



Customs & Excise

AES PIT Specification

The information in this document is provided as a guide only and is not professional advice, including legal advice. It should not be assumed that the guidance is comprehensive or that it provides a definitive answer in every case.

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1.0	22/07/2025	Initial document

Audience

This document is for any software provider who wish to test B2G software interacting with the Automated Export System (AES).

Document Context

This document describes functionality, messages and test scenarios pertaining to AES system, that are supported by Revenue in a dedicated Public Interface Testing environment. This document is designed to be read in conjunction with the SOAP and REST integration guides as well as the rest of the Revenue Commissioners' documentation suite including the relevant technical documents.

This document supersedes previous documents:

- *"eCustoms UCC Programme PIT Connectivity and Sample Declaration Test Scenarios"*.
- *"eCustoms – PIT AES Test Data and Available Functionality"*
- *"eCustoms – PIT AES Message Types Available"*

Document References

Reference
1. <i>eCustoms – PIT Connectivity Testing Scenarios</i>
2. <i>Customs & Excise REST Web Service Integration Guide</i>
3. <i>Customs & Excise SOAP Web Service Integration Guide</i>
4. <i>Customs and Excise Web Services Common Specification</i>
5. AES schemas and WSDLs
6. AES technical specification
7. AES Trader Guides
8. Sample AES messages

Abbreviations Used in This Document

Abbreviation	Description
AEO	Authorised Economic Operator
AES	Automated Export System
C&E	Customs and Excise
CCI	Centralised Clearance for Import
PIT	Public Interface Testing
ROS	Revenue Online Service
UCC	Union Customs Code

1 Introduction

This document outlines the messages that are currently available for PIT testing and messages that are not be available in PIT, as well as provides instructions on how a Trader may simulate different responses from the AES Customs system in the PIT environment. The messages that are not available in PIT require manual intervention on Revenue's side.

This document should be used in conjunction with the documents listed in the [Document References](#) section and AES-specific Customs web and technical documentation published on Revenue.ie website in the "Online Services Support" section.

Before conducting any of the scenarios described in this document, it is strongly recommended to ensure that scenarios described in *"eCustoms – PIT Connectivity Testing Scenarios"* document are executed successfully.

2 Prerequisites

A developer or tester who wishes to engage in testing in PIT must first ensure that they have:

1. Notified Revenue on their intention to test through registering for access to the Revenue eCustoms PIT Support Service Desk.
2. Received their ROS test digital certificate that will enable them to access and reset Revenue supplied test data from the PIT Test Data Management Service.
3. Carefully consulted and adhered to published schemas, technical and functional documents that Revenue have published for AES on the website.

Further information on these tools, including access, is provided in the PIT section of Technical Specification for eCustoms on Revenue.ie website in the "Online Services Support" section.

3 Revenue Online Service (ROS)

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 Revenue. The contents of the body of the AES web service message are in XML format.

If successful, the web service will verify the signature and message type and reply with synchronous response. Response to successful aesSubmit web service requests is a Message Acknowledgement containing transaction id and status. Response to requests that were not processed successfully by the web service is a Message Acknowledgement containing an error code.

More information on error codes and common failure scenarios is available in *“Customs & Excise – Web Services Common Specification”* document.

AES will reply to successful aesSubmit requests asynchronously by placing the response in a queue (Customs Mailbox) from which the message will need to be retrieved using Mailbox Collect request. The submission and asynchronous response delivery process are described in more details in *“Customs & Excise Web Service Common Specification”* document.

The Web Services for the Customs messages are described through WSDL files and the schemas for each message.

4 Digital Signatures

Any ROS web service request that either returns confidential information or accepts 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 specification as described in *“Customs & Excise REST Web Service Integration Guide”* and *“Customs & Excise SOAP Web Service Integration Guide”* available on Revenue.ie website.

The digital signature ensures the integrity of the document. By signing the document, we can ensure that no malicious intruder has altered the document in any way. It can also be used for non-repudiation purposes.

