



***CARGO MANIFEST
XML MESSAGE DESCRIPTION***

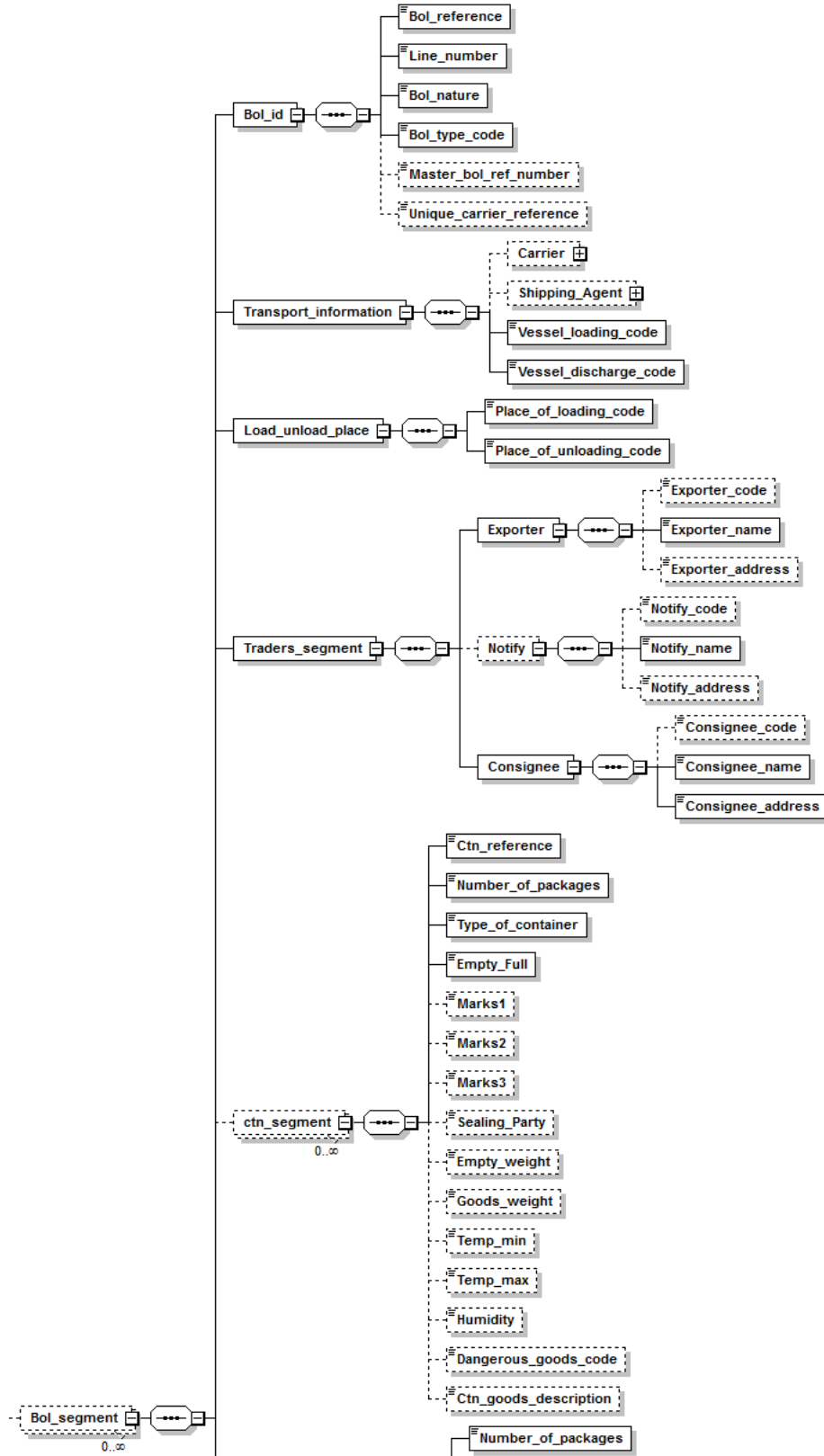


Aruba

Draft version (v4.3.1) August 2020

TABLE OF CONTENTS

<i>Introduction</i> _____	4
<i>ASYCUDA World XML Manifest and Degroupage Message Format</i> _____	4
General Description _____	4
Manifest Data Stream _____	4
Manifest Data Stream Tag Description _____	6
Special Considerations _____	12
Degroupage Data Stream _____	13
Degroupage Data Stream Tag Description _____	14
Special Considerations _____	14
Additional Information _____	14
Coloader Data Stream _____	15
Coloader Data Stream Tag Description _____	15
<i>Annex A – Visual representation - General Segment (for manifest)</i> _____	16
<i>Annex B – Visual representation - BOL segment</i> _____	17



_____ 17

Annex C – AW Manifest asyfc message disposition codes

_____ 19

Introduction

The United Nations Conference on Trade and Development (UNCTAD) as part of its ASYCUDA Programme has developed applications, which allow for the electronic data interchange (EDI) between Customs Administrations and the trade community.

