

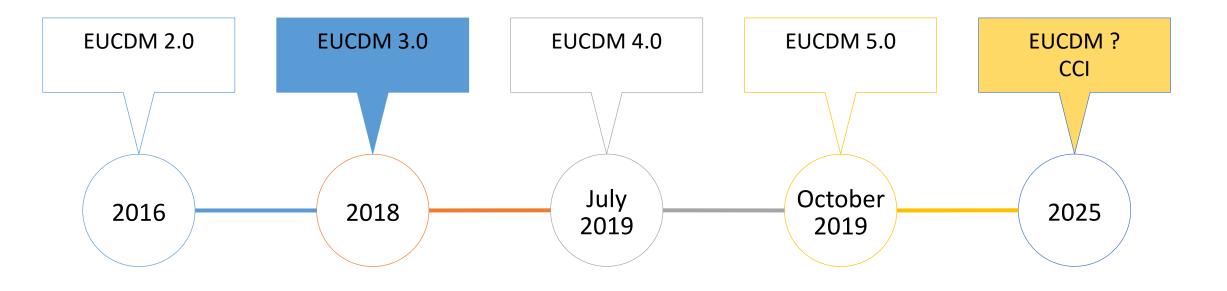
ECDP-AIS

Trader Systems Specification Dublin October 2019

Revenue Commissioners - European Dynamics



EUCDM Evolution timeline





The functional specification is divided into the following functional areas:

• Entry of Goods

EUROPEAN DYNAMICS

- Temporary Storage
- Import Release for free circulation
- Import Special Procedures
- Import Controls
- Import Refunds

For each functional area, the document contains:

- A Sequence Diagram listing the messages exchanged between Traders and Revenue Commissioners excluding technical details and processing logic.
- Summary Use Cases that describe the possible flows.



Intended audience

 Economic operators that conduct international movement of goods and intend to interact with the Republic of Ireland customs authorities. Working knowledge of customs procedures for import and the UCC (Union Customs Code) is essential to understand the terminology and concepts referenced in this document and its supplementing Annexes.



Documentation List

Document name	Description
AIS-Message-Structures	This document describes the logical
	structure of the messages exchanged
	between traders and the Revenue
	Commissioners for AIS
AIS-Codelists	The codelists referred to within the
	message-structures document.
AIS-Business-Rules-and-Conditions	The business rules and conditions
	referred to within the message-structures
	document and applied during message
	validation
AIS XSDs	A set of XSDs describing the business
	message content in XML.

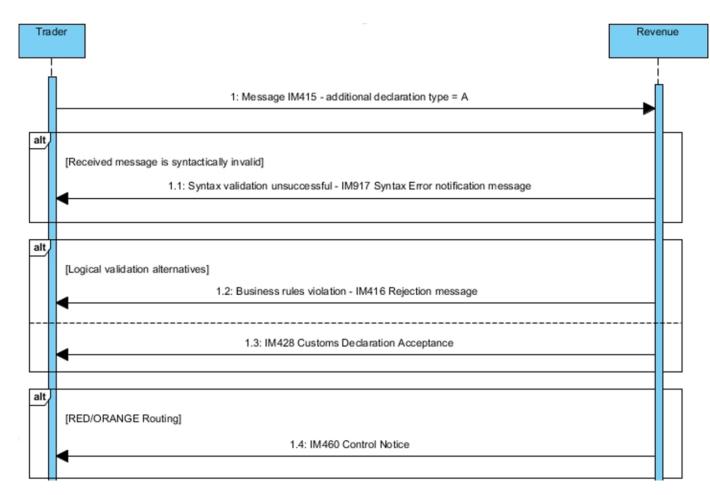




AIS Message Exchanges

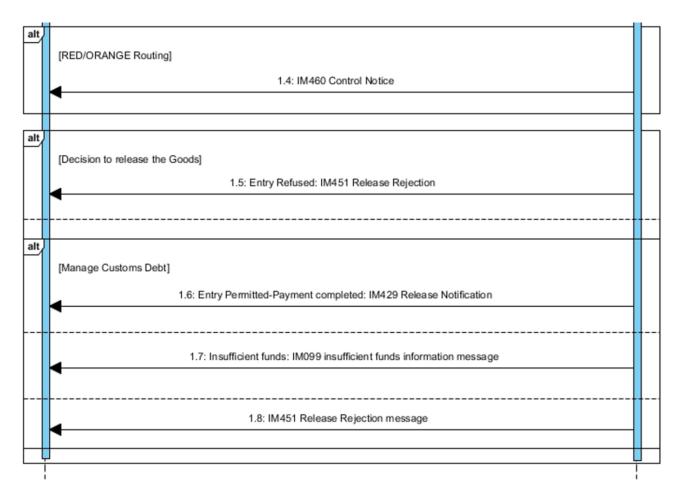
EUROPEAN DYNAMICS

Sample Message Flow (Sequence Diagram)



