Open Aviation Ads

XML-Datafeed Specifications

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www.openaviationads.org
support@openaviationads.org

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2 Introduction

The Open Aviation Ads Initiative is a technical standard designed to create an open, interoperable data-format for aircraft specifications.

In a nutshell, the Initiative intends to set standards for trading data of classifed ads for new and used aircraft between aviation brokers, dealers and online aviation marketplaces, **so that sellers only have to enter their data once** and the **data is shared between different sites**.
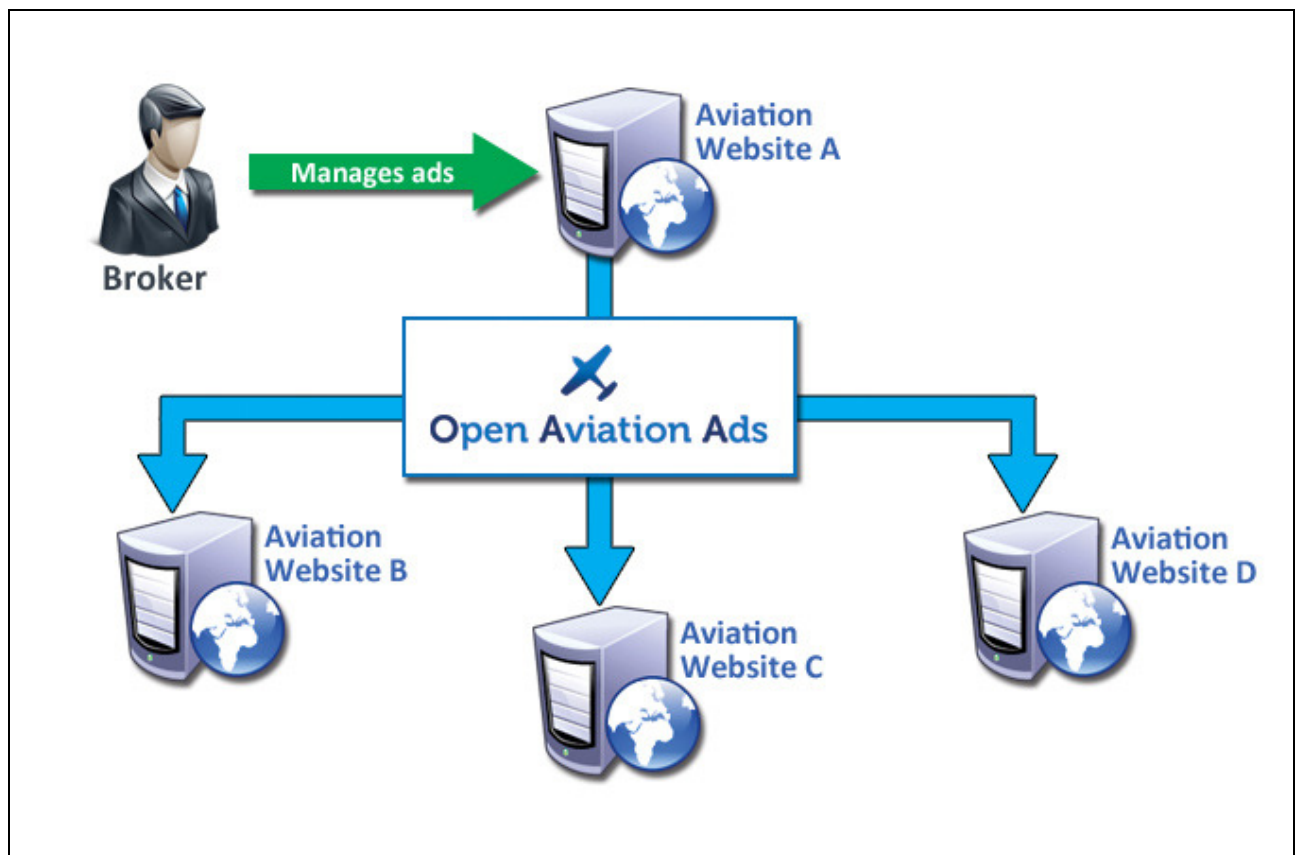
Datafeed URL / Accessing the feed

The data-transfer mechanism will usually be used between a **sending side** (the website or application where the data was originally entered) and a **receiving side** (the website or application that is requesting the data).

