



# **ACDD**

# **Message Implementation**

# **Guide and Process**

# **Specifications**

# **Final Report**

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# ACDD

## Message Implementation Guide and Process Specifications

*Final Report*

Version No. 1.08

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## Acronyms and Definitions

ACDD	ASEAN Customs Declaration Document
AHTN	ASEAN Harmonized Tariff Nomenclature
AMS	ASEAN Member States
ASEAN	Association of Southeast Asian Nations
ASEC	ASEAN Secretariat
ASW	ASEAN Single Window
ASWSC	ASEAN Single Window Steering Committee
CCL	Core Component Library
Contractor	The company engaged to implement the ASW
Consultant	The person engaged to support the TWG in the development of the ACDD
DMPT	Data Model Project Team
DMR	Data Maintenance Request
DUNS	Data Universal Numbering System (by Dun & Bradstreet)
EAN	European Article Number (by GS1)
EDI	Export Declaration Information
EDIFACT	Electronic Data Interchange For Administration, Commerce and Transport
EU	European Union
GOVCBR	Government Cross Border Regulatory message
GS1	Global Standards One
HS	Harmonized (Tariff) System
IANA	Internet Assigned Numbers Authority
IATA	International Air Transport Association
ID	Identifier
INCOTERMS	International Commercial Terms
IP	Intellectual Property
IPM	Information Processing Modeling
ISO	International Organization for Standardization
ITU	International Telecommunication Union
LOE	Level of Effort
LPCO	Licence, Permit, Certificate and Other
MIG	Message Implementation Guide
MIME	Multi-Purpose Internet Mail Extensions
MoU	Memorandum of Understanding
PMO	Project Management Office
SAD	Single Administrative Document
TM	Transition and Migration
TOR	Terms of Reference

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TWG	Technical Working Group
UCR	Unique Consignment Reference
UNCL	United Nations Code List
UNDG	United Nations Dangerous Goods
UNECE	United Nations Economic Commission for Europe
UNLOCODE	United Nations Location Codes
UNTDDED	United Nations Trade Data Elements Directory
UN/CEFACT	United Nations Centre for Trade Facilitation and Electronic Business
UN/ECE	Same as UNECE
UN/EDIFACT	United Nations Electronic Data Interchange For Administration, Commerce and Transport
UN/LOCODE	Same as UNLOCODE
US-ACTI	United States - ASEAN Connectivity through Trade and Investment
WCO	World Customs Organization
XML	Extensible Markup Language
XSD	XML Schema Definition

## 1 Introduction

The ASEAN Customs Declaration Document (ACDD) is a paper document. It was based on the European Union (EU) Single Administration Document (SAD), a multi-purpose document consisting of 54 boxes.

The ACDD has evolved into a set of “information parameters”, where each box has been defined by a unique “Box No.”, a “Name” and a “Description”. The objective of this report is to develop an electronic equivalent of the ACDD to facilitate the exchange of “Export Declaration Information (EDI)” between the ASEAN Member States (AMS). The objective of the electronic ACDD is to support Customs in the importing country to carry out their risk management.

At the 35<sup>th</sup> ASEAN Single Window (ASW) Technical Working Group (TWG) meeting, held in Malaysia in April 2016, the AMS agreed on 15 mandatory information parameters. The remaining information parameters were all considered to be optional.

The Consultant was engaged by US-ACTI to assist the TWG in the development and implementation of the electronic ACDD by carrying out an assessment of the AMS’ readiness to exchange ACDD information and producing detailed technical specifications. This includes a message implementation guide, export declaration business process flow, process specifications and XML Schema Definitions (XSDs). The XML message to be exchanged between the AMS must also be aligned to the latest WCO Data Model.

The report that follows outlines the “Terms of Reference” (Section 2), the “Operational Rules” (Section 3), the “Methodology Used” (Section 4) and the “Alignment with the WCO Data Model” (Section 5). It then delves into the detailed “Technical Specifications” (Section 6), which includes the XML message implementation guide and process specifications. The report concludes by identifying the “Technical Gaps” (Section 7), based on the feedback from the AMS, and proposes a series of “Implementation Activities” (Section 8).



## 2 Terms of Reference

This section outlines the Terms of Reference (TOR) for this report.

### 2.1 Background

*At the 29th TWG Meeting in November 2014, a partnership matrix for the exchange of ACDD was presented based on the inputs from Cambodia, Indonesia, Malaysia, Thailand and Viet Nam on the questionnaire “Readiness to Pilot ACDD” and the list of minimal data elements for the export information exchange submitted by one Member State. Other Member States were requested to provide their input in order for the US-ACTI to come up with a consolidated and comprehensive partnership analysis.*

*At the 30th TWG Meeting in Jan 2015, the TWG came to a common understanding on the exchange of the ACDD:*

- *That data elements of the ACDD would be from export information; and*
- *The exchange of the ACDD would be for the purpose of risk management in importing countries.*

*However, the meeting did not agree on the minimum number and type of the data elements.*

*In view of the above, the Meeting agreed to request Member States to review the data elements in the ACDD to determine which data elements aligned with their export declarations and could be exchanged and propose the minimum data elements to be exchanged for further deliberation by the TWG.*

### 2.2 Binding Agreements on the exchange of ACDD

*The Article 6 of the “Protocol to Establish and Implement the ASEAN Single Window” states that the ACDD shall be used in the ASW system by Member States.*

*The ASEAN Single Window Steering Committee has agreed, pursuant to Article 6 of the ‘Protocol to Establish and Implement the ASEAN Single Window’, to implement the ACDD for export information exchange among ASEAN Member States.*

### 2.3 Member States’ Analysis of the Consolidated ACDD (minimal data elements)

*Based on input provided by all Member States (attached) pursuant to the 33rd TWG meeting, the US-ACTI Lead came up with a proposed list of ACDD data elements that could be exchanged as advance information to support Importing Member States in risk management.*

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Based on the discussions of the 34th TWG Meeting, 15 data elements are considered as mandatory and the remaining data elements are optional. The revised consolidated list of minimum data elements appears in appendix A<sup>1</sup>.

With regard to the “sub-processes” for the information flow of the export information message, the Meeting requested US-ACTI to provide a diagram of the ACDD business process, which appears in Appendix B<sup>2</sup>.

The ASW TWG will develop the XML message with the technical support of the Consultant to be appointed by US-ACTI for the exchange of the ACDD. Subject to the following limitations:

- Exchange of ‘live’ export data between Member States’ Customs Administrations would be subject to the national laws and regulations of the respective Member States.
- The types of commodities involved in the exchange of the ACDD will also be dependent on the mutual bilateral agreement/MoU between any two Member States concerned.

### 2.4 Objective

The objective of this study is to develop the ACDD message implementation guide and process specifications for Member States review and approval. This data will be exchanged through the ASW and could be used as advance information supporting risk management in the Importing AMS.

The specific goals of this study include:

- Develop an XML message to convey export declaration data that is aligned with the latest WCO data model for review by Member States;
- Propose a revised ACDD information process flow for review by Member States (see Appendix B);
- Develop a message implementation guide and process specifications, including the XML Schema Definition (XSD) for review by Member States; and
- Identify other funding requirements needed to support the exchange of the ACDD, if any.

### 2.5 Tasks

The Consultant will prepare a comprehensive written evaluation report that will include:

- Task 1: Provide the data harmonization methodology to be used;
- Task 2: Align the attached ACDD data structure with the latest WCO data set, and finalize for review and approval by Member States;
- Task 3: Develop the ACDD message implementation guide, export declaration business process flow, process specifications, including the XML Schema Definition (XSD);

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<sup>1</sup> The revised consolidated list of minimum data elements can be found in Section 5.1 of this report

<sup>2</sup> The diagram of the ACDD business process can be found in Section 6.1 of this report

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- *Task 4: Identify remaining technical gaps (including gateway connectivity issues, different schema implementation by Member States, etc., if any) that must be resolved prior to the exchange of the ACDD and provide recommendations on how to address any remaining gaps; and*
- *Task 5: Develop the implementation activities with timeline, user acceptance process and success indicators of the ACDD testing plan, to ensure that these requirements are met.*

*This activity will be carried out by the Consultant in collaboration with the participating AMS.*

*The Consultant shall develop the ACDD message implementation guide and process specifications for a total of thirty (30) Level of Effort (LOE) days starting from 16 May to 15 September 2016, and submit the final report by 05 September 2016.*

### 2.6 Deliverables

*The following deliverables are required for this activity:*

- *Deliverable 1: Submit the preliminary report that includes the Member States readiness to exchange ACDD information, message implementation guide, and process specifications for review and comment by AMS by 13 June 2016. The deliverable will contain a detailed assessment, preliminary findings, and implementation activities, user acceptance process and success indicators of the ACDD testing plan for AMS review; (Member States will be asked to revert with their comments by 27 June 2016);*
- *Deliverable 2: Submit the revised ACDD preliminary report by 04 July 2016;*
- *Deliverable 3: Presentation of the preliminary report (Deliverable 2) during the 36th TWG Meeting in Cambodia to be held from 19-22 July 2016;*
- *Deliverable 4: A draft ACDD final report will be submitted by the Consultant to AMS by 15 August 2016, which will incorporate the comments provided by AMS during the preliminary report presentation (Deliverable 3); (Member States will be asked to revert with their comments by 29 August 2016);*
- *Deliverable 5: An ACDD final report will be submitted by 05 September 2016;*

### 2.7 References

*The following documents can be used as references by the Consultant. They shall be provided to the Consultant upon contract award:*

- *The ASW transition to live operation scope of work*
- *ASW Protocol*
- *ASW Agreement*
- *Business processes for CEPT/ATIGA Form D (ASEAN preferential certificate of origin form)*
- *Relevant deliverables of component 1 of ASW Pilot Project (Deliverables #4, #5, #6, #7, #11 and Sections 6, 7, 8, 9 and 10 of deliverable #10)*
- *Information Process Modeling (IPM) study*
- *e-ATIGA Form D Process Specifications*
- *e-ATIGA Form D Message Implementation Guideline*

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- *Interoperability Specifications (including the Bridge Script)*
- *Study on the assessment of the viability of ASEC to host the ASW servers*
- *Project Management Office (PMO) Design paper*
- *ASW Transition Management (TM) Plan*
- *ACDD Requirement Analysis Paper*
- *Other relevant documents as determined by the Consultant.*

### **2.8 Management and Governance**

*This ACDD study will be conducted in collaboration with AMS through their representatives at the TWG and ASW Steering Committee (ASWSC) and with the consultant. AMS are requested to revert with their feedback / comments on the draft final report to be provided by the Consultant by end of 05 September 2016.*

*To ensure the success of this activity, AMS and their representatives are required to provide support for the conduct of the study by the Consultant (e.g. facilitation of contacts with technicians, policy makers, and those in charge of operating the NSWs) for the purpose of this ACDD study.*

*Throughout the duration of the project, the Consultant shall prepare and submit brief progress reports to the TWG and ASWSC every month for monitoring purposes.*

## 3 Operational Rules

For the purposes of sharing export declaration information between Member States to support risk management, the following operational rules for the ASEAN Customs Declaration Document (ACDD) shall be observed.

### 3.1 Rule 1: Definitions

- a) **ACDD** means an ASEAN Customs Declaration Document (ACDD) that is structured in accordance with these ACDD Message Implementation Guide and Process Specifications, and is transmitted electronically between Member States via the ASW.
- b) **ASW** means ASEAN Single Window;
- c) **ASW Gateway** means the software that enables Member States to connect to the ASW;
- d) **Exporting Member State** means the Member State sending the ACDD;
- e) **Importing Member State** means the Member State receiving the ACDD.

### 3.2 Rule 2: ASEAN Customs Declaration Document (ACDD)

- 1. In order to ensure interoperability, Member States shall exchange ASEAN Customs Declaration Documents (ACDDs) electronically in accordance with these *ACDD Message Implementation Guide and Process Specifications*, as may be updated from time to time.
- 2. In the event a Member State does not wish to implement all the electronic processes and related information elements specified in these *ACDD Message Implementation Guide and Process Specifications*, that Member State shall inform the other Member States, through the ASEAN Secretariat, which processes and related information elements it does not wish to implement.

### 3.3 Rule 3: Cancellation Requests

- 1. In exceptional cases, the exporting Member State may request for the ACDD to be cancelled and may be subsequently replaced.
- 2. ACDDs to be cancelled shall follow the generic cancellation process, as specified in the *Generic ASW Messages, Message Implementation Guide and Process Specifications*.

### 3.4 Rule 4: MIS Reporting

- 1. On a periodical basis, the transaction statistics from Member States' ASW Gateway should be extracted and uploaded to the Regional Services Portal, using an upload mechanism mutually agreed between the Member State and the ASEAN Secretariat.
- 2. On a periodical basis, the ASEAN Secretariat shall generate MIS Reports from the Regional Services Portal to enable each Member State to reconcile the transactions reported by the other Member States.
- 3. In the event a Member State identifies any discrepancies in the MIS Reports, they shall inform the other Member States, through the ASEAN Secretariat.

## 4 Methodology Used

This section outlines the approach of Task 1 of the TOR; *“Provide the data harmonization methodology to be used”*.

### 4.1 WCO Data Model

The WCO Data Model is described by the WCO as *“a set of carefully combined data requirements that are mutually supportive and which will be updated on a regular basis to meet the procedural and legal needs of cross-border regulatory agencies such as Customs, controlling export, import and transit transactions. It is consistent with other international standards such as the United Nations Trade Data Elements Directory (UNTDDED)”*.

This makes the WCO Data Model the ideal international reference model for the ACDD. Although there are other options, such as the UN/CEFACT Core Component Library (CCL), the WCO Data Model was specifically designed for Customs-to-Customs exchange.

Typically, a new version of the WCO Data Model is published at the end of each year and, at the time of writing this report, the latest version was WCO Data Model v3.5. A relatively high level of expertise is required to make full use of the WCO Data Model, because it consists of many artefacts, including a harmonized data set, code lists, UN/EDIFACT Message Implementation Guides (MIGs), XML Schema Definitions (XSDs) and a new concept known as “Information Packages”.

To make full use of the WCO Data Model, users must not only have a good business knowledge of Customs and other regulatory procedures, documents and data. They must also have a good technical understanding of international standards (i.e. UN/CEFACT, ISO, UNTDED etc.) and electronic message formats (i.e. XML and UN/EDIFACT).

For the purpose of this report, the Consultant considers the main WCO Data Model artefacts to be:

- WCO Data Set
- WCO Information Packages
- WCO XML Schema Definitions

The reason for identifying these particular artefacts is that they each represent another level of compliance with the WCO Data Model. It is understood that, while many Customs authorities claim to be aligned with the WCO Data Model, most only reach the first level of compliance by mapping their national data set to the WCO Data Set.

To be truly inter-operable, however, aligning to the WCO Data Set is not sufficient. Technical inter-operability can only be achieved at the implementation level. In order to achieve this objective, the WCO introduced a new concept in WCO Data Model v3.3 known as “Information Packages”. In simple terms, an “Information Package” is a hierarchical data structure based on the WCO Data Set, which allows users to align their documents to. Customs authorities who have mapped their data elements to the WCO’s “Information Packages” could therefore claim to have reached a second level of compliance.

To reach the third and full level of compliance with the WCO Data Model involves implementing the information packages using either the WCO’s XML Schema Definitions

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(XSDs) or their UN/EDIFACT Message Implementation Guides (MIGs), based on the new “GOVCBR” message.

Since the ACDD is intended as a Customs-to-Customs document, the Consultant recommends full compliance with WCO Data Model v3.5. From a strategic point of view, this should make it much easier for the AMS to be able to exchange data with other Customs authorities in future.

### 4.1.1 WCO Data Set

The first step in aligning the ACDD with the WCO Data Model is to break down each box into individual data elements and “map” them to the WCO Data Set. The WCO Data Set is essentially a harmonized data dictionary, where every data element is defined with the following attributes:

- WCO ID
- WCO Name
- WCO Definition
- WCO Class Name(s)
- WCO (Recommended) Format
- WCO (Recommended) Code List
- UNTDED ID
- UNTDED Name

In WCO Data Model v3.5, there is a total of 634 unique data elements defined in the WCO Data Set, which is divided into the following sections:

- Overall Data Set – contains 347 data elements
- SuperClass: Document - contains 40 data elements, prefixed by “D”
- SuperClass: GovernmentAgency - contains 12 data elements, prefixed by “G”
- SuperClass: Location – contains 63 data elements, prefixed by “L”
- SuperClass: Party – contains 137 data elements, prefixed by “R”
- SuperClass: TransportMeans – contains 19 data elements, prefixed by “T”
- SuperClass: BinaryFile – contains 16 data elements, prefixed by “M”

An example of how an ACDD box can be broken down and mapped to the WCO Data Model is Box 2, “Exporter/Consignor and Number”. It can be broken down and mapped as follows:

- Exporter’s Name -> WCO ID = R031, WCO Name = “Exporter – name”
- Exporter’s ID -> WCO ID = R032, WCO Name = “Exporter, coded”
- Exporter’s Street -> WCO ID 239, WCO NAME = “Street and number/P.O. Box”
- Exporter’s City -> WCO ID 241, WCO Name = “City name”
- Exporter’s Country -> WCO ID 242, WCO Name = “Country, coded”
- Exporter’s Postcode -> WCO ID 245, WCO Name = “Postcode identification”

It should be noted that the WCO Data Model is far from being complete and it is still considered to be “work in progress”. The WCO relies on feedback from its members, especially when data elements cannot be found in the WCO Data Model. When this happens, the WCO encourages its members to submit a “Data Maintenance Request (DMR)” to their “Data Model Project Team (DMPT)”.

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Fortunately, as the ACDD is based on the EU’s SAD, all of the data elements can already be found in WCO Data Model v3.5. The complete breakdown of the ACDD boxes and their individual data elements, hereafter referred to as the “ACDD Data Set”, is provided in Section 5.1.

### 4.1.2 WCO Information Packages

The second step is to create a WCO compliant data structure by “mapping” the ACDD Data Set to the relevant information package. There are 3 levels of information package:

- **Base** Information Package
- **Derived** Information Package
- **My** Information Package

A “Base” information package represents the main (top level) data structure. Its purpose is to provide a hierarchical data structure for users to align any type of regulatory document to. For example, in the WCO’s view, a Conveyance Report, a Cargo Report and a Goods Declaration are all types of “Declaration”. Other types of regulatory document are grouped under a generic data structure called “LPCO”, which is an abbreviation for Licence, Permit, Certificate and Other.

In WCO Data Model v3.5, there are 4 “Base” information packages:

- Declaration
- Response
- LPCO (Licence, Permit, Certificate and Other)
- Inter-Gov

The WCO have also provided some examples of “Derived” information packages (subsets of “Base”) and “My” information packages (subsets of “Derived”), as shown in Figure 1 below.

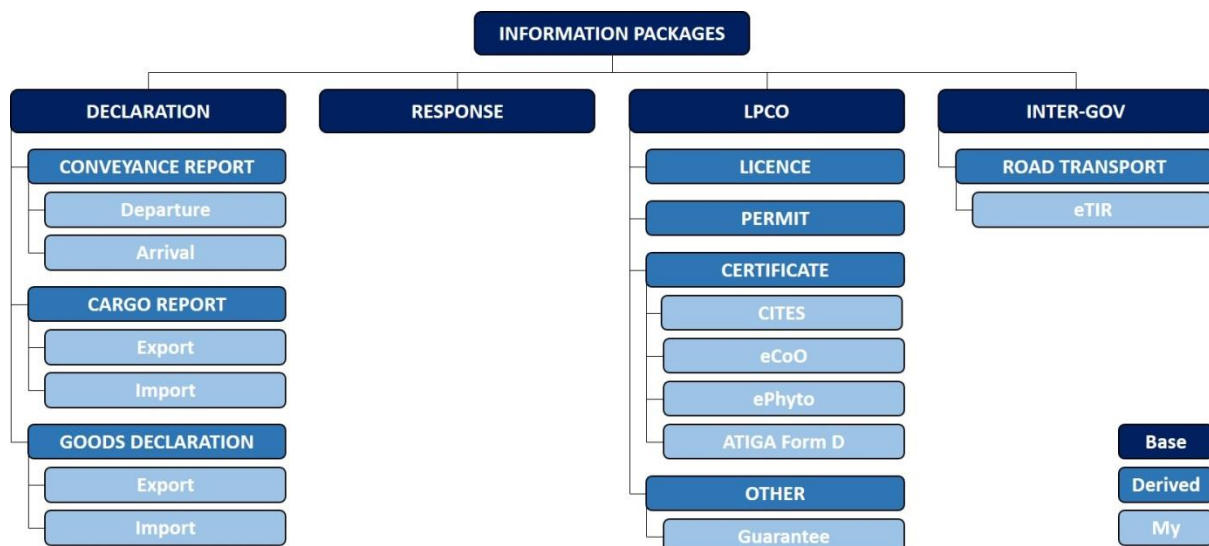


Figure 1 – WCO Information Packages

From an implementer’s perspective, “Base” information packages are the most important to align to, because they provide the main data structures and are used as the basis for the XML Schema Definitions (XSDs). Therefore, as long as the ACDD is a subset of “Declaration”, it



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actually makes no difference whether the ACDD is a “Derived” information package or a “My” information package.

