

OUR COMPETITIVE EDGE

1 UNRIVALED GLOBAL ADS-B COVERAGE

Spanning 192 countries and over 40,000 receivers, our terrestrial ADS-B network integrates seamlessly with space-based capabilities, eliminating tracking gaps in remote regions and across oceans and ensuring virtually no 'dark zones' on the map.

2 END-TO-END FLIGHT MONITORING SOLUTIONS

AirNav Systems offers a suite of customizable solutions, including Flight Data APIs, Aviation Statistics, Fleet Monitoring Platforms, and ADS-B hardware, designed to enhance operational efficiency and reduce operational risk.

3 WORLD CLASS TECHNICAL INFRASTRUCTURE

Built for core reliability, our infrastructure runs on scalable, enterprise-class servers engineered for high performance and redundancy. This architecture ensures 99.9% uptime, backed by a formal 99.5% SLA guarantee.

4 AGILE AND CLIENT FOCUSED TEAMS

Driven by a customer-centric approach, our expert aviation and engineering teams execute technical requests swiftly to minimize operational delays. To ensure every concern is promptly addressed, our dedicated support team remains available 24/7 for global clients.

5 THE TRUSTED INDUSTRY LEADER

With over 25 years of leadership in flight tracking, AirNav Systems is a recognized industry pioneer. Serving government agencies, leading aerospace firms, airports, and airlines, we remain focused on delivering value and maintaining strong client partnerships.

AIRNAV'S NUMBERS

40,000+
ADS-B Receiver
Network

192+
Countries Feeding
Data

14
Data Sources

8+ TB
Flight Data
Bandwidth / Day

100+
Data Fields

5.5 Billion
ADS-B Messages / Day

ABOUT AIRNAV SYSTEMS

Founded in 2001, **AirNav Systems** is a global leader in flight tracking and aviation data services, serving both B2B & 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.



DELIVERING COMPLETE AIRSPACE VISIBILITY

In an era of increasing airspace complexity, **AirNav Systems** delivers the mission-critical aviation data required to overcome aviation's most persistent challenges — fragmented data, operational delays, and safety risks. By integrating both terrestrial and space based ADS-B networks with powerful API solutions and fleet management tools, we provide a unified, real-time ecosystem with **99.9% positional data accuracy** and a **99.5% SLA guarantee**. This directly translates into superior operational control; for instance, flight operations teams can use our **FlightWatch** cloud-based to monitor their fleet against real-time METAR and TFR overlays, enabling proactive rerouting to avoid costly weather delays and ensure GADSS compliance. Simultaneously, by integrating our **Data Stream API** and utilizing the **AirportWatch** solution, ATC and ground crews gain the second-by-second precision needed to automate gate turnarounds and optimize resource allocation.



Explore our full suite of solutions in the following pages and contact our team today to request a demo or a customized quote.

GET IN TOUCH

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SOLUTIONS



Stream API



On-Demand API



FlightWatch



AirportWatch



ADS-B Derived
Weather API



Statistics



Widget builder

DATA API & FLEET MONITORING SOLUTIONS

1 DATA STREAM API

The Data Stream API is AirNav Systems’ enterprise-scale data streaming solution designed for sustained high-volume data intake. It delivers real-time flight positions, airport operations data, critical status updates, and weather metrics through 100+ customizable data fields. Access options include TCP, HTTP, Kafka, FTP.

- 100+ Data Fields
- 99.5% SLA Guarantee
- 0.5–2 second Update Rate
- JSON and XML Payloads

3 FLIGHTWATCH

Bring critical operational data into a single unified platform with FlightWatch, AirNav’s cloud-based operations monitoring solution. Designed for airlines and business aviation operators, it delivers real-time situational awareness and enhanced operational control across your entire fleet.

- Real-time Aircraft Status
- METAR, TAF, NOTAM, TFR Reports
- Dynamic Flight-event Alerts and Notifications
- Scalable to Any Fleet Size
- Pay-per-tail Pricing
- 40+ Filters, Weather Overlays & Configurations

5 AVIATION STATISTICS

AirNav’s Statistics Dashboard provides a graphical overview of global aviation trends. Analyze the most active airlines, busiest airports, aircraft types, and historical traffic patterns. Apply filters by region or aircraft class, uncover emerging trends, and export raw data in CSV format for deeper analysis and reporting.

- Comprehensive overview of Aviation Trends
- Up to 6-year Historical Flight Activity
- Filter by Airline, Airport, Geographic Region, Aircraft Class
- Download Raw CSV Data

2 ON-DEMAND API

AirNav Systems’ RESTful ODAPI offers over 100 static and live data fields that can be queried—individually or in combination—to generate powerful, relevant results. Static data fields, for example, include an airport’s IATA & ICAO codes, latitude and longitude coordinates, elevation, and time zone. Live data fields provide dynamic operational metrics such as runway in use, arrivals and departures, and other real-time activity indicators.