The present document will explain how trade operators can submit electronically data related to a cargo manifest in XML¹ format. The latter covers the complete manifest including cargo details of each transport document and the degroupage system.

ASYCUDA World XML Manifest and Degroupage Message Format

General Description

The ASYCUDA WORLD module ASYFCI (ASYCUDA’s Fast Cargo Integration) is the client application used by the system to integrate the cargo manifest and the degroupage (break down of consolidated cargo). Any carrier that has its own application or system to process a manifest and the degroupage will not be required to key in again all the information, carriers will only need to extract data from their systems and transform into an XML message.

Manifest Data Stream

The structure of the XML message, named as the Asycuda World Manifest Data Stream (AWMDS), consists of two big data segments:

- The general segment of the manifest <General_segment >
- Detailed data for each transport document <Bol_segment>

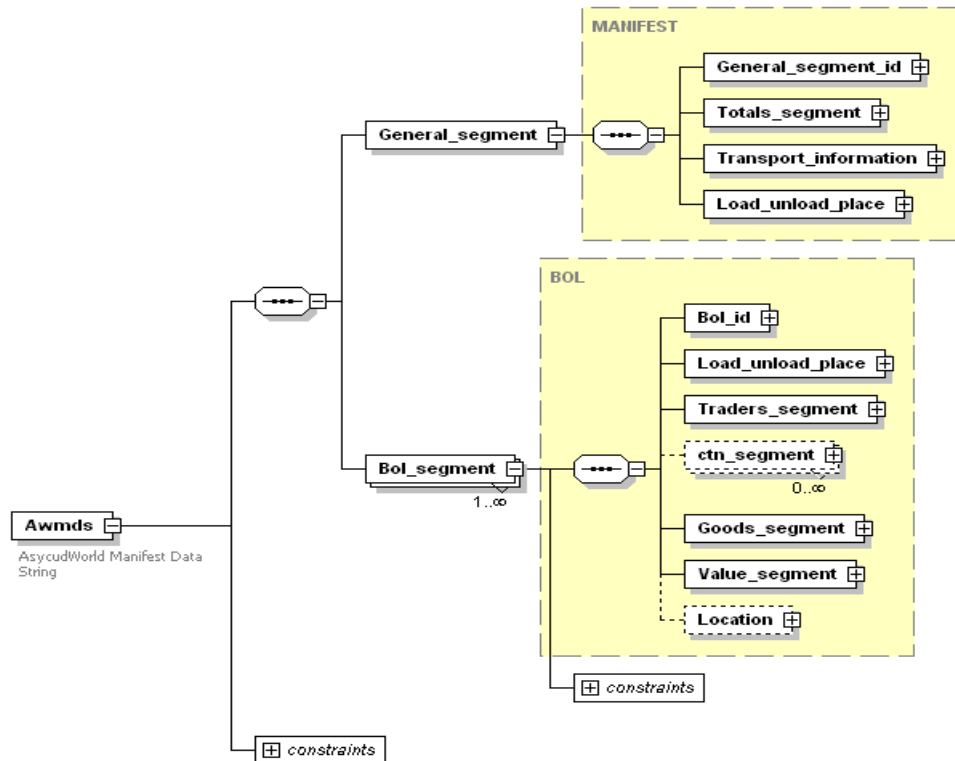


Figure 1

¹ XML: Extensible Markup Language

The general segment is composed by the following sub segments (see [ANNEX A](#)):

1. Manifest identification <General_segment_id>
2. Summary of different quantities included in the manifest <Totals_segment>
3. Manifest transport information <Transport_information>. This tag also contains the carrier details information sub segment <Carrier> and <Shipping_agent>
4. Information about the place/Port of departure and destination at the manifest level <Load_unload_place>
5. Measure of the cargo-carrying capacity of a ship <Tonnage>
6. Detailed data for each attached document (optional)
7. Coloader for non-vessel operating common carrier (NVOCC)/Indirect Air Carrier (IAC) <Coloader>
8. Previous or import manifest reference when submitting an export manifest <Previous_manifest_id>

The bill of lading segment is composed as follows (see [ANNEX B](#)):