For future reference, it is worth noting that the “Base” information packages are not all at the same level of maturity. For example, “LPCO” is based on only a limited number of international standards (e.g. CITES, ePhyto) and, interestingly, it also claims to cover regional documents including the ATIGA Form D. Similarly, “Inter-Gov” is based on only a handful of EU documents. This means that, until they are more developed, it makes them both very difficult to map national requirements to.

On the other hand, the “Declaration” and “Response” are the result of 20 years’ effort by Customs authorities, which started as a G7 initiative in 1996 and handed over to the WCO in 2002. In fact, some of the inputs for designing these are based on the widely used UN/EDIFACT Customs messages i.e. CUSREP, CUSCAR, CUSDEC and CUSRES.

In order to keep up-to-date with WCO Data Model v3.5, the Consultant recommends that the ACDD should be developed as a subset of the “GoodsDeclaration” information package, which the WCO have already “derived” as a subset of “Declaration”. This would make the ACDD a “My” information package, as shown in Figure 2 below.

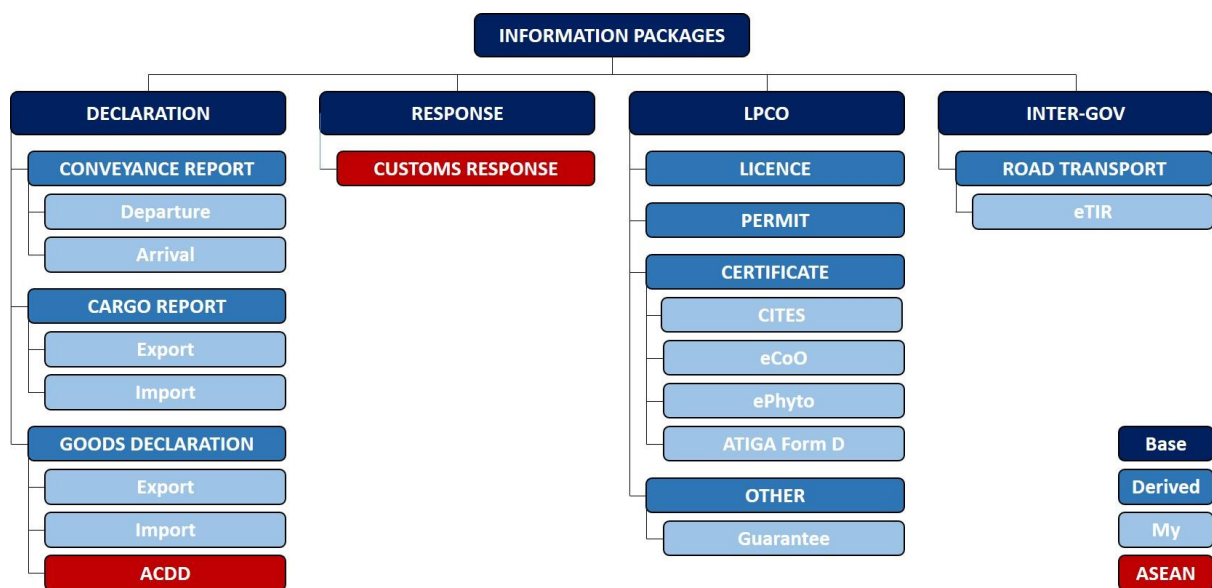


Figure 2 – ASEAN Information Packages

Figure 2 also shows a “Customs Response” as a “Derived” information package of “Response”, which the Consultant recommends as a response to the ACDD. At the moment, there are currently no “Derived” information packages for “Response”. However, like the ACDD, it does not make any difference whether it is a “Derived” or a “My” information package, because it does not affect the desired outcome i.e. to produce WCO compliant XSDs.

The WCO also encourages its members to submit DMRs to their “Data Model Project Team (DMPT)” for changes to information packages. For example, the AMS may wish to submit the additional ACDD data elements to be included in a future version of the “GoodsDeclaration”.

The complete mapping for the ASEAN information packages are provided in Section 5.2.

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## 4.1.3 WCO XML Schema Definitions

The final step in aligning the ACDD with the WCO Data Model is to “map” the ACDD information package to either the WCO’s XSDs or the UN/EDIFACT equivalent, “GOVCBR”. Since XML is the preferred choice of the TWG, the ACDD information package must be mapped to the WCO’s XSDs.

There are two options to create WCO compliant XSDs. The first option is to use a commercial software tool. The WCO has agreements with specialist software providers to make it easier for its members to map their data elements to the WCO Data Set and the WCO Information Packages, and to automatically generate WCO compliant XSDs. However, because such tools can be expensive, the second option is to develop the XSDs manually.

The Consultant has used the second option for the ACDD. The WCO Data Model v3.5 provides a set of XSDs for its members who choose to create their own WCO compliant XSDs. It includes XSDs for each “Base” information package, including the “Declaration”, “Response”, “LPCO” and “Inter-Gov”.

Details of the XSDs developed for the ACDD are provided in Section 5.3.

## 4.2 References

In addition to the references identified in the Terms of Reference (see Section 2.7), the Consultant has identified and used a number of other references for this report. The list includes many international standards, most of which are available in the public domain, and also the relevant artefacts from WCO Data Model v3.5.

- ACDD Information Parameters  
*Export Information Requirement Analysis TOR.docx*
- UNCEFACT XML Schemas version 13A  
<http://www.unece.org/fileadmin/DAM/uncfact/D13A.zip>
- UNECE Recommendation 3 – Country Codes (ISO 3166-1 2-alpha code)  
<http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec03/rec03.zip>
- UNECE Recommendation 5 – Trade Term Codes (INCOTERMS)  
<http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec05/rec05.zip>
- UNECE Recommendation 9 – Currency Codes (ISO 4217 3-alpha code)  
<http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec09/rec09.zip>
- UNECE Recommendation 16 – Location Codes (UN/LOCODE)  
<http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec16/rec16.zip>  
<http://www.unece.org/fileadmin/DAM/cefact/locode/loc152txt.zip>
- UNECE Recommendation 19 – Transport Mode Codes  
<http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec19/rec19.zip>
- UNECE Recommendation 21 – Package Type Codes (Annex VI)  
<http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec21/rec21.zip>

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- United Nations Code List (UNCL)  
<http://www.unece.org/fileadmin/DAM/trade/untdid/d13a/d13a.zip>  
*File Name: UNCL.13A*
- WCO Data Model v3.5  
*WCO DM V3.50\_DataSet\_Final (2015-01-12).xlsx*  
*WCO DM V3.50\_BIP\_Declaration.zip*  
*WCO DM V3.50\_BIP\_Response.zip*

It is important to note that the WCO Data Model is the Intellectual Property (IP) of the WCO and its artefacts should only be used for the benefit of WCO members, i.e. Customs authorities. For this reason, the WCO Data Model is not available in the public domain.

## 5 Alignment with the WCO Data Model

This section outlines the approach of Task 2 of the TOR; “Align the attached ACDD data structure with the latest WCO data set, and finalize for review and approval by Member States”.

### 5.1 ACDD Data Set

Following the methodology described in Section 4.1.1, the ACDD Information Parameters must first be broken down into individual data elements, as shown in Table 1. There are 5 columns in the table:

- **Box No.** – the unique number used to identify an ACDD Information Parameter
- **ACDD Name** – the name of the ACDD Information Parameter and also an indication of whether it is mandatory or optional, as agreed by the AMS
- **ACDD Description** – the description of the ACDD Information Parameter
- **WCO ID** – the unique number, assigned by the WCO, used to identify an individual data element within the WCO Data Set
- **WCO Name, Description Format and Code List** – the name, description, format and code list of the WCO data element

The ACDD Data Set provided in Table 1 is the result of mapping the ACDD Information Parameters to the WCO Data Set. It also demonstrates the first level of compliance with WCO Data Model v3.5 and it has been used to align the ACDD to the WCO’s information packages (see Section 5.2).

**Table 1: ACDD Data Set**

<b>Box No.</b>	<b>ACDD Name</b>	<b>ACDD Description</b>	<b>WCO ID</b>	<b>WCO Name, Description, Format and Code List</b>
<b>A</b>	<b>CUSTOMS OFFICE OF LODGEMENT</b>  <i>Mandatory</i>	To identify an office location at which a declaration is lodged. May include an office code generated by the system based on the UN/LOCODE.	065 [M]	<u>Office of declaration, coded</u> To identify a location at which a declaration is lodged  <i>an..17</i> <i>UN/LOCODE (an..5) + user code (an..12), or user code (an..17)</i>
<b>B</b>	<b>ACCOUNTING DETAILS</b>  <i>Optional</i>	It contains information summarizing the financial settlement of the tax and duty liability of the declaration, and may include the following; a) A final assessment reference number and date; b) The total duty/taxes	378 [O]	<u>Payment amount</u> The actual amount paid, or to be paid  <i>n..16,3</i>
			D005 [O]	<u>Additional document reference number</u> Identifier of a document providing additional information

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
		payable for the declaration, including any fees, such as declaration processing fees etc.; c) A reference or receipt number specifying a payment of a duty or tax; and; d) A code specifying a method of payment (such as 'cash', 'account', or direct debit').		<i>an..35</i>
			D006 [O]	<u>Additional document type, coded</u> Code specifying the name of an additional document  <i>an..3</i> <i>EDIFACT codes (1001) or User codes</i>
			D002 [O]	<u>Additional document issuing date</u> Date at which an additional document was issued and when appropriate, signed or otherwise authenticated  <i>an..35</i>
			107 [O]	Duty/tax payment method, coded Code specifying a method of payment  <i>a1</i> <i>WCO codes</i>
<b>C</b>	<b>CUSTOMS OFFICE OF DEPARTURE</b>  <i>Optional</i>	The Customs office responsible for controlling the departure of the goods being shipped.	G008 [O]	<u>Transit operation Start Office, coded</u> Code of the Customs office starting a transit operation  <i>an..17</i> <i>User codes</i> <i>UN/LOCODE (an..5) + user codes (an..12)</i>
<b>D</b>	<b>CONTROL BY THE CUSTOMS OFFICE OF DEPARTURE</b>  <i>Optional</i>	Contains relevant information on the control by the Customs office of departure of the consignment.	105 [O]	<u>Free text</u> Free text field available to the message sender for information  <i>an..512</i>
<b>E</b>	<b>CONTROL BY THE CUSTOMS OFFICE OF EXPORT</b>	Customs office through which the consignments get the clearance for	G012 [O]	<u>Supervising office, coded</u> To identify the office responsible for

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
	<i>Optional</i>	being exported from the customs territory.		<p>supervising the discharge of a Government procedure. It may be different from office of declaration or office of entry</p> <p><i>an..17</i>  <i>User codes</i>  <i>UN/LOCODE (an..5) + user codes (an..12)</i></p>
1	<p><b>Type</b></p> <p><i>Mandatory</i></p>	The 'type of declaration' code identifies whether the declaration is lodged for import, export, or customs transit or other transaction types. It may also contain initial information of the customs treatment (General Procedure) applied to the consignment as stipulated by national customs legislation.	D013 [M]	<p><u>Document name, coded</u>            Code specifying the name of a document</p> <p><i>an..3</i>  <i>EDIFACT codes (1001)</i>  <i>or User codes</i></p>
2	<p><b>Exporter/Consignor and Number</b></p> <p><i>Mandatory</i>  <i>(Name and number only)</i></p>	<p>For Export declarations: 'Exporter/Consignor' is the exporter or consignor of the goods subject to the export declaration from the customs territory. The name and complete address of the party who makes - or on whose behalf - the export declaration is made - and who is the owner of the goods or has similar right of disposal over them at the time when the declaration is accepted.</p> <p>Exporter/Consignor numbers are unique numbers used to positively identify the party. (Exporter number is optional according to national legislation)</p>	<p style="text-align: center;">R031 [M]</p> <hr/> <p style="text-align: center;">R032 [M]</p>	<p><u>Exporter – name</u>            Name [and address] of the person who makes - or on whose behalf - the export declaration - is made - and who is the owner of the goods or has similar right of disposal over them at the time when the declaration is accepted</p> <p><i>an..70</i></p> <hr/> <p><u>Exporter, coded</u>            To identify the name and address of party who makes , or on whose behalf the export declaration is made, and who is the owner of the goods or has similar rights of disposal over them at the time when the declaration is accepted</p>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
		<p>For Import Declarations: 'Exporter/Consignor' is the consignor or foreign supplier of the goods in an Import declaration. The name and address of the party consigning goods as stipulated in the transport contract by the party ordering transport.</p>		<p><i>an..17</i> International codes (e.g. DUNS, EAN) or user codes</p>
			239 [O]	<p><u>Street and number/P.O. Box</u> Specification of the postal delivery point such as street and number or post office box</p> <p><i>an..70</i></p>
			241 [O]	<p><u>City name</u> Name of a city</p> <p><i>an..35</i></p>
			245 [O]	<p><u>Postcode identification</u> Code specifying a postal zone or address</p> <p><i>an..9</i> User codes</p>
			242 [O]	<p><u>Country, coded</u> Identification of the name of the country or other geographical entity as specified in ISO 3166 and UN/ECE Rec 3</p> <p><i>a2</i> EDIFACT codes (3207) = ISO 3166-1 2-alpha code</p>
<b>3</b>	<p><b>Forms</b></p> <p><i>Optional</i></p>	<p>Indicates the sequence number of pages of this declaration, inclusive of the front page and any continuation (additional) pages. i.e. 1/3, 2/3, 3/3 etc. as required.</p>	N/A [O]	<p><b>Note:</b> This is not required in an electronic environment, as it refers to a number of paper documents.</p>
<b>4</b>	<p><b>Customs Reference number</b></p> <p><i>Mandatory</i></p>	<p>Customs Reference Number is the reference number assigned by the Customs authorities to the lodged ACDD or Customs Declaration Document in accordance</p>	D014 [M]	<p><u>Document reference number</u> Reference number identifying a specific document</p> <p><i>an..35</i></p>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
		with national customs regulations.		
5	<b>Total items</b>  <i>Optional</i>	The total number of goods items covered by the customs declaration usually grouped by tariff item.	228 [O]	<u>Total number of items</u> Count of the total number of goods items within a document  <i>n..5</i>
6	<b>Total packages</b>  <i>Optional</i>	The total number of packages in the consignment covered by the declaration	146 [O]	<u>Total number of packages</u> Count of total number of packages of the entire declaration/ consignment  <i>n..8</i>
7	<b>Declarant's reference number</b>  <i>Optional</i>	The unique reference number assigned to the declaration by the Declarant, for the purpose of identifying the declaration.	009 [O]	<u>Trader reference</u> A number assigned by a declarant such as a trader reference or a carrier reference  <i>an..35</i>
8	<b>Importer/Consignee; Number</b>  <i>Mandatory (Name and address only)</i>	For Export Declarations: 'Importer/Consignee' is the consignee of the goods in the foreign country. (The name [and address] of party to which goods are consigned.) For Import Declarations: 'Importer/Consignee' is the importer of the goods in an import transaction. (The party who makes - or on whose behalf a Customs clearing agent or other authorized person makes - an import declaration. This may include a person who has possession of the goods or to whom the goods are consigned.) The status of importers is established by national legislation.  Importer/Consignee	R037 [M]	<u>Importer – name</u> Name [and address] of party who makes -or on whose behalf a Customs clearing agent or other authorized person makes - an import declaration. This may include a person who has possession of the goods or to whom the goods are consigned  <i>an..70</i>
			R038 [O]	<u>Importer, coded</u> Identifier of party who makes - or on whose behalf a Customs clearing agent or other authorised person makes - an import declaration. This may include a person who has possession of the goods or to whom the goods are consigned



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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List	
		numbers are unique numbers used to positively identify the party. Usually these numbers are issued by government. (Importer number is optional according to national legislation)		<i>an..17</i> <i>International codes (e.g. DUNS, EAN) or user codes</i>	
			239 [M]	<u>Street and number/P.O. Box</u> Specification of the postal delivery point such as street and number or post office box  <i>an..70</i>	
				241 [O]	<u>City name</u> Name of a city  <i>an..35</i>
				245 [O]	<u>Postcode identification</u> Code specifying a postal zone or address  <i>an..9</i> <i>User codes</i>
				242 [O]	<u>Country, coded</u> Identification of the name of the country or other geographical entity as specified in ISO 3166 and UN/ECE Rec 3  <i>a2</i> <i>EDIFACT codes (3207) = ISO 3166-1 2-alpha code</i>
9	<b>Transport document number (B/L, AWB)</b>  <b>UCR (Unique consignment reference number)</b>  <i>Optional</i>	The transport document number is the reference number assigned by the carrier or his agent to the transport documents (Bill of Lading, air waybills, rail consignment notes etc) related to the shipment.  UCR is a unique number assigned to a consignment, both for	D023 [O]	<u>Transport document number</u> Reference number to identify a document evidencing a transport contract  <i>an..35</i>	
			D024 [O]	<u>Transport document type, coded</u> Code to identify the type of a document evidencing a transport contract	

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
		import and export purposes.		<i>an..3</i> <i>EDIFACT codes (1001)</i> <i>or User codes</i>
			016 [O]	<u>UCR</u> Unique number assigned to goods being subject to cross border transactions  <i>an..35</i> <i>WCO (ISO15459) or equivalent</i>
9a	<b>Cargo manifest reference</b>  <i>Optional</i>	The reference number of the Manifest or of other letters of transport of similar nature, which is assigned by transport operators or carriers.	D005 [O]	<u>Additional document reference number</u> Identifier of a document providing additional information  <i>an..35</i>
			D006 [O]	<u>Additional document type, coded</u> Code specifying the name of an additional document  <i>an..3</i> <i>EDIFACT codes (1001)</i> <i>or User codes</i>
10	<b>Date of exportation</b>  <i>Mandatory</i>	Date the goods depart the place of loading for export from the country of export.	024 [M]	<u>Exit date</u> Date when the goods depart from last port, airport, or border post of customs territory whence consigned (country of export)  <i>an..35</i>
11	Reserved for future use			
12	Reserved for future use			
13	Reserved for future use			
14	<b>Identification of Declarant/ Representative; Number</b>  <i>Mandatory</i>	Name and address of a party authorized to act on behalf of another party. (e.g. Customs Broker)	R124 [M]	<u>Declarant name</u> Name of a party who makes a declaration to an official body or - where legally permitted - in whose name, or on

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
	<i>(Name and number only)</i>	Declarant numbers are unique numbers used to positively identify the Declarant. Usually these numbers are issued by a government agency.		<p>whose behalf, a declaration to an official body is made</p> <p><i>an..70</i></p> <p><i>Note: Singapore have requested changing this to an..100. Malaysia have suggested leaving this as an..70 until a DMR has been raised and approved by the WCO.</i></p>
R123 [M]			<p><u>Declarant, coded</u></p> <p>Identification of a party who makes a declaration to an official body or - where legally permitted - in whose name, or on whose behalf, a declaration to an official body is made</p> <p><i>an..17</i></p> <p><i>International codes (e.g. DUNS, EAN) or user codes</i></p>	
239 [O]			<p><u>Street and number/P.O. Box</u></p> <p>Specification of the postal delivery point such as street and number or post office box</p> <p><i>an..70</i></p>	
241 [O]			<p><u>City name</u></p> <p>Name of a city</p> <p><i>an..35</i></p>	
245 [O]			<p><u>Postcode identification</u></p> <p>Code specifying a postal zone or address</p> <p><i>an..9</i></p> <p><i>User codes</i></p>	
242 [O]			<p><u>Country, coded</u></p> <p>Identification of the name of the country or</p>	