The data-transfer process is designed as a PULL-process, meaning that the receiving site can access the data feed via a URL on the sending side.

In order to access the data-deed for a particular broker, the sending side provides a URL where the feed can be accessed at any time.

2.1 Frequency of updates

The receiving side should **frequently** check the feed for updates - this would mean anything from once a day up to once a week.

In order to save bandwith and resources, please honor the sha1 checksums for binaries - these allow the receiving side to evaluate whether a binary has changed and therefore to only download binaries from the sender if a file has changed.

2.2 Sample data

A sample-feed is available at

`http://www.openaviationads.org/images/demo/testfeed.xml`

3 Data Structure / XML fields

The XML-standard is a work-in progress. We know that different sites do have different database-structures and/or technical capabilities - therefore the XML-fields will most likely not exactly match your structure. The XML-structure is designed to give each receiving site the possibility to convert/adopt the given data in an easy and flexible way.

If you would like to make suggestions/corrections to the structure, please contact support@openaviationads.org.

3.1 XML-Structure

```xml
<?xml version="1.0" encoding="UTF-8" ?>

  <OPENAVIATIONADS version="1.8" origin="sending-oaa-site.com">

  <BROKER code="">
          <BROKER_COMPANY />
          <BROKER_CONTACTNAME />
          <BROKER_STREET1 />
          <BROKER_STREET2 />
          <BROKER_POSTALCODE />
          <BROKER_CITY />
          <BROKER_COUNTRY isocode="" />
          <BROKER_REGION isocode="" />
          <BROKER_PHONE />
          <BROKER_FAX />
          <BROKER_EMAIL />
          <BROKER_WEBSITE />

          <ADLIST>
                  <AD lastmodified="" id="" >
                  <AD_ID />
                  <AD_LASTMODIFIED />
                  <AD_STATUS />
                  <AD_SALETYPE />
                  <AD_TYPE />
                  <AD_SUBTYPE />
                  <AD_MANUFACTURER />
                  <AD_MODEL />
                  <AD_YEAR />
                  <AD_SERIALNO />
                  <AD_REGISTRATION />
                  <AD_PRICE />
                  <AD_PRICE_CURRENCY />
                  <AD_PRICE_VATSTATUS />
                  <AD_NEWUSED />
                  <AD_CONTACT_NAME />
                  <AD_CONTACT_PHONE />
                  <AD_CONTACT_EMAIL />
                  <AD_AFTOTALTIME />
                  <AD_AFLANDINGS />
                  <AD_LASTANNUAL />
                  <AD_ATTRIBS />
                  <AD_LOCATION_COUNTRY isocode="" />
                  <AD_LOCATION_REGION isocode="" />
                  <AD_LOCATION_CITY />
                  <AD_LOCATION_AIRPORT />
                  <AD_TEXT_AVIONICS />
                  <AD_TEXT_ENGINES />
                  <AD_TEXT_EXTERIOR />
                  <AD_TEXT_INTERIOR />
                  <AD_TEXT_EQUIPMENT />
                  <AD_TEXT_INSPECTIONSTATUS />
                  <AD_TEXT_MODIFICATIONS />
```

```
                            <AD_TEXT_REMARKS />
                            <AD_VIDEOFILE />
                            <AD_VIDEOYOUTUBE />
                            <AD_ENGINE_COUNT />
                            <AD_ENGINES>
                                    <ENGINE num="1">
                                    <ENGINE_MAKEMODEL />
                                    <ENGINE_SERIALNO />
                                    <ENGINE_POWER unit="" />
                                    <ENGINE_TOTALTIME />
                                    <ENGINE_TBO />
                                    <ENGINE_OH_TIME1 />
                                    <ENGINE_PROPMAKE />
                                    <ENGINE_PROPTOTALTIME />
                                    </ENGINE>
                            </AD_ENGINES>
                            <AD_PICTURES>
                                    <PIC description="" primary="1" sha1_hash="" filesize="" width=""
                                    height="" />
                                    <PIC description="" sha1_hash="" filesize="" width="" height="" />
                                    <PIC description="" sha1_hash="" filesize="" width="" height="" />
                                    <PIC description="" sha1_hash="" filesize="" width="" height="" />
                            </AD_PICTURES>
                            <AD_PDFATTACHMENTS>
                                    <PDF sha1_hash="" filesize="" description="" origfilename="" />
                                    <PDF sha1_hash="" filesize="" description="" origfilename="" />
                            </AD_PDFATTACHMENTS>
                            </AD>
                    </ADLIST>

            </BROKER>

    </OPENAVIATIONADS>
```

