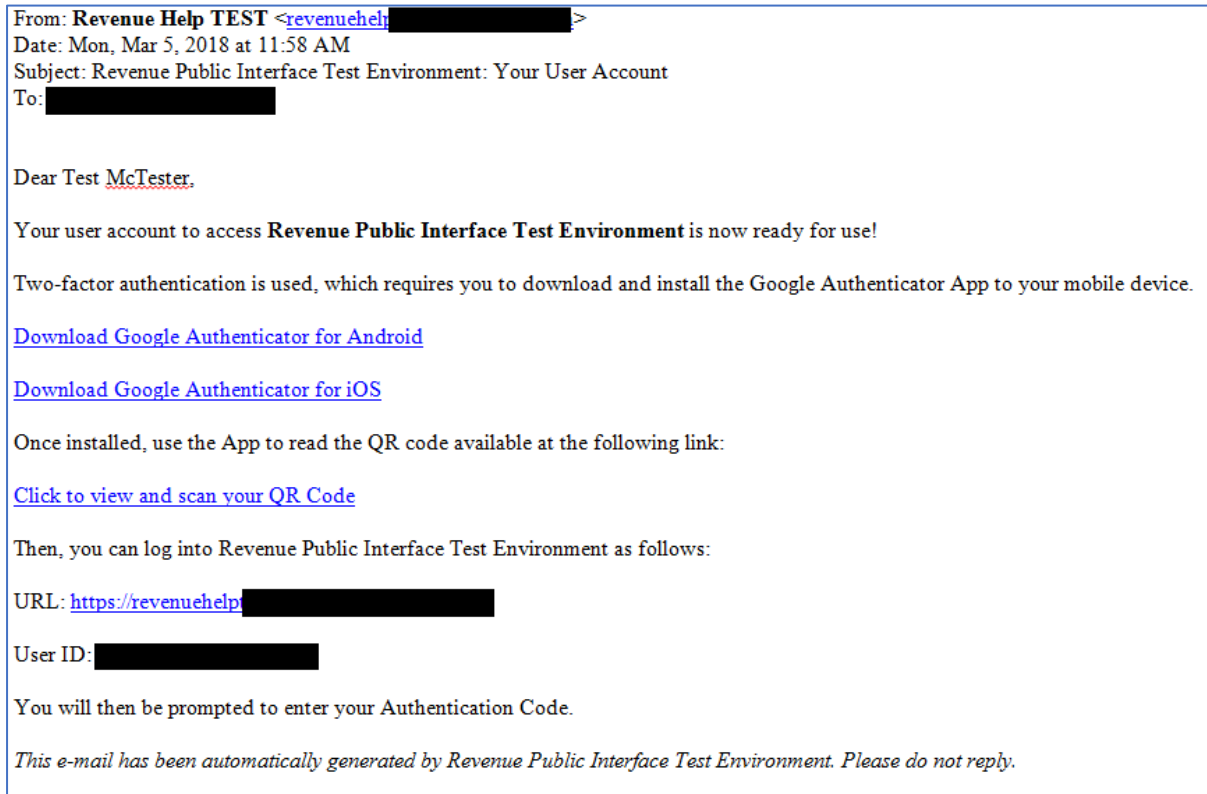
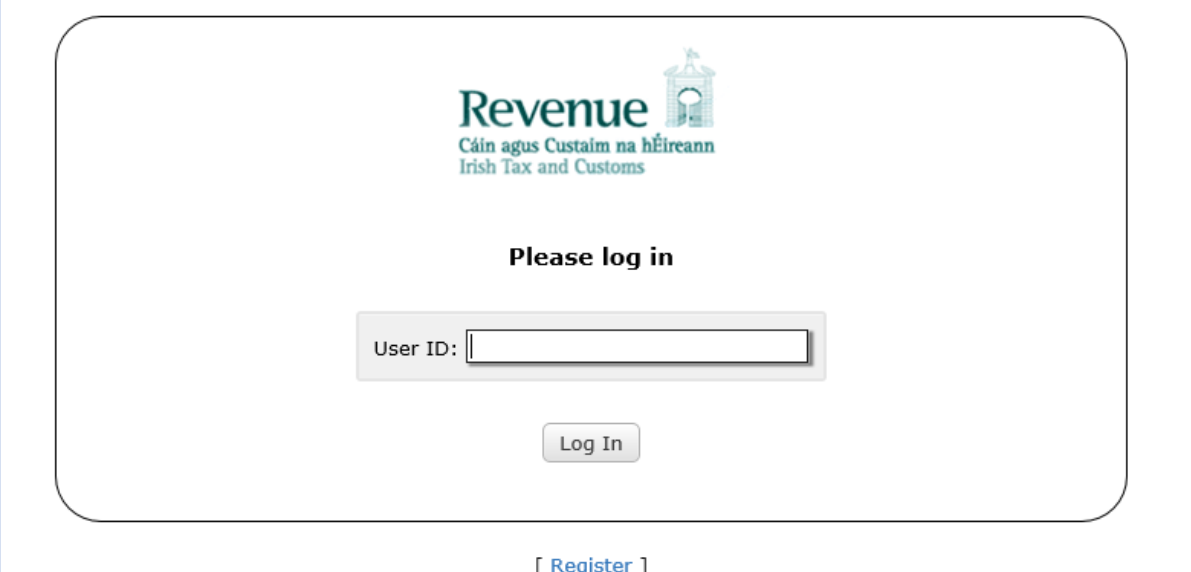