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				<p>other geographical entity as specified in ISO 3166 and UN/ECE Rec 3</p> <p><i>a2</i> EDIFACT codes (3207) = ISO 3166-1 2-alpha code</p>
15	<p><b>Country of exportation</b></p> <p><i>Optional</i></p>	<p>The country (customs territory) from which the goods are exported to the importing country (customs territory) as defined in the national legislation.</p>	457 [O]	<p><u>Country of exportation</u> The name of the country from which the goods are originally exported without any commercial transaction taken place in intermediate countries</p> <p><i>an..35</i></p>
15a	<p><b>Code of the Country of exportation</b></p> <p><i>Mandatory</i></p>	<p>The international standard code to identify the country of exportation.</p> <p>UNLOCODE to identify particular port or location in the country of export.</p>	062 [M]	<p><u>Country of exportation, coded</u> To identify the country from which the goods are originally exported without any commercial transaction taken place in intermediate countries</p> <p><i>a2</i> EDIFACT codes (3207) = ISO 3166-1 2-alpha code</p>
16	<p><b>Country of origin/code</b></p> <p><i>Optional</i></p>	<p>The country in which the goods have been produced or manufactured, according to criteria laid down for the application of the Customs tariff or quantitative restrictions, or any measure related to trade.</p> <p>The international standard code to identify the country of origin.</p>	063 [O]	<p><u>Country of origin, coded</u> To identify the country in which the goods have been produced or manufactured, according to criteria laid down for the application of the Customs tariff or quantitative restrictions, or any measure related to trade</p> <p><i>a2</i> EDIFACT codes (3207) = ISO 3166-1 2-alpha code</p>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
17	<b>Country of destination</b>  <i>Optional</i>	The country to which the goods are to be delivered to a final consignee or buyer.	464 [O]	<u>Country of destination</u> The name of the country of destination  <i>an..35</i>
17a	<b>Code of the country of destination</b>  <i>Optional</i>	The international standard code to identify the country to which the goods are to be delivered to a final consignee or buyer.	465 [O]	<u>Country of destination, coded</u> To identify the country of destination  <i>a2</i> <i>EDIFACT codes (3207)</i> <i>= ISO 3166-1 2-alpha code</i>
18	<b>Identification and nationality of means of transport</b>  <i>Optional</i>	Name or identification number of the transport, such as vessel name and voyage number, road vehicle plate number, aircraft flight number and date, etc. Nationality is country code for the country of registration of the means of transport.	T003 [O]	<u>Identification of means of transport at departure</u> To identify the means of transport used at the time of presentation of the consignment to a Customs office in the context of a goods declaration  <i>an..35</i>
			T004 [O]	<u>Identification of means of transport at departure, coded</u> Identifier to identify the means of transport at the time of departure  <i>an..25</i> <i>Sea: ITU Standard or Lloyd's number; Air: IATA aircraft ID; Road: national license plate; Rail: locomotive number</i>
			149 [O]	<u>Conveyance reference number</u> To identify a journey of a means of transport, for example voyage number, flight number, trip number  <i>an..17</i>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
			T013 [O]	<u>Nationality of means of transport at departure, coded</u> Nationality of the active means of transport used at place of departure  <i>a2</i> <i>EDIFACT codes (8453)</i>
19	<b>Container transport indicator</b>  <i>Optional</i>	A coded indication of whether or not goods are transported in a container.	096 [O]	<u>Container transport code</u> A code indicating whether or not goods are transported in a container  <i>an..3</i> <i>EDIFACT codes (7365) subset (codes 68 and 69)</i>
20	<b>Terms of delivery</b>  <i>Optional</i>	Delivery terms as in the contract of sale under which the seller undertakes to deliver merchandise to the buyer.	089 [O]	<u>INCOTERMS</u> Free form description of delivery or transport terms  <i>an..70</i>
			090 [O]	<u>INCOTERMS, coded</u> Code specifying the delivery or transport terms  <i>a3</i> <i>EDIFACT codes (4065)</i>
21	<b>Identification and nationality of means of transport crossing the border</b>  <i>Optional</i>	To be completed if the means of transport is not the same as that identified in box 18. The name or identification number of the transport, such as vessel name and voyage number, road vehicle plate number, aircraft flight number and date, etc. used in crossing the border of the importing country. The nationality is country code for the country of	T005 [O]	<u>Identification of means of transport crossing the border</u> Name to identify the means of transport used in crossing the border  <i>an..35</i>
			T006 [O]	<u>Identification of means of transport crossing the border, coded</u> Identifier to identify the means of transport used in crossing the border

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
		registration of the means of transport.		<i>an..25</i> <i>Sea: ITU Standard or Lloyd's number; Air: IATA aircraft ID; Road: national license plate; Rail: locomotive number</i>
			149 [O]	<u>Conveyance reference number</u> To identify a journey of a means of transport, for example voyage number, flight number, trip number  <i>an..17</i>
			T014 [O]	<u>Nationality of means of transport crossing the border, coded</u> Nationality of the active means of transport used in crossing the border, coded  <i>a2</i> <i>EDIFACT codes (8453)</i>
22	<b>Payment currency and Total Invoiced amount</b>  <i>Optional</i>	The code of the currency in which payment is made or is to be made.  Total of all invoice amounts for the goods declared to customs on the customs declaration document.  Subject to national legislation, in cases where there is no sale and no invoice, the value of the transaction (e.g. commercial contract, purchase agreement) declared to customs on the customs declaration could be recorded here.	135 [O]	<u>Currency, coded</u> Code specifying a monetary unit or currency  <i>a3</i> <i>EDIFACT codes (6345) = ISO 4217 3-alpha code</i>
			109 [O]	<u>Total invoice amount</u> Total of all invoice amounts declared in a single declaration  <i>n..16,3</i>
23	<b>Exchange rate</b>  <i>Optional</i>	The rate at which one specified currency is	118 [O]	<u>Rate of exchange</u> The rate at which one specified currency is

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
		expressed in another specified currency.		expressed in another specified currency <i>n..12,5</i>
24	<b>Nature of transaction</b>  <i>Optional</i>	Code specifying the nature of a transaction associated with a shipment, such as sale, gift, loan, hire, etc.	103 [O]	<u>Nature of transaction, coded</u> Code specifying the nature of a transaction associated with a shipment  <i>n..2</i> <i>WCO code (n1) + User code (n1)</i>
25	<b>Mode of transport</b>  <i>Mandatory</i>	Code specifying a type of means of transport for carriage of the goods across the border, such as air, sea, rail, road, etc.	T010 [M]	<u>Mode/type of means of transport crossing the border, coded</u> Means and mode of transport used for crossing the border, coded  <i>an..4</i> <i>EDIFACT codes (8179) / UN/Recommendation 28</i>
26	Reserved for future use			
27	<b>Place of Loading/Unloading</b>  <i>Mandatory</i>	For an Export declaration: The name of the seaport, airport, freight terminal, rail station or other place at which goods are to be loaded onto the means of transport being used for their carriage;	L009 [O]	<u>Place of loading</u> To identify a seaport, airport, freight terminal, rail station or other place at which goods are loaded onto the means of transport being used for their carriage  <i>an..256</i>
			L010 [M]	<u>Place of loading, coded</u> To identify a seaport, airport, freight terminal, rail station or other place at which goods are loaded onto the means of transport being used for their carriage  <i>an..17</i>



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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				<i>UN/LOCODE (an..5) + user codes (an..12)</i>
			L012 [O]	<u>Place of discharge</u> Name of the seaport, airport, freight terminal, rail station or other place at which the goods (cargo) are unloaded from the means of transport having been used for their carriage  <i>an..256</i>
			L013 [M]	<u>Place of discharge, coded</u> To identify a seaport, airport, freight terminal, rail station or other place at which goods are unloaded from the means of transport having been used for their carriage  <i>an..17</i> <i>UN/LOCODE (an..5) + user codes (an..12)</i>
28	<b>Financial and banking data</b>  <i>Optional</i>	Information on financial institutions or banking entities, which may include bank and branch identification, (either by names or identifying codes), account numbers, or details of payments relevant to this contract, such as TT and L/C reference numbers.	105 [O]	<u>Free text</u> Free text field available to the message sender for information  <i>an..512</i>
29	<b>Customs Office of entry/exit</b>  <i>Mandatory</i>	The name of or code to identify the customs office at which the goods enter or depart the customs territory. This Customs office may be different from the office of lodgement of the ACDD as in Field A.	G005 [M]	<u>Office of exit, coded</u> To identify the regulatory office at which the goods leave or are intended to leave the customs territory of despatch  <i>an..17</i>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				<i>User codes UN/LOCODE (an..5) + user codes (an..12)</i>
<b>30</b>	<b>Location of goods</b>  <i>Optional</i>	The name of or code to identify the place where the goods are located and where they are available for examination. This may be container terminal, the exporter's or importer's premises, temporary store, railway wagon, open area at port, etc.	L016 [O]	<u>Location of goods</u> Name of the place where goods are located  an..256
			L017 [O]	<u>Location of goods, coded</u> To identify the place where goods are located  an..17 UN/LOCODE (an..5) + user codes (an..12)
<b>31</b>	<b>Container identifier, marks and number of packages, number and type of packages, description of goods</b>  <i>Optional</i>	The item description, consisting of: a) Transport equipment identification number, such as the container number; b) The number of packages and the package type code; c) Identifying marks and numbers on the packages; and d) The plain description of the goods which should be clear enough for the nomenclature to be identified. It may also contain the tariff description of the goods in accordance with the AHTN.	159 [O]	<u>Equipment identification number</u> Marks (letters and/or numbers) which identify equipment e.g. unit load device  an..17 ISO 6346, IATA
			144 [O]	<u>Number of packages</u> Number of individual items packaged in such a way that they cannot be divided without first undoing the packing  n..8
			141 [O]	<u>Type of packages identification, coded</u> Code specifying the type of package of an item  an..2 EDIFACT codes (7065) = UN/ECE Recommendation 21 Annex VI
			142 [O]	<u>Shipping marks</u>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				Free form description of the marks and numbers on a transport unit or package  <i>an..512</i> <i>UN/ECE</i> <i>Recommendation 15</i>
			137 [O]	<u>Description of goods</u> Plain language description of the nature of a goods item sufficient to identify it for cross-border regulatory purposes such as customs, phytosanitary, statistical or transport.  <i>an..512</i>
32	<b>Item number</b>  <i>Mandatory</i>	Sequential number for the specific goods item within a declaration.	006 [M]	<u>Sequence number</u> Number indicating the position in a sequence  <i>n..5</i>
33	<b>Commodity code (AHTN)</b>  <i>Mandatory</i>	Eight-digit tariff code of the good in accordance with the national tariff.	145 [M]	<u>Commodity Classification</u> The non-commercial categorization of a commodity by a standard-setting organization  <i>an..18</i> <i>First 6 digits must be the HS code</i>
			337 [M]	<u>Commodity Classification Type</u> A qualifier to describe the commodity classification, e.g. Harmonized Tariff Schedule (HTS), Export Control Classification Code (ECCC), UNDG Code list, International Code of Zoological Nomenclature  <i>an..3</i>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				<p><i>EDIFACT codes (7143)</i></p> <p>Note: This is mandatory in the WCO Data Model, so it is recommended to set this to "SRZ".</p>
34	<p><b>Country of origin</b></p> <p><i>Mandatory</i></p>	<p>To identify the country in which the itemized goods are conferred the origin due to their production and/or manufacturing. The origin will be determined in accordance to criteria laid down by national customs legislation or regulations for the purposes of the customs tariff, or for the application of quantitative restrictions, or of any other measure related to trade.</p>	063 [M]	<p><u>Country of origin, coded</u></p> <p>To identify the country in which the goods have been produced or manufactured, according to criteria laid down for the application of the Customs tariff or quantitative restrictions, or any measure related to trade</p> <p><i>a2</i> <i>EDIFACT codes (3207)</i> <i>= ISO 3166-1 2-alpha code</i></p>
35	<p><b>Gross Weight</b></p> <p><i>Optional</i></p>	<p>Weight of goods including packing but excluding the carrier's equipment. The gross weight is expressed in kilogrammes.</p>	126 [O]	<p><u>Gross weight item level</u></p> <p>Weight of line item including packaging but excluding the transport equipment</p> <p><i>n..16,6</i></p>
36	<p><b>Preference</b></p> <p><i>Optional</i></p>	<p>To indicate (and activate) duty/tax treatment when goods are eligible for preferential treatment under regional, bilateral trade agreements or similar arrangements as determined by national legislation.</p>	164 [O]	<p><u>Type of duty regime, coded</u></p> <p>Code specifying a type of duty regime</p> <p><i>an..3</i> <i>EDIFACT codes (9213)</i> <i>or user codes</i></p>
37	<p><b>Procedure Code</b></p> <p><i>Optional</i></p>	<p>Code specifying a procedure performed by customs on goods which are subject to customs' control as established by national legislation.</p>	166 [O]	<p><u>Government procedure, coded</u></p> <p>Code specifying a procedure</p> <p><i>an..7</i> <i>EDIFACT codes (7365)</i> <i>For Customs: User codes, categorized</i></p>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				<i>based on the revised Kyoto Convention</i>
38	<b>Net Weight</b>  <i>Optional</i>	Weight of goods, excluding any packaging, in kilograms.	128 [O]	<u>Net net weight</u> Weight (mass) of the goods themselves without any packing  <i>n..16,6</i>
39	<b>Quota/license</b>  <i>Optional</i>	Reference to any quota or license applicable to the goods under the regime of trade control, for example in application of quantitative restrictions.	D005 [O]	<u>Additional document reference number</u> Identifier of a document providing additional information  <i>an..35</i>
			D006 [O]	<u>Additional document type, coded</u> Additional document type, coded  <i>an..3</i> <i>EDIFACT codes (1001)</i> <i>or User codes</i>
40	<b>Previous customs document/Summary Declaration</b>  <i>Optional</i>	Previous document is a reference to any Customs document number preceding and relevant to the current declaration – such as previous entry into warehouse, or a Summary Declaration (a simplified document used by traders to facilitate the reporting and clearance of cargo).	D018 [O]	<u>Previous document number</u> The number of a previous document  <i>an..35</i>
			D019 [O]	<u>Previous document type, coded</u> Type of document used for declaration previously presented, coded  <i>an..3</i> <i>EDIFACT codes (1001)</i> <i>or User codes</i>
41	<b>Supplementary quantity</b>  <i>Mandatory</i>	Quantity of the goods in the unit as required by Customs for tariff, statistical or fiscal purposes, when the national tariff item requires quantities other than net weight such as litres, number, dozen, etc.	130 [M]	<u>Tariff quantity/ Supplementary quantity</u> Quantity of the goods in the unit as required by Customs for tariff, statistical or fiscal purposes  <i>n..16,6</i>

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
42	<b>Item price</b>  <i>Optional</i>	Price of the item used as a basis for determining the value of the item for Customs assessment purposes as defined in national legislation.	112 [O]	<u>Item amount</u> Amount due for each chargeable item of goods or services  <i>n..16,3</i>
43	<b>Valuation Code</b>  <i>Optional</i>	Indicates the method on which the Customs value is determined.	122 [O]	<u>Valuation method, coded</u> Indicates the method on which the Customs value is determined  <i>an..3</i> <i>WCO codes</i>
44	<b>Other information covering the liability of goods to specific requirements, supporting documents and licenses</b>  <i>Optional</i>	Used for declaring any other information which is required or may assist processing but for which no specific box is provided. Examples include references to license or permit numbers, attached invoices, certificates or other supporting documents.	105 [O]	<u>Free text</u> Free text field available to the message sender for information  <i>an..512</i>
45a	<b>Added amount</b>  <i>Optional</i>	[Adjustments (additions or deductions) to the Customs value for purposes of calculation of duty and taxes as regulated by national legislation.]	181 [O]	<u>Other charges/deductions</u> An amount added or subtracted from the total invoice price (depending on the trade terms) not previously taken into account when determining the Customs value  <i>n..16,3</i>
			371 [O]	<u>Charges type, coded</u> Code identifying the type of charge or deduction  <i>an..3</i> <i>EDIFACT codes (5025)</i>
45b	<b>Deducted amount</b>  <i>Optional</i>	See above	181 [O]	<u>Other charges/deductions</u> An amount added or subtracted from the total invoice price

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				(depending on the trade terms) not previously taken into account when determining the Customs value  <i>n.. 16,3</i>
			371 [O]	<u>Charges type, coded</u> Code identifying the type of charge or deduction  <i>an..3</i> <i>EDIFACT codes (5025)</i>
46	<b>Statistical value</b>  <i>Optional</i>	The value of goods and commodities of the shipment being declared to the Customs for statistical purposes. In most of cases, the statistical value should be the customs value subject to provisions of national legislations and international commitments.	114 [O]	<u>Statistical value</u> Value declared for statistical purposes of those goods in a consignment which have the same statistical heading  <i>n.. 16,3</i>
47	<b>Collection of duty and taxes per declaration</b>  <i>Optional</i>	The total amount (grand total) of duties, taxes, and fees to be collected per the declared item in Box 31.  Payment method of Duty/tax/fee Method by which a duty, taxes, and fees is paid to the Customs or to a relevant competent authority.	120 [O]	<u>Duty/tax/fee assessed</u> Assessed amount of duty/tax/fee (includes all types of charges and duties) due and amount of reduction (if applicable). Assessed per duty/tax/fee type by item and/or declaration  <i>n.. 16,3</i>
			107 [O]	<u>Duty/tax payment method, coded</u> Code specifying a method of payment  <i>a1</i> <i>WCO codes</i>
48	<b>Deferred payment of duty/tax/fee</b>  <i>Optional</i>	Indicator of deferred payment of duty and tax, and subject to national requirements such as an account number or other reference.	014 [O]	<u>Payment reference number</u> Reference number specifying a payment of a duty or tax

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				<i>an..35</i>
<b>49</b>	<b>Identification of customs warehouses</b>  <i>Optional</i>	Identification and location of the warehouse in which the goods will be or have been stored.	L018 [O]	<u>Warehouse</u> Name and address of a warehouse where a particular goods shipment has been stored  <i>an..256</i>
			L019 [O]	<u>Warehouse, coded</u> To identify a warehouse where a particular goods shipment has been stored  <i>an..17</i> <i>User codes</i>
<b>50</b>	<b>Principal</b>  <i>Optional</i>	For transit, the 'Principal' is the natural or legal person who places goods under a Customs transit procedure and who is responsible to customs authorities in accordance with national legislation.  Other uses according to national legislation and requirements.	R001 [O]	<u>Transit principal – name</u> Name [and address] of party accepting liability for goods held or moving under a Customs authorization and - when applicable - a guarantee  <i>an..70</i>
			R002 [O]	<u>Transit principal, coded</u> Identifier of party accepting liability for goods held or moving under a Customs authorization and - when applicable - a guarantee  <i>an..17</i> <i>International codes (e.g. DUNS, EAN) or user codes</i>
<b>51</b>	<b>Intended Customs Offices at route</b>  <i>Optional</i>	To identify Customs offices responsible for transit formalities en-route	G006 [O]	<u>Transit customs office location</u> To identify the customs office which is responsible for transit formalities enroute  <i>an..17</i>



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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				<i>User codes UN/LOCODE (an..5) + user codes (an..12)</i>
<b>52</b>	<b>Security details</b>  <i>Optional</i>	Information regarding undertaking given in cash, bond, or as a written guarantee to ensure that an obligation to meet the customs debt will be fulfilled, for example, under a temporary admission or Customs transit procedure. Type: an1 Reference number: an..24	101 [O]	<u>Security details, coded</u> Codes specifying details regarding undertaking given in cash, bond or as a written guarantee to ensure that an obligation will be fulfilled, e.g. under a transit procedure  <i>an..3 WCO codes or user codes</i>
			100 [O]	<u>Guarantee reference identifier</u> Details regarding undertaking given in cash, bond or as a written guarantee to ensure that an obligation will be fulfilled, e.g. under a transit procedure  <i>an..35</i>
<b>53</b>	<b>Customs Office of Destination</b>  <i>Optional</i>		G010 [O]	<u>Termination office, coded</u> To identify the termination office  <i>an..17 User codes UN/LOCODE (an..5) + user codes (an..12)</i>
<b>54</b>	<b>Authentication</b>  <i>Optional</i>	The signature, name, position, of the authorized person making this declaration to Customs. The place and date of signature/authentication.	104 [O]	<u>Authentication</u> Proof that a document has been authenticated indicating where appropriate the authentication party  <i>an..256</i>
		As required by national legislation.	R007 [O]	<u>Authenticator – name</u> Name and address of the party which certifies

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Box No.	ACDD Name	ACDD Description	WCO ID	WCO Name, Description, Format and Code List
				that a document is authentic <i>an..70</i>
			423 [O]	<u>Job title</u> The job title or the rank of a person <i>an..70</i>
			D017 [O]	<u>Place of authentication of document</u> Name of a location where a document was signed or otherwise authenticated <i>an..256</i>
			451 [O]	<u>Actual Authentication Date</u> Actual date and optional time when this authentication was signed or otherwise authenticated <i>an..35</i>

### 5.2 Information Packages

Following the methodology described in Section 4.1.2, the ACDD Data Set can be used to align the ACDD to the WCO's "GoodsDeclaration" information package, as shown in Table 2. In addition, a subset of the WCO's "Response" information package can be used to create a "Customs Response", as shown in Table 3.

There are 4 columns in each table:

- **ID** - the unique number used to identify an individual data element within the WCO Data Set
- **Name** – the name of the data element within the WCO Data Set
- **M/O** – an indication of whether the data element is mandatory or optional
- **Box No.** - the unique number used to identify an ACDD Information Parameter, which can be used as a cross-reference against Table 1 (see Section 5.1)

#### 5.2.1 ACDD

The ACDD information package provided in Table 2 is the result of mapping the ACDD Data Set to the WCO's "GoodsDeclaration" information package. It also demonstrates the second level of compliance with WCO Data Model v3.5 and it has been used as the basis for the structure of the WCO compliant XSDs for the ACDD (see Section 5.3.1).

## ACDD Message Implementation Guide and Process Specifications

Please note that the shaded columns (in grey) show the data elements that are currently not available in the WCO's "GoodsDeclaration" information package. If required, the AMS have the option to submit DMRs to the WCO's Data Model Project Team (DMPT), for inclusion in a future version of the WCO Data Model.

