



PE-08-030: Entry/Exit Summary Declaration

Conformance Testing Procedure



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Draft 0.1	11/11/2009	Draft version for internal review
Version 1.0	30/11/2009	First version for release
Version 2.0	24/06/2010	Second version for release. Addition of the following test cases: <ul style="list-style-type: none"> - Arrival Notification - Exit Summary Declaration Changes to the registration procedure

Version 2.1	05/07/2010	Reference is made to additional tests that may have to be affected in case asynchronous message flows are implemented from the trader application.
Version 2.2	19/08/2010	Addition of application form for System-to-System user
Version 2.3	02/09/2011	Addition of test cases for the Exit Summary Declaration amendment request

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01. Overview

01.1 Background and Objectives

This document describes the conformance testing protocol between the traders' system and the Malta Entry/Exit Summary Declaration system. Before a trader can join operations with the system, the trader's interface must be technically verified. The conformance of a trader interface will be achieved through the execution of a number of test cases which will be performed together with MITA. On the basis of the results obtained during testing, a report will be drawn up by MITA on which the Customs Department will accept the trader to connect to the live system.

The primary objective of this conformance testing is to validate the communication and the information exchange messages transmission between the Malta Entry/Exit Summary Declaration system and the trader's interface and not to test the business functionality of the system.

01.2 Message Test Indicator

Testing will be performed on the Malta Entry/Exit Summary Declaration live environment, therefore it is **mandatory** by each trader to submit messages with a test indicator equal to 1. This is done by setting the value in "TesIndMES18" XML tag to "1". Such as:

<TesIndMES18>1</TesIndMES18>

Failure to submit the message with a test indicator = '1', would prevent the message from being delivered successfully.

01.3 Level 0: Testing Preliminary Phase

In this first phase of the conformance testing, the trader is asked to apply for a username and a password by filling in a form provided by Customs Department.

The username created for the trader will be set in 'test mode' and if the trader passes successfully from the conformance testing the same username will be set to 'live mode'. This process will save the trader from re-applying for a username when the system has been verified.

In case of a software company a username and a password set in 'test mode' will be provided by Customs. After the successful completion of the conformance testing, the software company has to apply for the required login name/s now set to 'live mode'.

01.4 Level 1: Primary Testing

During Level 1 testing, a number of test cases will be executed to verify:

- The connectivity between the traders' application and the Malta Entry/Exit Summary Declaration system.
- The transmission of IE messages in and out of the Malta Entry/Exit Summary Declaration system.

01.5 Level 2: Secondary Testing

In this stage the trader will re-test any failed test scenarios. MITA will re-evaluate the results obtained and sends the results to the Customs Department together with a recommendation to determine the technical compliancy of the trader's application. Thereafter, the Customs Department will verify the technical compliancy of the trader interface with the Entry/Exit Summary Declaration system and inform the trader accordingly.

02. Level 0: Preliminary Phase

02.1 Access to the Malta Entry/Exit Summary Declaration System

To initiate the conformance testing, the carrier is required to apply for a username and password by filling in the “Entry/Exit Summary Declaration Application for Carrier” provided by Customs. This form must be filled in paper format and handed over to Customs. The form is reproduced in Appendix II.

When the carrier wishes to make use of a representative to perform entry/exit summary declarations, the carrier must complete section 2 of the form “Entry/Exit Summary Declaration Application for Carrier”.

When the username will be submitted to the carrier or his representative, during the entire process of the conformance testing it will be set to ‘test mode’. When the carrier or his representative will be verified compliant to start operations with Malta entry/exit summary declaration system, the username will be changed to ‘live mode’ to avoid the carrier from re-applying for another username.

03. Level 1: Primary Testing

03.1 IE Messages

In this phase of the conformance testing a number of IE messages will be tested. These are listed in table 1 as input or output messages. Input messages are the messages expected to be received by the Malta Entry/Exit Summary Declaration system and the output messages are the messages expected to be received by the trader's application.

