

DATA STREAM API

EVERY SECOND DICTATES A DECISION

UNRIVALED GLOBAL COVERAGE

In an industry where every second dictates a decision, **AirNav Systems** consolidates the global sky into a single, high-fidelity feed. Our infrastructure spans the globe with over **40,000 ADS-B receivers across 190+ countries**. By synthesizing data from **14 distinct sources**, our stream offers 100+ data fields at a blistering **0.5-2 second update rate** and ultra-low latency, providing a 360-degree view of the skies at unmatched scale, density, and depth.

PRECISION ENGINEERING, REAL-TIME DELIVERY

Engineered for seamless integration, our **Data Stream API** delivers this mission-critical intelligence through high-performance **Kafka** topics or direct, streamlined **TCP/IP** connections. We provide industry-standard **JSON** and **XML** payloads designed for immediate ingestion, ensuring your systems receive high-throughput data without the overhead of complex intermediary protocols. Backed by a **99.5% SLA** guarantee and **24/7 expert support**, we provide the stable, professional foundation required for your most demanding aerospace applications.

DATA SOURCES

- | | |
|---------------------------|--------------------|
| 1 Ground ADS-B (1090 MHz) | 8 ADS-C |
| 2 UAT (978 MHz) | 9 FAA Flight Plans |
| 3 Satellite ADS-B* | 10 HFDL |
| 4 FAA Radar | 11 FLIFO |
| 5 EUROCONTROL | 12 ASDE-X |
| 6 MLAT | 13 Australia ANSP |
| 7 Oceanic | 14 FLARM |

*Additional cost

THE AIRNAV ADVANTAGE

99.5%

SLA Guarantee

14

Live Flight Data Sources

100+

Data Field Options

0.5-2 sec

Data Update Intervals

Customizable
Data Fields and Feeds

Redundancy
of Data Feeds Ensuring High Availability

Bespoke
Pricing Options

KEY FEATURES

REAL-TIME FLIGHT TRACKING:

- 1 Positional information obtained from 14 data sources.
- 2 Low update intervals of 0.5-2 seconds.
- 3 Data available in multiple formats (JSON, XML).
- 4 Customizable and based on client requirements.

REAL-TIME FLIGHT PLAN WITH FLIGHT STATUS UPDATES:

- 5 Integration handled by a dedicated team specific to each client.
- 6 Data obtained from regional aviation authorities such as the FAA and Eurocontrol, as well as established aggregators.
- 7 Examples of data points include departure and arrival times (scheduled, estimated and actual), gate and runway times, route updates and diversions.

HISTORICAL DATA WITH AIRCRAFT MOVEMENTS:

- 8 Daily and weekly reports with flights that occurred during the previous day or week.
- 9 Customizable reports that include exact data points as required by the client.

DATA ANALYTICS

- 10 Specific data analytics and custom reports are provided as per client needs.

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. The company also manages one of the world's largest ground-based ADS-B tracking networks, powered by over 40,000 ADS-B receivers across 190+ countries.



AirNav systems

Trusted flight data. Confident decisions.

FLIGHT FEEDS

Available Formats: XML, JSON

Access to Data: TCP Stream, HTTP, Kafka, FTP.

Feed Number	Feed Name	Contents	Retrieval Method	Data Format
Feed 1 Includes positions from ADS-B, FAA SWIM, Oceanic, MLAT, ADC-C, HFDL, and Estimation. Commercial flight data can also be included.	Real-time flight position data streaming	Flight position updates in real-time. The client can choose which data sources to include	Kafka Stream or TCP Stream	JSON
Feed 2 Schedules, departures and arrivals for commercial flights. No position data.	Real-time commercial flight data streaming	Commercial flight data	Kafka Stream or TCP Stream	JSON
Feed 3 Includes positions from ADS-B, FAA SWIM, Oceanic, MLAT, ADC-C, HFDL, and Estimation. Commercial flight data can also be included.	Real-time flight position data polling	Flight position updates in real-time. The client can choose which data sources to include	HTTP Polling	XML or JSON
Feed 4 Schedules, departures and arrivals for commercial flights. No position data.	Real-time commercial flight data polling	Commercial flight data	HTTP Polling	XML or JSON
Feed 5 Contains the exact time, aircraft, airport and runway for each takeoff and landing.	Real-time takeoff and landing data polling	ADS-B derived takeoff and landing information	HTTP Polling	XML or JSON
Feed 6 Detailed aircraft data for a given Mode-S hex code or registration, such as the ICAO type and the serial number.	Aircraft information data	Aircraft details	HTTP Polling	XML or JSON
Feed 7 Detailed flight plan data for a given flight number or registration.	Flight plan data streaming	Flight plan data	Kafka Stream or TCP Stream	JSON

GET IN TOUCH

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