

## Fresh Aviation Data API documentation

Here at Fresh Aviation Data we believe in data sharing amongst the community to enable all non-profit organisations to fulfil their potential. Our goal is not to be just another flight tracking service, with just live flight coordinates and altitudes, but to offer data which might not be available elsewhere, or would be out of reach for societies and non-profit organisations. We do not offer data to for-profit organisations. If you have a specific request then please do contact us. We want to help as much as possible.

API terms of use;

- You will be subject to a limit of requests per minute per key; the value will be set by us depending on your requirements. We reserve the right to adjust the requests per minute to ensure our services remain stable, should your amount of requests be excessive.
- You agree to keep the API key confidential at all times, by not including your API key in any publicly accessible code (i.e. your API key must only be processed in server-side code such as PHP).
- You agree to not abuse the use of our system for your own benefit. You also agree to not bring Fresh Aviation into any disrepute.
- You agree to display credit to our data on any pages our data is used on. A link on the footer to our website is acceptable.
- You agree to make absolutely no revenue from our data whatsoever.
- Fresh Aviation reserves the right to revoke any API key or access at any time.
- The information provided is a compilation of data from third-party data providers. The data is provided as is, there are no guarantees that the information is fully correct or up to date. Changes and errors may occur, therefore Fresh Aviation cannot be held liable either for the accuracy of the information or for ensuring that the information is up to date at all times. Information may be updated in real time or at set intervals. Some of the flights presented may be charter, cargo, ambulance or other types of flights not available for passenger travel. All times displayed are in UTC unless otherwise specified.

This list is not exhaustive and may be adapted as time progresses.

We currently do not offer an aircraft database API, however we can recommend the OpenSky Network database to get you started. This can be easily imported to any database program, such as PHPmyAdmin.

<https://opensky-network.org/datasets/metadata/>

If you are looking for a live flight data API, including aircraft position and altitude, please see the OpenSky Network API.

<https://opensky-network.org/apidoc/>

API services we offer:

- 1) Live flight information
- 2) Flight history of given aircraft
- 3) History of a given route
- 4) Current aircraft at a given airport

We are always looking for new API ideas and if you would like a certain API to be created based on our data then please get in contact with us – we are happy to help. Any API's created will be freely available for everyone to use.

Please see the following pages for API usage details.

1) Live route information of given aircraft

<https://data.freshaviation.co.uk/api/liveflight.php?modes=ModeS-Code-Here&callsign=Callsign-Here&key=Your-API-Key-Here>

Result:

```
[{"ModeS":"89640A","Callsign":"ETD59V","DepAirport":"OMAA","ArrAirport":"EGLL","DepTime":"1609733202","photourl":"https://app.spottinglog.com/api/photo.php?reg=A6-BLE&airline=Etihad%20Airways&width=350","Livery":"Choose The USA"}]
```

ModeS	ModeS of the given aircraft
Callsign	Callsign of the given aircraft
DepAirport	Departure ICAO of the given aircraft
ArrAirport	The estimated arrival ICAO of the given aircraft, based on callsign history
DepTime	Timestamp of departure in UTC
photourl	URL of the latest aircraft photo from SpottingLog
Livery	Special livery information – blank if aircraft not a special livery

2) Flight history for a given aircraft

[https://data.freshaviation.co.uk/api/flighthistory\\_modes.php?modes=ModeS-Code-Here&key=Your-API-Key-Here](https://data.freshaviation.co.uk/api/flighthistory_modes.php?modes=ModeS-Code-Here&key=Your-API-Key-Here)

Result:

```
{"ModeS":"7C6DDC","DepAirport":"YBCG","ArrAirport":"YMML","DepTime":"1609655153","ArrTime":"1609662064","Callsign":"QFA885","FlightId":"c4a7571bf06cd46467b3a5bafd5816f5","FlightTime":"6911","LastUpdate":"1609662064"},
```

(Returns all historic flights for that aircraft. Typical result is 2-3 weeks history – all data shown will be everything we have. One entry for each flight. The above is 1 sample flight from 20 results given for that ModeS on this occasion)

ModeS	ModeS of the given aircraft
DepAirport	Departure ICAO of the flight
ArrAirport	Arrival ICAO of the flight
DepTime	Timestamp of departure in UTC
ArrTime	Timestamp of departure in UTC
Callsign	Callsign the flight used
FlightId	Internal, ID of the flight – may be used in other API features in the future
FlightTime	The duration of the flight, in seconds (ArrTime – DepTime)
LastUpdate	Internal, last time the row was updated

### 3) History of a given route

[https://data.freshaviation.co.uk/api/flighthistory\\_route.php?d=Departure-ICAO-Here&a=Arrival-ICAO-Here&key=Your-API-Key-Here](https://data.freshaviation.co.uk/api/flighthistory_route.php?d=Departure-ICAO-Here&a=Arrival-ICAO-Here&key=Your-API-Key-Here)

#### Result

(Sample row taken from a total result of 25 flights on this occasion)

```
{ "ModeS": "4005BF", "DepAirport": "EGLL", "ArrAirport": "KJFK", "DepTime": "1609692009", "ArrTime": "1609718285", "Callsign": "BAW33K", "FlightId": "e81494a6a90aa9898c843515aa71fcde", "FlightTime": "26276", "LastUpdate": "1609718285" },
```

ModeS	ModeS of the aircraft which did the flight
DepAirport	Departure ICAO of the flight
ArrAirport	Arrival ICAO of the flight
DepTime	Timestamp of departure in UTC
ArrTime	Timestamp of departure in UTC
Callsign	Callsign the flight used
FlightId	Internal, ID of the flight – may be used in other API features in the future
FlightTime	The duration of the flight, in seconds (ArrTime – DepTime)
LastUpdate	Internal, last time the row was updated

### 4) Current aircraft at a given airport

<https://data.freshaviation.co.uk/api/ongroundatairport.php?airport=Airport-ICAO-Here&key=Your-API-Key-Here>

#### Result

```
{ "ModeS": "A528D6", "TimeAdded": "1609740616", "Airport": "KSAN", "Callsign": "SWA4546", "AirportLat": "32.733601", "AirportLon": "-117.190002" },
```

(Sample row taken from a total result of 152 aircraft on this occasion)

ModeS	ModeS of the aircraft which is at the airport
TimeAdded	Arrival Time of the aircraft
Airport	The airport which the aircraft is at (given in URL)
Callsign	Callsign the aircraft arrived as
AirportLat	Latitude of the Airport
AirportLon	Longitude of the Airport