IE	Name	Reference	IN/OUT
IE315	Entry Summary Declaration	E_ENS_DAT	IN
IE328	Entry Summary Declaration Acknowledgement	E_ENS_ACK	OUT
IE316	Entry Summary Declaration Rejected	E_ENS_REJ	OUT
IE351	Advanced Intervention Notification	E_AIV_NOT	OUT
IE323	Diversion Request Import	C_DIV_REQ	IN
IE324	Diversion Request Rejected	E_DIV_REJ	OUT
IE325	Diversion Request Acknowledgement	E_DIV_ACK	OUT
IE303	Entry Summary Declaration Response	C_ENS_RSP	OUT
IE313	Entry Summary Declaration Amendment	E_ENS_AMD	IN
IE304	Entry Summary Declaration Amendment Accepted	E_ENS_AAC	OUT
IE305	Entry Summary Declaration Amendment Rejection	E_ENS_ARJ	OUT
IE347	Arrival Notification	E_ARN_ENT	IN
IE348	Arrival Notification Validation	E_ARN_VAL	OUT
IE615	Exit Summary Declaration	E_EXS_DAT	IN
IE628	Exit Summary Declaration Acknowledgement	E_EXS_ACK	OUT
IE616	Exit Summary Declaration Rejected	E_EXS_REJ	OUT
IE561	Exit Control Decision Notification	E_EXT_CTR	OUT
IE613	Exit Summary Declaration Amendment	E_EXS_AMD	IN
IE604	Exit Summary Declaration Amendment Acceptance	E_EXS_AAC	OUT
IE605	Exit Summary Declaration Amendment Rejection	E_EXS_ARJ	OUT

Table 1: Input/Output IE Messages

03.2 Test Cases Overview

This section provides a brief description of the official conformance testing test cases presented in Appendix I.

Each test case in Appendix I **must** be executed and the result must be noted in each test case result section. There is no time limit for the completion of the conformance tests. Once the test cases are concluded successfully, Malta Customs (pacs.customs@gov.mt) should be notified and provided with the list of The MRNs/LRNs pertaining for each test in order to be verified and approved.

03.3 List of Test Cases

Test Case ID	Test Case Name	Test Overview
01.1.1	System to System Connectivity	This test verifies that: <ol style="list-style-type: none"> 1. The trader is able to connect successfully with the Malta Entry/Exit Summary Declaration web services.
02.1.1	IE315: Entry Summary Declaration	This test verifies that: <ol style="list-style-type: none"> 1. The traders application sends valid IE315 (Entry Summary Declaration) messages. 2. The Malta Entry Summary Declaration is capable to receive IE315 messages from the trader application. 3. The Malta Entry Summary Declaration sends the correct reply messages upon: <ol style="list-style-type: none"> a. Message rejection in which case the Malta Entry Summary Declaration will reply with an IE316 (Entry Summary Declaration Rejected) is sent. b. Message acknowledgment in which case the Malta Entry Summary Declaration will reply with an IE328 (Entry Summary Declaration Acknowledgment) is sent.
02.1.2	IE323: Diversion Request Import	This test verifies that: <ol style="list-style-type: none"> 1. The trader is able to perform a diversion on a set of previously acknowledged entry summary declarations identified either by a list of MRNs or else by entry key selection. 2. The Malta Entry/Exit Summary Declaration sends the correct reply messages upon: <ol style="list-style-type: none"> a. Message rejection in which case the Malta Entry Summary Declaration will reply with an IE324 (Diversion Request Rejected) b. Message acknowledgment in which case the Malta Entry Summary Declaration will reply with an IE325 (Diversion Request Acknowledgement)
02.1.3	IE313: Entry Summary Declaration Amendment	This test verifies that: <ol style="list-style-type: none"> 1. The trader is able to perform an amendment on a previously acknowledged entry summary declaration. 2. The Malta Entry Summary Declaration sends the correct reply messages upon: <ol style="list-style-type: none"> a. Message rejection in which case the

		<p>Malta Entry Summary Declaration will reply with an IE305 (Entry Summary Declaration Amendment Rejected)</p> <p>b. Message acknowledgment in which case the Malta Entry/Exit Summary Declaration will reply with an IE304 (Entry Summary Declaration Amendment Accepted)</p>
02.1.4	IE347: Arrival Notification	<p>This test verifies that:</p> <ol style="list-style-type: none"> 1. The trader is able to perform an arrival notification of selection of previously acknowledged entry summary declarations identified either by a list of MRNs or else by entry key selection. 2. The Malta Entry Summary Declaration sends the appropriate reply messages upon: <ol style="list-style-type: none"> a. Message rejection in which case the Malta Entry/Exit Summary Declaration will reply with an IE348 (Arrival Notification Validation) enlisting functional errors. b. Message acknowledgment for which the Malta Entry/Exit Summary Declaration will reply with an IE348 with no functional errors.
02.2.1	IE615: Exit Summary Declaration	<p>This test verifies that:</p> <ol style="list-style-type: none"> 1. The traders application sends valid IE615 (Entry Summary Declaration) messages. 2. The Malta Exit Summary Declaration sends the correct reply messages upon: <ol style="list-style-type: none"> a. Message rejection in which case the Malta Exit Summary Declaration will reply with an IE616 (Exit Summary Declaration Rejected) is sent. b. Message acknowledgment in which case the Malta Entry/Exit Summary Declaration will reply with an IE628 (Exit Summary Declaration Acknowledgment).
02.2.2	IE613: Exit Summary Declaration Amendment	<p>This test verifies that:</p> <ol style="list-style-type: none"> 3. The traders application is able to sends valid IE613 (Exit Summary Declaration Amendment) messages. 4. The Malta Exit Summary Declaration sends the correct reply messages upon: <ol style="list-style-type: none"> a. Message rejection in which case the Malta Exit Summary Declaration will reply with an IE605 (Exit Summary Declaration Amendment Rejection). b. Message acknowledgment in which case the Malta Exit Summary Declaration will reply with an IE604 (Exit Summary Declaration Amendment Acceptance).