1. Bill of Lading identification <Bol_id>
2. Information about the place/Port of departure and destination at the bill of lading level <Load_unload_place>
3. Traders' information <Traders_segment>. This sub segment also is divided in another 3 sub segments:
 - a. Exporter information <Exporter>
 - b. Notity information <Notify>
 - c. Consignee information <Consignee>
4. Detailed data for each container <ctn_segment>
5. Goods description <Goods segment>.
6. Detailed data for each splitting <Split_segment>
7. Detailed data containing the bill of lading valuation tags: <Value_segment>. This sub segment also is composed by another 4 sub segments:
 - i. Freight information <Freight_segment>
 - ii. Customs valuation information <Customs_segment>
 - iii. Insurance information <Insurance_segment>
 - iv. Transport valuation information <Transport_segment>
8. Location information <Location>
9. Export declaration segment <Sad_export>
10. Segment <Authorize>. Contains the company code who is responsible to break down (master waybill) or the declarant code to split (house waybill) the current waybill

The AWMDS message must have information about only one manifest and can accept a large number of bills of lading.

The following attached files are part of this document:

- Awmds.xsd → This is the schema file to validate manifest xml files (Awmds element). It is also built-in the ASYFCI module.

You can also have attached to this documentation xml manifest files as examples. This files show different types of manifests.

Manifest Data Stream Tag Description

The tables in this section provide information about each Tag required for the AWMDS XML message, including the format, their use (optional or mandatory), and tag name.

The format specified for each tag can be one of the following types:

Format	Definition	Examples
INT	Integer number up to 18 digits	1 8758943
N#	Decimal number up to 18 digits including decimal places and point. The number (#) sign should be replaced with the actual length required.	N5 =>10.00 N5 =>4789 N8 =>556.259
AN#	Alphanumeric string.	AN1 =>C AN35 =>JOHN DOE
DATE	Date format yyyy-MM-dd (year-month-day)	2007-12-31
TIME	Time format hh:mm:ss	12:30:00
BOOLEAN	Truth value. Allowed values: <ul style="list-style-type: none"> “true” or “1” “false” or “0” 	“true” or “1” “false” or “0”

SEGMENT: < General_segment_id >			
TAG NAME	FORMAT	USE	DESCRIPTION
< Customs_office_code >	AN5	Mandatory	Customs office code where manifest will be submitted
<Voyage_number>	AN17	Mandatory	Voyage or flight number assigned by the carrier (upper case)
<Date_of_departure>	DATE	Mandatory	Departure or sailing date
<Date_of_arrival>	DATE	Optional	Arrival date
<Time_of_arrival>	TIME	Optional	Arrival time
<Date_of_last_discharge>	DATE	Optional	Date when last piece of cargo is discharged from vessel or aircraft

SEGMENT: < Totals_segment >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Total_number_of_bols>	INT	Mandatory	Total number of transport documents (Bill of Lading, Airway Bill, etc.)
<Total_number_of_packages>	N18	Mandatory	Number of packages for this manifest. Total piece count of goods being transported
<Total_number_of_containers>	INT	Mandatory	Total number of containers described in this manifest
<Total_gross_mass>	N18	Mandatory	Total gross mass (KG) for this manifest

SEGMENT: < Transport_information >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Mode_of_transport_code>	AN3	Mandatory	Mode of transportation
<Identity_of_transporter>	AN27	Optional	Transport unit name (e.g. Vessel or Aircraft name)
<Nationality_of_transporter_code>	AN3	Mandatory	Transport unit nationality code (ISO 2-Alpha country code)
<Place_of_transporter>	AN35	Optional	Cargo carrier name
<Registration_number_of_transport_code>	AN35	Optional	IMO/IATA registration reference
<Date_of_registration>	DATE	Optional	IMO/IATA registration date (if available)
<Master_information>	AN70	Mandatory	Master/Captain name

SEGMENT: <Transport_information> / < Carrier >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Carrier_code>	AN17	Mandatory	Carrier code assigned by Customs
<Carrier_name>	AN35	Optional	Carrier name
<Carrier_address>	AN140	Optional	Carrier address

SEGMENT: <Transport_information> / < Shipping_Agent >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Shipping_Agent_code>	AN17	Mandatory	Carrier representative CRIB
<Shipping_Agent_name>	AN140	Optional	Carrier representative name

SEGMENT: < Load_unload_place >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Place_of_departure_code>	AN5	Mandatory	Place/Port of departure code where voyage started (UN/LOCODE)
<Place_of_destination_code>	AN5	Mandatory	Place/Port of destination code where goods are off-loaded (UN/LOCODE)