5 AES Messages' Availability for Testing

5.1 Messages Submitted by Traders

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

Message	Name	Availability	Related Functionality/Interface
IE507	Arrival At Exit	Available	Export Process; EXS
IE511	Export Presentation Notification	Available	Pre-lodged Export Declaration
IE513	Export Declaration Amendment	Available	Export Process
IE514	Export Invalidation Request	Available	Export Process
IE515	Export Declaration	Available	Export Process
IE615	Exit Summary Declaration	Available	EXS
IE590	Exit Notification	Available	Export Process; EXS; Re-Export Notification
IE570	Re-Export Notification	Available	Re-Export Notification
IE573	Re-Export Notification Amendment Request	Available	Re-Export Notification
IE583	Information On Non-Exited Export	Available	Enquiry Procedure
IE613	Exit Summary Declaration Amendment	Available	EXS
IE614	EXS/Ren Invalidation Request	Available	EXS; Re-Export Notification

5.2 Responses Sent by Revenue to Traders

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

Message	Name	Availability	Related Functionality/Interface
IE504	Export Declaration Amendment Acceptance	Available	Export Process
IE509	Export Invalidation Decision	Available	Export Process
IE525	Exit Release Notification	Available	Export Process; EXS; Re-Export Notification
IE528	Export MRN Allocated	Available	Export Process
IE529	Release For Export	Available	Export Process
IE551	Export No Release	Available	Export Process
IE556	Rejection From Office of Export	Available	Export Process
IE557	Rejection From Office of Exit	Available	Export Process; EXS; Re-Export Notification
IE560	Export Control Decision Notification	Available	Export Process
IE561	Exit Control Decision Notification	Available	Export Process; EXS; Re-Export Notification
IE599	Export Notification	Available	Export Process

IE628	Exit Summary Declaration Acknowledgement	Available	EXS
IE917	Xml Nack	Available	Export Process; EXS
EX515V	Export Declaration Acknowledgement	Available	Export Process
IE521	Diversion Rejection Notification	Available	Export Process; EXS
IE522	Exit Release Rejection	Available	Export Process; EXS; Re-Export Notification
IE531	Export Of Timer For Supplementary Declaration Notification	Available	Simplified and Supplementary Declaration
IE571	Re-Export Notification Registration Notification	Available	Re-Export Notification
IE574	Re-Export Notification Amendment Acceptance	Available	Re-Export Notification
IE582	Request On Non-Exited Export	Available	Enquiry Procedure
IE604	Exit Summary Declaration Amendment Acceptance	Available	EXS
IE609	EXS/Ren Invalidation Decision	Available	EXS; Re-Export Notification
EX562	Request Declaration Amendment	Not Available	Export Process
EX862	Declaration Amendment Request Cancellation	Not Available	Export Process
EX564	Request Declaration Invalidation	Not Available	Export Process
EX864	Declaration Invalidation Request Cancellation	Not Available	Export Process
EX582	Document Request	Not Available	Export Process
EX583	Documents Received	Not Available	Export Process
EX584	Request Document Presentation	Not Available	Export Process
EX882	Documents Upload Request Cancellation	Not Available	Export Process
EX884	Documents Presentation Request Cancellation	Not Available	Export Process

6 Test EORI Numbers

For the AES system to correctly process submitted test declarations the submitter must use EORI number valid in PIT environment. Below is a list of sample EORI numbers that will be accepted in PIT.

A valid EORI must be used in the below fields:

- Declarant
- Exporter
- Representative
- Person Confirming Exit
- Additional Supply Chain Actor
- Exit Carrier

EORI with AEO cert	EORI without AEO cert
IE4524493J	IE9726356R
IE4536017Q	
IE4536860D	
IE4618356U	
IE4732997B	
IE4736801B	
IE4737353F	
IE4740414Q	

7 Test Scenarios – Sample AES Declarations

7.1 Empty IE515

Test Identifier	aesSubmit empty IE515	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of an empty export declaration.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/aesSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/aesSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare an empty IE515 message with a valid ROS digital signature.	
Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE515 AesSubmit message Export Declaration. 2. The Customs Agent/Trader correctly signs the request with their digicert. 3. The Customs Agent/Trader submits the message to the AES Submit webservice. 4. Revenue returns the listed in Expected Results below response message to the customs mailbox. 5. The Customs Agent/Trader submits MailboxCollect request and retrieves the asynchronous response. 6. The Customs Agent/Trader submits MailboxAcknowledge request containing the MailboxId of the response to remove the response from Mailbox. 	
Expected Result	AES responds to the mailbox with: <ul style="list-style-type: none"> • IE917 syntax error notification from AES specifying details of errors. 	