03.4 Polling vs Asynchronous message flows

In case the trader application business processes are designed to handle responses back, primarily in an asynchronous manner, apart from the standard polling message flow the trader is requested to test the execution of the asynchronous message flows from his endpoint.

In case the business process at the trader application fails to handle any of the callback messages, thereafter the trader application should be able to retrieve the message using the SDS polling web services as a fallback method. This explains why, irrespective of the approach being used, the implementation and testing of message flows that make use of the polling mechanism still remains compulsory.

04. Level 2: Secondary Testing

After approval from Customs, level 2 testing can start. At this stage any failed test cases during Level 1 testing will have to be re-tested using the same testing procedure as in Level 1 testing.

The results are then to be represented as shown in Table 2.

MITA will verify the validity of the results and will send a compliancy recommendation to the Customs Department. The Customs Department will review the results together with the MITA recommendation and on a mutual agreement between MITA and Customs, the application will be deemed as verified to access the Malta Customs Summary Declaration system.

On confirmation of such acceptance, the trader, on his request, will have official access to the Entry/Exit Summary Declaration system and can start sending messages with the same username and password used during the conformance testing, now set to 'live mode'.

Test ID	Test Case Name	Result (Pass/Fail)	Result Verified (Yes/No)
01.1.1	System to System Connectivity		
02.1.1	IE315: Entry Summary Declaration		
02.1.2	IE323: Diversion Request Import		
02.1.3	IE313: Entry Summary Declaration Amendment		
02.1.4	IE347: Arrival Notification		
02.2.1	IE615: Exit Summary Declaration		
02.2.2	IE613: Exit Summary Declaration Amendment		

Table 2: Testing Report

Appendix I: Test Cases

Test Case ID:	01.1.1	Test Case Name:	System to System Connectivity
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Requirements Covered

It is required that any trader qualifying to connect with the Malta Entry/Exit Summary Declaration will be able to connect successfully.

Purpose of Test

To verify that the connection between the trader system and the Entry/Exit Summary Declaration is successful.

Test Case Description

	Description:	Expected Outcome:
1	Open Internet Explorer and enter the following URL: https://icis.gov.mt/summdeclws/edport?wsdl	The WSDL file is displayed successfully.

Results

	Date Run:	Run By:	Pass / Fail	Results / Comments
1				
2				

 Name of Trader

 Signature

 Date

Test Case ID:	02.1.1	Test Case Name:	IE315: Entry Summary Declaration
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Requirements Covered

It is required that the Malta Entry Summary Declaration will be able to receive entry summary declarations from traders through system to system in the standard format of the IE315 message structure.

Purpose of Test

To verify that the entry summary declarations are received and processed successfully by the Malta Entry Summary Declarations.

Test Case Description

	Description:	Expected Outcome:
1	Using your application, send a valid IE315 without adding any subsequent offices. <i>Note: The only accepted Customs office is: MT000400.</i>	An IE328 (Entry Summary Declaration Acknowledgment) is generated as the output message. This may also result that a randomly generated mock IE351 message will be dispatched soon after the dispatch of the IE328 message.
2	Through your application send an IE315 with a data value which violates a rule or condition. Example by violating condition C582 or rule R105.	An IE316 (Entry Summary Declaration Rejected) is generated as output message Trader application should retrieve and consume the resulting output message(s).
3	Using your application send a valid IE315 with one or more subsequent offices. Ensure subsequent custom offices are valid. Examples of such are: - GB000001 - IT014000 - IT014100	An IE328 (Entry Summary Declaration Acknowledgment) is generated as output message. Trader application should retrieve and consume the resulting output message.

