Real-Time Intelligence for Aviation

The Aviation Landscape Today

The aviation landscape is dynamic and complex, encompassing stakeholders such as airlines, airports, regulatory bodies, and technology providers. Airlines continually strive to enhance operational efficiency, safety, and passenger experience while managing costs and adhering to stringent regulations. With increasing passenger demand and competition, airlines face pressure to optimize routes, minimize delays, and offer personalized services to passengers. Advancements in technology, including data analytics, AI, and connectivity solutions, are challenging aviation operations to transform, enabling real-time decision-making, predictive maintenance, and seamless passenger communication. At the center, real-time intelligence and integration is a game-changer.

Navigating Challenges Facing Airlines

- **Minimizing downtime & costs:** Predicting and preventing mechanical failures is difficult and leads to increased downtime and disruptions.

- **Poor delay management:** Airlines struggle with optimizing flight operations, causing higher fuel consumption, costs, and passenger inconvenience.

- **Diminished customer satisfaction and loyalty:** Lack of seamless passenger experiences result in lower satisfaction and loyalty.

- **Fuel wastage & increased operational costs:** Limited monitoring of fuel usage leads to potential wastage and higher costs.

Real-Time Data for Aviation

Striim empowers airlines with real-time data integration, ML-driven analytics, and security measures, ensuring predictive maintenance, proactive delay management, personalized passenger experiences, and improved fuel efficiency. These solutions minimize downtime, enhance operational efficiency, boost customer satisfaction, and reduce operating costs, securing success for airlines in a competitive market.

Driving real-time business value

Timely maintenance minimizes unexpected breakdowns, reducing costly downtime and enhancing operational reliability.

Optimization decreases fuel consumption and flight times to ensure timely arrivals, leading to reduced operating costs and improved customer satisfaction.

Providing real-time notifications and updates on flight status, gate changes, and boarding times through mobile apps and digital channels improves customer experiences and increases loyalty.
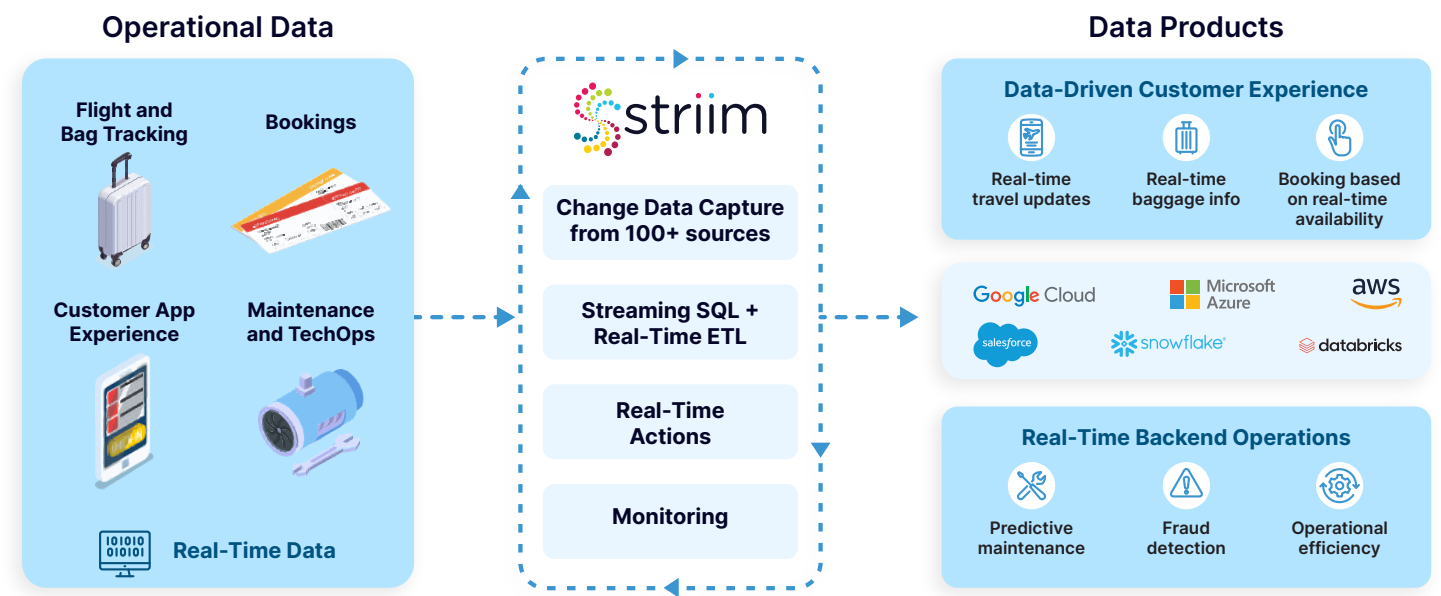
Fine tune flight routes using real-time weather data and aircraft performance characteristics, cutting back on fuel consumption and lowering fuel costs.

Trusted by Global Aviation Leaders

American Airlines   ATLAS AIR WORLDWIDE   BLUME global™   ONE OCEAN NETWORK EXPRESS

Real-Time Intelligence for Aviation: Smart Wings for Clear Skies

Striim transforms airline operations through robust data integration across diverse aviation systems, including flight management, telemetry, IoT, and maintenance logs. Its seamless integration with advanced analytics and ML frameworks enables real-time decision-making, enhancing operational efficiency and performance. Striim ensures continuous operation and data integrity with built-in fault tolerance and high availability features, providing uninterrupted access to critical information despite system disruptions. With in-memory data caching and accelerated processing, Striim expedites data analysis, delivering quicker insights to airline personnel and maximizing flight operations and safety protocols.

Real-Time Data for Aviation Innovation

Operational Data

Flight and Bag Tracking

Bookings

Customer App Experience

Maintenance and TechOps

Real-Time Data

striim

Change Data Capture from 100+ sources

Streaming SQL + Real-Time ETL

Real-Time Actions

Monitoring

Data Products

Data-Driven Customer Experience

Real-time travel updates

Real-time baggage info

Booking based on real-time availability

Google Cloud | Microsoft Azure | aws
salesforce | snowflake | databricks

Real-Time Backend Operations

Predictive maintenance

Fraud detection

Operational efficiency

Crafting Tailored Solutions for Aviation Excellence

Intelligent Predictive Maintenance
Detect early signs of component degradation or potential failures, enabling airlines to schedule maintenance preemptively, reducing downtime, and enhancing operational reliability.

Tailored Passenger Experiences
Personalize in-flight entertainment options and deliver transparent communication updates, enhancing overall satisfaction and reducing travel stress.

Proactive Delay Management
Identify potential delays, enabling preemptive adjustments in schedules and crew assignments to maintain operational efficiency and minimize disruptions.

Enhanced Fuel Efficiency
Continuous monitoring of fuel consumption and dynamic routing based on real-time weather and traffic data streamline flight paths, reducing fuel burn and ensuring timely arrivals.

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