**Table 2: ACDD Information Package**

ID	Name	M/O	Box No.
	Declaration	M	
017	Message function, coded	M	
D014	Document reference number	M	4
D011	Document issuing date	M	
D013	Document name, coded	M	1
065	Office of declaration, coded	M	A
228	Total number of items	O	5
109	Total invoice amount	O	22
146	Total number of packages	O	6
61B	Authentication	O	
451	Actual Authentication Date	O	54
104	Authentication	O	54
D017	Place of authentication of document	O	54
12A	Authenticator	O	
R007	Authenticator – name	O	54
423	Job title	O	54
02A	AdditionalDocument	O	
D005	Additional document reference number	O	B
D002	Additional document issuing date	O	B
D006	Additional document type, coded	O	B
38A	Control	O	
03A	AdditionalInformation	O	
105	Free text	O	D
40A	CurrencyExchange	O	
135	Currency, coded	O	22
118	Rate of exchange	O	23
57B	Declarant	M	
R124	Declarant name	M	14
R123	Declarant, coded	M	14
04A	Address	O	
241	City name	O	14
242	Country, coded	O	14
239	Street and number/P.O. Box	O	14
245	Postcode identification	O	14
92B	DeclarationGuarantee	O	
100	Guarantee reference identifier	O	52
101	Security details, coded	O	52
50A	DutyTaxFee	O	
94A	Payment	O	
107	Duty/tax payment method, coded	O	B
014	Payment reference number	O	48
378	Payment amount	O	B

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ID	Name	M/O	Box No.
56A	ExitOffice	M	
G005	Office of exit, coded	M	29
43B	Warehouse	O	
L018	Warehouse	O	49
L019	Warehouse, coded	O	49
57A	Exporter	M	
R031	Exporter – name	M	2
R032	Exporter, coded	M	2
04A	Address	O	
241	City name	O	2
242	Country, coded	O	2
239	Street and number/P.O. Box	O	2
245	Postcode identification	O	2
67A	GoodsShipment	M	
024	Exit date	M	10
103	Nature of transaction, coded	O	24
03A	AdditionalInformation	O	
105	Free text	O	28
28A	Consignment	M	
096	Container transport code	O	19
02A	AdditionalDocument	O	
D005	Additional document reference number	O	9a
D006	Additional document type, coded	O	9a
15A	BorderTransportMeans	M	
T005	Identification of means of transport crossing the border	O	21
T006	Identification of means of transport crossing the border, coded	O	21
T010	Mode/type of means of transport crossing the border, coded	M	25
T014	Nationality of means of transport crossing the border, coded	O	21
149	Conveyance reference number	O	21
46A	DepartureTransportMeans		
T003	Identification of means of transport at departure	O	18
T004	Identification of means of transport at departure, coded	O	18
T013	Nationality of means of transport at departure, coded	O	18
149	Conveyance reference number	O	18
64A	GoodsLocation	O	
L016	Location of goods	O	30
L017	Location of goods, coded	O	30
83A	LoadingLocation	M	
L009	Place of loading	O	27
L010	Place of loading, coded	M	27
30B	TransportContractDocument	O	
D023	Transport document number	O	9
D024	Transport document type, coded	O	9
31B	TransportEquipment	O	
159	Equipment identification number	O	31
38B	UnloadingLocation	M	

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ID	Name	M/O	Box No.
L012	Place of discharge	O	27
L013	Place of discharge, coded	M	27
99B	Destination	O	
465	Country of destination, coded	O	17a
464	Country of destination	O	17
95B	ExportCountry	M	
062	Country of exportation, coded	M	15a
457	Country of exportation	O	15
68A	GovernmentAgencyGoodsItem	M	
006	Sequence number	M	32
114	Statistical value	O	46
02A	AdditionalDocument	O	
D005	Additional document reference number	O	39
D006	Additional document type, coded	O	39
03A	AdditionalInformation	O	
105	Free text	O	44
23A	Commodity	M	
137	Description of goods	O	31
21A	Classification	M	
145	Commodity Classification	M	33
137	Commodity Classification Type	M	33
50A	DutyTaxFee	O	
164	Type of duty regime, coded	O	36
94A	Payment	O	
107	Duty/tax payment method, coded	O	47
120	Duty/tax/fee assessed	O	47
79A	InvoiceLine	O	
112	Item amount	O	42
41A	CustomsValuation	O	
122	Valuation method, coded	O	43
58B	ChargeDeduction	O	
371	Charges type, coded	O	45a, 45b
181	Other charges/deductions	O	45a, 45b
65A	GoodsMeasure	M	
126	Gross weight item level	O	35
128	Net net weight	O	38
130	Tariff quantity/ Supplementary quantity	M	41
70A	GovernmentProcedure	O	
166	Government procedure, coded	O	37
92A	Origin	M	
063	Country of origin, coded	M	34
93A	Packaging	O	
142	Shipping marks	O	31
144	Number of packages	O	31
141	Type of packages identification, coded	O	31
99A	PreviousDocument	O	
D018	Previous document number	O	40

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ID	Name	M/O	Box No.
D019	Previous document type, coded	O	40
92A	Origin	O	
063	Country of origin, coded	O	16
22B	TradeTerms	O	
090	INCOTERMS, coded	O	20
089	INCOTERMS	O	20
35B	UCR	O	
016	UCR	O	9
74A	Importer	M	
R037	Importer – name	M	8
R038	Importer, coded	O	8
04A	Address	M	
241	City name	O	8
242	Country, coded	O	8
239	Street and number/P.O. Box	M	8
245	Postcode identification	O	8
28B	Principal	O	
R001	Transit principal – name	O	50
R002	Transit principal, coded	O	50
97B	SupervisingOffice	O	
G012	Supervising office, coded	O	E
27B	TransitOffice	O	
G006	Transit customs office location	O	51
81B	TransitOperationStartOffice	O	
G008	Transit operation Start Office, coded	O	C
85B	TransitOperationTerminationOffice	O	
G010	Termination office, coded	O	53
35B	UCR	O	
009	Trader reference	O	7

### 5.2.2 Customs Response

The Customs Response information package provided in Table 3 is the Consultant's proposed minimum data set based on the WCO's "Response" information package. It also demonstrates the second level of compliance with WCO Data Model v3.5 and it has been used as the basis for the structure of the WCO compliant XSDs for the Customs Response (see Section 5.3.2).

**Table 3: Customs Response Information Package**

ID	Name	M/O	Box No.
	Response	M	
017	Message function, coded	M	
D014	Document reference number	M	
D029	Response issuing date	M	
D013	Document name, coded	M	
	Error	O	
488	Error description	O	
377	Error, coded	O	
	Declaration	M	

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ID	Name	M/O	Box No.
017	Message function, coded	M	
D014	Document reference number	M	4
D011	Document issuing date	M	
D013	Document name, coded	M	1

### 5.3 XML Schema Definitions

As mentioned in Section 4.1.3, the WCO Data Model provides XSDs for all 4 “Base” information packages, namely “Declaration”, “Response”, “LPCO” and “Inter-Gov”. For the purpose of this report, however, the Consultant has based the XSDs for the ACDD and the Customs Response on the “Declaration” and “Response” respectively.

There are 7 XSDs for both the “Declaration” and “Response”, including 5 common XSDs for code lists, which are used by the WCO, but are developed and maintained by UN/CEFACT. These XSDs do not require any customization:

- IANA\_CharacterSetCode\_2013-01-08.xsd
- IANA\_MIMEMediaType\_2013-07-23.xsd
- ISO\_ISO3AlphaCurrencyCode\_2012-08-31.xsd
- UNECE\_AgencyIdentificationCode\_D12B.xsd
- UNECE\_CharacterSetEncodingCode\_40106.xsd

Please note that the above XSDs are the Intellectual Property of UN/CEFACT and can be downloaded from the UN/CEFACT website at; <http://www.unece.org/fileadmin/DAM/uncefact/D13A.zip>.

The Consultant would like to point out that when validating the WCO XSDs provided in WCO Data Model v3.5, they were found to be incomplete. However, since the errors related to UN/CEFACT XSDs, they were easily rectified by obtaining the XSDs from UN/CEFACT.

#### 5.3.1 ACDD

The following XSDs, developed by the WCO, have been customized to meet the requirements of the ACDD information package:

- Declaration\_1p0.xsd
- Declaration\_1p0\_urn\_wco\_datamodel\_WCO\_Declaration\_DS\_1.xsd

The XSDs above demonstrate a third level of compliance with WCO Data Model v3.5. Using the XSDs provided by the WCO, to create a subset of the “Declaration”, the ACDD XML structure has been developed to produce the Message implementation Guide (see Section 6.3, Table 5).

#### 5.3.2 Customs Response

The following XSDs, developed by the WCO, have been customized to meet the requirements of the Customs Response information package:

- Response\_1p0
- Response\_1p0\_urn\_wco\_datamodel\_WCO\_Response\_DS\_1

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The XSDs above demonstrate a third level of compliance with WCO Data Model v3.5. Using the XSDs provided by the WCO, to create a subset of “Response”, a Customs Response XML structure has been developed to produce the Message implementation Guide (see Section 6.3, Table 6).



## 6 Technical Specifications

This section details the approach of Task 3 of the TOR; “Develop the ACDD message implementation guide, export declaration business process flow, process specifications, including the XML Schema Definition (XSD)”.

### 6.1 Business Process Flow

Figure 3 below shows the information flow, as agreed by the AMS. It shows the flow of information starting when the ACDD is sent from the NSW of the Exporting Country to when a final Acknowledgement Status is sent from the Customs authority in the Importing Country.

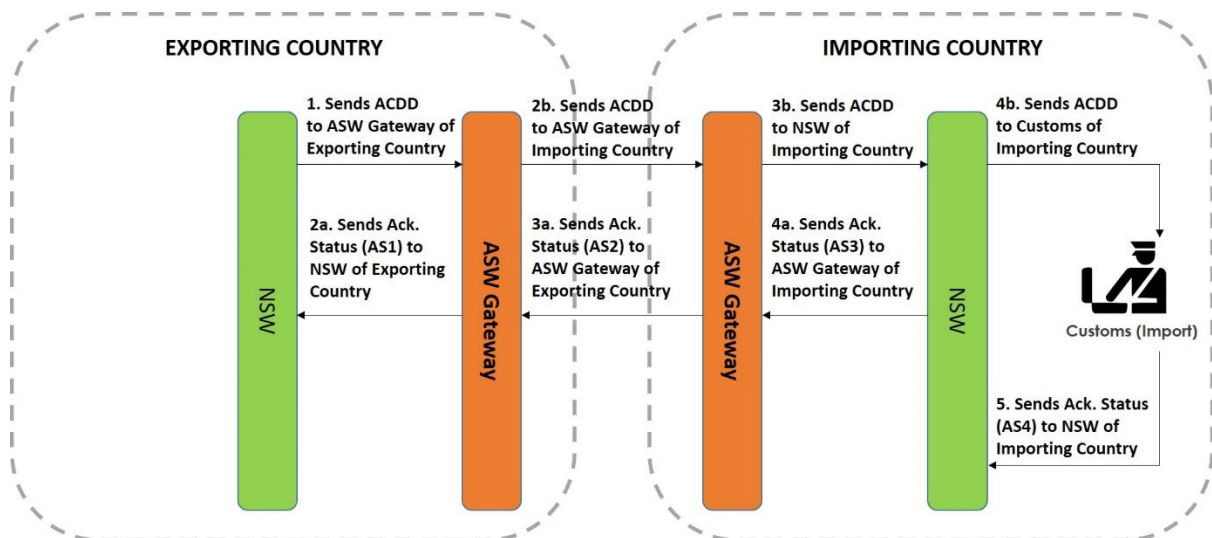


Figure 3 – Information Flow

Sub-processes for the Export Declaration information flow of the export information message comprise the following:

- Step 1: - NSW of the Exporting Country sends the ACDD to the ASW Gateway of the Exporting Country in a secure environment (in case of Indonesia, NSW will extract ACDD data from Export Declaration received from Customs). Where required by the national legislation of the exporting country, prior consent from trader must be sought before information on the ACDD is routed to other Customs Authority;
- Step 2: The ASW Gateway of the Exporting Country sends an Acknowledgement Status (AS1) to NSW of the Exporting Country and sends the ACDD to the ASW Gateway of the Importing Country;
- Step 3: The ASW Gateway of the Importing Country sends an Acknowledgement Status (AS2) to the ASW Gateway of the Exporting Country and sends the ACDD to the NSW of the Importing Country;
- Step 4: The NSW of the Importing Country receives ACDD and sends an Acknowledgement Status (AS3) to the ASW Gateway of the Importing Country related to the receipt of information and routes the received ACDD to the Customs of the Importing Country; and
- Step 5: Customs of the Importing Country sends an Acknowledgement Status (AS4) to the NSW of the Importing Country related to the receipt of information.

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## 6.2 Process Specifications

Figure 4 below provides a more detailed information flow, including the Acknowledgement Status messages and an *optional* Customs Response, which has been designed for future use. Future uses of the Customs Response are:

- It can be used to provide application level error messages, such as invalid codes.
- It can be used to provide the outcome of risk assessment, such as “held for inspection”.
- It can be used as an acknowledgement message if/when an ACDD is received from outside the ASW Environment e.g. in future, the ACDD may be used to receive export information from other countries, such as China, the European Union, Japan and the United States.
- It can be used for other WCO compliant message types, such as a pre-departure manifest.

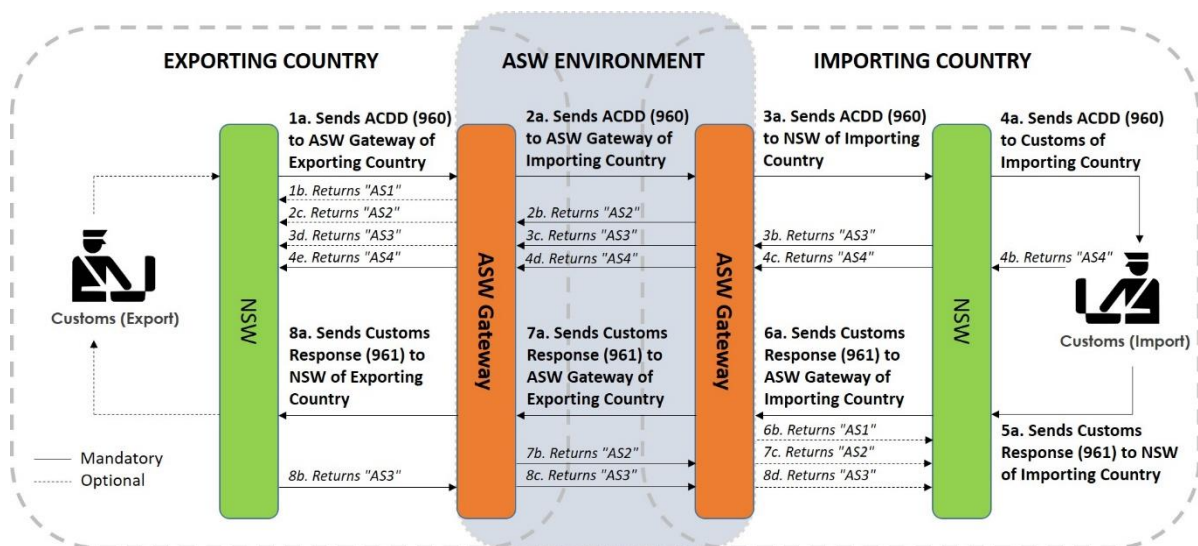


Figure 4 – Revised Information Flow

The information flow, as shown in Figure 4, has been broken down further into individual steps in Table 4 below. There are 3 columns in the table:

- **Step** - the unique identifier of the step, as shown in Figure 3
- **Description** – a description of the process at each step
- **Implementation Notes** – technical information, where applicable

Table 4: Process Specifications

Step	Description	Implementation Notes
1a	The NSW of the Exporting Country sends the ACDD (960) to the ASW Gateway of the Exporting Country in a secure environment (in case of Indonesia, NSW will extract ACDD data from Export Declaration received from Customs). Where required by the national legislation of the exporting country, prior consent	The Message Implementation Guide for the ACDD (960) can be found in Section 6.3, Table 5.  <i>It is recommended that the XML schemas should be used to validate the ACDD (960) <u>before</u> it is</i>

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Step	Description	Implementation Notes
	<p>from trader must be sought before information on the ACDD is routed to other Customs Authority.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p><i>encapsulated within the generic header.</i></p> <p><i>Appendix B.1 provides an example of an ACDD (960), encapsulated within the generic header, sent by the NSW of the Exporting Country.</i></p>
1b	<p>The ASW Gateway of the Exporting Country returns an Acknowledgement Status (AS1) to the NSW of the Exporting Country.</p> <p><i>Please note that this step is Optional.</i></p>	<p>The ASW Gateway's "AS1" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.2 provides an example of an Acknowledgement Status (AS1) returned by the ASW Gateway of the Exporting Country.</i></p>
2a	<p>The ASW Gateway of the Exporting Country sends the ACDD (960) to the ASW Gateway of the Importing Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The Message Implementation Guide for the ACDD can be found in Section 6.3, Table 5.</p> <p><i>Appendix B.1 provides an example of an ACDD (960), encapsulated within the generic header, sent by the ASW Gateway of the Exporting Country.</i></p>
2b	<p>The ASW Gateway of the Importing Country returns an Acknowledgement Status (AS2) to the ASW Gateway of the Exporting Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The ASW Gateway's "AS2" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.3 provides an example of an Acknowledgement Status (AS2) returned by the ASW Gateway of the Importing Country.</i></p>
2c	<p>The ASW Gateway of the Exporting Country sends the Acknowledgement Status (AS2) to the NSW of the Exporting Country.</p> <p><i>Please note that this step is Optional.</i></p>	<p>The ASW Gateway's "AS2" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.3 provides an example of an Acknowledgement Status (AS2) sent by the ASW Gateway of the Exporting Country.</i></p>
3a	<p>The ASW Gateway of the Importing Country sends the ACDD (960) to the NSW of the Importing Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The Message Implementation Guide for the ACDD can be found in Section 6.3, Table 5.</p> <p><i>Appendix B.1 provides an example of an ACDD (960), encapsulated within the generic header, sent by the ASW Gateway of the Importing Country.</i></p>
3b	<p>The NSW of the Importing Country returns an Acknowledgement Status (AS3) to the ASW Gateway of the Importing Country.</p>	<p>The ASW Gateway's "AS3" message will be used for this Acknowledgement Status.</p>

## ACDD Message Implementation Guide and Process Specifications

Step	Description	Implementation Notes
	<i>Please note that this step is Mandatory.</i>	<i>Appendix B.4 provides an example of an Acknowledgement Status (AS3), returned by the NSW of the Importing Country.</i>
3c	<p>The ASW Gateway of the Importing Country sends the Acknowledgement Status (AS3) to the ASW Gateway of the Exporting Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The ASW Gateway's "AS3" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.4 provides an example of an Acknowledgement Status (AS3), sent by the ASW Gateway of the Importing Country.</i></p>
3d	<p>The ASW Gateway of the Exporting Country sends the Acknowledgement Status (AS3) to the NSW of the Exporting Country.</p> <p><i>Please note that this step is Optional.</i></p>	<p>The ASW Gateway's "AS3" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.4 provides an example of an Acknowledgement Status (AS3), sent by the ASW Gateway of the Exporting Country.</i></p>
4a	<p>The NSW of the Importing Country sends the ACDD (960) to the Customs authority of the Importing Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The Message Implementation Guide for the ACDD can be found in Section 6.3, Table 5.</p> <p><i>It is recommended that the XML schemas should be used to validate the ACDD (960) after it is has been extracted from the generic header.</i></p> <p><i>Appendix B.1 provides an example of an ACDD (960), encapsulated within the generic header, sent by the NSW of the Importing Country.</i></p>
4b	<p>The Customs authority of the Importing Country returns an Acknowledgement Status (AS4) to the NSW of the Importing Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The ASW Gateway's "AS4" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.5 provides an example of an Acknowledgement Status (AS4) returned by the Customs authority of the Importing Country.</i></p>
4c	<p>The NSW of the Importing Country sends the Acknowledgement Status (AS4) to the ASW Gateway of the Importing Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The ASW Gateway's "AS4" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.5 provides an example of an Acknowledgement Status (AS4) sent by the NSW of the Importing Country.</i></p>
4d	<p>The ASW Gateway of the Importing Country sends the Acknowledgement</p>	<p>The ASW Gateway's "AS4" message will be used for this Acknowledgement Status.</p>

## ACDD Message Implementation Guide and Process Specifications

Step	Description	Implementation Notes
	<p>Status (AS4) to the ASW Gateway of the Exporting Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p><i>Appendix B.5 provides an example of an Acknowledgement Status (AS4) sent by the ASW Gateway of the Importing Country.</i></p>
4e	<p>The ASW Gateway of the Exporting Country sends the Acknowledgement Status (AS4) to the NSW of the Exporting Country.</p> <p><i>Please note that this step is Mandatory.</i></p>	<p>The ASW Gateway's "AS4" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.5 provides an example of an Acknowledgement Status (AS4) sent by the NSW of the Exporting Country.</i></p>
5a	<p>The Customs authority of the Importing Country sends the Customs Response (961) to the NSW of the Importing Country.</p> <p><i>Please note that this step is Optional.</i></p>	<p>The Message Implementation Guide for the Customs Response (961) can be found in Section 6.3, Table 6.</p> <p><i>It is recommended that the XML schemas should be used to validate the Customs Response (961) <u>before</u> it is encapsulated within the generic header.</i></p> <p><i>Appendix B.6 provides an example of a Customs Response (961), encapsulated within the generic header, sent by the Customs authority of the Importing Country.</i></p>
6a	<p>The NSW of the Importing Country sends the Customs Response (961) to the ASW Gateway of the Importing Country.</p> <p><i>Please note that this step is Mandatory, if a Customs Response (961) is sent in step 5a.</i></p>	<p>The Message Implementation Guide for the Customs Response can be found in Section 6.3, Table 6.</p> <p><i>Appendix B.6 provides an example of a Customs Response (961), encapsulated within the generic header, sent by the NSW of the Importing Country.</i></p>
6b	<p>The ASW Gateway of the Importing Country returns an Acknowledgement Status (AS1) to the NSW of the Importing Country.</p> <p><i>Please note that this step is Optional.</i></p>	<p>The ASW Gateway's "AS1" message will be used for this Acknowledgement Status.</p> <p><i>Appendix B.7 provides an example of an Acknowledgement Status (AS1) returned by the ASW Gateway of the Importing Country.</i></p>
7a	<p>The ASW Gateway of the Importing Country sends the Customs Response (961) to the ASW Gateway of the Exporting Country.</p>	<p>The Message Implementation Guide for the Customs Response can be found in Section 6.3, Table 6.</p> <p><i>Appendix B.6 provides an example of a Customs Response (961), encapsulated within the generic</i></p>

