



***CARGO MANIFEST***  
***XML MESSAGE DESCRIPTION***



**ST. VINCENT & THE GRENADINES**

**Draft version (v1.60), April 2019**

## TABLE OF CONTENTS

<i>Introduction</i>	3
<i>ASYCUDA World XML Manifest and Degroupage Message Format</i>	3
General Description	3
Manifest Data Stream	4
Manifest Data Stream Tag Description	7
Special Considerations	13
Degroupage Data Stream	14
Degroupage Data Stream Tag Description	16
Special Considerations	16
Additional Information	17
<i>Annex A – Visual representation - General Segment (for manifest)</i>	18
<i>Annex B – Visual representation -BOLsegment</i>	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 XML<sup>1</sup> 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 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.

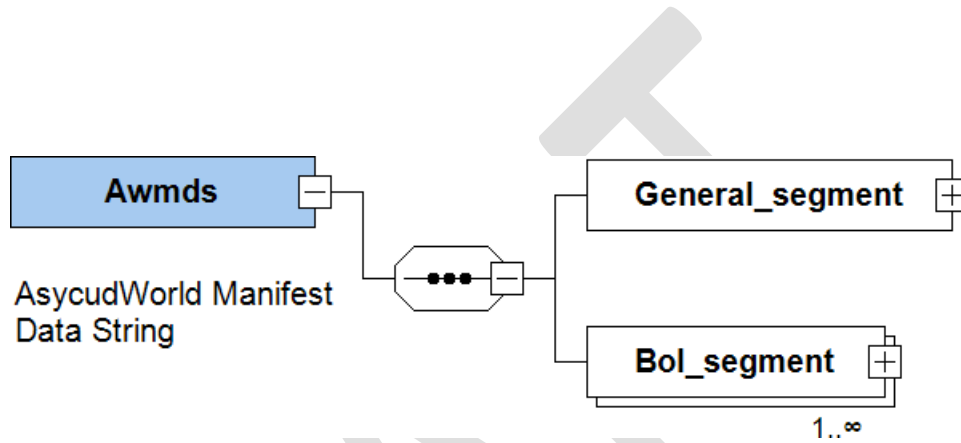
---

<sup>1</sup> XML: Extensible Markup Language

### **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>



The following diagram on the next page expands both the **General\_segment** and the **Bol\_segment**.