EUROPEAN DYNAMICS

Sample Message Flow (Sequence Diagram)





Sample Message Flow (Use Case)

Core Flow - Standard Customs Declaration

- AIS receives an IM415 message (additional declaration type = A)
- The message is syntactically valid
- The message is logically valid (No business rules violation)
- The declaration is Green routed
- The declaration is accepted

EUROPEAN DENAMICS

• AIS sends an IM428 acceptance message to the Trader



Sample Message Flow (Use Case)

Alt 1 - The declaration is syntactically invalid

- The IM415 message is syntactically invalid
- AIS sends an IM917 Syntax Error message to the Trader

Alt 2 - The declaration is logically invalid

- The IM415 message is logically invalid (Business rules violation)
- AIS sends an IM416 rejection message to the Trader

Alt 3 – RED/ORANGE Routing

- The Declaration is Orange/Red routed
- AIS sends an IM460 Control Notice message to the Trader

Alt 4 - Decision to release the Goods - Entry Refused

- The Goods cannot be released
- AIS sends an IM451 release rejection message to the Trader

Alt 5 - Decision to release the Goods - Entry Permitted

- The payment process is completed successfully
- The Goods can be released
- AIS sends an IM429 release notification message to the Trader

Sample Message Flow (Use Case)

Alt 6 - Insufficient funds

EUROPEAN DYNAMICS

- Customs debt is due, Trader's Revenue account has insufficient funds
- AIS sends an IM099 "insufficient funds" information message to the Trader

Alt 7 - Timer for payment expired

- Trader has failed to fulfil their financial obligation to Revenue within a specified time-limit
- AIS sends an IM451 Release Rejection message to the Trader





AIS Message Structures



Messages Structure

Notations

• Each message has a unique identifier, such as IM099, TS304, etc., which denotes the category of the message and the numeric identifier of the message in the category.

The document uses two tables to describe each message:

- The summary table outlines the structure of the message. It lists only the high level elements of the message, up to level three (3).
- The detailed description table, which includes all the XML elements of the message.



Messages Structure

For each XML element the following information is included:

Column name	Description
LEVEL (L)	The level of the given element in the hierarchy of all the XML elements of
	the message. One level one, there is only one, the so called "root" element
	of the XML document. Its name is the same as the identifier of the message
	(e.g. IM099, TS304).
MESSAGE ENTITY	The description of the message entity. The indentation visually represents
	the level of the entity in the hierarchy. Where applicable the entity is
	prefixed with the UCC identifier of the entity.
XML TAG	The actual XML tag (element) for this entity.
WCO CODE	Where applicable, this is the WCO code of the entity.



Messages Structure

For each XML element the following information is included:

Column name	Descripti	Description				
REPETITIONS	The repetitions (cardinality) of the element. The notation is explained in the examples below.					
	REP	Description				
	01	Zero or one repetitions. Therefore, this is an optional element that may exist up to one time.				
	11	Exactly one repetition. This is a mandatory element that may exist up to one time.				
	099	This is an optional element that may be repeated up to 99 times.				



Messages Structure

For each XML element the following information is included:

The type of the element. The notation is explained in the examples below. Note that the type defined in this document is abstract. There can be more restrictions to the acceptable syntax of each element. These are described in details in the respective XSD file.

REP	Description
Complex	This is a complex XML element. It does not include any final information. It includes elements of lower order below it.
date	Date formatted element.
а	Alphabetic element. Only letters and no number are allowed.
n	Numeric element. Only numbers and no letters are allowed.



Messages Structure

For each XML element the following information is included:

an	Alphanumeric element. Both letters and number are allowed.
an8	Alphanumeric element with exact length of eight (8) characters.
an170	Alphanumeric element with a length between 1 and 70 characters.
n16,6	Numeric, decimal element. The maximum permitted total digits are 16. Out of them, a max of six [6] can be decimal digits.
int	Integer number.
boolean	Boolean values (true, false).