## ACDD Message Implementation Guide and Process Specifications

Step	Description	Implementation Notes
	<i>Please note that this step is Mandatory, if a Customs Response (961) is sent in step 5a.</i>	<i>header, sent by the ASW Gateway of the Importing Country.</i>
7b	The ASW Gateway of the Exporting Country returns an Acknowledgement Status (AS2) to the ASW Gateway of the Importing Country.  <i>Please note that this step is Mandatory, if a Customs Response (961) is sent in step 5a.</i>	The ASW Gateway's "AS2" message will be used for this Acknowledgement Status.  <i>Appendix B.8 provides an example of an Acknowledgement Status (AS2) returned by the ASW Gateway of the Exporting Country.</i>
7c	The ASW Gateway of the Importing Country sends the Acknowledgement Status (AS2) to the NSW of the Importing Country.  <i>Please note that this step is Optional.</i>	The ASW Gateway's "AS2" message will be used for this Acknowledgement Status.  <i>Appendix B.8 provides an example of an Acknowledgement Status (AS2) sent by the ASW Gateway of the Importing Country.</i>
8a	The ASW Gateway of the Exporting Country sends the Customs Response (961) to the NSW of the Exporting Country.  <i>Please note that this step is Mandatory, if a Customs Response (961) is sent in step 5a.</i>	The Message Implementation Guide for the Customs Response can be found in Section 6.3, Table 6.  <i>It is recommended that the XML schemas should be used to validate the Customs Response (961) <u>after</u> it is has been extracted from the generic header.</i>  <i>Appendix B.6 for an example of a Customs Response (961), including generic header, sent by the NSW of the Exporting Country.</i>
8b	The NSW of the Exporting Country returns an Acknowledgement Status (AS3) to the ASW Gateway of the Exporting Country.  <i>Please note that this step is Mandatory, if a Customs Response (961) is sent in step 5a.</i>	The ASW Gateway's "AS3" message will be used for this Acknowledgement Status.  <i>Appendix B.9 provides an example of an Acknowledgement Status (AS3) returned by the NSW of the Exporting Country.</i>
8c	The ASW Gateway of the Exporting Country sends the Acknowledgement Status (AS3) to the ASW Gateway of the Importing Country.  <i>Please note that this step is Mandatory, if a Customs Response (961) is sent in step 5a.</i>	The ASW Gateway's "AS3" message will be used for this Acknowledgement Status.  <i>Appendix B.9 provides an example of an Acknowledgement Status (AS3) sent by the ASW Gateway of the Exporting Country.</i>
8d	The ASW Gateway of the Importing Country sends the Acknowledgement	The ASW Gateway's "AS3" message will be used for this Acknowledgement Status.

## ACDD Message Implementation Guide and Process Specifications

Step	Description	Implementation Notes
	Status (AS3) to the NSW of the Importing Country.  <i>Please note that this step is Optional.</i>	<i>Appendix B.9 provides an example of an Acknowledgement Status (AS3) sent by the ASW Gateway of the Importing Country.</i>

### 6.3 Message Implementation Guide

The Message Implementation Guide contains the detailed technical specifications for both the ACDD and Customs Response. It is assumed that the Acknowledgement Status messages (AS1, AS2, AS3 and AS4), which were designed as generic messages for the ASW Gateway, are documented separately.

Details of how to create a WCO compliant XML instance file for the ACDD and Customs Response are provided in Tables 5 and 6. Each table consists of 7 columns:

- **WCO XML Tag Name** – the name of the XML tag as defined in the WCO XML compliant XSDs (see Section 5.3.1)
- **WCO ID** – the unique number, assigned by the WCO, used to identify an individual data element within the WCO Data Set
- **WCO Data Element Name** – the name of the WCO data element
- **Occurrence** – the minimum and maximum number of occurrences of the data element or group of data elements, depending on whether they are optional or mandatory. For example, “0..1” and “0..n” are used to indicate a minimum occurrence of zero (i.e. optional) with maximum occurrences of one or unlimited, respectively. Mandatory data elements are indicated using “1..1” or “1..n”.
- **Box No.** – the unique number used to identify an ACDD Information Parameter, which can be used as a cross-reference against Table 1 (see Section 5.1)
- **Format** – the recommended format of the data element, where “a” indicates alphabetic characters, “n” indicates numeric characters and “an” indicates alphanumeric characters. For example, “a3” indicates 3 fixed alphabetic characters, whereas as “an..3” indicates up to 3 alphanumeric characters. Decimal points are also used for monetary amounts, exchange rates and weight measurements, where “n..16.2” indicates a total of 18 digits with 2 decimal places.
- **Comments** – contains further information about the data element, such as the format of a date or recommended code lists.

Please note that the shaded columns (in grey) show the data elements that are currently not available in the WCO’s XSDs and have been manually added for the ACDD. If required, the AMS have the option to submit DMRs to the WCO’s Data Model Project Team (DMPT), for inclusion in a future version of the WCO Data Model.

Further information can be found in the Appendices. Appendix A contains a complete list of code lists, including links to standards where applicable, and Appendix B contains example XML instance files for both the ACDD and Customs Response.

## ACDD Message Implementation Guide and Process Specifications

**Table 5: ACDD XML Structure**

WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
<Declaration>			1..1			
<FunctionCode>	017	Message function, coded	1..1		n1	See Appendix A.1
<ID>	D014	Document reference number	1..1	4	an..35	
<IssueDateTime>	D011	Document issuing date	1..1		n8	CCYYMMDD
<TypeCode>	D013	Document name, coded	1..1	1	n3	Set to "960"
<DeclarationOfficeID>	065	Office of declaration, coded	1..1	A	an..17	National codes
<GoodsItemQuantity>	228	Total number of items	0..1	5	n..4	
<InvoiceAmount currencyID="USD">	109	Total invoice amount	0..1	22	n..13.n3	See Appendix A.3
<TotalPackageQuantity>	146	Total number of packages	0..1	6	n..8	
<Authentication>			0..1			
<ActualDateTime>	451	Actual Authentication Date	0..1	54	n8	CCYYMMDD
<Authentication>	104	Authentication	0..1	54	an..256	
<LocationName>	D017	Place of authentication of document	0..1	54	an..256	
<Authenticator>			0..1			
<Name>	R007	Authenticator – name	0..1	54	an..70	
<Designation>	423	Job title	0..1	54	an..70	
<AdditionalDocument>			0..1			
<ID>	D005	Additional document reference number	0..1	B	an..35	
<IssueDateTime>	D002	Additional document issuing date	0..1	B	n8	CCYYMMDD
<TypeCode>	D006	Additional document type, coded	0..1	B	an..3	See Appendix A.4
<Control>			0..1			
<AdditionalInformation>			0..1			
<Content>	105	Free text	0..1	D	an..512	
<CurrencyExchange>			0..1			
<CurrencyTypeCode>	135	Currency, coded	0..1	22	a3	See Appendix A.3
<RateNumeric>	118	Rate of exchange	0..1	23	n..7.n5	



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WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
<Declarant>			1..1			
<Name>	R124	Declarant name	1..1	14	an..70	
<ID>	R123	Declarant, coded	1..1	14	an..17	National codes
<Address>			0..1			
<CityName>	241	City name	0..1	14	an..35	
<CountryCode>	242	Country, coded	0..1	14	a2	See Appendix A.5
<Line>	239	Street and number/P.O. Box	0..1	14	an..70	
<PostcodeID>	245	Postcode identification	0..1	14	an..9	
<DeclarationGuarantee>			0..1			
<ReferenceID>	100	Guarantee reference identifier	0..1	52	an..35	
<SecurityDetailsCode>	101	Security details, coded	0..1	52	a1	See Appendix A.6
<DutyTaxFee>			0..1			
<Payment>			0..1			
<MethodCode>	107	Duty/tax payment method, coded	0..1	B	a1	See Appendix A.7
<ReferenceID>	014	Payment reference number	0..1	48	an..35	
<PaymentAmount currencyID="USD">	378	Payment amount	0..1	B	n..13.n3	See Appendix A.3
<ExitOffice>			1..1			
<ID>	G005	Office of exit, coded	1..1	29	an..17	National codes
<Warehouse>			0..1			
<Name>	L018	Warehouse	0..1	49	an..256	
<ID>	L019	Warehouse, coded	0..1	49	an..17	National codes
<Exporter>			1..1			
<Name>	R031	Exporter – name	1..1	2	an..70	
<ID>	R032	Exporter, coded	1..1	2	an..17	National codes
<Address>			0..1			
<CityName>	241	City name	0..1	2	an..35	
<CountryCode>	242	Country, coded	0..1	2	a2	See Appendix A.5
<Line>	239	Street and number/P.O. Box	0..1	2	an..70	
<PostcodeID>	245	Postcode identification	0..1	2	an..9	
<GoodsShipment>			1..1			

## ACDD Message Implementation Guide and Process Specifications

WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
<ExitDateTime>	024	Exit date	1..1	10	n8	CCYYMMDD
<TransactionNatureCode>	103	Nature of transaction, coded	0..1	24	n1	See Appendix A.8
<AdditionalInformation>			0..1			
<Content>	105	Free text	0..1	28	an..512	
<Consignment>			1..1			
<ContainerCode>	096	Container transport code	0..1	19	n2	See Appendix A.9
<AdditionalDocument>			0..1			
<ID>	D005	Additional document reference number	0..1	9a	an..35	
<TypeCode>	D006	Additional document type, coded	0..1	9a	an..3	See Appendix A.10
<BorderTransportMeans>			1..1			
<Name>	T005	Identification of means of transport crossing the border	0..1	21	an..35	
<ID>	T006	Identification of means of transport crossing the border, coded	0..1	21	an..25	Sea: ITU Standard or Lloyd's number; Air: IATA aircraft ID; Road: national license plate; Rail: locomotive number
<TypeCode>	T010	Mode/type of means of transport crossing the border, coded	1..1	25	n1	See Appendix A.11
<RegistrationNationalityCode>	T014	Nationality of means of transport crossing the border, coded	0..1	21	a2	See Appendix A.5
<JourneyID>	149	Conveyance reference number	0..1	21	an..17	
<DepartureTransportMeans>			0..1			
<Name>	T003	Identification of means of transport at departure	0..1	18	an..35	
<ID>	T004	Identification of means of transport at departure, coded	0..1	18	an..25	Sea: ITU Standard or Lloyd's number; Air: IATA aircraft ID; Road: national

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WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
						license plate; Rail: locomotive number
<RegistrationNationalityCode>	T013	Nationality of means of transport at departure, coded	0..1	18	a2	See Appendix A.5
<JourneyID>	149	Conveyance reference number	0..1	18	an..17	
<GoodsLocation>			0..1			
<Name>	L016	Location of goods	0..1	30	an..256	
<ID>	L017	Location of goods, coded	0..1	30	an..17	National codes
<LoadingLocation>			1..1			
<Name>	L009	Place of loading	0..1	27	an..256	
<ID>	L010	Place of loading, coded	1..1	27	an5	See Appendix A.12
<TransportContractDocument>			0..1			
<ID>	D023	Transport document number	0..1	9	an..35	
<TypeCode>	D024	Transport document type, coded	0..1	9	an..3	See Appendix A.13
<TransportEquipment>			0..999			
<ID>	159	Equipment identification number	0..1	31	an..17	ISO 6346, IATA
<UnloadingLocation>			1..1			
<Name>	L012	Place of discharge	0..1	27	an..256	
<ID>	L013	Place of discharge, coded	1..1	27	an5	See Appendix A.12
<Destination>			0..1			
<CountryCode>	465	Country of destination, coded	0..1	17a	a2	See Appendix A.5
<CountryName>	464	Country of destination	0..1	17	an..35	
<ExportCountry>			1..1			
<ID>	062	Country of exportation, coded	1..1	15a	a2	See Appendix A.5
<Name>	457	Country of exportation	0..1	15	an..35	
<GovernmentAgencyGoodsItem>			1..9999			
<SequenceNumeric>	006	Sequence number	1..1	32	n..4	
<StatisticalValueAmount currencyID="USD">	114	Statistical value	0..1	46	n..13.n3	See Appendix A.3
<AdditionalDocument>			0..9			

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WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
<ID>	D005	Additional document reference number	0..1	39	an..35	
<TypeCode>	D006	Additional document type, coded	0..1	39	an..3	See Appendix A.14
<AdditionalInformation>			0..1			
<Content>	105	Free text	0..1	44	an..512	
<Commodity>			1..1			
<Description>	137	Description of goods	0..1	31	an..512	
<Classification>			1..1			
<ID>	145	Commodity Classification	1..1	33	n8	
<IdentificationTypeCode>	137	Commodity Classification Type	1..1	33	a3	Set to "SRZ"
<DutyTaxFee>			0..1			
<DutyRegimeCode>	164	Type of duty regime, coded	0..1	36	n1	See Appendix A.15
<Payment>			0..1			
<MethodCode>	107	Duty/tax payment method, coded	0..1	47	a1	See Appendix A.8
<TaxAssessedAmount currencyID="USD">	120	Duty/tax/fee assessed	0..1	47	n..13.n3	See Appendix A.4
<InvoiceLine>			0..1			
<ItemChargeAmount currencyID="USD">	112	Item amount	0..1	42	n..13.n3	See Appendix A.4
<CustomsValuation>			0..1			
<MethodCode>	122	Valuation method, coded	0..1	43	n3	See Appendix A.16
<ChargeDeduction>			0..9			
<ChargesTypeCode>	371	Charges type, coded	0..1	45a, 45b	an..3	See Appendix A.16
<OtherChargeDeductionAmount currencyID="USD">	181	Other charges/deductions	0..1	45a, 45b	n..13.n3	See Appendix A.3
<GoodsMeasure>			1..1			
<GrossMassMeasure unitCode="KGM">	126	Gross weight item level	0..1	35	n..10.n6	See Appendix A.18
<NetNetWeightMeasure	128	Net net weight	0..1	38	n..10.n6	See Appendix A.18

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WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
unitCode="KGM">						
<TariffQuantity unitCode="KGM">	130	Tariff quantity/ Supplementary quantity	1..1	41	n..10.n6	See Appendix A.19
<GovernmentProcedure>			0..1			
<CurrentCode>	166	Government procedure, coded	0..1	37	an..3	See Appendix A.20
<Origin>			1..1			
<CountryCode>	063	Country of origin, coded	1..1	34	a2	See Appendix A.5
<Packaging>			0..1			
<MarksNumbersID>	142	Shipping marks	0..1	31	an..512	
<QuantityQuantity>	144	Number of packages	0..1	31	n..8	
<TypeCode>	141	Type of packages identification, coded	0..1	31	an2	See Appendix A.21
<PreviousDocument>			0..1			
<ID>	D018	Previous document number	0..1	40	an..35	
<TypeCode>	D019	Previous document type, coded	0..1	40	an..3	See Appendix A.22
<Origin>			0..1			
<CountryCode>	063	Country of origin, coded	0..1	16	a2	See Appendix A.6
<TradeTerms>			0..1			
<ConditionCode>	090	INCOTERMS, coded	0..1	20	a3	See Appendix A.23
<Description>	089	INCOTERMS	0..1	20	an..70	
<UCR>			0..1			
<ID>	016	UCR	0..1	9	an..35	WCO (ISO15459) or equivalent
<Importer>			1..1			
<Name>	R037	Importer – name	1..1	8	an..70	
<ID>	R038	Importer, coded	0..1	8	an..17	National codes
<Address>			1..1			
<CityName>	241	City name	0..1	8	an..35	
<CountryCode>	242	Country, coded	0..1	8	a2	See Appendix A.5
<Line>	239	Street and number/P.O. Box	1..1	8	an..70	
<PostcodeID>	245	Postcode identification	0..1	8	an..9	

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WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
<Principal>			0..1			
<Name>	R001	Transit principal – name	0..1	50	an..70	
<ID>	R002	Transit principal, coded	0..1	50	an..17	National codes
<SupervisingOffice>			0..1			
<ID>	G012	Supervising office, coded	0..1	E	an..17	National codes
<TransitOffice>			0..9			
<ID>	G006	Transit customs office location	0..1	51		
<TransitOperationStartOffice>			0..1			
<ID>	G008	Transit operation Start Office, coded	0..1	C	an..17	National codes
<TransitOperationTerminationOffice>			0..1			
<ID>	G010	Termination office, coded	0..1	53	an..17	National codes
<UCR>			0..1			
<TraderAssignedReferenceID>	009	Trader reference	0..1	7	an..35	

**Table 6: Customs Response XML Structure**

WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
<Response>			1..1			
<Function>	017	Message function, coded	1..1		n2	See Appendix A.24
<ID>	D014	Document reference number	1..1		an..35	
<IssueDateTime>	D029	Response issuing date	1..1		n8	CCYYMMDD
<TypeCode>	D013	Document name, coded	1..1		n3	Set to “961”
<Error>			0..99			
<Description>	488	Error description	0..1		an..512	
<ValidationCode>	377	Error, coded	0..1		an..8	See Appendix A.25
<Declaration>			1..1			
<FunctionCode>	017	Message function, coded	1..1		n1	See Appendix A.1
<ID>	D014	Document reference number	1..1	4	an..35	

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WCO XML Tag Name	WCO ID	WCO Data Element Name	Occurrence	Box No.	Format	Comments
<IssueDateTime>	D011	Document issuing date	1..1		n8	CCYYMMDD
<TypeCode>	D013	Document name, coded	1..1	1	n3	Set to "960"

### 7 Technical Gaps

This section explains the approach of Task 4 of the TOR; *“Identify remaining technical gaps (including gateway connectivity issues, different schema implementation by Member States, etc., if any) that must be resolved prior to the exchange of the ACDD and provide recommendations on how to address any remaining gaps”*.

On Monday, 25<sup>th</sup> June 2016 a Data Harmonization Workshop was held in Phnom Penh, Cambodia prior to the 36<sup>th</sup> TWG Meeting. During the workshop, the Consultant explained that the MIGs provided in this report were fully compliant with WCO Data Model v3.5, which includes the alignment to the WCO Data Set (see Section 5.1), the alignment with the WCO Information Packages (see Section 5.2) and alignment with the WCO XML Schema Definitions (see Section 5.3).

However, one of the major concerns highlighted by the Consultant was the number of code lists required for the ACDD, as there are 24 code lists that would need to be agreed by the AMS (see Appendix A). Another concern raised by the Consultant was the number of occurrences for repeating groups, such as the number of “goods items”.

#### 7.1 ACDD Questionnaire

At the 36<sup>th</sup> TWG Meeting, while sharing the key outcomes with the AMS, the Consultant suggested that a questionnaire be prepared to attempt to address some of the major concerns, in order to facilitate the implementation of the ACDD. The TWG Chair requested the AMS to complete and return the questionnaire by Monday, 8<sup>th</sup> August 2016.

At the time of submitting this Final Report, Indonesia, Malaysia, Singapore, Thailand and Viet Nam had returned their completed questionnaires. The questions and their corresponding answers, provided below, were presented at the 37<sup>th</sup> TWG Meeting, held in Vientiane, in order to reach a consensus by all AMS. Consensus on all questions was reached by the AMS at the 37<sup>th</sup> TWG Meeting and at the subsequent 38<sup>th</sup> TWG Meeting, held in Manila. The 38<sup>th</sup> TWG Meeting noted that the proposed recommendations by the consultant are either in line with the WCO’s recommended data format or based on international best practices. The decisions of these meetings are provided below.

**Question 1: Do you agree that all Customs offices in the ACDD should use the same code list as the “application / certification place” in the e-ATIGA Form D, which includes the codes for the Thailand provinces (format an5)?**

Malaysia and Singapore agree. However, Indonesia, Thailand and Viet Nam do not agree. Indonesia and Thailand have advised that Customs offices have a different physical location to the provincial offices used for the “application / certification place” on the e-ATIGA Form D. Viet Nam also advised that they have their own national codes to identify Customs offices which are in the format of an..6.

*Consultant’s Recommendation: To use the WCO’s recommended format an..17 to allow any national code, because the UN/LOCODE (an5) is not sufficient enough for all AMS, even with an additional suffix (an..12). The MIG has been changed accordingly (see Section 6.3, Table 5).*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the format an..17.*



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### **Question 2: Do you agree that the maximum number of items (Box 5 - Total items) should be limited to 9,999?**

Indonesia, Malaysia, Thailand and Viet Nam agree. However, Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Viet Nam have also suggested that this can be changed later if needed.

