

IATA Web Service

Integration Guide for Airline Companies

ASYCUDA World Customs Administration of Aruba

Version 1.0

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1. Introduction

This document describes the RESTful web services used to submit IATA XML cargo messages to the ASYCUDA World customs system of Aruba.

IATA released XML versions of the most common cargo messages, providing customs authorities with full information about cargo management:

- XFFM – Airline Flight Manifest: contains general information about the flight and its master/house air waybills.
- XFWB – Air Waybill: contains all information regarding every master/house air waybill.
- XFZB – House Air Waybill: defines the house air waybill.
- XFHL – House Manifest: defines the house manifest (Master).
- XTMV – Transport Movement Message: defines the transport movement.
- XFNM – Acknowledgement/Error Report: the response message returned for all of the above.

Airline companies broadcast XFFM, XFWB, XFZB, XFHL and XTMV messages to the ASYCUDA World IATA web services. Each call is synchronous and returns an XFNM response.

2. Authentication

All endpoints are secured using JWT Bearer Token authentication. The client must first obtain a token by calling the token endpoint, then include it in the Authorization header of every subsequent request. Tokens expire after 5 minutes and must be renewed.

2.1 Token Endpoint

Before calling any IATA endpoint, obtain a Bearer token by posting your credentials to the token endpoint.

Feature	Information
Entry points	TRAINING: https://asycuda.douane.aw/env-trn/iata/api/v1/iata/token LIVE: https://asycuda.douane.aw/iata/api/v1/iata/token
Communication	Synchronous
Protocol	HTTP
Message format	RESTful – GET
Token expiry	300 seconds (5 minutes) — must be renewed after expiry

2.2 Token Request

Send a GET request with your credentials with HTTP Basic Auth to obtain a token. (no body needed).

```
curl -X GET https://asycuda.douane.aw/env-trn/iata/api/v1/iata/token \ -u "AA#001:123123"
```

2.3 Successful Token Response

When credentials are valid, the server returns a JSON object containing the Bearer token. The client must include the `access_token` value in the Authorization header of all subsequent requests.

```
{
  "expires_in": 300,
  "token_type": "Bearer",
  "username": "AA#001",
  "access_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9..."
}
```

2.4 Using the Token

Once you have obtained the `access_token` from the token endpoint, include it in the Authorization header of every IATA request using the Bearer scheme. The token is valid for 5 min. After expiry, request a new token before continuing.

2.4.1 Authorization Header

Add the following header to every request. Replace the token value with your actual `access_token` received from section 2.3.

Header	Value
Authorization	Bearer <access_token>
Content-Type	application/json

2.4.2 Example using curl

The following example shows how to send an XFFM message using curl with a Bearer token. The same pattern applies to XFWB, XFZB, XFHL and XTMV — only the endpoint path and structure value change.

```
curl -X POST https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFFM \
-H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9..." \
-H "Content-Type: application/json" \
-d '{
  "airline": "AA",
  "structure": 1,
  "messageXML": "PD94bWwgdmVyc2lvdj0iMS4wIi4uLg=="
}'
```

2.4.3 Complete Workflow

The full authentication and request workflow is as follows:

Step	Action	Details
1	Request a token	POST credentials to /api/v1/iata/token. Retrieve access_token from the response. See section 2.2 and 2.3.
2	Encode XML in Base64	Encode your IATA XML message (XFFM, XFWB, etc.) in Base64 and place the result in the messageXML field.
3	POST the IATA request	Send the request to the appropriate endpoint (sendMessageXFFM, XFWB, etc.) with the Bearer token and JSON body.
4	Process XFNM response	Parse the JSON response. Check success field. If true, extract xmlPayload for the XFNM acknowledgement. See section 8.
5	Renew token when expired	After 5 min the token expires (expires_in = 300). Repeat step 1 to obtain a new token. No need to re-authenticate more frequently than that.

2.5 Error Responses

If the credentials are invalid or the user is not authorised, the server returns HTTP 401 with the following JSON body:

```
{
  "correlationId": "AA#001",
  "errorMessage": "[IATA-002] Airline is not configured or the login name is not
authorized for this airline",
  "success": false
}
```

2.6 Credentials

Each airline company is assigned a dedicated username and password. The username follows the format <AirlineCode>#<ID> (e.g. AA#001). Contact the customs administration to obtain your credentials.

