



UNCTAD

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CARGO MANIFEST
XML MESSAGE DESCRIPTION

ASYCUDA

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Introduction

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

The present document will explain how trade operators can submit electronically data from a carrier's manifest in XML format. The latter covers the complete manifest including cargo details of each transport document and the degroupage.

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. 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, they will only need to extract and transform the information 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>

The general segment is composed by the following sub segments:

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>

The bill of lading segment is composed as follows:

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. Notify information <Notify>
 - c. Consignee information <Consignee>
4. Detailed data for each container <ctn_segment>
5. Goods description <Goods segment>. This tag also contains the Seals information sub segment <Seals_segment>.

6. Detailed data containing the bill of lading valuation tags <Value_segment>. This sub segment also is composed by another 4 sub segments:
 - a. Freight information <Freight_segment>
 - b. Customs valuation information <Customs_segment>
 - c. Insurance information <Insurance_segment>
 - d. Transport valuation information <Transport_segment>.
7. Location information <Location>.

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

The following attached files are part of this document:

- AwmdsSchema.png à This file describes how data segments are structured for the AWMDS.
- Awmds.xsd à This is the schema file to validate manifest xml files. It is also included 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	2007-12-31
TIME	Time format hh:mm	12:30

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
<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	Last Discharge date

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	Number of containers for 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	Place/Port of departure code where voyage started
<Identify_of_transporter>	AN27	Optional	Identification of transporter
<Nationality_of_transporter_code>	AN3	Mandatory	Transporter nationality code
<Place_of_transporter>	AN35	Optional	Transport unit registration place (city).
<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	Optional	Master/Captain name

SEGMENT: < carrier >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Carrier_code>	AN17	Mandatory	Carrier code
<Carrier_name>	AN35	Mandatory	Carrier name
<Carrier_address>	AN70	Optional	Carrier address

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

SEGMENT: < Tonnage >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Tonnage_net_weight>	INT	Optional	Net weight – Whole manifest
<Tonnage_gross_weight>	INT	Optional	Gross weight – Whole manifest

SEGMENT: < Bol_id >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Bol_reference>	AN17	Mandatory	Transport document reference number
<Line_number>	INT	Mandatory	Transport document 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>	AN17	Optional	Master bill of lading reference number
<Unique_carrier_reference>	AN35	Optional	Carrier code /master bill of lading

SEGMENT: < Load_unload_place >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Place_of_loading_code>	AN5	Mandatory	Place/Port of loading code
<Place_of_unloading_code >	AN5	Mandatory	Place/Port of destination code

SEGMENT: < carrier >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Carrier_code>	AN17	Mandatory	Carrier code
<Carrier_name>	AN35	Mandatory	Carrier name
<Carrier_address>	AN70	Optional	Carrier address

SEGMENT: < Exporter >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Exporter_name>	AN35	Mandatory	Exporter/Supplier Name
<Exporter_address >	AN175	Mandatory	Exporter/Supplier address

SEGMENT: < Notify >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Notify_code>	AN17	Optional	Notify code
<Notify_name>	AN35	Mandatory	Notify name
<Notify_address >	AN175	Mandatory	Notify address

SEGMENT: < Consignee >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Consignee_code>	AN17	Optional	Consignee code
<Consignee_name>	AN35	Mandatory	Consignee name
<Consignee_address >	AN175	Mandatory	Consignee address

SEGMENT: < ctn_segment >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Ctn_reference>	AN17	Mandatory	Container identification number
<Number_of_packages >	INT	Mandatory	Number of packages for this container
<Type_of_container >	AN4	Mandatory	Container type code

<Empty_Full >	AN3	Mandatory	Container flag: empty or full
<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 code

SEGMENT: < Goods_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Number_of_packages>	N18	Mandatory	Number of packages for this transport document
< Package_type_code >	AN17	Mandatory	Package type code
< Gross_mass >	N18	Mandatory	Gross mass (KG) for this transport document
< Shipping_marks >	AN512	Mandatory	Shipping marks and numbers
< Goods_description >	AN512	Mandatory	Goods description
<Volume_in_cubic_meters>	N18	Optional	Volume in cubic meter for this transport document
< Num_of_ctn_for_this_bol >	INT	Mandatory	Number of containers for this transport document
<Information>	AN70	Mandatory	Additional information

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
<Location_info>	AN35	Optional	Location additional information

Special Considerations

1. In some cases, data may be unavailable when constructing the AWMDS message. If Schema 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 structure of the <Bol_segment> is the same one that the segment <Bol_segment> of the manifest.

The Awbolds message must have information about only one degroupage and can accept a larger number of bills of lading house.

The following attached files are part of this document:

- AwboldsSchema.png → This file describes how data segments are structured for the AWBOLDS.
- Awbolds.xsd → This is the schema file to validate degroupage xml files. 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>	AN17	Mandatory	Master transport document reference number

Special Considerations

1. In some cases, data may be unavailable when constructing the AWBOLDS message. If Schema 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.