Messages Structure

For each XML element the following information is included:

Column name	Description		
CODE LIST	Elements with a reference to a code list can take values only from the		
	specified code list. Please refer to the "AIS-Codelists" document, where the		
	code lists are documented.		
RULES AND	The values of some elements are validated against rules and conditions.		
CONDITIONS	In that case, the codes of the rules and conditions are included in the last		
	column. Please refer to the "AIS-Business-Rules-and-Conditions" document.		



3.19 MESSAGE IM429: RELEASE NOTIFICATION

Messages Structure

Summary

L	MESSAGE ENTITY	XML TAG	REP	ТҮРЕ
1	- IM429: Release Notification	IM429	11	Complex
2	Declaration	Declaration	11	Complex
3	1/1: Declaration type	DeclarationType_1_1	11	a2
3	1/2: Additional declaration type	AdditionalDeclarationType_1_2	11	a1
3	2/5: LRN	LRN_2_5	11	an122
3	2/6: Deferred payment	DeferredPayment_2_6	01	an135
3	MRN	MRN	01	an18
3	Date Limit for Response	ResponseDateLimit	01	date
3	Valuation Information	ValuationInformation	01	Complex
3	Goods Information	GoodsInformation	01	Complex
3	Transport Information	TransportInformation	01	Complex



Messages Structure

L	MESSAGE ENTITY	XML TAG	WCO CODE	REP	ТҮРЕ	CODE LIST	RULES AND CONDITIONS
5	5/14: Country of dispatch/export code	CountryDispatch_5_14	062	01	a2	CountryCode sFullList	
5	5/15: Country of origin code	CountryOrigin_5_15	063	01	a2	CountryCode sFullList	
5	5/16: Country of preferential origin code	CountryPreferentialOrigin_5_ 16	501	01	an14		
5	5/31: Date of acceptance	AcceptanceDate_5_31		01	date		
4	Goods Information	GoodsInformation		11	Complex		
5	6/1: Net mass (kg)	NetMass_6_1	128	01	n16,6		
5	6/2: Supplementary units	SupplementaryUnits_6_2	130	01	n16,6		
5	6/5: Gross mass (kg)	GrossMass_6_5	126	01	n16,6		BR6053, C0630, C0632
5	6/8: Description of goods	GoodsDescription_6_8	137	11	an1512		CD6081
5	Packaging	Packaging	93A	099	Complex		
6	6/9: Type of packages	TypePackage_6_9	141	11	an12	KindOfPackag es	



Code Lists



AIS Codelists



Code Lists

2.6 Authorisation type code

Code	Name / description
AEOC	Application or authorisation for the status of Authorised Economic Operator — Customs simplifications
AEOF	Application or authorisation for the status of Authorised Economic Operator — Customs simplifications/Security and safety
AEOS	Application or authorisation for the status of Authorised Economic Operator — Security and safety
CVA	Application or authorisation for the simplification of the determination of amounts being part of the customs value of goods
TST	Application or authorisation for the operation of storage facilities for the temporary storage of goods
BTI	Application or decision relating to Binding Tariff Information
BOI	Application or decision relating to Binding Origin Information
CGU	Application or authorisation for the provision of a comprehensive guarantee, including possible reduction or waiver
DPO	Application or authorisation for the deferment of payment
REM	Application or decision for the remission of the amounts of import or export duty
REP	Application or decision for the repayment of the amounts of import or export duty



Rules and Conditions



AIS Business Rules and Conditions



Rules and Conditions

Code	Description			
BR8063	 IF IM413 received the following fields cannot be modified: 1. MRN 2. LRN (DE 2/5) 3. Declaration Type (DE 1/1) 4. Additional Declaration Type (DE 1/2) 5. Customs Office of Lodgement 			
BR8064	IF IM413 received AND receive date is > 36 months from RELEASE date of MRN THEN REJECT with message IM405			
BR8065	VIII/1 MRN (Title for Recovery) must exist in ECDP-AIS			
BR8066	IF VIII/1 MRN status is RELEASED THEN AT LEAST one IM404 must exist with this MRN ELSE IF VIII/1 MRN status is INCATIVE THEN there must exist message IM409 with POSITIVE result (invalidation request accepted)			
BR8068	DE 1/1 of application must be "REM"			
BRA1061	 The decision reference number is structured as follows; 1) Identifier of the Member State where the decision is taken (a2) 2) Decision code type (an4) 3) Unique identifier for the decision per country (an29) 			



Thank you!