SEGMENT: < Tonnage >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Tonnage_net_weight>	N18	Optional	Net weight of the ship
<Tonnage_gross_weight>	N18	Optional	Gross weight of the ship

SEGMENT: <Attached_Document>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Attached_document_code>	AN4	Mandatory	Attached document code registered by Customs
<Attached_document_filename>	AN255	Mandatory	Name of the file to be attached
<Attached_document_content>	xs:base64 binary	Mandatory	Represents Base64-encoded arbitrary binary data defined in [RFC 2045]

SEGMENT: <Coloader>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Coloader_code>	AN17	Mandatory	Carrier code assigned by Customs
<Coloader_name>	AN35	Optional	Carrier name

SEGMENT: < Previous_manifest_id >			
TAG NAME	FORMAT	USE	DESCRIPTION
< Customs_office_code >	AN5	Mandatory	Customs office code of previous or import manifest
<Voyage_number>	AN17	Mandatory	Voyage or flight number of previous or import manifest
<Date_of_departure>	DATE	Mandatory	Departure or sailing date of previous or import manifest

SEGMENT: < Bol_id >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Bol_reference>	AN17	Mandatory	Transport document reference number (Bill of Lading no., Airway bill no.)
<Line_number>	INT	Optional	Transport document sequence line number
<Bol_nature>	AN2	Mandatory	Transport document use: 22= Exports; 23= Imports; 24= In-Transit; 28= Transhipment
<Bol_type_code>	AN3	Mandatory	Transport document type code
<Master_bol_ref_number>	AN25	Mandatory ²	Master bill of lading reference number for consolidated cargo
<Unique_carrier_reference>	AN35	Optional	Unique cargo reference code

SEGMENT: < Load_unload_place >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Place_of_loading_code>	AN5	Mandatory	Place/Port of initial loading code (UN/LOCODE)
<Place_of_unloading_code >	AN5	Mandatory	Place/Port of final destination code (UN/LOCODE)

SEGMENT: <Traders_segment> < Exporter >			
--	--	--	--

² Mandatory when submitting bills of lading or AWB that belong to consolidated cargo during degroupage. If the bill of lading or AWB does not belong to consolidated cargo the tag is optional.

TAG NAME	FORMAT	USE	DESCRIPTION
<Exporter_code>	AN17	Optional	Exporter code
<Exporter_name>	AN70	Mandatory	Exporter/Supplier Name
<Exporter_address >	AN250	Mandatory	Exporter/Supplier Address

SEGMENT: <Traders_segment> < Notify >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Notify_code>	AN17	Optional	Notify Code
<Notify_name>	AN70	Optional	Notify Name
<Notify_address >	AN250	Optional	Notify Address

SEGMENT: <Traders_segment> < Consignee >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Consignee_code>	AN17	Optional	Consignee code
<Consignee_name>	AN70	Mandatory ³	Consignee name
<Consignee_address >	AN250	Mandatory	Consignee address

³ The consignee name and consignee address become mandatory if the consignee code is left empty.

SEGMENT: < ctn_segment >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Ctn_reference>	AN17	Mandatory	Container identification number. Four letters for container owner, six-digits container serial number and check digit (e.g. OTEU1223808). No spaces or other separators allowed.
<Number_of_packages >	INT	Mandatory	Number of packages for this container
<Type_of_container >	AN4	Mandatory	Container size-type code
<Empty_Full >	AN3	Mandatory	Container flag: empty, full, etc. indicator
<Marks1>	AN10	Optional	Container 1st seal number
<Marks2>	AN10	Optional	Container 2nd seal number
<Marks3>	AN10	Optional	Container 3rd seal number
<Sealing_Party>	AN3	Optional	Sealing party (affixing seal) code
<Empty_weight>	N18	Optional	Empty weight of the container
<Goods_weight>	N18	Optional	Gross mass for goods in container

SEGMENT: <Goods_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Number_of_packages>	N18	Mandatory	Total number of packages for this transport document
< Package_type_code >	AN17	Mandatory	Package type code
< Gross_mass >	N18	Mandatory	Total gross mass (KG) for this transport document
< Shipping_marks >	AN2000	Mandatory	Shipping marks and numbers
< Goods_description >	AN2000	Mandatory	Goods description
<Volume_in_cubic_meters>	N18	Mandatory	Volume in cubic meters
< Num_of_ctn_for_this_bol >	INT	Mandatory	Number of containers in this transport document
<Information>	AN70	Optional	Additional information