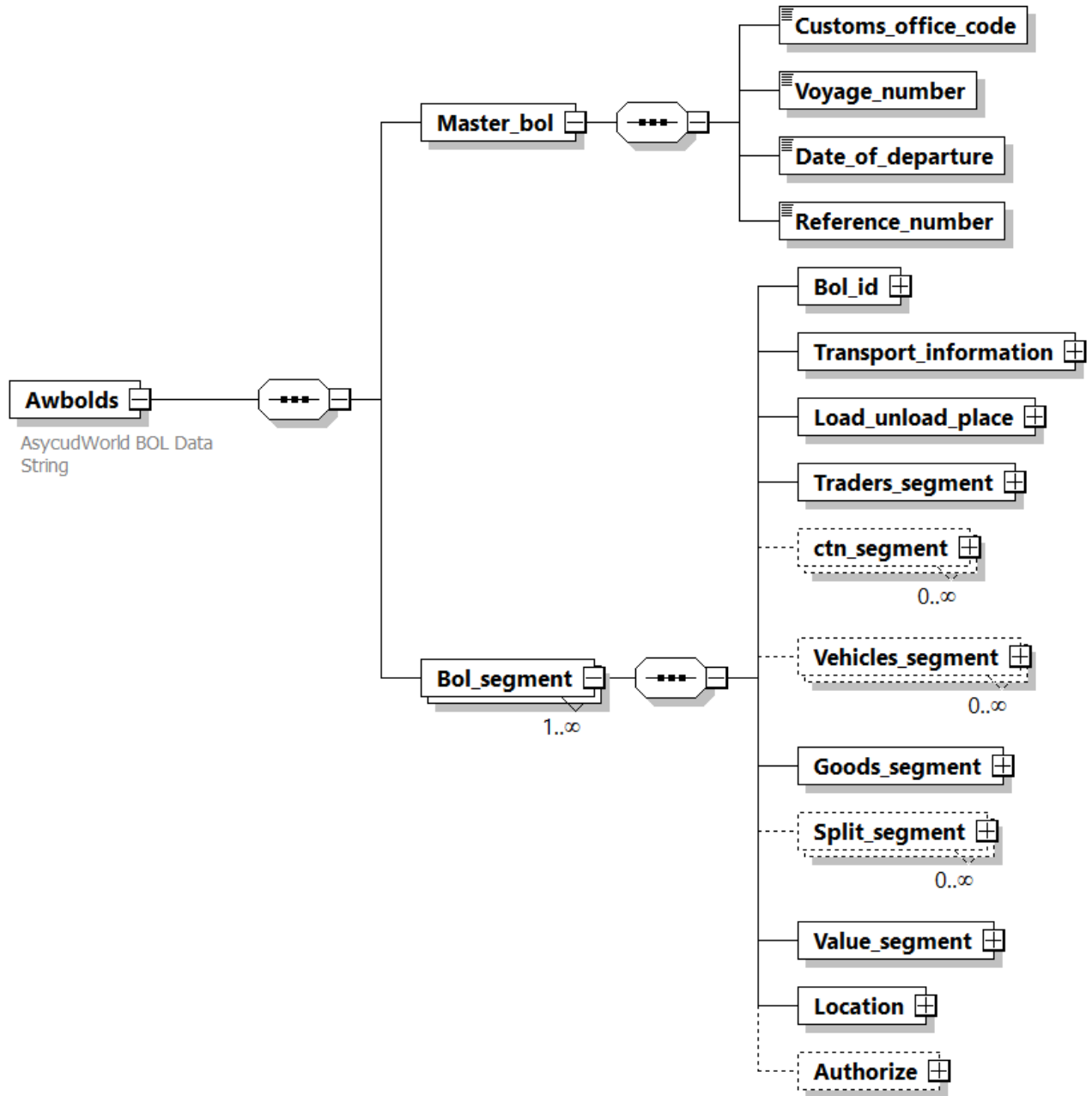


Figure 1

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>.
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. CO-Loaders list (optional)

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

1. Bill of Lading identification <Bol\_id>
2. Transport information <Transport\_information>. Optional, if cargo does not belong to the same carrier identified in the general segment of the manifest. This applies only to co-loader carriers.
3. Information about the Place/Port of departure and destination at the bill of lading level <Load\_unload\_place>
4. Traders' information <Traders\_segment>. This sub segment also is divided in another 3 subsegments:
  - a. Exporter information <Exporter>
  - b. Notify information <Notify>
  - c. Consignee information <Consignee>
5. Detailed data for each container <ctn\_segment>
6. Detailed data for each vehicle <Vehicles\_segment>
7. Goods description <Goods\_segment>
8. Detailed data for each splitting <Split\_segment>
9. Detailed data containing the bill of lading valuation tags <Value\_segment>. This subsegment also is composed by another 4 subsegments:
  - a. Freight information <Freight\_segment>
  - b. Customs valuation information <Customs\_segment>
  - c. Insurance information <Insurance\_segment>
  - d. Transport valuation information <Transport\_segment>.

10. Location information <Location>

11. Segment <Authorize>. Contains the company code who is responsible to break down (master waybill) or 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:

<b>Format</b>	<b>Definition</b>	<b>Examples</b>
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"> <li>• "true" or "1"</li> <li>• "false" or "0"</li> </ul>	"true" or "1" "false" or "0"

<b>SEGMENT: &lt;General_segment_id&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<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	Mandatory	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

<b>SEGMENT: &lt;Totals_segment&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<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_number_of_vehicles>	INT	Mandatory	Total number of vehicles described in this manifest
<Total_gross_mass>	N18	Mandatory	Total gross mass (KG) for this manifest

<b>SEGMENT: &lt;Transport_information&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Mode_of_transport_code>	AN3	Mandatory	Mode of transportation (1=Sea; 3=Road; 4=Air; 5=Postal)
<Identity_of_transporter>	AN27	Mandatory	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	Transport unit registration place (city)
<Registration_number_of_transport_code>	AN35	Mandatory	IMO/IATA registration reference
<Date_of_registration>	DATE	Optional	IMO/IATA registration date (if available)
<Master_information>	AN70	Mandatory	Master/Captain name

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

<b>SEGMENT: &lt;Shipping_Agent&gt;</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Shipping_Agent_code>	AN17	Mandatory	Shipping agent code assigned by Customs
<Shipping_Agent_name>	AN35	Optional	Shipping agent name

<b>SEGMENT: &lt;Load_unload_place&gt;</b>			
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)

<b>SEGMENT: &lt;Tonnage&gt;</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Tonnage_net_weight>	N18	Mandatory	Net weight of the ship
<Tonnage_gross_weight>	N18	Mandatory	Gross weight of the ship
<Destination_customs_office_code>	AN5	Optional	Customs office of destination in case of transit