- REST API
- Credit-per-Result Pricing
- 100+ Data Fields
- JSON

4 AIRPORTWATCH

Designed for ATC, FBOs, and charter operators, AirportWatch provides a unified view of inbound and outbound traffic via live flight boards. It features interactive airport maps with labeled gates, a timeline-based gate manager, and critical insights into aircraft rotations, on-time performance, and real-time weather.

- Live Flightboard
- Aircraft Rotations
- Airport Layout with Gate Labels
- 40+ Weather & Map Overlays
- Gate Manager

OUR MISSION & VISION

At AirNav Systems, our Vision, Mission, and Values define who we are. They reflect our long-term ambition, our daily focus, and the principles that guide every decision we make.

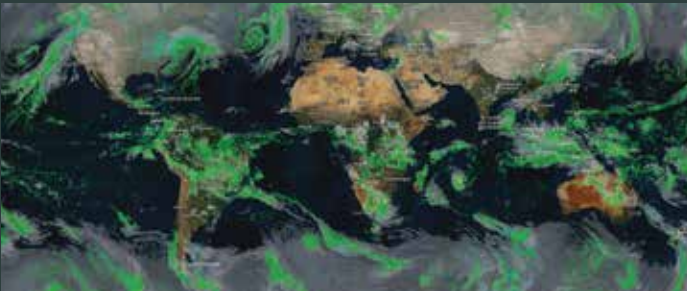
VISION

“The world’s most trusted source of aviation intelligence, providing global, accurate, accessible, and actionable data.”

MISSION

“We harness real-time air traffic data and advanced technologies to empower airlines, ANSPs, airports, and travellers with insights that make aviation safer, smarter, and more sustainable.”

ADDITIONAL SOLUTIONS



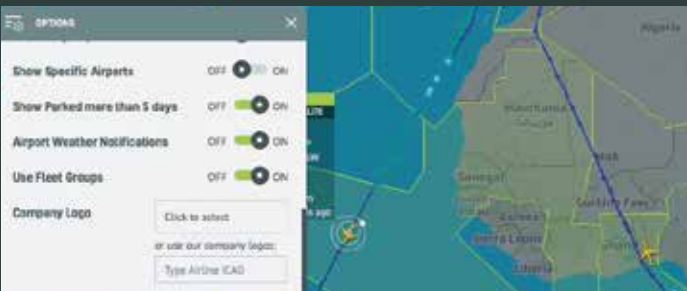
ADS-B DERIVED WEATHER

Integrate real-time temperature and winds-aloft data into your applications via our REST-based API. Delivered via TCP Stream, HTTP, Kafka, or FTP in JSON and XML formats, this service allows for seamless data fusion with existing AirNav weather solutions.



DATA ANALYTICS & CUSTOM REPORTS

Access granular insights through on-demand custom reports tailored to your specific data points. Generate them independently or place a request with our expert team.



WHITE-LABEL SOLUTIONS

All cloud, web, and mobile applications support full white-labeling to align with your corporate identity. We offer competitive, flexible pricing tailored to meet every client's unique requirements.



WIDGET BUILDER

Enhance your digital presence by embedding live flight tracking directly onto your website. Simply use our intuitive builder to generate a custom code snippet for immediate HTML integration.

FLIGHT DATA SOURCES

- 1 **Ground ADS-B (1090 MHz):** Automatic Dependent Surveillance – Broadcast.
- 2 **UAT (978 MHz):** Universal Access transceivers on the 978 MHz band.
- 3 **Satellite ADS-B*:** ADS-B from Space (AirNav works with several providers for bespoke pricing).
- 4 **FAA Radar:** SWIM derived data for the US, Canada, and Atlantic/Pacific.
- 5 **EUROCONTROL:** Flight Plans to/from Europe and overflights.
- 6 **MLAT:** Multilateration.
- 7 **Oceanic:** Oceanic based (Atlantic/Pacific) position reports.
- 8 **ADS-C:** Satellite position reports integration.
- 9 **FAA Flight Plans:** Flight Plan data for the FAA SWIM region.
- 10 **HFDL:** HF Datalink position reports.
- 11 **FLIFO:** Commercial departure/arrival information for airlines.
- 12 **ASDE-X:** Surface Movement Radar.
- 13 **Australia ANSP:** Position reports from AirServices Australia.
- 14 **FLARM:** Traffic Awareness and Collision avoidance for General Aviation.

*Additional cost

OUR VALUES

- **Accuracy First** – Aviation depends on trust; we deliver precise and reliable data, always.
- **Innovation Without Limits** – We embrace AI, automation, and digital innovation to shape the future of aviation intelligence.
- **Global Collaboration** – We bridge stakeholders across borders, time zones, and skies.
- **Accessibility & Transparency** – Aviation data should be understandable and usable for industry professionals and enthusiasts alike.
- **Sustainability Commitment** – We enable smarter routes, reduced inefficiencies, and data-driven decarbonization.