*Consultant's Recommendation: To discuss this further in the TWG, because a final decision will be required before implementation. The Consultant apologises for the oversight, but the format for the total number of items (Box 5) should be the same as the item number (Box 32), which is mandatory.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to limit the number of items to 9,999.*

### **Question 3: Do you agree that all monetary amounts should have a consistent format with two decimal places (format n..16.n2)?**

Indonesia, Malaysia and Thailand agree to using n..16.n2 for monetary amounts, but not exchange rates, which should be n..12.n5. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. They have also asked for clarification by the Consultant on what the format n..16.n2 refers to. Viet Nam do not agree, because they allow up to 4 decimal places for invoice values.

*Consultant's Recommendation: To leave this as n16.n2 until a final decision is required by the TWG. To clarify, as mentioned at the beginning of Section 6.3, the format n..16.n2 means up to 18 digits including 2 decimal places (i.e. 1234567890123456.12). The WCO's format of n..16,3 (including a comma rather than a decimal point) is based on the old EDIFACT representation, which means 16 digits including 3 implied decimal places. In this case, the value could be represented in the EDIFACT message as "1234567890123456", but it would be stored in the database as 1234567890123.456.*

*Decision of 37<sup>th</sup> TWG Meeting: Viet Nam suggested n..16.n3 - referred back to the Consultant.*

*Consultant's Response: On further investigation, the suggested format n..16.n2 should have been n..14.n2 to stay within the WCO's recommendation of 16 digits including 3 decimal places. Therefore, if the AMS can all agree to 3 decimal places, all monetary amounts should be changed to n..13.n3.*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed to follow the WCO's recommendation of n..16,3, which will be represented in the MIG (see Section 6.3, Table 5) as n..13.n3.*

### **Question 3b: Do you agree that all date formats should be n8 (CCYYMMDD), as proposed by Singapore in their comments on the Preliminary Report?**

Malaysia, Singapore and Thailand agree. Indonesia do not agree, because their system format is "DDMMYY". Viet Nam neither agree nor disagree, because their system format is "DDMMYYYY".

*Consultant's Recommendation: To leave this as "CCYYMMDD", because it can be easily formatted / re-formatted to / from either "DDMMYY" or "DDMMYYYY", if required by Indonesia or Viet Nam.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the format "CCYYMMDD".*

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**Question 4: Do you agree that the types of document for the “final assessment reference number” (Box B - ACCOUNTING DETAILS) can be initially limited to the following EDIFACT codes and expanded in future if/when required?**

- **916 = Related document**
- **917 = Receipt (Customs)**

Indonesia, Malaysia, Thailand and Viet Nam agree. However, Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Viet Nam have also suggested that this can be changed later if needed.

*Consultant’s Recommendation: To use the above codes until a final decision is required by the TWG.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the above codes until a final decision is required.*

**Question 5: Do you agree that the format of the declarant name (Box 14 - Identification of Declarant/ Representative; Number) should be increased from 70 characters to 100 characters, as proposed by Singapore in their comments on the Preliminary Report?**

Thailand and Viet Nam agree. However, Indonesia and Malaysia do not agree. Malaysia have suggested that it should be kept at 70 characters until a DMR has been raised and approved by the WCO. Indonesia’s is an..50. Singapore agree with Malaysia’s view that it should be kept at 70 characters.

*Consultant’s Recommendation: To use the WCO’s recommended format of an..70 until a DMR has been raised. The MIG has been changed accordingly (see Section 6.3, Table 5).*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the format an..70.*

**Question 6: Do you agree that the types of document for a cargo manifest (Box 9a - Cargo manifest reference) can be initially limited to the following EDIFACT codes and expanded in future if/when required?**

- **785 = Cargo manifest**

Indonesia, Malaysia, Thailand and Viet Nam agree. However, Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Viet Nam have also suggested that this can be changed later if needed.

*Consultant’s Recommendation: To use the above code until a final decision is required by the TWG.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the above codes until a final decision is required.*

**Question 7: Do you agree that only the transport modes are required (not types) and that a subset of UNECE Recommendation 19 should be used, which would include the following codes?**

- **1 = Maritime transport**
- **2 = Rail transport**

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- 3 = Road transport
- 4 = Air transport
- 5 = Mail

Indonesia, Malaysia, Singapore and Thailand agree. However, Viet Nam do not agree. They suggest adding code 6 (“Inland water transport”), removing code 5 (“Mail”), adding 7 (“Other”) and splitting code 1 (“Maritime transport”) into containerised and non-containerised. Singapore have also proposed to add code 7 (“Fixed transport installation”).

*Consultant’s Recommendation: To add code 7 (“Fixed transport installation”) and code 8 (“Inland water transport”), to be aligned with UNECE Recommendation 19, and to leave code 5 (“Mail”). With regard to Viet Nam’s suggestion to split code 1 (“Maritime transport”), their requirement is already catered for by the “Container transport indicator” (Box 19). The code list has been changed accordingly (see Appendix A.10).*

*Decision of 37<sup>th</sup> TWG Meeting: Viet Nam agreed to use the above codes until a final decision is required. However, Malaysia to revert with further comments.*

*Update: Malaysia suggested using the complete list in UNECE Recommendation 19, which include codes 0-9. The code list has been changed accordingly (see Appendix A.11).*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed with Malaysia’s suggestion to use the complete list in UNECE Recommendation 19, provided in Appendix A.11.*

**Question 8: Do you agree that the international standard ISO 3166-2 country code list should be used for nationality of transport at departure (Box 18 - Identification and nationality of means of transport) and nationality of transport crossing the border (Box 21 - Identification and nationality of means of transport crossing the border)?**

Indonesia, Malaysia, Thailand and Viet Nam agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. They have also asked the consultant to explain the difference between the EDIFACT codes and the international standard ISO 3166-2.

*Consultant’s Recommendation: To use ISO 3166-2. To clarify, most EDIFACT codes can be found in the United Nations Code List (UNCL). In the case of 8453, there is no code list, but for those familiar with EDIFACT would know to use the ISO 3166-2 code list. It is suggested that this may be an oversight in the WCO Data Model, especially as it is meant to be a “syntax neutral” data model and therefore it should be made explicit to use ISO 3166-2.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the ISO 3166-2 country code list until a final decision is required.*

**Question 9: Do you agree that the UN/LOCODE (an5) should be used for all locations, which includes goods location (Box 30 - Location of goods) and ports of loading / unloading (Box 27 - Place of Loading/Unloading)?**

Malaysia, Singapore and Thailand agree. However, Indonesia and Viet Nam do not agree to using the UN/LOCODE for goods location, because they each have their own national codes (Viet Nam use an..7). Both agree to using UN/LOCODE for ports of loading / unloading.

*Consultant’s Recommendation: To leave the UN/LOCODE for ports of loading and unloading, but to use national codes for goods location should use national codes. Bearing in mind that*

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*the WCO's recommendation is to use an..17 (including the UN/LOCODE), it is recommended that an..17 should be used to allow any national code. The MIG has been changed accordingly (see Section 6.3, Table 5).*

*Decision of 37<sup>th</sup> TWG Meeting: Indonesia and Viet Nam agreed to leave the UN/LOCODE for ports of loading and unloading and to use national codes for goods location. However, Malaysia and Singapore to revert with further comments.*

*Update: Malaysia agreed to using an..17, as recommended by the WCO.*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed to using an..17, as recommended by the WCO.*

**Question 10: Do you agree that the types of document for a transport contract document (Box 9 - Transport document number (B/L, AWB)) can be initially limited to the following EDIFACT codes and expanded in future if/when required?**

- **703 = House waybill**
- **704 = Master bill of lading**
- **714 = House bill of lading**
- **740 = Air waybill**

Malaysia and Thailand agree. However, Indonesia and Viet Nam do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Indonesia are using EDIFACT version D.14B, which uses different codes. Viet Nam would like to add 720 ("Rail consignment note") and 741 ("Master Waybill").

*Consultant's Recommendation: To add codes 705 ("Bill of lading"), 720 ("Rail consignment note") and 741 ("Master Waybill") until a final decision is required by the TWG. To clarify, all of the above codes are also aligned to EDIFACT D.14B. The code list has been changed accordingly (see Appendix A.12).*

*Decision of 37<sup>th</sup> TWG Meeting: Malaysia and Singapore to revert with further comments.*

*Update: Malaysia agreed with the Consultant's recommendation. Singapore has no further comments, since this is an optional data element.*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed to use the code list provided in Appendix A.12 until a final a final decision is required.*

**Question 11: Do you agree that the types of document for a quotas / licences (Box 39 - Quota/license) can be initially limited to the following EDIFACT codes and expanded in future if/when required?**

- **811 = Export licence**

Malaysia, Thailand and Viet Nam agree. However, Indonesia do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Indonesia are using their own codes to identify many different types of licences within their system. They also suggest that, since licences are national regulatory documents, this data element should not be required. Viet Nam have also suggested that this can be changed later if needed.

*Consultant's Recommendation: To use the above code until a final decision is required by the TWG.*

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*Decision of 37<sup>th</sup> TWG Meeting: Indonesia suggested to include national codes for consideration by Member States. Malaysia and Singapore conveyed that they do not require other licences.*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed to use the above codes until a final decision is required.*

**Question 12: Do you agree that the types of additional charges (Box 45a - Added amount) and deductions (Box 45b) can be initially limited to the following EDIFACT codes and expanded in future if/when required?**

- **64 = Freight charge**
- **67 = Insurance amount**
- **104 = Other transport charges**

Malaysia and Thailand agree. However, Indonesia do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Indonesia are using EDIFACT version D.14B and they don't have a code for "Other transport charges". Viet Nam have also suggested that this can be changed later if needed.

*Consultant's Recommendation: To use the above codes until a final decision is required by the TWG. To clarify, all of the above codes are also aligned to EDIFACT D.14B.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the above codes until a final decision is required.*

**Question 13: Do you agree that the format for gross weight (Box 35 - Gross Weight) and net weight (Box 38 - Net Weight) should have a consistent format with two decimal places (format n..16.n2)?**

Indonesia and Malaysia agree. However, Thailand and Viet Nam do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Thailand are using the format n..11.n3. Viet Nam use 1 decimal place for air mode and 3 for other transport modes. Singapore have also asked the Consultant to explain the rationale of not aligning with the WCO Data Model.

*Consultant's Recommendation: To leave this as n16.n2 until a final decision is required by the TWG. To clarify, the rationale behind this is based purely on the Consultant's own observations of how weights are represented on trade and transport documents, which is where the information is sourced from. In addition, the Consultant believes that the WCO's recommended format of n..16,6 is based on the maximum values of those Customs authorities who have contributed to the development of the WCO Data Model.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to using the format n..16.n2.*

*Consultant's Response: On further investigation, the suggested format n..16.n2 should have been n..14.n2 to stay within the WCO's recommendation of 16 digits including 3 decimal places. Therefore, given that Thailand are using 3 decimal places, the format for weights should be changed to n..13.n3 to be consistent with supplementary quantities (see Question 15).*

*Update: Thailand would be satisfied if the format was changed to n..13.n3.*

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*Update: Singapore have proposed to fully align with the WCO's recommended format n..16,6 including 6 implied decimal places, which would be represented in the MIG as n..10.n6. Thailand have agreed to either solution, therefore the format in the MIG has been changed accordingly – see Table 5.*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed to follow the WCO's recommendation of n..16,6, which will be represented in the MIG (see Section 6.3, Table 5) as n..10.n6.*

**Question 14: Do you agree that the internationally recognised code “KGM” (based on UNECE Recommendation 20 for units of measure) should be used for gross weight (Box 35 - Gross Weight) and net weight (Box 38 - Net Weight)?**

Indonesia, Malaysia and Thailand agree. However, Viet Nam do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Viet Nam also use “TNE” for tonnes.

*Consultant's Recommendation: To add the code “TNE” for tonnes until a final decision is required by the TWG. The code list has been changed accordingly (see Appendix A.17).*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to add the code “TNE” until a final decision is required.*

**Question 15: Do you agree that the format for tariff quantities (Box 41 - Supplementary quantity) should have a consistent format with two decimal places (format n..16.n2)?**

Indonesia, Malaysia and Viet Nam agree. However, Thailand do not agree because their system format is n..14.n3. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. They also asked the Consultant to explain the rationale of not aligning with the WCO Data Model.

*Consultant's Recommendation: To leave this as n16.n2 until a final decision is required by the TWG. To clarify, the Consultant's rationale was simply to make the format of tariff quantities consistent with weights.*

*Decision of 37<sup>th</sup> TWG Meeting: To clarify with the Consultant why the WCO format was not used.*

*Consultant's Response: The recommendation to use 2 decimal places was based purely on the Consultant's own experience, not only in using the WCO Data Model, but also of other Customs systems. However, on further investigation, the suggested format n..16.n2 should have been n..14.n2 to stay within the WCO's recommendation of 16 digits including 3 decimal places. Therefore, given that Thailand are using 3 decimal places, the format for weights (see Question 13) and supplementary quantities should be changed to n..13.n3.*

*Update: Thailand would be satisfied if the format was changed to n..13.n3.*

*Update: Singapore have proposed to fully align with the WCO's recommended format n..16,6 including 6 implied decimal places, which would be represented in the MIG as n..10.n6. Thailand have agreed to either solution, therefore the format in the MIG has been changed accordingly – see Table 5.*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed to follow the WCO's recommendation of n..16,6, which will be represented in the MIG (see Section 6.3, Table 5) as n..10.n6.*

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**Question 16: Do you agree that code list for the unit of measure for tariff quantities (Box 41 - Supplementary quantity) in the ACDD should be the same code list that is used for the e-ATIGA Form D (based on UNECE Recommendation 20 for units of measure)?**

Indonesia, Malaysia, Singapore and Thailand agree. Viet Nam seek further clarification on what this data element is used for, but as this is an optional data element, it could be changed later if needed.

*Consultant's Recommendation: To use the same code list as the unit of measure for tariff quantities until a final decision is required by the TWG. To clarify, this is the same data element used in the e-ATIGA Form D.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to use the same code list as the unit of measure for tariff quantities until a final decision is required.*

**Question 17: Do you agree that the maximum number of containers (Box 31 - Container identifier, marks and number of packages, number and type of packages, description of goods) should be limited to a maximum of 99?**

Malaysia, Singapore and Viet Nam agree. However, Indonesia and Thailand do not agree. Indonesia often have declarations with more than 100 containers and the biggest number they have had is 230 containers.

*Consultant's Recommendation: To change this to 999, although this should be discussed further in the TWG to reach a consensus.*

*Decision of 37<sup>th</sup> TWG Meeting: To clarify with the Consultant whether the 999 related to the number of containers or the character length.*

*Consultant's Response: The question is referring to the maximum number of containers at the item level (the character length is an..17).*

*Update: Thailand requested further clarification, because they do not store the "number of containers" at the item level. To clarify, the "number of containers" is not stored on the ACDD. This question relates only to the maximum number of containers that should be allowed at the header level. Please refer to Table 5: ACDD XML Structure, WCO ID 159 "Equipment identification number".*

*Decision of 38<sup>th</sup> TWG Meeting: AMS agreed to limit the maximum number of container to 999 until a final decision is required.*

**Question 18: Do you agree that the maximum number of quota/licences (Box 39 – Quota / license) should be limited to a maximum of 9?**

Malaysia and Viet Nam agree. However, Indonesia and Thailand do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Indonesia have instances of more than 9 supporting documents for an item. Singapore also asked for clarification on what this question refers to. Viet Nam have also suggested that this can be changed later if needed.

*Consultant's Recommendation: To leave this at 9 until final decision is required by the TWG. To clarify, this question relates specifically to Box 39, which is meant to include a list of quota / licence document reference numbers and not all supporting documents. Therefore, it seems very unlikely that any item will have more than 9 quotas / licences.*

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*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to limit the number of quotas / licences to 9 until a final decision is required.*

### **Question 19: Do you agree that the maximum number of other charges (Box 45a – Added amount and Box 45b - Deducted amount) should be limited to a maximum of 9?**

Malaysia and Thailand agree. However, Indonesia do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Viet Nam seek further clarification on what this data element is used for, but as this is an optional data element, it could be changed later if needed. Indonesia have plenty of instances where there are more than 9 types of charges.

*Consultant's Recommendation: To leave this at 9 until final decision is required by the TWG.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to limit the number of other charges to 9 until a final decision is required.*

### **Question 20: Do you agree that the maximum number of Customs transit offices should be limited to a maximum of 9?**

Malaysia, Thailand and Viet Nam agree to a maximum of 9 per declaration. However, Indonesia do not agree. Singapore neither agree nor disagree, as this data element is optional, so a final decision is not required at this point. Indonesia can potentially have more than 9 Customs transit offices, so this should be catered for as a future requirement. Viet Nam have also suggested that this can be changed later if needed.

*Consultant's Recommendation: To leave this at 9 until final decision is required by the TWG.*

*Decision of 37<sup>th</sup> TWG Meeting: AMS agreed to limit the number of Customs transit offices to 9 until a final decision is required.*

## 7.2 Linking the ACDD to the Import Declaration

Another major concern with implementing the ACDD, raised by Malaysia, is “how will the ACDD be linked to the Import Declaration?”.

In fact, the WCO's Unique Consignment Reference (UCR) was designed specifically for the purpose of Customs-to-Customs exchange, which should consist of 4 parts;

- <Last Digit of the Year> e.g. “6” for 2016, “7” for 2017
- <Country of Export Code> e.g. “MY” for Malaysia
- <Exporter Code> e.g. “ABCDEFGH”
- <Declarant's Reference Number> e.g. “12345678”

In this example, the UCR would be “6MYABCDEFGH12345678” would be expected to be submitted on the Import Declaration to allow Customs to trace the goods back to the exporter.

Unfortunately, at present, both the “Declarant's Reference Number” and the “UCR” are currently optional information parameters. It is also very likely that most (if not all) of the AMS do not currently capture the UCR as part of their import declaration process.

It is recommended that this topic is discussed further within TWG.





## 8 Implementation Activities

This section explains the approach of Task 5 of the TOR; *“Develop the implementation activities with timeline, user acceptance process and success indicators of the ACDD testing plan, to ensure that these requirements are met”*.

### 8.1 Timeline

The target date for the implementation of the ACDD is the 3<sup>rd</sup> July 2018.

At least 3 participating AMS should be ready to start the End-to-End tests (see Section 8.2.2) by the 2<sup>nd</sup> April 2018, before the formal user acceptance process should commence.

### 8.2 User Acceptance Process

The User Acceptance process for the ACDD is expected to be slightly different from the e-ATIGA Form D, as it is not replacing an existing process. However, there will still be a need to carry out End-to-End Tests in the test environment, followed by Parallel Tests in the production environment. In addition, it is also recommended that Point-to-Point tests should be carried out by each Member State before starting the End-to-End tests.

#### 8.2.1 Point-to-Point Tests

In the first phase, “Point-to-Point” tests should be carried out to ensure that each step in the process described in Section 6.2 are working satisfactorily within each AMS’ own test environment.