3.2 XML-Tags

Tag-Name	Data Type	Description	Attributes
OPENAVIATIONADS	XML	The OPENAVIATIONADS node identifies the document as an OpenAviationAds standard data feed. Attributes: *version*: The *version* attribute indicates which version of the standard the document conforms to. *origin*: The *origin* attribute indicates the site or organisation supplying the data feed.	version origin
BROKER	XML	The broker node is the container for all the brokers/sellers contact details and ads. This node can occur multiple times. Attributes: *code*: The code should be a unique identifier for the broker on the sending site.	code
BROKER_COMPANY	string	Sellers company name	
BROKER_CONTACTNAME	string	Name of the individual in the sellers organization (can be overwritten for each individual ad)	

BROKER_STREET1	string	Sellers streed address / line1	
BROKER_STREET2	string	Sellers streed address / line2	
BROKER_POSTALCODE	string	Sellers postal code	
BROKER_CITY	string	Sellers City	
BROKER_COUNTRY	string	Sellers Country Attributes: *isocode*: The corresponding ISO-code of the country (United States=US)	isocode
BROKER_REGION	string	Sellers Region/US-State Attributes: *isocode*: The corresponding ISO-code of the state (California=CA)	isocode
BROKER_PHONE	string	Sellers phone number (can be overwritten for each individual ad)	
BROKER_FAX	string	Sellers fax number	
BROKER_EMAIL	string	Sellers main email (can be overwritten for each individual ad)	
BROKER_WEBSITE	string	Sellers website	
ADLIST	XML	The ADLIST node is the container for all of the sellers adverts.	
AD	XML	The AD node is the container for each individual advert. This node can occur multiple times. Attributes: *lastmodified*: The date of last modification of the ad (YYYY-MM-DD HH:II:ss GMT) *id*: Unique identifier of the ad on the sending site	lastmodified id
AD_ID	string	Unique identifier of the ad on the sending site (copy of attribute *AD/id*)	
AD_LASTMODIFIED	date	The date of last modification of the ad (YYYY-MM-DD HH:II:ss GMT)(copy of attribute *AD/lastmodified*)	
AD_STATUS	string	Selling-Status of the ad (can be "FORSALE" or "SOLD")	
AD_SALETYPE	string	Type of sale (complete or partial). Possible values are: COMPLETESALE	

		FRACTIONAL 1/2 FRACTIONAL 1/3 ... FRACTIONAL 1/8	
AD_TYPE	string	Type of the advertised aircraft. Possible values are: SINGLEPROP_PISTON MULTIPROP TURBOPROP JET HELICOPTER HELICOPTER_PISTON HELICOPTER_TURBINE	
AD_SUBTYPE	string	Special Type(s) of the aircraft, list of PIPE separated values.	
AD_MANUFACTURER	string	Manufacturer/Brand	
AD_MODEL	string	Model	
AD_YEAR	integer	Year Built	
AD_SERIALNO	string	Serial Number	
AD_REGISTRATION	string	Aircraft registration	
AD_PRICE	integer	Price	
AD_PRICE_CURRENCY	string	Currency of the above price	
AD_PRICE_VATSTATUS	string	EU VAT-Status of the indicated price (3 parts): 1: 1=without VAT, 2=incl. VAT 2: 3=VAT stated separately (seller is EU company), 4=VAT NOT stated separately 3: VAT percentage Example: 2|3|19	
AD_NEWUSED	string	Indicates whether the offered item is new or used, possible values are "NEW"and "USED"	
AD_CONTACT_NAME	string	Optional name of contact for this ad (overwrites BROKER_CONTACTNAME)	
AD_CONTACT_PHONE	string	Optional phone-number of contact for this ad (overwrites BROKER_PHONE)	