SEGMENT: < Split_segment >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Number_of_packages>	N18	Mandatory	Number of packages for this splitting
<Package_type_code>	AN17	Mandatory	Package type code
<Gross_mass>	N18	Mandatory	Gross mass (KG) for this splitting
<Shipping_marks>	AN70	Mandatory	Shipping marks and numbers
<Goods_description>	AN70	Mandatory	Goods description
<Container>			Sub-segment for container
<Reference>	AN17	Optional	Container identification number
<Unloaded>	BOOLEAN	Optional	Unload Container (true or false)

SEGMENT: < Seals_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Number_of_seals>	INT	Optional	Number of additional/loose cargo seals
<Marks_of_seals>	AN20	Optional	Marks of seals
<Sealing_party_code>	AN3	Optional	Sealing party code

SEGMENT: < Freight_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<PC_indicator>	AN3	Optional	Prepaid/Collect Freight indicator
<Freight_value>	N18	Optional	Freight instruction value
<Freight_currency>	AN3	Optional	Freight instruction currency

SEGMENT: < Customs_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Customs_value>	N18	Optional	Customs value
<Customs_currency>	AN3	Optional	Customs currency

SEGMENT: < Insurance_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Insurance_value>	N18	Optional	Insurance cost
<Insurance_currency>	AN3	Optional	Insurance cost currency

SEGMENT: < Transport_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Transport_value>	N18	Optional	Overall freight cost
<Transport_currency>	AN3	Optional	Overall freight cost currency

SEGMENT: <Location>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Location_code>	AN17	Optional	Location code of transit shed or storage area
<Location_info>	AN35	Optional	Location additional information

SEGMENT: < Sad_export>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Customs_office>	AN5	Optional	Customs office code where the declaration was submitted
<Registration_serial>	AN1	Optional	Registration serial
<Registration_number>	INT	Optional	Registration number
<Registration_date>	DATE	Optional	Registration date

SEGMENT: < Authorize >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Company_code>	AN17	Mandatory ⁴	Company code that is authorized to breakdown the master waybill
<Declarant_code>	AN140	Mandatory ⁵	Declarant code that is authorized to split the house waybill

Special Considerations

1. In some cases, data may be unavailable when constructing the AWMDS message. If Customs Agency does not define that information as mandatory, the user can omit those tags.
2. It is very important to include correctly the identification data of the manifest when creating each transport document segment (Bol_segment).

⁴ Mandatory if declarant code is not set within Authorize element

⁵ Mandatory if company code is not set within Authorize element

Degroupage Data Stream

The structure of the XML message, named as the Asycuda World Bill of Lading Degroupage Stream (Awbolds), consists of two data segments:

- The master bill of lading reference segment <Master_bol >
- Detailed data for each house transport document <Bol_segment>