Results

	Date Run:	Run By:	Pass / Fail	Results / Comments
1				
2				
3				
4				

 Name of Trader

 Signature

 Date

Test Case ID:	02.1.2	Test Case Name:	IE323: Diversion Request Import
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Requirements Covered

It is required that a trader will be able to perform a diversion on a submitted entry summary declaration.

Purpose of Test

To verify that diversion can be performed successfully by any trader qualified to connect with the Malta Entry Summary Declaration.

Test Case Description

	Description:	Expected Outcome:
1	For a successfully acknowledged entry summary declaration, send a valid IE323 through your application. <i>Note: the diversion reference number (DivRefNumHEA119) must be unique on every diversion made on the same trader requesting diversion (TINTraReqDiv463).</i>	An IE325 (Diversion Request Acknowledgement) is generated as output message. Trader application should retrieve and consume the resulting output message.
2	For a successfully acknowledged entry summary declaration, send an invalid IE323 through your application. By for example violating a rule or condition in the IE323 message or by entering incorrect values in the message tags.	An IE324 (Diversion Request Rejected) is generated as output message. Trader application should retrieve and consume the resulting output message.

Results

	Date Run:	Run By:	Pass / Fail	Results / Comments
1				
2				
3				
4				

Name of Trader

Signature

Date

Test Case ID:	02.1.3	Test Case Name:	IE313: Entry Summary Declaration Amendment
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Requirements Covered

It is required that a trader will be able to perform an amendment on a pre-acknowledged entry summary declaration.

Purpose of Test

To verify that an amendment can be successfully performed by any trader qualified to connect with the Malta Entry Summary Declaration.

Test Case Description

	Description:	Expected Outcome:
1	Send a valid IE313 through your application for a successfully acknowledged entry summary declaration.	An IE304 (Entry Summary Declaration Amendment Accepted) is generated as output message. This may also result that a randomly generated mock IE351 message will be dispatched soon after the dispatch of the IE304 message. Trader application should retrieve and consume the resulting output message(s).
2	Send an invalid IE313 through your application for a successfully acknowledged entry summary declaration, by violating any rule or condition such as R660 or C582 or by specifying inapplicable data values.	An IE305 (Entry Summary Declaration Amendment Rejected) is generated as output message. Trader application should retrieve and consume the resulting output message.

Results

	Date Run:	Run By:	Pass / Fail	Results / Comments
1				
2				
3				
4				

Name of Trader

Signature

Date

Test Case ID:	02.1.4	Test Case Name:	IE347: Arrival Notification
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Requirements Covered

It is required that a trader will be able to perform an arrival notification diversion on submitted entry summary declaration(s).

Purpose of Test

To verify that arrival notifications can be performed successfully by any trader who has connectivity with the Malta Entry Summary Declaration.

Test Case Description

	Description:	Expected Outcome:
1	Send a valid IE347 through your application for a successfully acknowledged entry summary declaration(s) either by list of mrn (arrival items data group) or by entry key selection, <i>Note: the arrival reference number (arrival-lrn) must be unique for every successful arrival notification made by the same trader.</i>	An IE348 (Arrival Notification Validation) is replied back with no functional errors.
2	Send an invalid IE347 through your application by violating a rule or condition or else by specifying an incorrect mrn /entry key selection.	An IE348 (Arrival Notification Validation) is replied back enlisting functional errors.

Results

	Date Run:	Run By:	Pass / Fail	Results / Comments
1				
2				
3				
4				

Name of Trader

Signature

Date

Test Case ID:	02.2.1	Test Case Name:	IE615: Exit Summary Declaration
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Requirements Covered

It is required that the Malta Exit Summary Declaration will be able to receive exit summary declarations from traders through system to system in the standard format of the IE615 message structure.

Purpose of Test

To verify that exit summary declarations can be performed successfully by any trader who has connectivity with the Malta Exit Summary Declaration.

Test Case Description

	Description:	Expected Outcome:
1	Send a valid exit summary declaration (IE615) through your application	The exit summary declaration is acknowledged via a reply message, IE628 (Exit Summary Declaration Acknowledgment). This scenario may also result that a randomly generated mock IE561 message will be dispatched subsequently after the IE628 message. Trader application should retrieve and consume the resulting output message(s).
2	Using your application send an IE615 message which violates any applicable rule or condition or else contains invalid data values	The exit summary declaration is rejected via a reply IE616 (Entry Summary Declaration Rejected) message Trader application should retrieve and consume the resulting output message.