<b>SEGMENT: &lt;Attached_Document&gt; OPTIONAL SEGMENT</b>			
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]

<b>SEGMENT: &lt;Coloader&gt; OPTIONAL SEGMENT</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Coloader_code>	AN17	Mandatory	Carrier code assigned by Customs
<Coloader_name>	AN35	Optional	Carrier name

<b>SEGMENT: &lt;Bol_id&gt;</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Bol_reference>	AN25	Mandatory	Transport document reference number (Bill of Lading no., Airway bill no.)
<Line_number>	INT	Mandatory	Transport document sequence line number
<Bol_nature>	AN2	Mandatory	Transport document use: 22 = Exports; 23 = Imports; 24 = Transit; 28 = Transshipment
<Bol_type_code>	AN3	Mandatory	Transport document type code

<b>SEGMENT: &lt;Bol_id&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Master_bol_ref_number>	AN25	Optional <sup>2</sup>	Master bill of lading reference number for consolidated cargo
<Unique_carrier_reference>	AN35	Optional	Unique cargo reference code

<b>SEGMENT: &lt; Transport_information &gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Vessel_loading_code>	AN5	Optional <sup>3</sup>	Place/Port where the consignment was loaded on to the current vessel (UN/LOCODE)
<Vessel_discharge_code>	AN5	Optional <sup>4</sup>	Place/Port where the consignment will be unloaded from the current vessel (UN/LOCODE)

<b>SEGMENT: &lt;Load_unload_place&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<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)

<b>SEGMENT: &lt;Exporter&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Exporter_code>	AN17	Optional <sup>5</sup>	Exporter code
<Exporter_name>	AN75	Mandatory	Exporter/Supplier Name
<Exporter_address>	AN140	Mandatory	Exporter/Supplier Address

<b>SEGMENT: &lt;Notify&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Notify_code>	AN17	Optional	Notify Code
<Notify_name>	AN75	Mandatory	Notify Name
<Notify_address>	AN140	Mandatory	Notify Address

<b>SEGMENT: &lt;Consignee&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Consignee_code>	AN17	Optional <sup>6</sup>	Consignee code
<Consignee_name>	AN75	Mandatory <sup>7</sup>	Consignee name
<Consignee_address>	AN140	Mandatory	Consignee address

<sup>2</sup> 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.

<sup>3</sup> Mandatory if there was a change of vessel or aircraft.

<sup>4</sup> Mandatory if there was further transshipment to be done.

<sup>5</sup> Mandatory only when creating export bill of lading or AWB.

<sup>6</sup> The consignee code is optional only on House Bills of Lading/AWB. If the transport document is a Master Bill of Lading or Master Airway Bill, the Consignee code must contain the Consolidator's consignee code for them to degroup.

<sup>7</sup> The consignee name and consignee address become mandatory if the consignee code is left empty.

<b>SEGMENT: &lt;ctn_segment&gt; OPTIONAL SEGMENT</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Ctn_reference>	AN17	Mandatory	Container identification number. Four letters for container owner, six- digits container serial number and check digit (e.g. CMCU1223808). 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 (ISO6346:1995)
<Empty_Full>	AN3	Mandatory	Container flag: empty, full, etc. indicator
<Marks1>	AN10	Mandatory	Container 1st seal number
<Marks2>	AN10	Optional	Container 2nd seal number
<Marks3>	AN10	Optional	Container 3rd seal number
<Sealing_Party>	AN3	Mandatory	Sealing party (affixing seal) code
<Empty_weight>	N18	Mandatory	Empty weight of the container (KG)
<Goods_weight>	N18	Mandatory	Gross mass for goods in container (KG)
<Temp_min>	INT	Optional	Minimum temperature for reefer container (Celsius)
<Temp_max>	INT	Optional	Maximum temperature for reefer container (Celsius)
<Humidity>	INT	Optional	Humidity level for reefer container
<Dangerous_goods_code>	AN10	Optional	Dangerous goods code (UNDG)
<Ctn_volume>	N18	Mandatory	Volume of goods in container
<Disposition>	AN10	Optional	Cargo Disposition
<Ctn_line_number>	AN10	Mandatory	Container Line Code
<Ctn_goods_description>	AN2000	Mandatory	Description of goods in container
<Ctn_hs_code>	N6	Optional	Harmonised system code. Only 6 digits will be validated