The proposed tests are provided in Table 7 below, which contains 3 columns:

- **Test No.** – a sequential number assigned to each test to identify the Point-to-Point test
- **Test Description** – the description of each “send” process, as described in Section 6.2
- **Expected Outcomes** – the main outcomes of each test, including the expected message types, recipient parties and MIS reporting requirements

**Table 7: Point-to-Point Tests**

Test No.	Test Description	Expected Outcomes
1	The NSW of the Exporting Country sends the ACDD to the ASW Gateway of the Exporting Country in a secure environment (in case of Indonesia, NSW will extract ACDD data from Export Declaration received from Customs). Where required by the national legislation of the exporting country, prior consent from trader must be sought before information on the ACDD is routed to other Customs Authority.	<ol style="list-style-type: none"> <li>1. The NSW of the Exporting Country records the ACDD as a “sent” transaction (960) for reconciliation with the MIS Reports.</li> <li>2. The ASW Gateway of the Exporting Country receives the ACDD and records it as a “received” transaction (960) for MIS Reporting.</li> <li>3. The ASW Gateway of the Exporting Country sends an Acknowledgement Status (AS1) to the NSW of the Exporting Country.</li> <li>4. The ASW Gateway of the Exporting Country records the Acknowledgement</li> </ol>

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Test No.	Test Description	Expected Outcomes
		<p>Status as a “sent” transaction (AS1) for MIS Reporting.</p> <p>5. The NSW of the Exporting Country records the Acknowledgement Status as a “received” transaction (AS1) for reconciliation with the MIS Reports.</p>
2	The ASW Gateway of the Exporting Country sends the ACDD to the ASW Gateway of the Importing Country.	<p>1. The ASW Gateway of the Exporting Country records the ACDD as a “sent” transaction (960) for MIS Reporting.</p> <p>2. The ASW Gateway of the Importing Country receives the ACDD and records it as a “received” transaction (960) for MIS Reporting.</p> <p>3. The ASW Gateway of the Importing Country sends an Acknowledgement Status (AS2) to the ASW Gateway of the Exporting Country.</p> <p>4. The ASW Gateway of the Importing Country records the Acknowledgement Status as a “sent” transaction (AS2) for MIS Reporting.</p> <p>5. The ASW Gateway of the Exporting Country records the Acknowledgement Status as a “received” transaction (AS2) for MIS Reporting.</p>
3	The ASW Gateway of the Importing Country sends the ACDD to the NSW of the Importing Country.	<p>1. The ASW Gateway of the Importing Country records the ACDD as a “sent” transaction (960) for MIS Reporting.</p> <p>2. The NSW of the Importing Country receives the ACDD and records it as a “received” transaction (960) for reconciliation with the MIS Reports.</p> <p>3. The NSW of the Importing Country sends an Acknowledgement Status (AS3) to the ASW Gateway of the Importing Country.</p> <p>4. The NSW of the Importing Country records the Acknowledgement Status (AS3) as a “sent” transaction for reconciliation with the MIS Reports.</p> <p>5. The ASW Gateway of the Importing Country records the Acknowledgement Status (AS3) as a “received” transaction for MIS Reporting.</p>
4	The NSW of the Importing Country sends the ACDD to the Customs authority of the Importing Country.	<p>1. The NSW of the Importing Country records the ACDD as a “sent” transaction (960) for reconciliation with the Customs of the Importing Country.</p> <p>2. The Customs authority of the Importing Country receives the ACDD and records it as a “received” transaction (960) for</p>

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Test No.	Test Description	Expected Outcomes
		<ul style="list-style-type: none"> <li>reconciliation with the NSW of the Importing Country.</li> <li>3. The Customs authority of the Importing Country sends an Acknowledgement Status (AS4) to the NSW of the Importing Country.</li> <li>4. The Customs authority of the Importing Country records the Acknowledgement Status (AS4) as a “sent” transaction for reconciliation with the MIS Reports.</li> <li>5. The NSW of the Importing Country records the Acknowledgement Status (AS4) as a “received” transaction for MIS Reporting.</li> </ul>

### 8.2.2 End-to-End Tests

Once the Point-to-Point Tests have been completed, the next phase would be to carry out End-to-End Tests with other participating AMS, one-by-one. There are 4 main tests to be carried out, as shown in Table 8. It is recommended that each test should be repeated at least 10 times until both the sender and recipient are satisfied.

**Table 8: End-to-End Tests**

Test No.	Test Description	Expected Outcomes
1	<p>The NSW of Exporting Country sends the ACDD to the Customs of the Importing Country <i>with no errors</i></p> <p>This test is Mandatory</p>	<ul style="list-style-type: none"> <li>1. The ACDD is received by the Customs of the Importing Country with: <ul style="list-style-type: none"> <li>a. Message Type = 960</li> <li>b. Function Code = 9</li> </ul> </li> <li>2. An Acknowledgement Status (AS4) is received by the NSW of the Exporting Country with: <ul style="list-style-type: none"> <li>a. Message Type = AS4</li> <li>b. Category Code = REC</li> </ul> </li> </ul>
2	<p>The NSW of Exporting Country sends the ACDD to the Customs of the Importing Country <i>with errors</i></p> <p>This test is Optional</p>	<ul style="list-style-type: none"> <li>1. The ACDD is received by the Customs of the Importing Country with: <ul style="list-style-type: none"> <li>a. Message Type = 960</li> <li>b. Function Code = 9</li> </ul> </li> <li>2. An Acknowledgement Status (AS4) is received by the NSW of the Exporting Country with: <ul style="list-style-type: none"> <li>a. Message Type = AS4</li> <li>b. Function Code = NOT</li> </ul> </li> </ul>
3	<p>The NSW of Exporting Country sends a Replacement to the Customs of the Importing Country, <i>with no errors</i></p> <p>This test is Optional</p>	<ul style="list-style-type: none"> <li>1. The ACDD is received by the Customs of the Importing Country with: <ul style="list-style-type: none"> <li>a. Message Type = 960</li> <li>b. Function Code = 5</li> </ul> </li> <li>2. An Acknowledgement Status (AS4) is received by the NSW of the Exporting Country with:</li> </ul>

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Test No.	Test Description	Expected Outcomes
		<ul style="list-style-type: none"> <li>a. Message Type = AS4</li> <li>b. Function Code = REC</li> </ul>
4	<p>The NSW of Exporting Country sends a Replacement to the Customs of the Importing Country, <i>with errors</i></p> <p>This test is Optional</p>	<ul style="list-style-type: none"> <li>1. The ACDD is received by the Customs of the Importing Country with: <ul style="list-style-type: none"> <li>a. Message Type = 960</li> <li>b. Function Code = 5</li> </ul> </li> <li>2. An Acknowledgement Status (AS4) is received by the NSW of the Importing Country with: <ul style="list-style-type: none"> <li>a. Message Type = AS4</li> <li>b. Function Code = NOT</li> </ul> </li> </ul>

### 8.2.3 Parallel Tests

In the final phase, the same End-to-End Tests should be repeated in the production environment, to simulate live Parallel Tests. However, as the ACDD implementation will be different in each country, there may also be additional testing to be carried out. For example, some AMS may need to test the extraction of the ACDD data from the Export Declaration.

It is also recommended that each test should be repeated at least 10 times until both the sender and recipient are satisfied.

### 8.3 Success Indicators

The success indicators for the User Acceptance Process should cover all of the expected outcomes described in Section 8.2. It is also recommended that they should cover other areas as well, such as the successful implementation of the XSDs and code maintenance within the Regional Service Portal.

The proposed acceptance criteria is provided in Table 9 below. There are 3 columns:

- **No.** – the unique number used to identify the success indicator
- **Success Indicator** – a description of each success indicator
- **Requirement** – Mandatory or Optional, to indicate whether the success indicator must be satisfied or not

**Table 9: Acceptance Criteria**

No.	Description	Requirement
1	End-to-end test of ACDD from NSW of Exporting Country to Customs of Importing Country (Message Type = 960)	
1.1	Original ACDD (Function Code = 9)	Mandatory
1.2	Replacement (Function Code = 5)	Mandatory
2	End-to-end test of Customs Response from Customs of Importing Country to NSW of Exporting Country (Message Type = 961)	
2.1	ACDD Accepted (Function Code = 29)	Optional
2.2	ACDD Not Processed due to errors (Function Code = 27)	Optional
3	Acknowledgement Status messages	

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No.	Description	Requirement
3.1	AS1: From ASW Gateway of Exporting Country to NSW of Exporting Country	Mandatory
3.2	AS2: From ASW Gateway of Importing Country to ASW Gateway of Exporting Country	Mandatory
3.3	AS3: From NSW of Importing Country to ASW Gateway of Importing Country	Mandatory
3.4	AS4: From the Customs authority of Importing Country to NSW of Importing Country	Mandatory
4	WCO XML Schema Definitions (XSDs)	
4.1	Implementation of ACDD in NSWs	Mandatory
4.2	Implementation of Customs Response in Customs authority	Optional
5	Code Lists	
5.1	Consensus reached on the harmonization of all code lists	Mandatory
5.2	Maintenance of code lists within Regional Services Portal	Mandatory
6	MIS reporting for ACDD	
6.1	The number of ACDD (960) messages sent by the NSW of the Exporting Country is the same as the number of ACDD (960) messages received by the Customs authority of the Importing Country	Mandatory
6.2	The number of Acknowledgement Status (AS1) messages sent by the ASW Gateway of the Exporting Country is the same as the number of Acknowledgement Status (AS1) messages received by the NSW of the Exporting Country	Optional
6.3	The number of Acknowledgement Status (AS2) messages sent by the ASW Gateway of the Importing Country is the same as the number of Acknowledgement Status (AS2) messages received by the ASW Gateway of the Exporting Country	Mandatory
6.4	The number of Acknowledgement Status (AS3) messages sent by the NSW of the Importing Country is the same as the number of Acknowledgement Status (AS3) messages received by the ASW Gateway of the Importing Country	Mandatory
6.5	The number of Acknowledgement Status (AS4) messages sent by the Customs authority of the Importing Country is the same as the number of Acknowledgement Status (AS4) messages received by the NSW of the Importing Country	Mandatory
7	MIS reporting for Customs Response	
7.1	The number of Customs Response (961) messages sent by the Customs Authority of the Importing Country is the same as the number of Customs Response (961) messages received by the NSW of the Importing Country	Optional
7.2	The number of Acknowledgement Status (AS1) messages sent by the ASW Gateway of the Importing Country is the same as the number of Acknowledgement Status (AS1) messages received by the NSW of the Importing Country	Optional
7.3	The number of Acknowledgement Status (AS2) messages sent by the ASW Gateway of the Exporting Country is the	Optional

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No.	Description	Requirement
	same as the number of Acknowledgement Status (AS2) messages received by the ASW Gateway of the Importing Country	
7.4	The number of Acknowledgement Status (AS3) messages sent by the NSW of the Exporting Country is the same as the number of Acknowledgement Status (AS3) messages received by the ASW Gateway of the Exporting Country	Optional

# ACDD Message Implementation Guide and Process Specifications

## Appendix A Code Lists

### Appendix A.1 – ACDD Function Codes

The WCO recommends EDIFACT codes (UNCL 1225). It is suggested that the AMS adopt a subset of this code list to validate “ACDD Function Codes”, as shown in the table below.

Code	Description
5	Replacement
9	Original

### Appendix A.2 – Message Type Codes

The WCO recommends EDIFACT codes (UNCL 1001). It is suggested that the AMS adopt a subset of this code list to validate “Message Type Codes”, as shown in the table below.

Code	Description
960	Single administrative document [to be used for ACDD]
961	General response (Customs) [to be used for Customs Response]

### Appendix A.3 - Currency Codes

The WCO recommends UNECE Recommendation 9 (ISO 4217 3-alpha code). It is suggested that the AMS adopt the full code list to validate “Currency Codes”, which can be downloaded from either of the following links.

[http://www.currency-iso.org/dam/downloads/lists/list\\_one.xls](http://www.currency-iso.org/dam/downloads/lists/list_one.xls); or

[http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec09/rec09\\_ecetrd203.pdf](http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec09/rec09_ecetrd203.pdf)

### Appendix A.4 - Payment Document Type Codes

The WCO recommends EDIFACT codes (UNCL 1001). It is suggested that the AMS adopt a subset of this code list to validate “Payment Document Type Codes”, as shown in the table below.

Code	Description
916	Related document
917	Receipt (Customs)

*Note: During the ACDD Data Harmonization Workshop, the AMS discussed this code list and recommended that the code “916” should be added to this table to cover any document. They also agreed in principle with the Consultant that these codes should be sufficient for “go live”, because the data element using this code list is optional.*

### Appendix A.5 - Country Codes

The WCO recommends UNECE Recommendation 3 (ISO 3166-1 2-alpha code). It is suggested that the AMS adopt the full code list to validate “Country Codes”, which can be downloaded from either of the following links.

<https://www.iso.org/obp/ui/#search/code/>; or

[http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec03/rec03\\_ecetrd201.pdf](http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec03/rec03_ecetrd201.pdf)



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### Appendix A.6 - Security Details Codes

The WCO recommends using their codes, which are already built into the WCO's XSDs. It is suggested that the AMS adopt a subset of this code list to validate "Security Details Codes", as shown in the table below.

Code	Description
M	Guarantee, including cash deposit
P	From agent's cash account
R	Bank guarantee
S	Individual guarantee account
T	From agent's guarantee account

### Appendix A.7 - Payment Method Codes

The WCO recommends using their codes, which are already built into the WCO's XSDs. It is suggested that the AMS adopt a subset of this code list to validate "Payment Method Codes", as shown in the table below.

Code	Description
A	Payment in cash
B	Payment by credit card
C	Payment by cheque
D	Other (e. g. direct debit to agent's cash account)
F	Deferred payment — customs system
H	Electronic credit transfer

### Appendix A.8 - Transaction Nature Codes

The WCO recommends using their codes, which are already built into the WCO's XSDs, as shown in the table below.

Code	Description
1	Transactions involving actual or intended transfer of ownership against payment or other consideration (other than the transactions listed under 2, 7 or 8)
2	Return of goods already recorded under code 1; replacement of goods free of charge
3	Transactions (not temporary in nature) involving transfer of ownership but without consideration (financial or otherwise)
4	Transactions with a view to contractor processing (5) or repair (6) (other than the transactions recorded under 7)
5	Transactions after processing (5) or contractor repair (6) (other than the transactions recorded under 7)
6	Transactions not involving transfer of ownership, e.g. hire, loan, operational leasing (7) and other temporary uses (8), with the exception of processing under contract or repair (delivery and return)
7	Transactions in connection with a joint defence programme or another inter-governmental production programme
8	Delivery of building material and equipment in connection with construction or civil engineering activities constituting part of a general contract
9	Other transactions

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### Appendix A.9 - Container Codes

The WCO recommends EDIFACT codes (UNCL 7365). It is suggested that the AMS adopt a subset of this code list to validate “Container Codes”, as shown in the table below.

Code	Description
68	Goods carried in container
69	Goods not carried in container

### Appendix A.10 - Manifest Document Type Codes

The WCO recommends EDIFACT codes (UNCL 1001). It is suggested that the AMS adopt a subset of this code list to validate “Manifest Document Type Codes”, which may include the codes shown in the table below.

Code	Description
785	Cargo manifest

*Note: During the ACDD Data Harmonization Workshop, the AMS discussed this code list and agreed in principle with the Consultant that the code “785” should be sufficient for “go live”, because the data element using this code list is optional.*

### Appendix A.11 - Transport Mode Codes

The WCO recommends UNECE Recommendation 28. However, it is suggested that the AMS adopt a subset of UNECE Recommendation 19 to validate “Transport Mode Codes”, as shown in the table below.

Code	Description
0	Transport mode not specified
1	Maritime transport
2	Rail transport
3	Road transport
4	Air transport
5	Mail
6	Multimodal transport
7	Fixed transport installation
8	Inland water transport
9	Transport mode not applicable

### Appendix A.12 - Location Codes

The WCO recommends UNECE Recommendation 16 (UN/LOCODE). It is suggested that the AMS adopt the full code list to validate “Location Codes”, which can be downloaded from the following links.

<http://www.unece.org/fileadmin/DAM/cefact/locode/loc152mdb.zip>; or

<http://www.unece.org/fileadmin/DAM/cefact/locode/loc152csv.zip>; or

<http://www.unece.org/fileadmin/DAM/cefact/locode/loc152txt.zip>

### Appendix A.13 - Transport Document Type Codes

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The WCO recommends EDIFACT codes (UNCL 1001). It is suggested that the AMS adopt a subset of this code list to validate “Transport Document Type Codes”, which may include the codes shown in the table below.

Code	Description
703	House waybill
704	Master bill of lading
705	Bill of lading
714	House bill of lading
720	Rail consignment note
740	Air waybill
741	Master air waybill

*Note: During the ACDD Data Harmonization Workshop, the AMS discussed this code list and agreed in principle with the Consultant that the above codes should be sufficient for “go live”, because the data element using this code list is optional.*

### Appendix A.14 - Licence Document Type Codes

The WCO recommends EDIFACT codes (UNCL 1001). It is suggested that the AMS adopt a subset of this code list to validate “Licence Document Type Codes”, which may include the codes shown in the table below.

Code	Description
811	Export licence

*Note: During the ACDD Data Harmonization Workshop, the AMS discussed this code list and agreed in principle with the Consultant that the code “811” should be sufficient for “go live”, because the data element using this code list is optional.*

### Appendix A.15 - Preference Codes

The WCO recommends EDIFACT codes (UNCL 9213). It is suggested that the AMS adopt a subset of this code list to validate “Preference Codes”, which may include the codes shown in the table below.

Code	Description
2	Origin subject to other preference agreement
3	No preference origin

### Appendix A.16 - Valuation Method Codes

The WCO recommends using their codes, which are a subset of EDIFACT codes (UNCL 7365) and are already built into the WCO’s XSDs. It is suggested that the AMS adopt this code list to validate “Valuation Method Codes”, as shown in the table below.

Code	Description
138	Valuation based on price paid or payable without adjustments
139	Valuation based on price paid or payable with adjustments
140	Valuation based on transaction value of identical goods
141	Valuation based on transaction value of similar goods
142	Valuation based on deductive value of imported goods
143	Valuation based on computed value

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Code	Description
144	Valuation based on the residual method

### Appendix A.17 - Charge Type Codes

The WCO recommends EDIFACT codes (UNCL 5025). It is suggested that the AMS adopt a subset of this code list to validate “Charge Type Codes”, which may include the codes shown in the table below.

Code	Description
64	Freight charge
67	Insurance amount
104	Other transport charges

### Appendix A.18 – Weight Units of Measure

The WCO does not provide any recommendation for units of measure. However, it is recommended that a subset of UNECE Recommendation 20 is used to validate weights.

Code	Description
KGM	Kilogram
TNE	Tonne

*Note: During the ACDD Data Harmonization Workshop, the AMS discussed this code list and agreed that in principle with the Consultant that the code “KGM” should be used for gross and net weights. However, Viet Nam subsequently asked for the code “TNE” to be added.*

### Appendix A.19 – Tariff Quantity Units of Measure

The WCO does not provide any recommendation for units of measure. However, it is recommended that a subset of UNECE Recommendation 20 is used to validate tariff quantities, which can be downloaded from the following link:

[http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec20/rec20\\_Rev12e\\_2016.xls](http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec20/rec20_Rev12e_2016.xls)

*Note: At the 37<sup>th</sup> TWG Meeting, AMS agreed to use the same code list that is used for the e-ATIGA Form D.*

### Appendix A.20 - Procedure Codes

The WCO recommends EDIFACT codes (UNCL 7365). However, it is suggested that the AMS may like to consider adopting a subset of the code list used for the EU SAD, as shown in the table below:

Code	Description
10	Final export
11	Export of compensating products obtained from equivalent goods under the inward processing procedure (suspension system) before entering imports for the procedure
21	Temporary export under the outward processing procedure
23	Temporary export for return in the unaltered state

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Code	Description
31	Re-export
40	Release for free circulation
41	Release for free circulation under the inward processing procedure (drawback system)
47	Release for free circulation under the inward processing procedure (drawback system) in a free zone or free warehouse
48	Release for free circulation of replacement goods under the customs outward processing procedure prior to the export of temporary goods (previous import)
51	Inward processing (suspension system)
53	Temporary import
56	Inward processing (suspension system) in a free zone or free warehouse
61	Re-importation with release for free circulation
71	Placing of goods under the customs warehouse procedure
78	Entry of goods for a free zone or free warehouse
91	Entering of goods for processing under customs control
93	Destruction (under customs control)

### Appendix A.21 - Package Type Codes

The WCO recommends UNECE Recommendation 21 Annex VI. It is suggested that the AMS adopt the full code list to validate “Package Type Codes”, which can be downloaded from the following link.

[http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec21/rec21\\_Rev9e\\_2012.xls](http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec21/rec21_Rev9e_2012.xls)

### Appendix A.22 - Previous Document Type Codes

The WCO recommends EDIFACT codes (UNCL 1001). It is suggested that the AMS adopt a subset of this code list to validate “Previous Document Type Codes”, which may include the codes shown in the table below.

Code	Description
424	WCO first step of two-step export declaration

*Note: During the ACDD Data Harmonization Workshop, the AMS discussed this code list and agreed in principle with the Consultant that the code “424” should be sufficient for “go live”, because the data element using this code list is optional.*

### Appendix A.23 - Trade Term Codes

The WCO recommends EDIFACT codes (UNCL 4065). However, it is suggested that the AMS adopt the full code list provided in UNECE Recommendation 5 (INCOTERMS), as shown in the table below.

Code	Description
CFR	Cost and freight
CIF	Cost, insurance and freight
CPT	Carriage paid to
DDP	Delivered duty paid
EXW	Ex works
FAS	Free alongside ship
FOB	Free on board

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Code	Description
FCA	Free carrier
CIP	Carriage and insurance paid to
DAP	Delivery at place
DAT	Delivery at terminal

### Appendix A.24 - Response Function Codes

The WCO recommends EDIFACT codes (UNCL 1225). It is suggested that the AMS adopt a subset of this code list to validate "Response Function Codes", as shown in the table below.

Code	Description
27	Not accepted [Implemented by the ASW as; "Not Processed (due to errors)"]
29	Accepted without amendment [Implemented by the ASW as; "Processed Successfully"]

### Appendix A.25 - Error Codes

The WCO recommends user codes, which would need to be defined and agreed by the AMS.

