



UNCTAD

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

***CARGO MANIFEST
XML MESSAGE DESCRIPTION***

ASYCUDA
world

TRINIDAD AND TOBAGO

Version 1.3, February 2009

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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 (bill of lading, airway bill, etc.).

ASYCUDA World Manifest XML 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. Any carrier that has its own application or system to process a manifest 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.

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. Notity 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.pdf → This file describes how data segments are structured for the AWMDS.
- Awmds.xsd → 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	Optional	Estimated date of arrival
<Time_of_arrival>	TIME	Optional	Estimated time of arrival

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

SEGMENT: < Totals_segment >			
TAG NAME	FORMAT	USE	DESCRIPTION
<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	Mode of transportation (1=Sea; 2=Rail; 3=Road; 4=Air; 5=Postal; 6=Multimodal; 7=Fixed; 8=Inland waterways; 9=Unknown)
<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 code)
<Place_of_transporter>	AN35	Mandatory	Cargo carrier name (SCAC/IATA)
<Registration_number_of_transport_code>	AN35	Mandatory	IMO/IATA registration reference
<Date_of_registration>	DATE	Optional	IMO/IATA registration date
<Master_information>	AN70	Mandatory	Master/Captain name

SEGMENT: < carrier >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Carrier_code>	AN17	Mandatory	Carrier code
<Carrier_name>	AN35	Optional	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 (UN/LOCODE)
<Place_of_destination_code>	AN5	Mandatory	Place/Port of destination code where goods are off-loaded (UN/LOCODE)

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	Unique cargo reference code

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

SEGMENT: < Exporter >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Exporter_name>	AN35	Mandatory	Exporter/Supplier Name
<Exporter_address >	AN70	Mandatory	Exporter/Supplier full address

SEGMENT: < Notify >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Notify_code>	AN17	Optional	Notify code
<Notify_name>	AN35	Optional	Notify name
<Notify_address >	AN70	Optional	Notify full address

SEGMENT: < Consignee >			
TAG NAME	FORMAT	USE	DESCRIPTION
<Consignee_code>	AN17	Optional	Consignee code
<Consignee_name>	AN35	Mandatory*	Consignee name. * Mandatory when consignee code is not included
<Consignee_address >	AN70	Mandatory*	Consignee full address. * Mandatory when consignee code is not include

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)
<Number_of_packages >	INT	Mandatory	Number of packages in this container
<Type_of_container >	AN4	Mandatory	Container type code (ISO 6346:1995)
<Empty_Full >	AN3	Mandatory	Container flag: empty or full (LCL, FCL, FCX)
<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 (SH, TO, CU, etc.)
<Temp_min>	INT	Optional	Minimum temperature for reefer container
<Temp_max>	INT	Optional	Maximum temperature for reefer container
<Humidity>	INT	Optional	Humidity level for reefer container
<Dangerous_goods_code>	AN10	Optional	Dangerous goods code (UNDG)
<Ctn_goods_description>	AN150	Mandatory	Description of goods in container
<Ctn_gross_mass>	N18	Mandatory	Gross mass for goods in this container (KG)

SEGMENT: < Goods_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Number_of_packages>	N18	Mandatory	Number of packages for this transport document
< Package_type_code >	AN2	Mandatory	Package type code (UNECE CEFAC Recommendation 21 Alpha-2 code)
< Gross_mass >	N18	Mandatory	Gross mass (KG) for this transport document
< Shipping_marks >	AN70	Optional	Shipping marks and numbers
< Goods_description >	AN150	Mandatory	Goods description
<Volume_in_cubic_meters>	N18	Optional	Volume in cubic meter
< Num_of_ctn_for_this_bol >	INT	Mandatory	Number of containers for this transport document
<Information>	AN70	Optional	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	Mandatory	Prepaid/Collect Freight indicator (PP=Prepaid; CC=Collect)
<Freight_value>	N18	Optional	Freight instruction value
<Freight_currency>	AN3	Optional	Freight instruction currency code (ISO Alpha2)

SEGMENT: <Customs_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Customs_value>	N18	Optional	Customs value
<Customs_currency>	AN3	Optional	Customs currency code (ISO Alpha-2)

SEGMENT: <Insurance_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Insurance_value>	N18	Optional	Insurance cost
<Insurance_currency>	AN3	Optional	Insurance cost currency code (ISO Alpha-2)

SEGMENT: <Transport_segment>			
TAG NAME	FORMAT	USE	DESCRIPTION
<Transport_value>	N18	Mandatory	Overall freight cost
<Transport_currency>	AN3	Mandatory	Overall freight cost currency (ISO Alpha-2)

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 Customs Administration 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).