<b>SEGMENT: &lt;Vehicles_segment&gt; OPTIONAL SEGMENT</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Chassis_number>	AN30	Mandatory	Chassis/VIN number of vehicles
<Engine_number>	AN30	Mandatory	Engine number
<Engine_capacity>	INT	Mandatory	Engine size (CCs) or (KWs)
<Odometer_reading>	INT	Mandatory	Mileage of vehicle
<Make_code>	AN4	Mandatory	E.g. NISSAN, TOYOTA etc
<Make_name>	AN40	Mandatory	E.g. XTRAIL, RAV4 etc
<Manufacturing_year>	INT	Mandatory	Year of manufacture
<Color>	AN30	Mandatory	Colour of vehicle
<Condition>	AN20	Mandatory	If vehicle is new or used

<b>SEGMENT: &lt;Goods_segment&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Number_of_packages>	N18	Mandatory	Total number of manifested packages for this waybill

<b>SEGMENT: &lt;Goods_segment&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<Package_type_code>	AN17	Mandatory	Package type code (UNECE CEFAC Recommendation 21 Alpha-2 code)
<Gross_mass>	N18	Mandatory	Total gross mass (KG) for this waybill
<Shipping_marks>	AN2000	Mandatory	Shipping marks and numbers
<Goods_description>	AN2000	Mandatory	Goods description
<Place_of_origin>	AN50	Optional	Place of origin of carriage. Waybill place of receipt
<Place_of_destination>	AN50	Optional	Place of ultimate destination of goods. Waybill place of delivery
<Goods_hs_code>	N6	Optional	Harmonize system code. Only 6 digits will be validated
<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
<Num_of_vehicles_for_this BOL>	INT	Mandatory	Number of vehicles in this transport document
<Information>	AN2000	Optional	Additional information

<b>SEGMENT: &lt;Split_segment&gt; OPTIONAL SEGMENT</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<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)

<b>SEGMENT: &lt;Sad_export&gt; OPTIONAL SEGMENT</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<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

<b>SEGMENT: &lt;Freight_segment&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<PC_indicator>	AN3	Optional	Prepaid/Collect Freight indicator (PP=Prepaid; CC=Collect)
<Freight_value>	N18	Optional	Freight instruction value
<Freight_currency>	AN3	Optional	Freight instruction currency code (ISO)

<b>SEGMENT: &lt;Customs_segment&gt;</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Customs_value>	N18	Optional	Customs value
<Customs_currency>	AN3	Optional	Customs currency code (ISO)

<b>SEGMENT: &lt;Insurance_segment&gt;</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Insurance_value>	N18	Optional	Insurance cost
<Insurance_currency>	AN3	Optional	Insurance cost currency code (ISO)

<b>SEGMENT: &lt;Transport_segment&gt;</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Transport_value>	N18	Optional	Overall freight cost
<Transport_currency>	AN3	Optional	Overall freight cost currency code (ISO)

<b>SEGMENT: &lt;Location&gt;</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Location_code>	AN17	Mandatory	Location code of transit shed or storage area
<Location_info>	AN35	Optional	Location additional information

<b>SEGMENT: &lt;Authorize &gt; OPTIONAL SEGMENT</b>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Company_code>	AN17	Mandatory	Company code that is authorized to breakdown the master waybill
<Company_name>	AN135	Optional	Name of the company
<Declarant_code>	AN17	Mandatory	Declarant/Broker code that is authorized to split the house waybill
<Declarant_name>	AN135	Optional	Name of the declarant

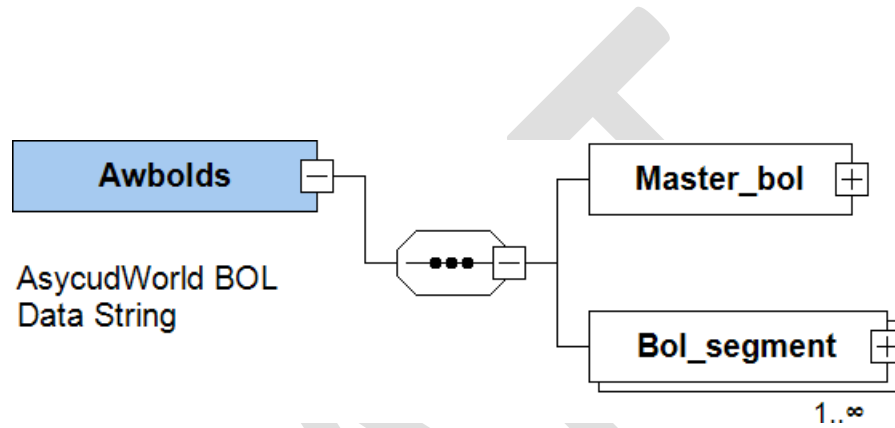
### **Special Considerations**

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).