Figure 4 Login instruction email

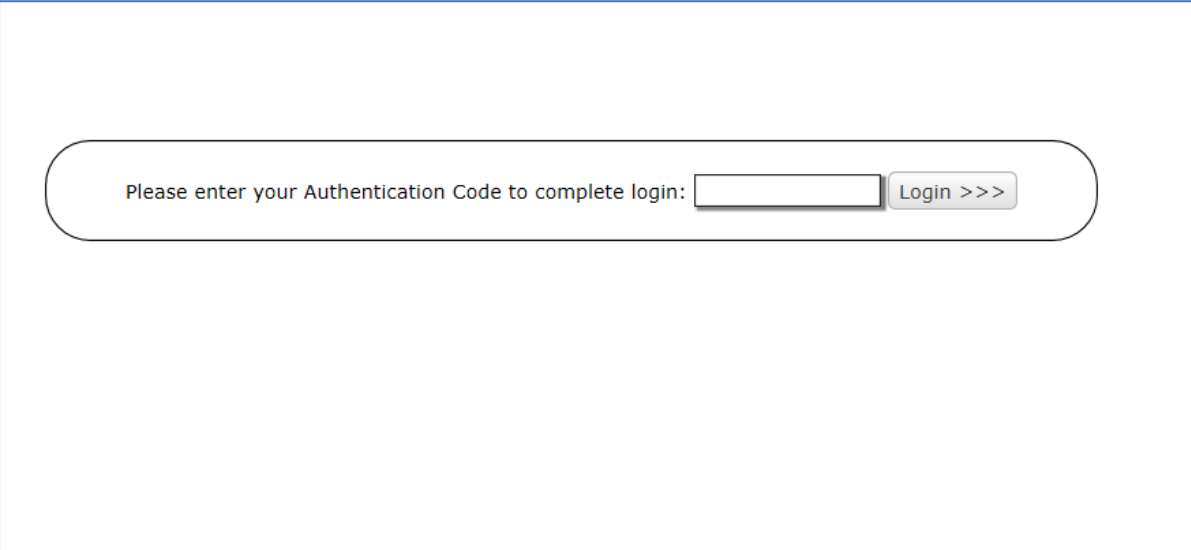
## 4. Raising and Tracking Queries on PIT Helpdesk

To raise a PIT related query the developer/tester must first log into the Helpdesk using the email address specified at registration time and the associated code from Google Authenticator



The screenshot shows the Revenue login interface. At the top center is the Revenue logo, which includes the text "Revenue" in a large green font, "Cáin agus Custaim na hÉireann" in a smaller green font, and "Irish Tax and Customs" in a smaller black font. Below the logo is the instruction "Please log in" in bold black text. Underneath this is a form with a label "User ID:" followed by a text input field. Below the input field is a "Log In" button. At the bottom center of the form area is a blue link labeled "[ Register ]".