## Appendix B XML Examples

### Appendix B.1 – ACDD (960) – Original (for Replacement, change “FunctionCode” to “5”)

```
<?xml version="1.0" encoding="UTF-8"?>
<rsm:HeaderDocument xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:rsm="urn:un:unece:unefact:data:draft:generalheader:0:1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:un:unece:unefact:data:draft:generalheader:0:1
GenericHeaderMessage_V1.04.xsd">
  <SenderParty>
    <IdentificationId>XXXXXXXXXX</IdentificationId>
  </SenderParty>
  <RecipientParty>
    <IdentificationId>XXXXXXXXXX</IdentificationId>
  </RecipientParty>
  <Document>
    <IdentificationId>XXXXXXXXXX</IdentificationId>
    <SequenceNo>1</SequenceNo>
    <TypeCode>960</TypeCode>
    <SubTypeCode> </SubTypeCode>
    <FunctionCode>9</FunctionCode>
    <SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
  </Document>
  <Payload>
    <![CDATA[
      <?xml version="1.0" encoding="UTF-8"?>
      <Declaration xmlns="urn:wco:datamodel:WCO:Declaration:1"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="urn:wco:datamodel:WCO:Declaration:1 Declaration_1p0.xsd">
        <FunctionCode>5</FunctionCode>
        <ID>XXXXXXXXXX</ID>
        <IssueDateTime formatCode="102">2016-05-12</IssueDateTime>
        <TypeCode>960</TypeCode>
        <DeclarationOfficeID>XXXXXXXXXX</DeclarationOfficeID>
        <GoodsItemQuantity>99999</GoodsItemQuantity>
        <InvoiceAmount currencyID="USD">999999.999</InvoiceAmount>
        <TotalPackageQuantity>99999999</TotalPackageQuantity>
        <Authentication>
          <ActualDateTime formatCode="102">2016-05-12</ActualDateTime>
          <Authentication>XXXXXXXXXX</Authentication>
          <LocationName>XXXXXXXXXX</LocationName>
          <Authenticator>
            <Name>XXXXXXXXXX</Name>
            <Designation>XXXXXXXXXX</Designation>
          </Authenticator>
        </Authentication>
        <AdditionalDocument>
          <ID>XXXXXXXXXX</ID>
          <IssueDateTime formatCode="102">2016-05-12</IssueDateTime>
          <TypeCode>917</TypeCode>
        </AdditionalDocument>
        <Control>
          <AdditionalInformation>
```

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```
<Content>XXXXXXXXXX</Content>
</AdditionalInformation>
</Control>
<CurrencyExchange>
  <CurrencyTypeCode>USD</CurrencyTypeCode>
  <RateNumeric>999999.99999</RateNumeric>
</CurrencyExchange>
<Declarant>
  <Name>XXXXXXXXXX</Name>
  <ID>XXXXXXXXXX</ID>
  <Address>
    <CityName>XXXXXXXXXX</CityName>
    <CountryCode>MY</CountryCode>
    <Line>XXXXXXXXXX</Line>
    <PostcodeID>XXXXXXXXXX</PostcodeID>
  </Address>
</Declarant>
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  <ReferenceID>XXXXXXXXXX</ReferenceID>
  <SecurityDetailsCode>M</SecurityDetailsCode>
</DeclarationGuarantee>
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  <Payment>
    <MethodCode>F</MethodCode>
    <ReferenceID>XXXXXXXXXX</ReferenceID>
    <PaymentAmount currencyID="USD">999999.999</PaymentAmount>
  </Payment>
</DutyTaxFee>
<ExitOffice>
  <ID>XXXXXXXXXX</ID>
  <Warehouse>
    <Name>XXXXXXXXXX</Name>
    <ID>XXXXXXXXXX</ID>
  </Warehouse>
</ExitOffice>
<Exporter>
  <Name>XXXXXXXXXX</Name>
  <ID>XXXXXXXXXX</ID>
  <Address>
    <CityName>XXXXXXXXXX</CityName>
    <CountryCode>MY</CountryCode>
    <Line>XXXXXXXXXX</Line>
    <PostcodeID>XXXXXXXXXX</PostcodeID>
  </Address>
</Exporter>
<GoodsShipment>
  <ExitDateTime formatCode="102">2016-05-12</ExitDateTime>
  <TransactionNatureCode>9</TransactionNatureCode>
  <AdditionalInformation>
    <Content>XXXXXXXXXX</Content>
  </AdditionalInformation>
  <Consignment>
    <ContainerCode>68</ContainerCode>
    <AdditionalDocument>
      <ID>XXXXXXXXXX</ID>
      <TypeCode>785</TypeCode>
    </AdditionalDocument>
  </Consignment>
</GoodsShipment>
```



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```
</AdditionalDocument>
<BorderTransportMeans>
  <Name>XXXXXXXXXX</Name>
  <ID>XXXXXXXXXX</ID>
  <TypeCode>1</TypeCode>
  <RegistrationNationalityCode>MY</RegistrationNationalityCode>
  <JourneyID>XXXXXXXXXX</JourneyID>
</BorderTransportMeans>
<DepartureTransportMeans>
  <Name>XXXXXXXXXX</Name>
  <ID>XXXXXXXXXX</ID>
  <RegistrationNationalityCode>SG</RegistrationNationalityCode>
  <JourneyID>XXXXXXXXXX</JourneyID>
</DepartureTransportMeans>
<GoodsLocation>
  <Name>XXXXXXXXXX</Name>
  <ID>XXXXXXXXXX</ID>
</GoodsLocation>
<LoadingLocation>
  <Name>KUALA LUMPUR</Name>
  <ID>MYKUL</ID>
</LoadingLocation>
<TransportContractDocument>
  <ID>XXXXXXXXXX</ID>
  <TypeCode>704</TypeCode>
</TransportContractDocument>
<TransportEquipment>
  <ID>XXXXXXXXXXXXXXXXXX</ID>
</TransportEquipment>
<UnloadingLocation>
  <Name>BANGKOK</Name>
  <ID>THBKK</ID>
</UnloadingLocation>
</Consignment>
<Destination>
  <CountryCode>CN</CountryCode>
  <CountryName>CHINA</CountryName>
</Destination>
<ExportCountry>
  <ID>MY</ID>
  <Name>MALAYSIA</Name>
</ExportCountry>
<GovernmentAgencyGoodsItem>
  <SequenceNumeric>99999</SequenceNumeric>
  <StatisticalValueAmount currencyID="USD">999999.999</StatisticalValueAmount>
  <AdditionalDocument>
    <ID>XXXXXXXXXX</ID>
    <TypeCode>811</TypeCode>
  </AdditionalDocument>
  <AdditionalInformation>
    <Content>XXXXXXXXXX</Content>
  </AdditionalInformation>
  <Commodity>
    <Description>XXXXXXXXXX</Description>
    <Classification>
      <ID>XXXXXXXXXX</ID>
```

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```
<IdentificationTypeCode>AHTN</IdentificationTypeCode>
</Classification>
<DutyTaxFee>
  <DutyRegimeCode>2</DutyRegimeCode>
  <Payment>
    <MethodCode>A</MethodCode>
    <TaxAssessedAmount currencyID="USD">999999.999</TaxAssessedAmount>
  </Payment>
</DutyTaxFee>
<InvoiceLine>
  <ItemChargeAmount currencyID="USD">999999.999</ItemChargeAmount>
</InvoiceLine>
</Commodity>
<CustomsValuation>
  <MethodCode>138</MethodCode>
  <ChargeDeduction>
    <ChargesTypeCode>64</ChargesTypeCode>
    <OtherChargeDeductionAmount
currencyID="USD">999999.999</OtherChargeDeductionAmount>
  </ChargeDeduction>
</CustomsValuation>
<GoodsMeasure>
  <GrossMassMeasure unitCode="KGM">999999.999999</GrossMassMeasure>
  <NetNetWeightMeasure unitCode="KGM">999999.999999</NetNetWeightMeasure>
  <TariffQuantity unitCode="KGM">999999.999999</TariffQuantity>
</GoodsMeasure>
<GovernmentProcedure>
  <CurrentCode>X</CurrentCode>
</GovernmentProcedure>
<Origin>
  <CountryCode>ID</CountryCode>
</Origin>
<Packaging>
  <MarksNumbersID>XXXXXXXXXX</MarksNumbersID>
  <QuantityQuantity>999999999</QuantityQuantity>
  <TypeCode>BX</TypeCode>
</Packaging>
<PreviousDocument>
  <ID>XXXXXXXXXX</ID>
  <TypeCode>424</TypeCode>
</PreviousDocument>
</GovernmentAgencyGoodsItem>
<Origin>
  <CountryCode>ID</CountryCode>
</Origin>
<TradeTerms>
  <ConditionCode>CIF</ConditionCode>
  <Description>XXXXXXXXXX</Description>
</TradeTerms>
<UCR>
  <ID>XXXXXXXXXX</ID>
</UCR>
</GoodsShipment>
<Importer>
  <Name>XXXXXXXXXX</Name>
  <ID>XXXXXXXXXX</ID>
```

## ACDD Message Implementation Guide and Process Specifications

```
<Address>
  <CityName>XXXXXXXXXX</CityName>
  <CountryCode>TH</CountryCode>
  <Line>XXXXXXXXXX</Line>
  <PostcodeID>XXXXXXXXXX</PostcodeID>
</Address>
</Importer>
<Principal>
  <Name>XXXXXXXXXX</Name>
  <ID>XXXXXXXXXX</ID>
</Principal>
<SupervisingOffice>
  <ID>XXXXXXXXXX</ID>
</SupervisingOffice>
<TransitOffice>
  <ID>XXXXXXXXXXXXXXXXXX</ID>
</TransitOffice>
<TransitOperationStartOffice>
  <ID>XXXXXXXXXXXXXXXXXX</ID>
</TransitOperationStartOffice>
<TransitOperationTerminationOffice>
  <ID>XXXXXXXXXXXXXXXXXX</ID>
</TransitOperationTerminationOffice>
<UCR>
  <TraderAssignedReferenceID>XXXXXXXXXX</TraderAssignedReferenceID>
</UCR>
</Declaration>
]]>
</Payload>
</rsm:HeaderDocument>
```

### Appendix B.2 – ACDD (960) – Acknowledgement Status (AS1)

```
<?xml version="1.0" encoding="UTF-8" ?>
<rsm:UNeDocsShipBIM
xmlns="urn:un:unece:uncefact:data:draft:ReusableAggregateBusinessInformationEntitySchema
Module:0:8" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8"
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8 UNeDocsShipBIM-
0.8.xsd">
  <rsm:HeaderDocument>
    <IdentificationId>XXXXXXXXXX</IdentificationId>
    <TypeCode>AS1</TypeCode>
    <Name>AS1 Response</Name>
    <SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
    <CategoryCode>AS1</CategoryCode>
    <Remark>Message received by sending ASW Gateway</Remark>
    <ReasonCode>006</ReasonCode>
    <ReferenceDocument>
      <IdentificationId>XXXXXXXXXX</IdentificationId>
      <TypeCode>960</TypeCode>
      <IssueDateTime>2002-07-01T05:10:10</IssueDateTime>
    </ReferenceDocument>
    <SenderParty>
```

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```
<IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
</SenderParty>
<RecipientParty>
<IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
</RecipientParty>
<IssueCountry>
<IdentificationId schemeld="3" schemeAgencyId="UNECE"
schemeVersionId="15">ID</IdentificationId>
<Name>INDONESIA</Name>
</IssueCountry>
</rsm:HeaderDocument>
</rsm:UNeDocsShipBIM>
```

### Appendix B.3 – ACDD (960) – Acknowledgement Status (AS2)

```
<?xml version="1.0" encoding="UTF-8" ?>
<rsm:UNeDocsShipBIM
xmlns="urn:un:unece:uncefact:data:draft:ReusableAggregateBusinessInformationEntitySchema
Module:0:8" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8"
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8 UNeDocsShipBIM-
0.8.xsd">
<rsm:HeaderDocument>
<IdentificationId>XXXXXXXXXXXX</IdentificationId>
<TypeCode>AS2</TypeCode>
<Name>AS2 Response</Name>
<SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
<CategoryCode>AS2</CategoryCode>
<Remark>Message received by receiving ASW Gateway</Remark>
<ReasonCode>006</ReasonCode>
<ReferenceDocument>
<IdentificationId>XXXXXXXXXXXX</IdentificationId>
<TypeCode>960</TypeCode>
<IssueDateTime>2002-07-01T05:10:10</IssueDateTime>
</ReferenceDocument>
<SenderParty>
<IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
</SenderParty>
<RecipientParty>
<IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
</RecipientParty>
<IssueCountry>
<IdentificationId schemeld="3" schemeAgencyId="UNECE"
schemeVersionId="15">ID</IdentificationId>
<Name>INDONESIA</Name>
</IssueCountry>
</rsm:HeaderDocument>
</rsm:UNeDocsShipBIM>
```

### Appendix B.4 – ACDD (960) – Acknowledgement Status (AS3)

## ACDD Message Implementation Guide and Process Specifications

```
<?xml version="1.0" encoding="UTF-8" ?>
<rsm:UNeDocsShipBIM
xmlns="urn:un:unece:uncefact:data:draft:ReusableAggregateBusinessInformationEntitySchema
Module:0:8" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8"
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8 UNeDocsShipBIM-
0.8.xsd">
  <rsm:HeaderDocument>
    <IdentificationId>XXXXXXXXXXXX</IdentificationId>
    <TypeCode>AS3</TypeCode>
    <Name>AS3 Response</Name>
    <SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
    <CategoryCode>AS3</CategoryCode>
    <Remark>Message received by NSW</Remark>
    <ReasonCode>006</ReasonCode>
    <ReferenceDocument>
      <IdentificationId>XXXXXXXXXXXX</IdentificationId>
      <TypeCode>960</TypeCode>
      <IssueDateTime>2002-07-01T05:10:10</IssueDateTime>
    </ReferenceDocument>
    <SenderParty>
      <IdentificationId schemelD="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
    </SenderParty>
    <RecipientParty>
      <IdentificationId schemelD="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
    </RecipientParty>
    <IssueCountry>
      <IdentificationId schemelD="3" schemeAgencyId="UNECE"
schemeVersionId="15">ID</IdentificationId>
      <Name>INDONESIA</Name>
    </IssueCountry>
  </rsm:HeaderDocument>
</rsm:UNeDocsShipBIM>
```

### Appendix B.5 – ACDD (960) – Acknowledgement Status (AS4)

```
<?xml version="1.0" encoding="UTF-8" ?>
<rsm:UNeDocsShipBIM
xmlns="urn:un:unece:uncefact:data:draft:ReusableAggregateBusinessInformationEntitySchema
Module:0:8" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8"
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8 UNeDocsShipBIM-
0.8.xsd">
  <rsm:HeaderDocument>
    <IdentificationId>XXXXXXXXXXXX</IdentificationId>
    <TypeCode>AS4</TypeCode>
    <Name>Customs Response (AS4)</Name>
    <SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
    <CategoryCode>REC</CategoryCode>
    <Remark>Message received by recipient</Remark>
    <ReasonCode>006</ReasonCode>
    <ReferenceDocument>
      <IdentificationId>XXXXXXXXXXXX</IdentificationId>
      <TypeCode>960</TypeCode>
```

## ACDD Message Implementation Guide and Process Specifications

```
<IssueDateTime>2002-07-01T05:10:10</IssueDateTime>
</ReferenceDocument>
<SenderParty>
  <IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
</SenderParty>
<RecipientParty>
  <IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
</RecipientParty>
<IssueCountry>
  <IdentificationId schemeld="3" schemeAgencyId="UNECE"
schemeVersionId="15">ID</IdentificationId>
  <Name>INDONESIA</Name>
</IssueCountry>
</rsm:HeaderDocument>
</rsm:UNeDocsShipBIM>
```

### Appendix B.6 – Customs Response (961)

```
<?xml version="1.0" encoding="UTF-8"?>
<rsm:HeaderDocument xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:rsm="urn:un:unece:uncefact:data:draft:generalheader:0:1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:generalheader:0:1
GenericHeaderMessage_V1.04.xsd">
  <SenderParty>
    <IdentificationId>XXXXXXXXXXXX</IdentificationId>
  </SenderParty>
  <RecipientParty>
    <IdentificationId>XXXXXXXXXXXX</IdentificationId>
  </RecipientParty>
  <Document>
    <IdentificationId>XXXXXXXXXXXX</IdentificationId>
    <SequenceNo>2</SequenceNo>
    <TypeCode>961</TypeCode>
    <SubTypeCode> </SubTypeCode>
    <FunctionCode>9</FunctionCode>
    <SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
  </Document>
  <Payload>
    <![CDATA[
      <?xml version="1.0" encoding="UTF-8"?>
      <Response xmlns="urn:wco:datamodel:WCO:Response:1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:wco:datamodel:WCO:Response:1 Response_1p0.xsd">
        <Function>29</Function>
        <ID>XXXXXXXXXXXX</ID>
        <IssueDateTime formatCode="102">2016-05-12</IssueDateTime>
        <TypeCode>961</TypeCode>
        <Error>
          <Description>XXXXXXXXXXXX</Description>
          <ValidationCode>XXXXXXXXXXXX</ValidationCode>
        </Error>
        <Declaration>
          <FunctionCode>9</FunctionCode>
```

## ACDD Message Implementation Guide and Process Specifications

```
<ID>XXXXXXXXXX</ID>
<IssueDateTime formatCode="102">2016-05-12</IssueDateTime>
<TypeCode>960</TypeCode>
</Declaration>
</Response>
]]>
</Payload>
</rsm:HeaderDocument>
```

### Appendix B.7 – Customs Response (961) – Acknowledgement Status (AS1)

```
<?xml version="1.0" encoding="UTF-8" ?>
<rsm:UNeDocsShipBIM
xmlns="urn:un:unece:uncefact:data:draft:ReusableAggregateBusinessInformationEntitySchema
Module:0:8" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8"
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8 UNeDocsShipBIM-
0.8.xsd">
<rsm:HeaderDocument>
<IdentificationId>XXXXXXXXXX</IdentificationId>
<TypeCode>AS1</TypeCode>
<Name>AS1 Response</Name>
<SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
<Remark>Message received by sending ASW Gateway</Remark>
<ReasonCode>006</ReasonCode>
<CategoryCode>AS1</CategoryCode>
<ReferenceDocument>
<IdentificationId>XXXXXXXXXX</IdentificationId>
<TypeCode>961</TypeCode>
<IssueDateTime>2002-07-01T05:10:10</IssueDateTime>
</ReferenceDocument>
<SenderParty>
<IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXX</IdentificationId>
</SenderParty>
<RecipientParty>
<IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXX</IdentificationId>
</RecipientParty>
<IssueCountry>
<IdentificationId schemeld="3" schemeAgencyId="UNECE"
schemeVersionId="15">ID</IdentificationId>
<Name>a</Name>
</IssueCountry>
</rsm:HeaderDocument>
</rsm:UNeDocsShipBIM>
```

### Appendix B.8 – Customs Response (961) – Acknowledgement Status (AS2)

```
<?xml version="1.0" encoding="UTF-8" ?>
<rsm:UNeDocsShipBIM
xmlns="urn:un:unece:uncefact:data:draft:ReusableAggregateBusinessInformationEntitySchema
Module:0:8" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8"
```

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```
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8 UNeDocsShipBIM-0.8.xsd">
<rsm:HeaderDocument>
  <IdentificationId>XXXXXXXXXXXX</IdentificationId>
  <TypeCode>AS2</TypeCode>
  <Name>AS2 Response</Name>
  <SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
  <CategoryCode>AS2</CategoryCode>
  <Remark>Message received by receiving ASW Gateway</Remark>
  <ReasonCode>006</ReasonCode>
  <ReferenceDocument>
    <IdentificationId>XXXXXXXXXXXX</IdentificationId>
    <TypeCode>961</TypeCode>
    <IssueDateTime>2002-07-01T05:10:10</IssueDateTime>
  </ReferenceDocument>
  <SenderParty>
    <IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
  </SenderParty>
  <RecipientParty>
    <IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
  </RecipientParty>
  <IssueCountry>
    <IdentificationId schemeld="3" schemeAgencyId="UNECE"
schemeVersionId="15">ID</IdentificationId>
    <Name>a</Name>
  </IssueCountry>
</rsm:HeaderDocument>
</rsm:UNeDocsShipBIM>
```

### Appendix B.9 – Customs Response (961) – Acknowledgement Status (AS3)

```
<?xml version="1.0" encoding="UTF-8" ?>
<rsm:UNeDocsShipBIM
xmlns="urn:un:unece:uncefact:data:draft:ReusableAggregateBusinessInformationEntitySchema
Module:0:8" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8"
xsi:schemaLocation="urn:un:unece:uncefact:data:draft:UNeDocsShipBIM:0:8 UNeDocsShipBIM-0.8.xsd">
  <rsm:HeaderDocument>
    <IdentificationId>XXXXXXXXXXXX</IdentificationId>
    <TypeCode>AS3</TypeCode>
    <Name>AS3 Response</Name>
    <SubmissionDateTime>2002-07-01T05:10:10</SubmissionDateTime>
    <CategoryCode>AS3</CategoryCode>
    <Remark>Message received by NSW</Remark>
    <ReasonCode>006</ReasonCode>
    <ReferenceDocument>
      <IdentificationId>XXXXXXXXXXXX</IdentificationId>
      <TypeCode>961</TypeCode>
      <IssueDateTime>2002-07-01T05:10:10</IssueDateTime>
    </ReferenceDocument>
    <SenderParty>
      <IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
```



## ACDD Message Implementation Guide and Process Specifications

```
</SenderParty>
<RecipientParty>
  <IdentificationId schemeld="1"
schemeAgencyId="ASEAN">XXXXXXXXXXXX</IdentificationId>
</RecipientParty>
<IssueCountry>
  <IdentificationId schemeld="3" schemeAgencyId="UNECE"
schemeVersionId="15">ID</IdentificationId>
  <Name>a</Name>
</IssueCountry>
</rsm:HeaderDocument>
</rsm:UNeDocsShipBIM>
```