3. Message XFFM: Airline Flight Manifest

The XFFM message is the airline flight manifest. It contains general information about the flight and how many master/house air waybills it carries.

3.1 Web Service Features

Feature	Information
Web service interface	TRAINING: https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFFM LIVE: https://asycuda.douane.aw/iata/api/v1/iata/sendMessageXFFM
Communication	Synchronous
Protocol	HTTP
Message format	RESTful – POST
Security	JWT Bearer Token — obtain a token from /api/v1/iata/token before calling this endpoint (see Section 2)

3.2 Request

3.2.1 Authentication Header

A valid Bearer token must be included in the Authorization header. Obtain a token first by calling the token endpoint (see Section 2.2). The token is valid for 5 min.

Header	Format	Mandatory	Description
Authorization	String	yes	Bearer <access_token> — JWT token obtained from /api/v1/iata/token
Content-Type	String	yes	Must be application/json

3.2.2 Request Body

Name	Format	Mandatory	Description
airline	String	yes	IATA airline code (e.g. WS, BA)
messageXML	String	yes	XFFM XML message encoded in Base64
structure	int	yes	Message type identifier – value must be 1 for XFFM
manifest	String	no	Manifest reference (not required for XFFM)
master	String	no	Master air waybill reference (not required for XFFM)

3.2.3 JSON Request Example

The value of the messageXML field is the IATA XFFM XML message encoded in Base64. The Bearer token obtained from section 2.2 must be included in the Authorization header.

```
curl -X POST https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFFM \  
-H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9..." \  
-H "Content-Type: application/json" \  
-d '{  
  "airline": "WS",  
  "structure": 1,  
  "messageXML": "PD94bWwgdmVyc2lvdj0iMS4wIiBlbmNvZGluZz0idXRmLTgiPz4..."  
}'
```

Or

```
{  
  "airline": "WS",  
  "structure": 1,  
  "messageXML": "<XFFM XML message encoded in Base64>"  
}
```

4. Message XFWB: Air Waybill

The XFWB message contains all information regarding every master/house air waybill.

4.1 Web Service Features

Feature	Information
Web service interface	TRAINING: https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFWB LIVE: https://asycuda.douane.aw/iata/api/v1/iata/sendMessageXFWB
Communication	Synchronous
Protocol	HTTP
Message format	RESTful – POST
Security	JWT Bearer Token — obtain a token from /api/v1/iata/token before calling this endpoint (see Section 2)

4.2 Request

4.2.1 Authentication Header

A valid Bearer token must be included in the Authorization header. Obtain a token first by calling the token endpoint (see Section 2.2). The token is valid for 5 min.

Header	Format	Mandatory	Description
Authorization	String	yes	Bearer <access_token> — JWT token obtained from /api/v1/iata/token
Content-Type	String	yes	Must be application/json

4.2.2 Request Body

Name	Format	Mandatory	Description
airline	String	yes	IATA airline code
messageXML	String	yes	XFWB XML message encoded in Base64
structure	int	yes	Message type identifier – value must be 2 for XFWB
manifest	String	no	Manifest reference (not required for XFWB)
master	String	no	Master air waybill reference (not required for XFWB)

4.2.3 JSON Request Example

The value of the messageXML field is the IATA XFWB XML message encoded in Base64. The Bearer token obtained from section 2.2 must be included in the Authorization header.

```
curl -X POST https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFWB \  
-H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9..." \  
-H "Content-Type: application/json" \  
-d '{  
  "airline": "WS",  
  "structure": 2,  
  "messageXML": "PD94bWwgdmVyc2lvdj0iMS4wIiBlbmNvZGluZz0idXRmLTgiPz4..."  
}'
```

Or

```
{  
  "airline": "WS",  
  "structure": 2,  
  "messageXML": "<XFWB XML message encoded in Base64>"  
}
```

5. Message XFZB: House Air Waybill

The XFZB message defines the house air waybill.