### **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>



The following diagram on the next page expands both the **Master\_bol** (Degroupage segment) and the **Bol\_segment**.

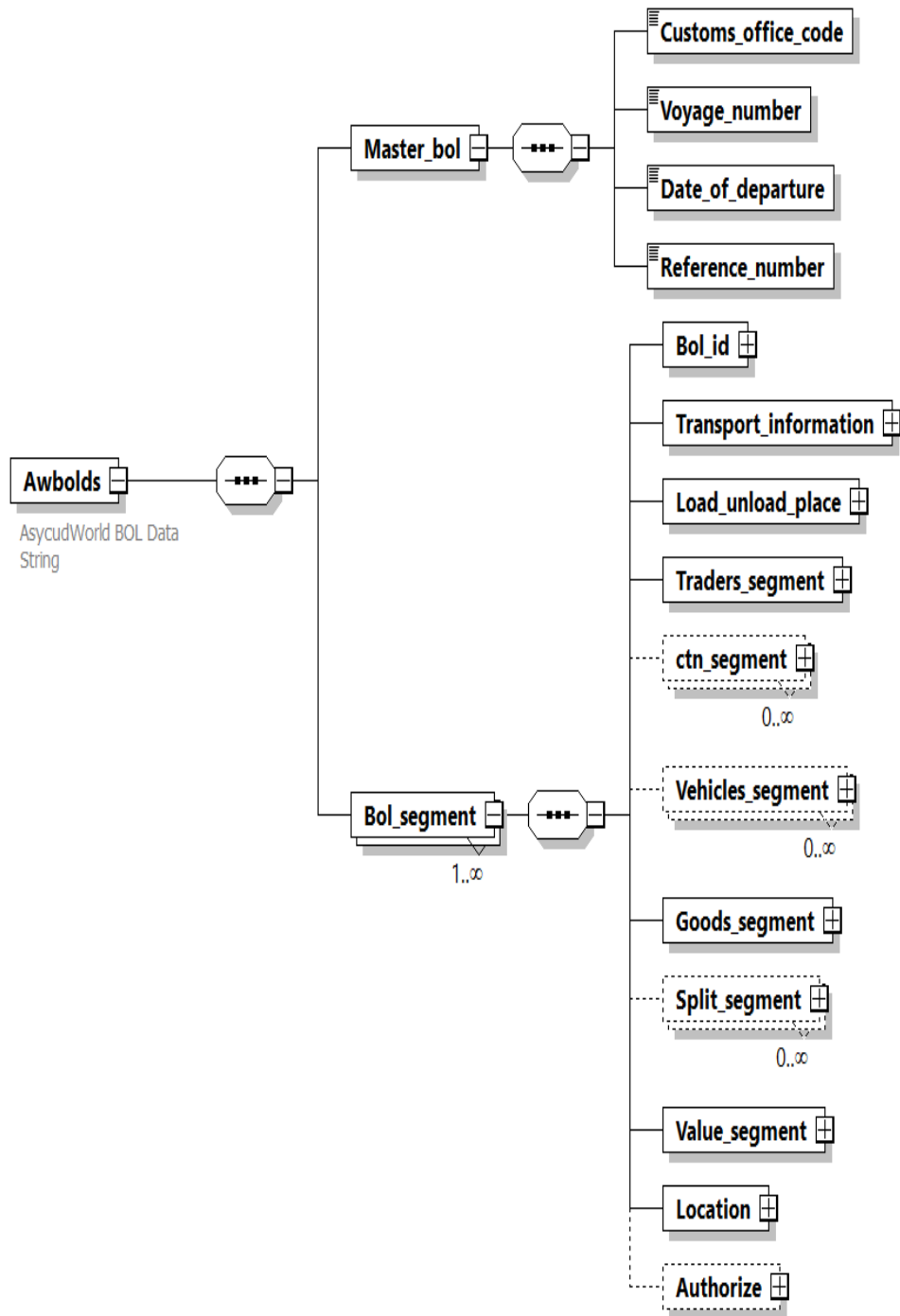


Figure 2

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. These files show different types of degroupage.