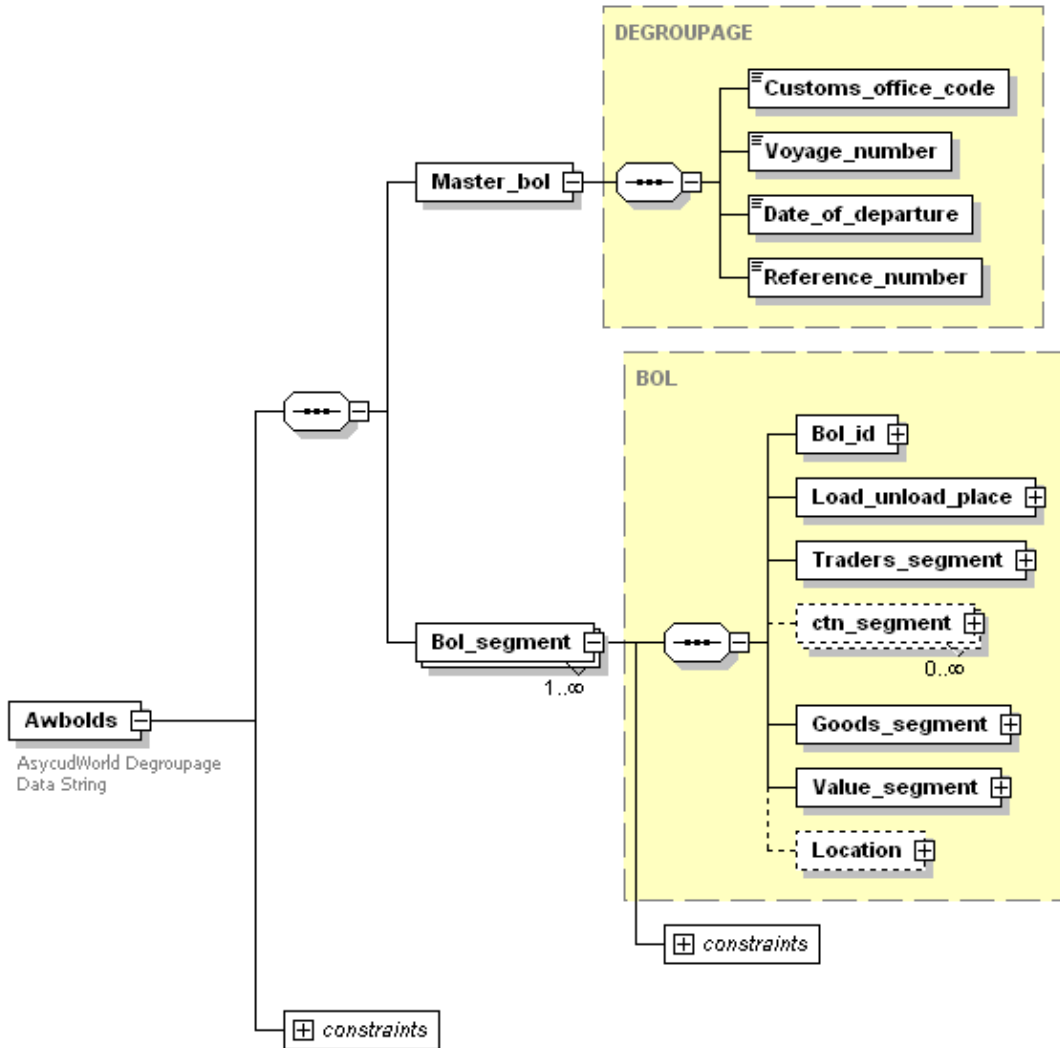


Figure 2

The structure of the <Bol_segment> is the same one that the segment <Bol_segment> of the manifest (see [ANNEX B](#)).

The Awbolds message must have information about only one degroupage and will accept a large number of bills of lading.

The following attached files are part of this document:

- Awbolds.xsd → This is the schema file to validate degroupage xml files (Awbolds element). It is also included in the ASYFCI module.

You can also have xml degroupage files as examples. This files show different types of degroupage.

Degroupage Data Stream Tag Description

The table in this section provide information about each tag required for the <Master_bol> segment, including the format, their use (optional or mandatory), and tag name.

SEGMENT: < Master_bol >			
TAG NAME	FORMAT	USE	DESCRIPTION
< Customs_office_code >	AN5	Mandatory	Customs office code where manifest will be submitted
<Voyage_number>	AN17	Mandatory	Voyage or flight number assigned by the carrier
<Date_of_departure>	DATE	Mandatory	Departure or sailing date
<Reference_number>	AN25	Mandatory	Master transport document reference number
<Shipping_Agent_code>	AN17	Mandatory	Carrier representative CRIB

Special Considerations

1. In some cases, data may be unavailable when constructing the AWBOLDS message. If Customs Agency does not define that information as mandatory, the user can omit those tags.
2. To perform the degroupage, the manifest should be either stored or registered.
3. The degroupage can be done in one or multiple xml files (<Master_bol> segment should be the same for all xml files).
4. The Awbolds message should have information about only one Master document.
5. ANNEX A and ANNEX B do not display all tags described in detail in this document.

Additional Information

- If you need to add new Bill of Ladings to Manifest or Degroupage, you can use your previous file, add the new BOL, and reload it. The system just will add new information, old data will be skipped.
- If you had erroneous data, you can delete old information and reload the file, the system will update all information re-submitted.

Coloader Data Stream

The structure of the XML message, named as the Asycuda World Manifest Coloader Stream (Awmcds), consists of two data segments:

- The manifest identification segment <Manifest_identification>
- Detailed data for each waybill document <Bol_segment>

The structure of the <Bol_segment> is the same one that the segment <Bol_segment> of the manifest (see [ANNEX B](#))

The following attached files are part of this document:

- Awmcxs.xsd → This is the schema file to validate Coloader xml files

Coloader Data Stream Tag Description

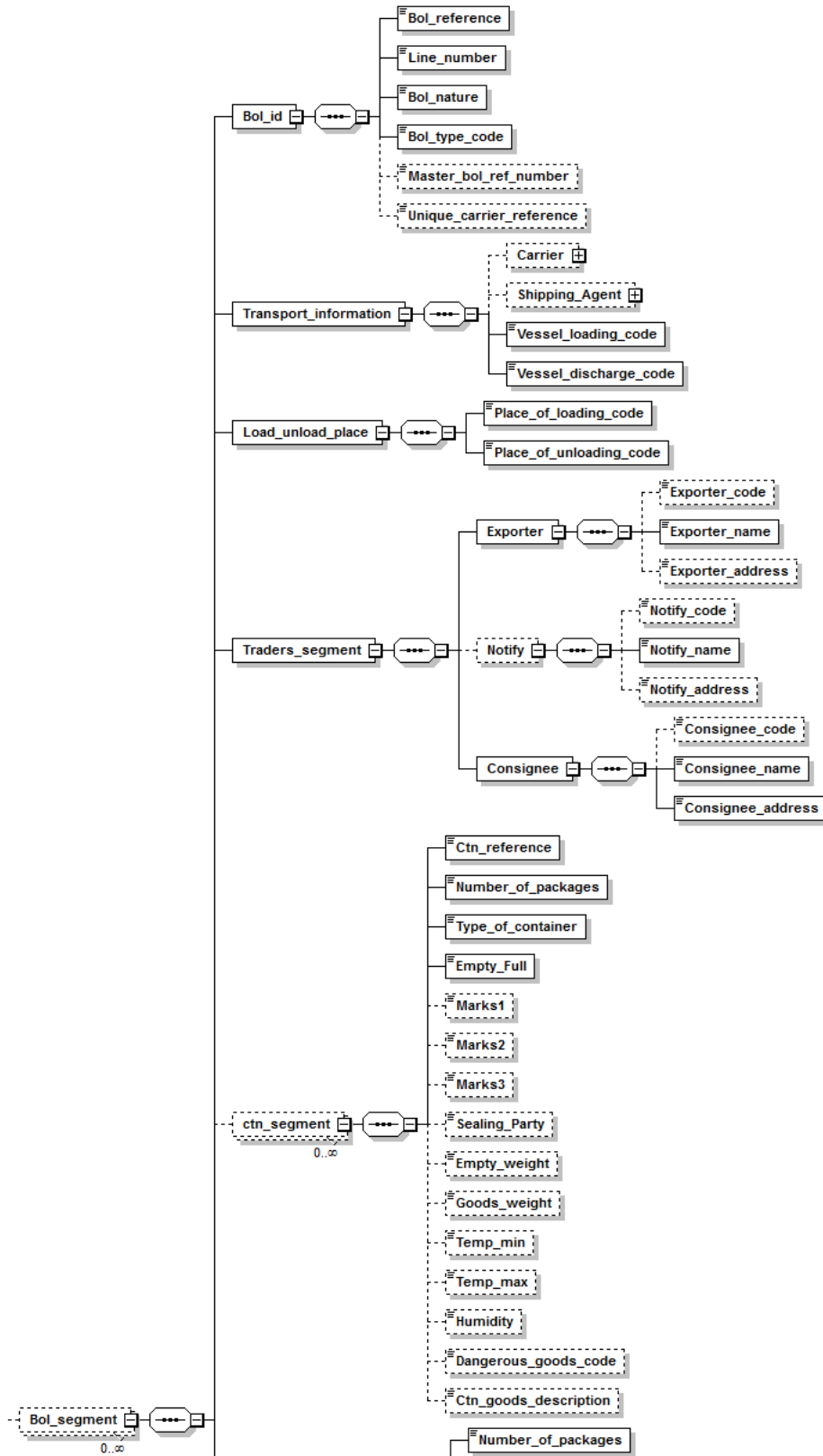
The table in this section provide information about each tag required for the <Manifest_identification> segment, including the format, their use (optional or mandatory), and tag name.