7.2 Green IE515 (Office of Export)

Test Identifier	aesSubmit IE515 Green	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of an export declaration with no risk trigger in it.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/aesSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/aesSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare a valid IE515 message with a valid ROS digital signature.	

Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE515 AesSubmit message Export Declaration. See sample message CC515C_Green.xml 2. The Customs Agent/Trader must replace the existing LRN. For new declarations the LRN must be unique. Non-unique LRNs will not be accepted by the system. 3. The Customs Agent/Trader correctly signs the request with their digicert. 4. The Customs Agent/Trader submits the message to the AES Submit webservice. 5. Revenue returns the listed in Expected Results below response messages to the customs mailbox. 6. The Customs Agent/Trader submits MailboxCollect request and retrieves the asynchronous responses. 7. The Customs Agent/Trader submits MailboxAcknowledge request containing the MailboxId of the responses to remove the responses from Mailbox.
Expected Result	<p>AES responds to the mailbox with:</p> <ul style="list-style-type: none"> • Export MRN Allocated – IE528 • Release for Export – IE529

7.3 Red IE515 (Office of Export)

Test Identifier	aesSubmit IE515 Red	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of an export declaration with a RED risk trigger in it.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/aesSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/aesSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare a valid IE515 message with a valid ROS digital signature.	
Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE515 AesSubmit message Export Declaration. See sample message CC515C_Red.xml 2. The Customs Agent/Trader must replace the existing LRN. For new declarations the LRN must be unique. Non-unique LRNs will not be accepted by the system. 3. To trigger RED risk response, the Customs Agent/Trader must have their “Country of Origin” Field set as “AT”. 4. The Customs Agent/Trader correctly signs the request with their digicert. 5. The Customs Agent/Trader submits the message to the AES Submit webservice. 6. Revenue returns the listed in Expected Results below response messages to the customs mailbox. 7. The Customs Agent/Trader submits MailboxCollect request and retrieves the asynchronous responses. 8. The Customs Agent/Trader submits MailboxAcknowledge request containing the MailboxId of the responses to remove the responses from Mailbox. 	
Expected Result	<p>AES responds to the mailbox with:</p> <ul style="list-style-type: none"> • Export MRN Allocated – IE528 • Export Control Decision Notification – IE560 	

7.4 IE507 (Office of Exit)

Test Identifier	aesSubmit IE507	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of an Arrival at Exit message.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/aesSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/aesSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare a valid IE507 message with a valid ROS digital signature.	
Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE507 AesSubmit message Arrival at Exit. See sample message CC507C.xml 2. The Customs Agent/Trader must reference an MRN in their IE507 message that already exists within PIT . This can be done by creating a PIT Service desk ticket requesting to test the IE507 message. 3. The Customs Agent/Trader correctly signs the request with their digicert. 4. The Customs Agent/Trader submits the message to the AES Submit webservice. 5. Revenue returns the listed in Expected Results below response messages to the customs mailbox. 6. The Customs Agent/Trader submits MailboxCollect request and retrieves the asynchronous responses. 7. The Customs Agent/Trader submits MailboxAcknowledge request containing the MailboxId of the responses to remove the responses from Mailbox. 	
Expected Result	AES responds to the mailbox with: <ul style="list-style-type: none"> • Exit Release Notification– IE525 	

8 Test Data and Available Functionality

This section provides instructions on how a Trader may simulate different responses from the AES Customs systems in the PIT environment.

8.1 Generate Control Notice – IE560

To support the test, the below rules are set up to make a declaration go ‘Under Control’:

1. Physical Examination – Red Routing
2. Documentary Check – Orange Routing

TRIGGER	RISK MANAGEMENT SYSTEM RESPONSE
IE515 : The Country of Origin field is equal to ‘FR’	The declaration will be deemed “Documentary Check – Orange Routing”
IE515 : The Country of Origin field is equal to ‘AT’	The movement is classified as “Physical Examination – Red Routing”.

8.2 TARIC

Tariff data is stubbed, and all commodity codes will be accepted by the system, there will be no Tariff validation upon submission of the declaration.

8.3 Indirect Export Where IE is the Office of Exit

The PIT Support team will provide MRNs where there is an indirect export, where Ireland is the Office of Exit but goods have arrived from another member State and the trader in Ireland needs to submit an IE507.

If you require IE515 MRNs, please raise a service desk ticket to the PIT Support Team where the subject is “AES - Request for indirect export MRNs”.