AD_CONTACT_EMAIL	string	Optional email of contact for this ad (overwrites BROKER_EMAIL)	
AD_AFTOTALTIME	integer	Total Time of Airframe	
AD_AFLANDINGS	integer	Number of landings	
AD_LASTANNUAL	string	Last Annual (MM/YYYY)	
AD_ATTRIBS	string	PIPE separated attributes (added separately for searchability), possible values are: IFR certified IFR equipped Always hangared Commercially registered JAR-OPS 1 registered Damage history	
AD_LOCATION_COUNTRY	string	Country of current location of the item Attributes: *isocode*: The corresponding ISO-code of the country (United States=US)	isocode
AD_LOCATION_REGION	string	Region/US-State of current location of the item Attributes: *isocode*: The corresponding ISO-code of the state (California=CA)	isocode
AD_LOCATION_CITY	string	city of current location of the item	
AD_LOCATION_AIRPORT	string	Airport-Code of current location of the item	
AD_TEXT_AVIONICS	cdata text	Free text description of avionics	
AD_TEXT_ENGINES	cdata text	Free text description of engine specs (if not covered by AD_ENGINES)	
AD_TEXT_EXTERIOR	cdata text	Free text description of exterior	
AD_TEXT_INTERIOR	cdata text	Free text description of interior	
AD_TEXT_EQUIPMENT	cdata text	Free text description of equipment/extras	

AD_TEXT_INSPECTIONSTATUS	cdata text	Free text description of inspection status	
AD_TEXT_MODIFICATIONS	cdata text	Free text description of conversions/modifications	
AD_TEXT_REMARKS	cdata text	Free text description of other details	
AD_ENGINE_COUNT	integer	Number of engines	
AD_ENGINES	XML	The AD_ENGINES node is the surrounding container for the description of all engines.	
ENGINE	XML	The ENGINE node is the container for each individual engine of the item advertised. This node can occur multiple times.	num
ENGINE_MAKEMODEL	string	Make/model of the engine	
ENGINE_SERIALNO	string	Serial # of the engine	
ENGINE_POWER	string	Power of the engine Attributes: *unit*: The unit in which the power is specified (hp,kW,lbf,kN)	unit
ENGINE_TOTALTIME	string	Total time of the engine	
ENGINE_TBO	string	TBO of the engine	
ENGINE_OH_TIME1	string	Other maintenance time 1 of the engine ("SNEW","SMOH","SFOH","SFRM",SOH","STOH","SHSI","SPOH")	
ENGINE_PROPMAKE	string	Make/model of the prop	
ENGINE_PROPTOTALTIME	string	Total time of the prop	
AD_PICTURES	XML	The AD_PICTURES node is the surrounding container for all pictures of the advert.	
PIC	string	The URL of each picture. This node can occur multiple times. Attributes: *primary*: has a value of 1 if the picture is the "main pic" for this ad. *sha1_hash*: sha1 checksum of the binary. This can be used by the receiving	primary sha1_hash description filesize

		site to determine whether the binary has changed and has to be downloaded again. *description*: description/caption of the image *filesize*: size of the binary in bytes *width*: width of the picture in pixels *height*: height of the picture in pixels	width height
AD_PDFATTACHMENTS	XML	The AD_PDFATTACHMENTS node is the surrounding container for all PDF-attachments of the advert.	
PDF	string	The URL of each PDF-attachment. This node can occur multiple times. Attributes: *sha1_hash*: sha1 checksum of the binary. This can be used by the receiving site to determine whether the binary has changed and has to be downloaded again. *filesize*: size of the binary in bytes *description*: Description of the PDF *origfilename*: original filename of the PDF	

4 Help/Questions

If you have questions or suggestions concerning the OAA-Standard please feel free to contact us.

Open Aviation Ads
Email: support@openaviationads.org