5.1 Web Service Features

Feature	Information
Web service interface	TRAINING: https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFZB LIVE: https://asycuda.douane.aw/iata/api/v1/iata/sendMessageXFZB
Communication	Synchronous
Protocol	HTTP
Message format	RESTful – POST
Security	JWT Bearer Token — obtain a token from /api/v1/iata/token before calling this endpoint (see Section 2)

5.2 Request

5.2.1 Authentication Header

A valid Bearer token must be included in the Authorization header. Obtain a token first by calling the token endpoint (see Section 2.2). The token is valid for 5 min.

Header	Format	Mandatory	Description
Authorization	String	yes	Bearer <access_token> — JWT token obtained from /api/v1/iata/token
Content-Type	String	yes	Must be application/json

5.2.2 Request Body

Name	Format	Mandatory	Description
airline	String	yes	IATA airline code
messageXML	String	yes	XFZB XML message encoded in Base64
structure	int	yes	Message type identifier – value must be 4 for XFZB
manifest	String	no	Manifest reference (not required for XFZB)
master	String	no	Master air waybill reference (not required for XFZB)

5.2.3 JSON Request Example

The value of the messageXML field is the IATA XFZB XML message encoded in Base64. The Bearer token obtained from section 2.2 must be included in the Authorization header.

```
curl -X POST https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFZB \  
-H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9..." \  
-H "Content-Type: application/json" \  
-d '{  
  "airline": "WS",  
  "structure": 4,  
  "messageXML": "PD94bWwgdmVyc2lvcj0iMS4wIiBlbmNvZGluZz0idXRmLTgiPz4..."  
}'
```

Or

```
{  
  "airline": "WS",  
  "structure": 4,  
  "messageXML": "<XFZB XML message encoded in Base64>"  
}
```

6. Message XFHL: House Manifest

The XFHL message defines the house manifest (Master).

6.1 Web Service Features

Feature	Information
Web service interface	TRAINING: https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFHL LIVE: https://asycuda.douane.aw/iata/api/v1/iata/sendMessageXFHL
Communication	Synchronous
Protocol	HTTP
Message format	RESTful – POST
Security	JWT Bearer Token — obtain a token from /api/v1/iata/token before calling this endpoint (see Section 2)

6.2 Request

6.2.1 Authentication Header

A valid Bearer token must be included in the Authorization header. Obtain a token first by calling the token endpoint (see Section 2.2). The token is valid for 5 min.

Header	Format	Mandatory	Description
Authorization	String	yes	Bearer <access_token> — JWT token obtained from /api/v1/iata/token
Content-Type	String	yes	Must be application/json

6.2.2 Request Body

Name	Format	Mandatory	Description
airline	String	yes	IATA airline code
master	String	yes	Master air waybill reference – mandatory for XFHL
messageXML	String	yes	XFHL XML message encoded in Base64
structure	int	yes	Message type identifier – value must be 3 for XFHL
manifest	String	no	Manifest reference (not required for XFHL)

6.2.3 JSON Request Example

The value of the messageXML field is the IATA XFHL XML message encoded in Base64. The Bearer token obtained from section 2.2 must be included in the Authorization header.

```
curl -X POST https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXFHL \  
-H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9..." \  
-H "Content-Type: application/json" \  
-d '{  
  "airline": "WS",  
  "structure": 3,  
  "master": "VOOS23049",  
  "messageXML": "PD94bWwgdmVyc2lvdj0iMS4wIiBlbmNvZGluZz0idXRmLTgiPz4..."  
}'
```

Or

```
{  
  "airline": "WS",  
  "structure": 3,  
  "master": "VOOS23049",  
  "messageXML": "<XFHL XML message encoded in Base64>"  
}
```

7. Message XTMV: Transport Movement

The XTMV message defines the transport movement.

7.1 Web Service Features

Feature	Information
Web service interface	TRAINING: https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXTMV LIVE: https://asycuda.douane.aw/iata/api/v1/iata/sendMessageXTMV
Communication	Synchronous
Protocol	HTTP
Message format	RESTful – POST
Security	JWT Bearer Token — obtain a token from /api/v1/iata/token before calling this endpoint (see Section 2)

7.2 Request

7.2.1 Authentication Header

A valid Bearer token must be included in the Authorization header. Obtain a token first by calling the token endpoint (see Section 2.2). The token is valid for 5 min.

