

ON DEMAND API

FLIGHT DATA AT YOUR FINGERTIPS

BUILT BY DEVELOPERS, FOR DEVELOPERS

AirNav Systems On-Demand API — Engineered for high-throughput and reliability, our endpoints provides programmatic access to a multi-source data pipeline. Maximum accuracy and coverage are guaranteed by our vast network of **40,000+ ADS-B receivers** and integrations with multiple global data sources. Whether you are querying real-time positions or historical data, our schema offers **100+ granular data fields**—including altitude, velocity, precise position, and detailed airframe metadata—delivered in clean **JSON** payloads.

We eliminate integration friction with comprehensive documentation, generated client SDKs, and ready-to-use code examples and **24/7 technical support**. Our architecture is designed for effortless scalability, supported by a transparent **credit-per-result** model that aligns costs directly with API consumption. Build, test, and deploy with an on-demand data feed trusted by aviation industry's most mission-critical enterprise systems.

DATA FIELDS INCLUDE

AIRPORT INFORMATION

- 1 Airport code, elevation, time zone
- 2 Runway length, ILS Course, Coordinates
- 3 Visibility, Dew point, Temperature
- 4 Wind Direction and Speed, Cloud Base
- 5 Sky Condition

STATISTICS

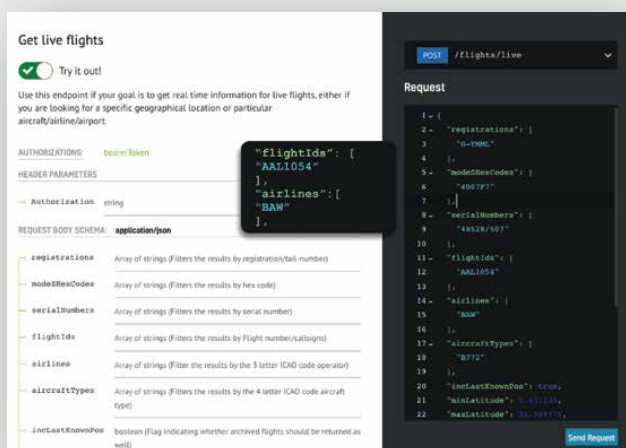
- 11 Runway in use, takeoff & landing statistics

AIRCRAFT INFORMATION

- 12 Callsign, Aircraft type, Speed
- 13 Registration
- 14 Aircraft tail number, ModeS
- 15 Aircraft owner and serial number
- 16 Aircraft class description, type description
- 17 First Flight, Photos

FLIGHT INFORMATION

- 6 Flight Number, Origin and Destination
- 7 Latitude & Longitude
- 8 Heading & Altitude
- 9 Scheduled and Actual Times
- 10 Flight Category, METAR, Bulletin Time



MULTI-FRAMEWORK SDK

- | | |
|---------|------------------|
| 1 C# | 7 Python |
| 2 Java | 8 Ruby |
| 3 Swift | 9 Scala |
| 4 R | 10 Kotlin-client |
| 5 Go | 11 JavaScript |
| 6 PHP | 12 TypeScript |

DATA CATEGORIES

1 FLIGHTS

- Search flights by geographical area
- Get live flights
- Get scheduled flights
- Search flights

2 AIRCRAFT

- Aircraft by ID
- Aircraft search

3 AIRPORT

- Airport search
- Airport by code
- Get D-ATIS by airport
- Get METAR by airport
- Get TAF by airport

4 AIRSPACE

- NAT (North Atlantic Tracks)
- PAC (Pacific Organized Track System - PACOTS)
- Get NOTAMs by airport

5 STATISTICS

- For a specific airline
- For major airlines
- For major airports
- For business flights at major airports
- For commercial flights at major airports
- For all flights
- Flights statistics (business)
- For business jet models
- For business jet operators
- Flights statistics (commercial)

DATA FORMATS

Data is typically delivered in JSON formats, but can be provided in other formats as needed. Real-time data is delivered via a secure WebSocket connection, while historic flight data is delivered via a download link.



Customizability

A customizable, scalable & developer friendly API solution



Multiple Frameworks

Compatible with 15+ programming frameworks



24x7 Support

Priority support, 365 days, 24/7



Volume Based Pricing

Unique credit-per-result pricing option



Multiple Data Formats

Typically delivered in JSON format but other formats are available



Multiple Data Sources

14 Data sources including ADS-B, MLAT, FAA RADAR, EUROCONTROL, ADS-C, ASDE-X, Satellite ADS-B to ensure data reliability

ABOUT AIRNAV SYSTEMS

Founded in 2001, **AirNav Systems** is a global leader in flight tracking and aviation data services, serving both B2B and B2C markets worldwide. In the B2B segment, the company delivers flight data services and cloud-based fleet management solutions to **more than 100 aviation businesses** government agencies, airlines, media organizations, and **airports across 60+ countries**.

In the B2C space, AirNav operates **AirNav Radar**, a web and mobile platform providing real-time worldwide tracking of commercial and general aviation traffic.

GET IN TOUCH

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