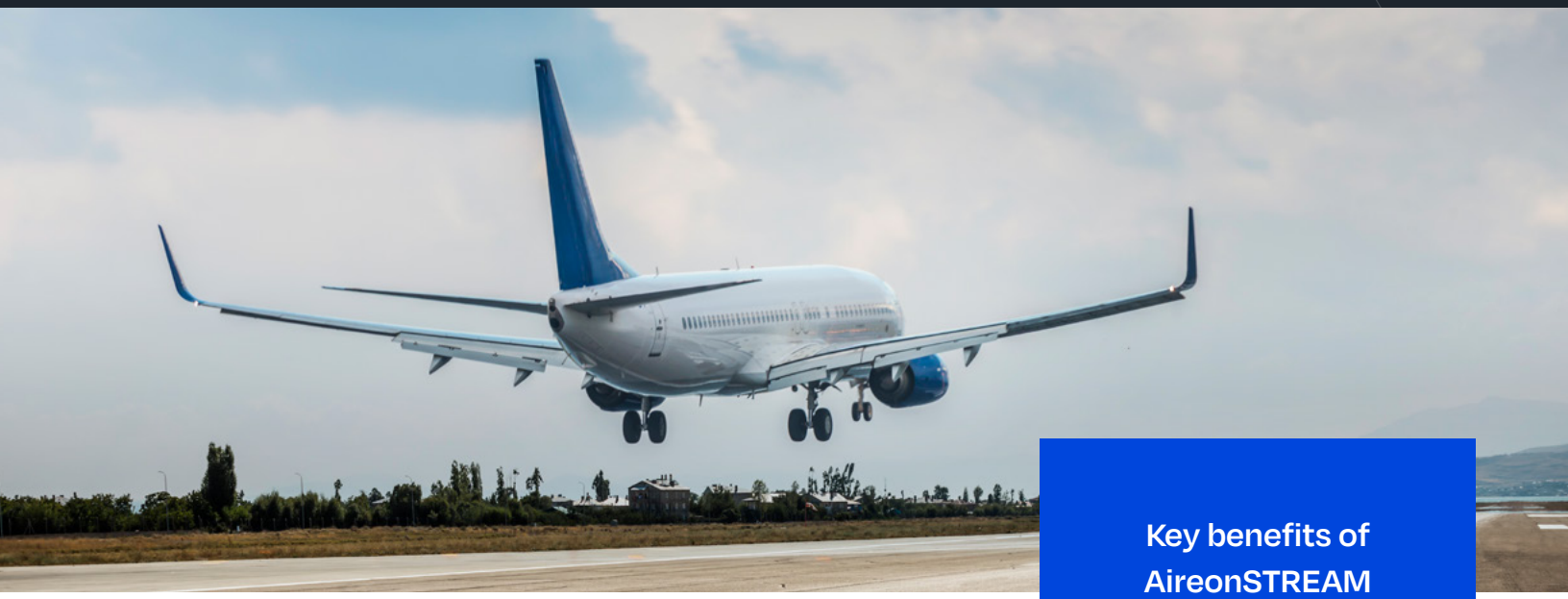
AireonSTREAM™

Real-time ATS surveillance-grade data for enhanced tracking, situational awareness, and analysis



Ensuring the safe and efficient management of air traffic flow across global airspaces relies heavily on accessing a dependable and precise dataset. AireonSTREAM offers a robust set of APIs that grant users access to Aireon's surveillance-grade Air Traffic Service (ATS) data. Boasting 100% global coverage, the high-fidelity, low-latency data is a powerful resource for air traffic management.

Tailored data streaming for enhanced analysis

AireonSTREAM provides global, gate-to-gate, surface-to-space ATS surveillance-grade data combined with contextual flight and airspace information, including infrastructure, weather, avionics, aircraft registry, and schedule data. AireonSTREAM revolutionizes data accessibility by providing unparalleled global coverage and uninterrupted delivery. This groundbreaking solution has empowered aviation industry leaders to enhance situational awareness, safety, efficiency, and airspace management — expanding their capabilities on a global scale.

With AireonSTREAM, organizations can securely harness and tailor Automatic Dependent Surveillance-Broadcast (ADS-B) data to gain actionable insights, make smarter decisions, and optimize their operations. Customized data streams leverage the

Key benefits of AireonSTREAM

Single source
of 100% global telemetry data for aircraft tracking

High-fidelity, low-latency data
for real-time situational awareness and analysis

Enhanced tracking
of aircraft movements to improve situational awareness

Tailored and flexible
APIs that enable stakeholders to meet their specific needs

contextual flight and airspace information to provide:

- A single source of global telemetry data that exceeds requirements for aircraft tracking with near-real-time position update intervals.
- High-fidelity, low-latency surveillance data for airport situational awareness and airport collaborative decision-making applications. This capability also allows access to contextual, event-based information regarding scheduled arrival and departure airports.
- Customized APIs that enable stakeholders to define the fields, locations, and fidelity that are necessary to meet their needs. AireonSTREAM's flexible interface for customized data streams ensures rapid integration.

Aireon's space-based ADS-B provides data for any aircraft equipped with 1090 MHz / ADS-B equipment up to an altitude of 127,500 feet above ground level. Position reports are available for all subscribed aircraft with an update interval of up to four seconds.

Engineered for rapid integration

AireonSTREAM is integrated using high availability, low-latency, industry-standard protocols to ensure swift deployment and real-time data delivery. By leveraging open messaging protocols designed for efficient and reliable communication, a seamless integration and dependable data transfer is ensured — without the need for end-user development. Additionally, the AireonSTREAM API allows stakeholders to quickly integrate the telemetry data into other data analytics platforms, providing a single source of telemetry data and access to the full suite of derived analysis tools.

Use cases

AireonSTREAM is designed to meet the needs of numerous operational use cases, including:

- Aircraft tracking
- Airport operational analytics
- Situational awareness
- Unmanned Aircraft System (UAS) / Unmanned Traffic Management (UTM)
- Safety, environmental, and operational analyses