Figure 5 Login with email



The screenshot shows a screen for entering a Google Authenticator code. It features a rounded rectangular container with the text "Please enter your Authentication Code to complete login:" followed by a text input field. To the right of the input field is a button labeled "Login >>>".

Figure 6 Enter Google Authenticator code

Upon successful login the developer/tester can view their open/ resolved tickets on the dashboard screen:

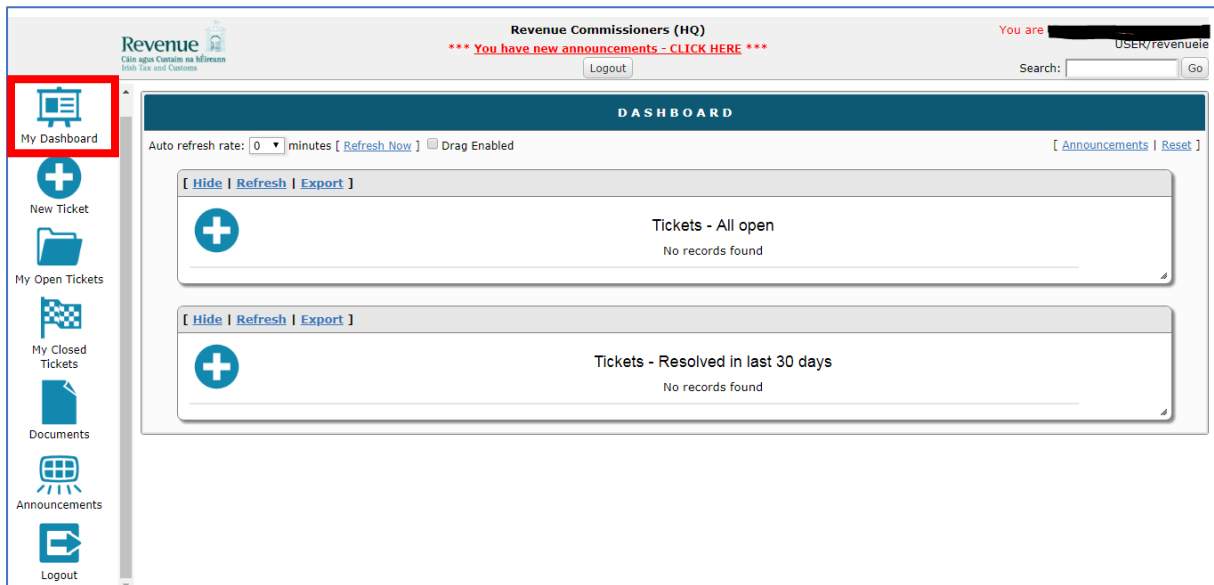


Figure 7 PIT Helpdesk Dashboard

The developer/tester can raise a new query by clicking on the 'New Ticket' icon available in the left-hand bar. The developer/tester can supply the details of their query and attach any supporting files, as shown below:

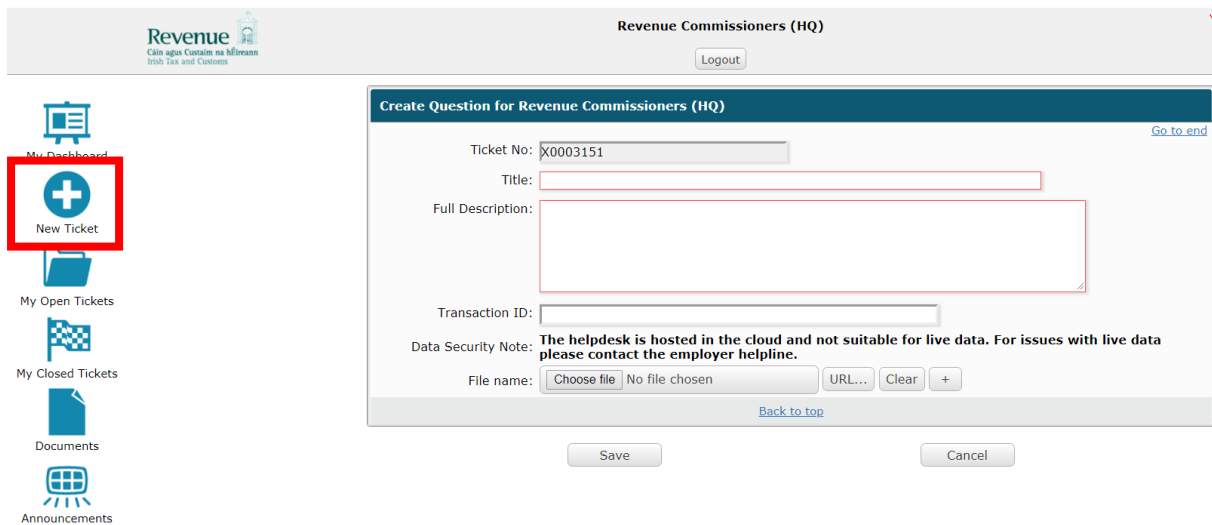


Figure 8 Raising a query

On saving the query the developer/tester will receive an email receipt including the ticket number for tracking purposes.



The developer/tester can view the status of their open queries by clicking on the 'My Open Tickets' icon available in the left hand bar:

Revenue Commissioners (HQ) You are impersonating U

Logout Search:

[Back to dashboard](#)

Call results for view: **End User - Open Tickets** Create >>

Criteria: Created By = 'me' or Customer = 'mine' 1 record found [ Refresh ]

X	Ticket No	Title	Description	Created By	Created Date	Modified Date	Type	Status
<input type="checkbox"/>	#X0003153	C&E Question	C&E Question	#C&E Tester	Tue, 12 Mar 2019 17:46	Tue, 12 Mar 2019 17:46	Question	New

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**Figure 9 My Open Tickets**

The developer/tester will only be able to see tickets raised by themselves and those tickets associated with their company/business group.

On resolution of the query or if further information is required, the developer/tester will receive an email notification with the details. The same information will also be available from within the tool itself:

Revenue Commissioners (HQ) You are impersonating USE

Logout Search:

[Back to dashboard](#)

Call results for view: **End User - Closed** Create >>

Criteria: Closed = 'Y' and Created By = 'me' or Customer = 'mine' 1 record found [ Refresh ]

X	Ticket No	Title	Description	Created By	Created Date	Resolution Description	Date Resolved	Closed Date	Type	Status
<input type="checkbox"/>	#X0003153	C&E Question	C&E Question	#C&E Tester	Tue, 12 Mar 2019 17:46	Resolved	Wed, 13 Mar 2019 15:18	Wed, 13 Mar 2019 15:18	Question	Resolved

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**Figure 10 Resolved queries**

## 5. Accessing Test Digital Certificate via PIT Helpdesk

Any Customs web service request that either returns confidential information or accepts a submission of information must be digitally signed. This must be done using a digital certificate that has been previously retrieved from ROS. The digital signature must be applied to the message in accordance with the WS-Security specification.

A PIT Digital Certificate is only required when testing online or using the Web Service Test Facility. You should not apply for a digital certificate unless you wish to begin PIT testing. To apply, please raise a ticket via PIT Helpdesk providing the following information:

- Company name
- VAT number
- Contact name and number
- Contact Email address
- Web Services to be tested
- PIT Environment Requested (PIT 3 or PIT 4)

**Note:** A separate digital certificate is required for each of the above-mentioned PIT levels.

## 6. Revenue On-line Service

**Revenue On-line Service (ROS)** is the method by which Revenue is delivering its interactive customer services electronically to the customer. The PIT ROS Web Services can be used to submit Customs messages to Irish Customs. The contents of the body of the web service message will be in XML or Edifact format. If successful, the message will be processed and a response message will be placed in the customer's mailbox. The synchronous response message will be a Message Acknowledgement.

The response messages will be placed in the customer's mailbox and the trader will use the Mailbox web services to retrieve these responses.

