



Customs & Excise

NCTS 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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Audience

This document is for any software provider who wish to test B2G software interacting with the New Computerised Transit System (NCTS)

Document Context

This document describes functionality, messages and test scenarios pertaining to NCTS 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 NCTS-P5 Test Data and Available Functionality"*
- *"eCustoms – PIT NCTS-P5 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. NCTS schemas and WSDLs
6. NCTS technical specification
7. NCTS Trader Guides
8. Sample NCTS messages

Abbreviations Used in This Document

Abbreviation	Description
AEO	Authorised Economic Operator
C&E	Customs and Excise
CCI	Centralised Clearance for Import
ED	External Domain
NCTS	New Computerised Transit System
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 NCTS 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 NCTS-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 NCTS 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 NCTS 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 nctsSubmit 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.

NCTS will reply to successful nctsSubmit 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 NCTS 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
IE007	Arrival Notification	Available	Transit Process
IE013	Declaration Amendment	Available	Transit Process
IE014	Declaration Invalidation Request	Available	Transit Process
IE015	Declaration Data	Available	Transit Process
IE026	Guarantee Access Codes	Not Available	Transit Process
IE034	Query On Guarantees	Not Available	Transit Process
IE044	Unloading Remarks	Not Available	Transit Process
IE054	Request Of Release	Not Available	Transit Process
IE141	Information About Non-Arrived Movement	Not Available	Transit Process
IE170	Presentation Notification for The Pre-Lodged Declaration	Not Available	Transit Process
IE224	Individual Guarantee Voucher Sold	Not Available	Transit Process
TR083	Documents Received	Not Available	Transit Process

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
IE004	Amendment Acceptance	Available	Transit Process
IE009	Invalidation Decision	Available	Transit Process
IE019	Discrepancies	Available	Transit Process
IE022	Notification To Amend Declaration	Not Available	Transit Process
IE023	Guarantor Notification	Available	Transit Process
IE025	Goods Release Notification	Available	Transit Process
IE028	MRN Allocated	Available	Transit Process
IE029	Release For Transit	Available	Transit Process
IE035	Recovery Notification	Not Available	Transit Process
IE037	Response Query on Guarantees	Not Available	Transit Process
IE043	Unloading Permission	Not Available	Transit Process
IE045	Write-Off Notification	Available	Transit Process

IE051	No Release for Transit	Available	Transit Process
IE055	Guarantee Not Valid	Available	Transit Process
IE056	Rejection From Office of Departure	Available	Transit Process
IE057	Rejection From Office of Destination	Available	Transit Process
IE060	Control Decision Notification	Available	Transit Process
IE140	Request On Non-Arrived Movement	Not Available	Transit Process
IE182	Forwarded Incident Notification to ED	Not Available	Transit Process
IE225	Guarantee Update Notification	Not Available	Transit Process
IE228	Comprehensive Guarantee Cancellation Liability Liberation	Not Available	Transit Process
IE229	Individual Guarantee Voucher Revocation Notification	Not Available	Transit Process
IE231	Comprehensive Guarantee Cancellation Notification	Not Available	Transit Process
IE906	Functional Nack	Available	Transit Process
IE917	Xml Nack	Available	Transit Process
IE928	Positive Acknowledge	Available	Transit Process
TR015V	Transit Pre-Lodged Declaration Acknowledgment	Not Available	Transit Process
TR054	Request For Advice	Not Available	Transit Process
TR062	Request Declaration Amendment	Not Available	Transit Process
TR862	Declaration Amendment Request Cancellation	Not Available	Transit Process
TR064	Request Declaration Invalidation	Not Available	Transit Process
TR864	Declaration Invalidation Request Cancellation	Not Available	Transit Process
TR082	Documents Request	Not Available	Transit Process
TR084	Request Document Presentation	Not Available	Transit Process
TR882	Documents Upload Request Cancellation	Not Available	Transit Process
TR884	Documents Presentation Request Cancellation	Not Available	Transit Process

6 Test Scenarios – Sample NCTS Declarations

6.1 Empty IE015

Test Identifier	nctsSubmit empty IE015	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of an empty Transit declaration.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/nctsSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/nctsSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare an empty IE015 message with a valid ROS digital signature.	
Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE015 NctsSubmit message Transit Declaration. 2. The Customs Agent/Trader correctly signs the request with their digicert. 3. The Customs Agent/Trader submits the message to the NCTS 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	NCTS responds to the mailbox with: <ul style="list-style-type: none"> • IE917 syntax error notification from NCTS specifying details of errors. 	

6.2 Simplified Procedure IE015 (Office of Departure)

Test Identifier	nctsSubmit Simplified IE015	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of simplified procedure Transit declaration with no risk trigger in it.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/nctsSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/nctsSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare a valid IE015 message with a valid ROS digital signature.	

Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE015 NctsSubmit message Transit Declaration. The EORI associated with the ROS cert should be the same as the Holder of the Transit Procedure on the IE015 message. See sample CC015C_Simplified.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 NCTS 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>NCTS responds to the mailbox with:</p> <ul style="list-style-type: none"> • Transit Positive Acknowledge – IE928 • Transit MRN Allocated – IE028 • Release For Transit – IE029

6.3 Normal Procedure IE015 (Office of Departure)

Test Identifier	nctsSubmit Normal IE015	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of a normal procedure Transit declaration with no risk trigger in it.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/nctsSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/nctsSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare a valid IE015 message with a valid ROS digital signature.	
Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE015 NctsSubmit message Transit Declaration. The EORI associated with the ROS cert should be the same as the Holder of the Transit Procedure on the IE015 message. See sample CC015C_Normal.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 NCTS 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>NCTS responds to the mailbox with:</p> <ul style="list-style-type: none"> • Transit Positive Acknowledge – IE928 • Transit MRN Allocated – IE028 • Release For Transit – IE029 	

6.4 Simplified IE007 (Office of Destination)

Test Identifier	nctsSubmit Simplified IE007	
Test Purpose	Verify the Revenue responds with the expected asynchronous response messages following submission of an Arrival at Office of Destination message.	
PIT Test URL	SOAP: https://softwaretestnextversion.ros.ie/customs/webservice/v1/soap/nctsSubmit REST: https://softwaretestnextversion.ros.ie/customs/webservice/v1/rest/nctsSubmit	
HTTP Method	POST	
Content-type	SOAP: application/soap+xml	REST: application/xml
Test Data Prerequisite	Prepare a valid IE007 message with a valid ROS digital signature.	
Test Steps	<ol style="list-style-type: none"> 1. The Customs Agent/Trader prepares their IE007 NctsSubmit message Arrival at Office of Destination. The EORI associated with the ROS cert should be the same as the Holder of the Transit Procedure on the IE007 message. See sample CC007C_simplified.xml 2. The Customs Agent/Trader must reference an MRN in their IE007 message that already exists within PIT. This can be done by creating a PIT Service desk ticket requesting to test the IE007 message. 3. The Customs Agent/Trader correctly signs the request with their digicert. 4. The Customs Agent/Trader submits the message to the NCTS 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	After the relevant timer (15 mins) NCTS responds to the mailbox with: <ul style="list-style-type: none"> • Unloading Permission – IE043 	

7 Test Data and Available Functionality

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

7.1 EORI Registrations

All PIT testers are advised to use the EORI number associated with their PIT4 ROS DigiCert as the:

- Message Sender
- Holder of Transit Procedure

Please note that in the PIT4 environment the NCTS-P5 system will not be validating the EORI numbers and therefore any value given in the EORI data elements will pass BR validation.

7.2 AEO Trader

To initiate an AEO flow in the system the trader must be AEO authorised. The NCTS system will consider a trader as AEO where the value “AEO” is included in the LRN of the declaration.

7.3 Authorisations

All authorisations declared on the declaration will be considered as valid.

For example, to trigger a flow for the Simplified Transit Declaration at Departure the Authorised Consignor Authorisation (C521) must be referenced in Authorisation Data Group, the Authorisation Reference Number will not be validated, and all values will give a positive response.

To trigger a flow for the Simplified Transit Declaration at Destination the Authorised Consignee Authorisation (C522) must be referenced in Authorisation Data Group, the Authorisation Reference Number will not be validated, and all values will give a positive response.

7.4 GRN

The below list of GRN's (Guarantee Reference Numbers) will simulate both positive and negative responses within NCTS-P5. There will no validation done on the Access Code associated with the GRN, any 4-digit code will suffice.

GRN	Guarantee Type	Response Type
23IE842290333A960	Any	Positive
23IE9BEF9A44C1DB8	Any	Positive
23IE70E31930A9241	Any	Positive
23FRB6767C4A66FA2	Any	Positive
23FRFC5DDCE6ECA89	Any	Positive
23FR01DA3A29D7C06	Any	Positive
23IE6CB4C87E94AD2A522359	4	Negative
23IE5B9C5D19E56F5A555009	4	Negative
23IE889F542D72003	Any but 4	Negative
23IEB6F29E4A18CE4	Any but 4	Negative
23IEDAC9F17DF0598	Any but 4	Negative
23IEA8E36F8488106	Any but 4	Negative
23IE15E734DE334E0	Any but 4	Negative
23IE79D19A91A64F3	Any but 4	Negative
23IE7B9DB5A6124A7	Any but 4	Negative
23IE55C5B7B237C81	Any but 4	Negative

7.5 Generate Control Notice – IE060

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
IE015 : Include ‘Orange’ within the LRN	The declaration will be deemed “Documentary Check – Orange Routing”
IE015 : Include ‘Red’ within the LRN	The movement is classified as “Physical Examination – Red Routing”.

7.6 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.

7.7 Arrival Notification

The PIT Support team will provide MRNs where you wish to 'Arrive' a transit declaration where Ireland is the Office of Destination and the trader in Ireland needs to submit an IE007.

If you require IE007 MRNs, please raise a service desk ticket to the PIT Support Team where the subject is 'NCTSP5 - Request for MRNs to test IE007'.