### ***Degroupage Data Stream Tag Description***

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

<b>SEGMENT: &lt;Master_bol&gt;</b>			
<b>TAG NAME</b>	<b>FORMAT</b>	<b>USE</b>	<b>DESCRIPTION</b>
<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>	AN17	Mandatory	Master Bill of Lading/Airway Bill number

### ***Special Considerations***

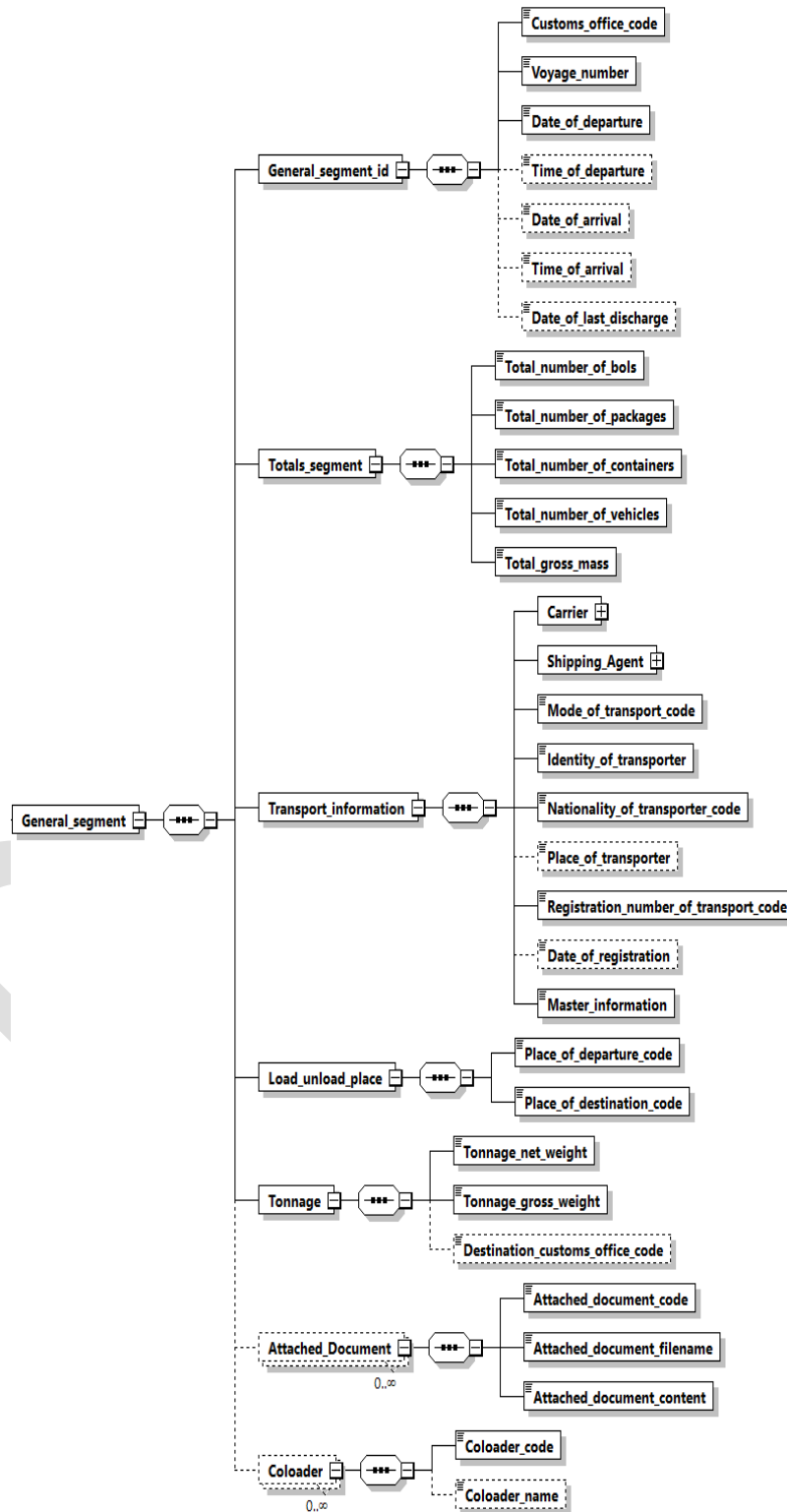
1. In some cases, data may be unavailable when constructing the AWBOLDS message. If Customs Agency does not define that information as mandatory, the user can omit those tags.
2. To perform the degroupage, the manifest should be either stored or registered.
3. The degroupage can be done in one or multiple 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.

DRAFT

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



# Annex B – Visual representation - BOL segment