Results

	Date Run:	Run By:	Pass / Fail	Results / Comments
1				
2				
3				
4				

Name of Trader

Signature

Date

Test Case ID:	02.2.2	Test Case Name:	IE613: Exit Summary Declaration Amendment
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Requirements Covered

It is required that the Malta Exit Summary Declaration will be able to process amendment requests for exit summary declarations from traders through system to system in the standard format of the IE613 message structure.

Purpose of Test

To verify that amendment requests for exit summary declarations can be handled successfully by any trader who has connectivity with the Malta Exit Summary Declaration.

Test Case Description

	Description:	Expected Outcome:
1	Send a valid exit summary declaration (IE613) for an existing pre-acknowledged entry summary declaration document reference number through your application	The exit summary declaration amendment request is acknowledged via a reply message, IE604 (Exit Summary Declaration Acceptance). This scenario may also result that a randomly generated mock IE561 message will be dispatched subsequently after the IE604 message. Trader application should retrieve and consume the resulting output message(s).
2	Using your application send an IE613 message which violates any applicable rule or condition	The exit summary declaration amendment is rejected via a reply IE605 (Entry Summary Declaration Amendment Rejection) message Trader application should retrieve and consume the resulting output message.

Results

	Date Run:	Run By:	Pass / Fail	Results / Comments
1				
2				
3				
4				


Name of Trader

Signature


Date

Appendix II: Entry/Exit Summary Declaration User Application Forms

Further below you can find the list of forms for user/system registration. Kindly download the required soft copy in word format from the [SDS webpage](#) under '**Application Forms for SD**'.

	Customs Electronic System	Entry/Exit Summary Declaration Application Form for Carrier								
SECTION 1										
Entry Summary Declaration Access <i>Tick Box to select this option</i> <input type="checkbox"/>		Exit Summary Declaration Access <i>Tick Box to select this option</i> <input type="checkbox"/>								
EORI No. of Carrier										
Name										
Address										
Telephone Nos.										
Fax No.										
Contact Person										
E-mail Address										
Authorised User/s by Carrier										
User 1										
Name										
Surname										
ID Number										
Signature of User 1										
For office use only	LOGIN name assigned to user 1									
User 2										
Name										
Surname										
ID Number										
Signature of User 2										
For office use only	LOGIN name assigned to user 2									
User 3										
Name										
Surname										
ID Number										
Signature of User 3										
For office use only	LOGIN name assigned to user 3									
User 4										
Name										
Surname										
ID Number										
Signature of User 4										
For office use only	LOGIN name assigned to user 4									

SECTION 2									
Allowed Representation									
NO <i>Tick Box to select this option</i> <input type="checkbox"/>					YES <i>Tick Box to select this option</i> <input type="checkbox"/>				
Named Representative/s									
Representative 1									
EORI Number									
Name & Surname									
ID Number									
e-mail Address									
Signature of Rep. 1									
For office use only	LOGIN name assigned to representative 1								
Representative 2									
EORI Number									
Name & Surname									
ID Number									
e-mail Address									
Signature of Rep. 2									
For office use only	LOGIN name assigned to representative 2								
Representative 3									
EORI Number									
Name & Surname									
ID Number									
e-mail Address									
Signature of Rep. 3									
For office use only	LOGIN name assigned to representative 3								
Representative 4									
EORI Number									
Name & Surname									
ID Number									
e-mail Address									
Signature of Rep. 4									
For office use only	LOGIN name assigned to representative 4								
Statement by Applicant									
Name & Surname					Signature				
Position in Enterprise									
ID Number					Date				
SECTION 3									
For office use only									
	Start Date				End Date				
SET TO TEST MODE									
SET TO LIVE MODE									

	Customs Electronic System	Entry/Exit Summary Declaration Application Form for System to System User																			
SECTION 1																					
Entry Summary Declaration Access <i>Tick Box to select this option</i> <input type="checkbox"/>		Exit Summary Declaration Access <i>Tick Box to select this option</i> <input type="checkbox"/>																			
EORI No. of Company																					
Name																					
Address																					
Telephone Nos.																					
Fax No.																					
Contact Person																					
E-mail Address																					
For office use only	LOGIN name assigned to Company																				
Statement by Applicant																					
Name & Surname												Signature									
Position in Enterprise																					
ID No. or National Insurance No.												Date									
SECTION 2																					
For office use																					
												Start Date					End				
SET TO TEST MODE																					
SET TO LIVE MODE																					