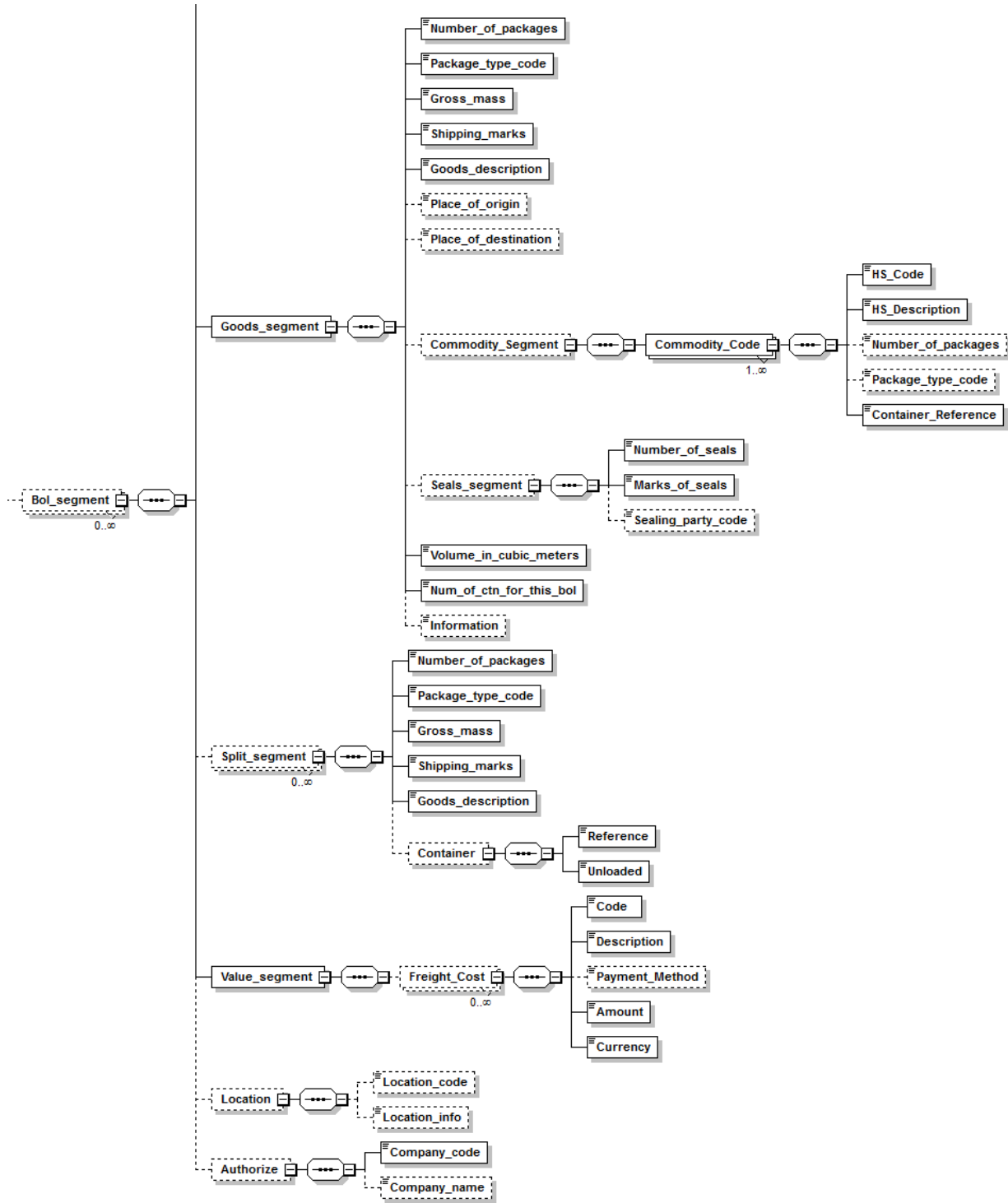
SEGMENT: < Master_bol >			
TAG NAME	FORMAT	USE	DESCRIPTION
< Customs_office_code >	AN5	Mandatory	Customs office code where manifest will be submitted
<Voyage_number>	AN17	Mandatory	Voyage or flight number assigned by the carrier
<Date_of_departure>	DATE	Mandatory	Departure or sailing date
<Coloader_code>	AN17	Mandatory	Carrier code of the coloader
<Shipping_Agent_code>	AN17	Mandatory	Carrier representative CRIB

Annex A – Visual representation - General Segment (for manifest)



Annex B – Visual representation - BOL segment





Annex C – AW Manifest asyfici message disposition codes

CODE	NAME	DESCRIPTION
300	INVALID_XML	XML is not valid
301	XML_PARSING_ERROR	Error parsing the XML file
401	INVALID_ACTION	Action not valid
402	SERVER_RULE_ERROR	Error in Server Rule
403	ATTACH_FAILED	Failed to attach file
404	SERVER_ERROR	Error in Server
405	INVALID_DEPARTURE_DATE	Departure date not valid
406	MANIFEST_LOCK	Manifest locked
407	MANIFEST_NOT_FOUND	Manifest not found
408	MANIFEST_ALREADY_EXIST	Manifest exists
409	INVALID_DATE_FORMAT	Date format not valid
410	INVALID_DOUBLE_FORMAT	Number format not valid
411	INVALID_TIME_FORMAT	Time format not valid
412	INVALID_INTEGER_FORMAT	Number format not valid
413	REFERENCE_VALUE_NOT_FOUND	Reference value not found
414	COMPANY_NOT_VALID	Company not valid
415	WAYBILL_ALREADY_EXIST	Waybill exists