The Web Services for the Customs messages are described through WSDL files and the schemas for each message. The following are the type of message that can be forwarded through the web service:

- o Customs Declarations (XML & Edifact)
- o Manifest Declarations (XML)
- o Enquiry Request (XML & Edifact)
- o Mailbox Collect Request (XML)
- o Mailbox Acknowledgement Request (XML)
- o Transaction ID (Reliable Messaging) (XML)

Further details of the web services can be found in the published Customs WSDL files.

<https://www.revenue.ie/en/online-services/support/software-developers/technical-specifications-for-ecustoms/schema-for-customs-systems/index.aspx>

## 7. Customs Systems available for testing

System	Declaration Type	Electronic Data Interchange format
AEP System	Import Declaration	XML or Edifact
	Export declaration	XML or Edifact
	Exit Summary Declaration	XML or Edifact
	Balance enquiry	XML or Edifact
Export Control System	Arrival at Exit	XML or Edifact
Import Control System	Entry Summary Declaration	XML or Edifact
Electronic Manifest System	Import Manifest Declaration	XML
	Export Manifest Declaration	XML
New Computerised Transit System	Transit Declarations	Edifact

## 8. Messages available for testing

### A. AEP Clearance

The messages that can be **SUBMITTED** by the Trade are as follows:

Import SAD (IM515- X12)

Export SAD (IE515-X12)

New Exit Summary SAD (IE515-X12)

Corrections and amendments are made by submitting an import or export messages with a specific message type in the header X17, X31. The SAD amendments with the header X31 should be submitted pre- clearance before the arrivals or after a SAD goes under control (needs customs officer intervention to accept the amendment). The SAD corrections with the header X17 should be submitted after the arrivals post clearance.

Import Amendment (IM515 – X31)      Export Amendment (IE515 – X31)

Import Correction (IM515-X17)      Export Cancellation message (IE514)

Export Correction (IE515 –X17)

The response messages that can be **RECEIVED** by the Trade are as follows:

#### IMPORT DECLARATION

Message	Status	Detail
IM528	Accepted	Returned when a valid IM515 is submitted
IM516	Rejection	Returned when an invalid IM515 is submitted
IM560	Under Control	Returned when a valid IM515 with 3 or more Items is submitted
IM529	Released	Returned when a customs officer releases a SAD which is when a SAD has discharged
IM551	Not Released	Returned when a customs officer chooses not to release an import SAD which is under control
IM509	Cancellation	Returned when an IM515 is submitted containing mode of transport details for a plane or ship which has not arrived and the expected arrival date is in the past. It can also be returned when a SAD that is discharged corrects the SAD with "1F1" in Box 37b.

#### EXPORT DECLARATION

Message	Status	Detail
IE516	Rejection	Returned when an invalid IE515 is submitted.
IE529b	Released	Returned when an export SAD is discharged or released from under control.
IE509	Cancellation	Returned when an export SAD goes under control and the customs officer chooses to cancel the SAD.
IE551	Not Released	Returned when an export SAD goes under control and the customs officer chooses not to release the SAD.
IE560	Control Decision Notification	Returned when a valid IE515 with 3 or more Items is submitted
IE599b	Notification	Currently this is manually copied to the traders' mailbox.

## B. eManifest

*The messages that can be **SUBMITTED** by the Trade are as follows:*

MD115	Manifest Declaration
MD114	Manifest Cancellation Request
MD113	Manifest Amendment Request

The response messages that can be **RECEIVED** by the Trade are as follows:

Message	Status	Detail
MD128	Declaration Registration	Returned when a valid Manifest message is submitted
MD116	Declaration/Cancellation Request/Amendment Request Rejection	Returned when an invalid MD115 is submitted
MD109	Cancellation Decision	Returned when a Manifest is under control and the officer chooses to cancel the manifest
MD104	Amendment Allowed	Returned when an amendment is accepted by an officer
MD105	Amendment Not Allowed	Returned when an amendment is rejected by an officer
MD130	Release	Returned when simplified line items are released <sup>2</sup>
MD161	Control Decision Notification	Returned when a simplified line item goes under control, can be generated for any line item by placing channel=1 or channel=2 in the remarks of a simplified line item.
MD122	Not Released	Returned when a customs officer chooses not to release a simplified line item.
MD199	Write-Off Notification	