Header	Format	Mandatory	Description
Authorization	String	yes	Bearer <access_token> — JWT token obtained from /api/v1/iata/token
Content-Type	String	yes	Must be application/json

7.2.2 Request Body

Name	Format	Mandatory	Description
airline	String	yes	IATA airline code
manifest	String	yes	Manifest reference – mandatory for XTMV
messageXML	String	yes	XTMV XML message encoded in Base64
structure	int	yes	Message type identifier – value must be 6 for XTMV
master	String	no	Master air waybill reference (not required for XTMV)

7.2.3 JSON Request Example

The value of the messageXML field is the IATA XTMV XML message encoded in Base64. The Bearer token obtained from section 2.2 must be included in the Authorization header.

```
curl -X POST https://asycuda.douane.aw/env-trn/iata/api/v1/iata/sendMessageXTMV \  
-H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9..." \  
-H "Content-Type: application/json" \  
-d '{  
  "airline": "WS",  
  "structure": 6,  
  "manifest": "M342ERE45",  
  "messageXML": "PD94bWwgdmVyc2lvcj0iMS4wIiBlbmNvZGluZz0idXRmLTgiPz4..."  
}'
```

Or

```
{  
  "airline": "WS",  
  "structure": 6,  
  "manifest": "M342ERE45",  
  "messageXML": "<XTMV XML message encoded in Base64>"  
}
```


8.2.1 Key XFNM Fields

XML Element	Description
BusinessHeaderDocument/StatusCode	Processed = accepted. Rejected = rejected with error detail.
ResponseStatus/ConditionCode	Acknowledgement (OK) or Error.
ResponseStatus/Reason	Human-readable explanation of the result or error.
MessageHeaderDocument/ConversationID	Correlation identifier assigned by ASYCUDA World.

8.3 Error Response Examples

When success is false, the message did not reach ASYCUDA World or a system-level error occurred. The xmlPayload field is absent.

8.3.1 Wrong Structure Value

```
{
  "correlationId": "381c5023-3bcc-4a26-ad16-1cadef1be783",
  "success":      false,
  "errorMessage": "[MSError [code=IATA-017, description=Wrong Structure value]]"
}
```

8.3.2 Airline Not Authorised

```
{
  "correlationId": "8774d8d8-5a47-434d-8ad8-1e17c5e14612",
  "success":      false,
  "errorMessage": "[MSError [code=IATA-016, description=Airline is not
configured or the login name is not authorized for this airline]]"
}
```

8.3.3 Timeout (ASYCUDA World Unavailable)

If ASYCUDA World does not respond within the configured timeout period the web service returns:

```
{
  "correlationId": "c4e12f00-8b3a-4d99-a21f-7f1234567890",
  "success":      false,
  "errorMessage": "Timeout: no reply from ASYCUDA after 60s"
}
```

9. Error Code Reference

The following error codes may appear in the errorMessage field of a failed response.

9.1 IATA Error Codes

Code	Description
IATA-000	Invoked
IATA-001	Unknown error
IATA-002	Invalid request
IATA-003	Invalid parameters
IATA-004	Invalid operation
IATA-005	Document is locked
IATA-006	Document not found
IATA-007	Server error
IATA-008	Invalid XFNM format returned
IATA-009	Airline parameter is required and cannot be empty
IATA-010	XML message provided is empty
IATA-011	Master air waybill reference is required
IATA-012	Manifest reference is required
IATA-013	Unknown error
IATA-014	The XFNM returned is empty (1)
IATA-015	The XFNM returned is empty (2)
IATA-016	Airline is not configured or the login name is not authorised for this airline
IATA-017	Wrong Structure value

9.2 Message Queue Error Codes

Code	Description
MQ-IATA-00	Invalid message content
MQ-IATA-01	Incomplete request
MQ-IATA-02	Started operation failed, document empty
MQ-IATA-03	Unknown server error
MQ-IATA-05	Failed to acknowledge
MQ-IATA-06	Failed to publish on response queue

10. Structure Value Reference

The structure field in the request body identifies the type of IATA message being submitted. Using the wrong value will result in error IATA-017.

Value	Message Type	Description
1	XFFM	Airline Flight Manifest
2	XFWB	Air Waybill
3	XFHL	House Manifest (requires master)
4	XFZB	House Air Waybill
6	XTMV	Transport Movement Message (requires manifest)