### C. Import Control System

The messages that can be **SUBMITTED** by the Trade are as follows:

Message	Status
IE315	Entry Summary Declaration
IE313	Entry Summary Declaration Amendment
IE323	Diversion Request

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<sup>2</sup> The Manifest Release (MD130), Control Decision Notification (MD161) and Manifest Not Released (MD122) only apply to Declarants who are authorised to use Simplified Procedures

*The response messages that can be RECEIVED by the Trade are as follows:*

Message	Status
IE328	Entry Summary Declaration Acknowledgement
IE316	Entry Summary Declaration Rejection
IE351	Advanced Intervention Notification
IE361	Import Control Decision Notification
IE313	Entry Summary Declaration Amendment Rejection
IE304	Entry Summary Declaration Amendment Acceptance
IE324	Diversion Request Rejected
IE325	Diversion Request Acknowledged
IE322	Entry Release Rejection
IE330	Entry Release
IE329	Entry Details Data

#### **D. Export Control System**

*The message that can be SUBMITTED by the Trade are as follows:*

IE507 Arrival At Exit

*The response message that can be RECEIVED by the Trade are as follows:*

IE508 Arrival At Exit Rejection

#### **E. Enquiry:**

There is a common enquiry message where the trader can make their enquiries.

## F. NCTS

A Trader wishing to test NCTS (New Computerised Transit System) messages should raise a ticket via PIT Helpdesk to arrange the issue of a ROS digital certificate with valid guarantee for using the PIT 3 environment. The NCTS system only accepts EDIFACT messages.

*The messages that can be SUBMITTED by the Trade are as follows:*

Message	Status
IE015	Departure Transit Declaration
IE014	Transit Cancellation Request
IE007	Arrival Notification
IE044	Unloading Remarks
IE054	Release Request

*The response messages that can be RECEIVED by the Trade are as follows:*

Message	Status
IE028	MRN allocated
IE029	Release for Transit
IE016	Transit Declaration Rejected
IE009	Declaration Cancellation Decision
IE008	Arrival Notification Rejection
IE043	Unloading permission
IE025	Goods Release Notification to Trader at Destination
IE045	Write Off Notification to Trader at Departure
IE051	No Release for Transit
IE055	Guarantee not valid
IE058	Unloading Remarks Rejection
IE060	Control Decision Notification
IE917	XML Syntax Error

## 9. Trader Support

All contact regarding PIT 3 and PIT 4 should be initiated through the PIT Helpdesk

### Limitations of support

While Revenue will endeavour to provide support to all Traders who are testing in the PIT environment **it should be noted that, at certain times, it will be necessary to devote our resources to our operational systems and support to PIT may be limited.** In general, PIT support will be provided during the hours of 10am to 4pm, Monday to Friday. A trader who intends to perform full end to end testing of a particular system in PIT should provide at least three weeks advance notice of such intention so as to ensure that the necessary support resources are available.

Trade are expected to ensure, at a minimum, adherence to the published schema and functional messaging for the customs systems. Revenue will not be in a position to provide PIT support to traders who continuously submit poor quality data. Additionally, Revenue will make available a list of error codes for the customs systems, which will include an explanation of why a certain error has occurred. Trade are expected to consult this published information prior to seeking support from Revenue.

## 10. Links to Functional Messages, Schema, and Error Codes.

**Error Codes:** <http://www.revenue.ie/en/customs-traders-and-agents/documents/electronic/error-spec1.txt>

**AEP Home:** <http://www.revenue.ie/en/customs-traders-and-agents/customs-electronic-systems/index.aspx>

**AEP Trader Guides & appendices:** <http://www.revenue.ie/en/customs-traders-and-agents/customs-electronic-systems/aep/aep-trader-guides-and-appendices.aspx>

**AEP Technical Specifications:** <http://www.revenue.ie/en/online-services/support/software-developers/index.aspx>

**Brexit Information for Software Developers:** <https://www.revenue.ie/en/customs-traders-and-agents/brexit/brexit-information-for-software-developers/index.aspx>