Service Provider - Turning Data Into Solutions

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FlightAware

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About FlightAware - Overview

- Flight tracking service and data provider to airlines, business aviation, cargo, airline service providers, military
- 15,000 commercial customers, >10,000,000 consumer users
- Customers include ARINC, United Airlines, SITA, Singapore Airlines
- Largest aviation site in the world (>300MM page views/mo)
- 50 employees at offices in Houston and New York City
- Data centers in Houston, Washington, San Francisco, New York, Dallas, London, Amsterdam, Singapore, and Hong Kong

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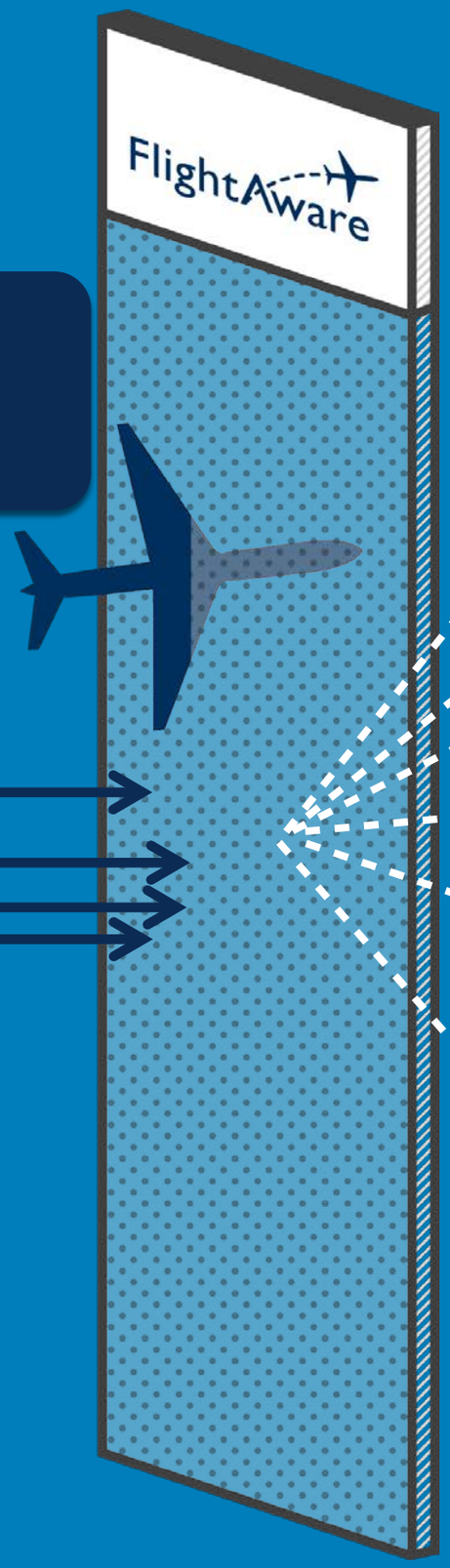
FlightAware Data Fusing

ANSPs
- United States
- Central America
- Canada
- Europe
- Australia
- New Zealand

ADS-B
- >3,500 sites
- >100 countries



Airline FLIFO

ACARS
VHF/Satcom

- Web
- Email
- Data Feeds
- Integrated Apps
- FlightXML API
- Mobile Apps
  - iPhone & iPad
  - Android
  - Windows Phone

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About FlightAware - Fusing Data

- Parsing over 50 disparate data feeds from government and private sector
- Accepting data out of order
- Determining the most accurate source
- Finding and eliminating or reducing errors
- Outputting comprehensive flight tracking data

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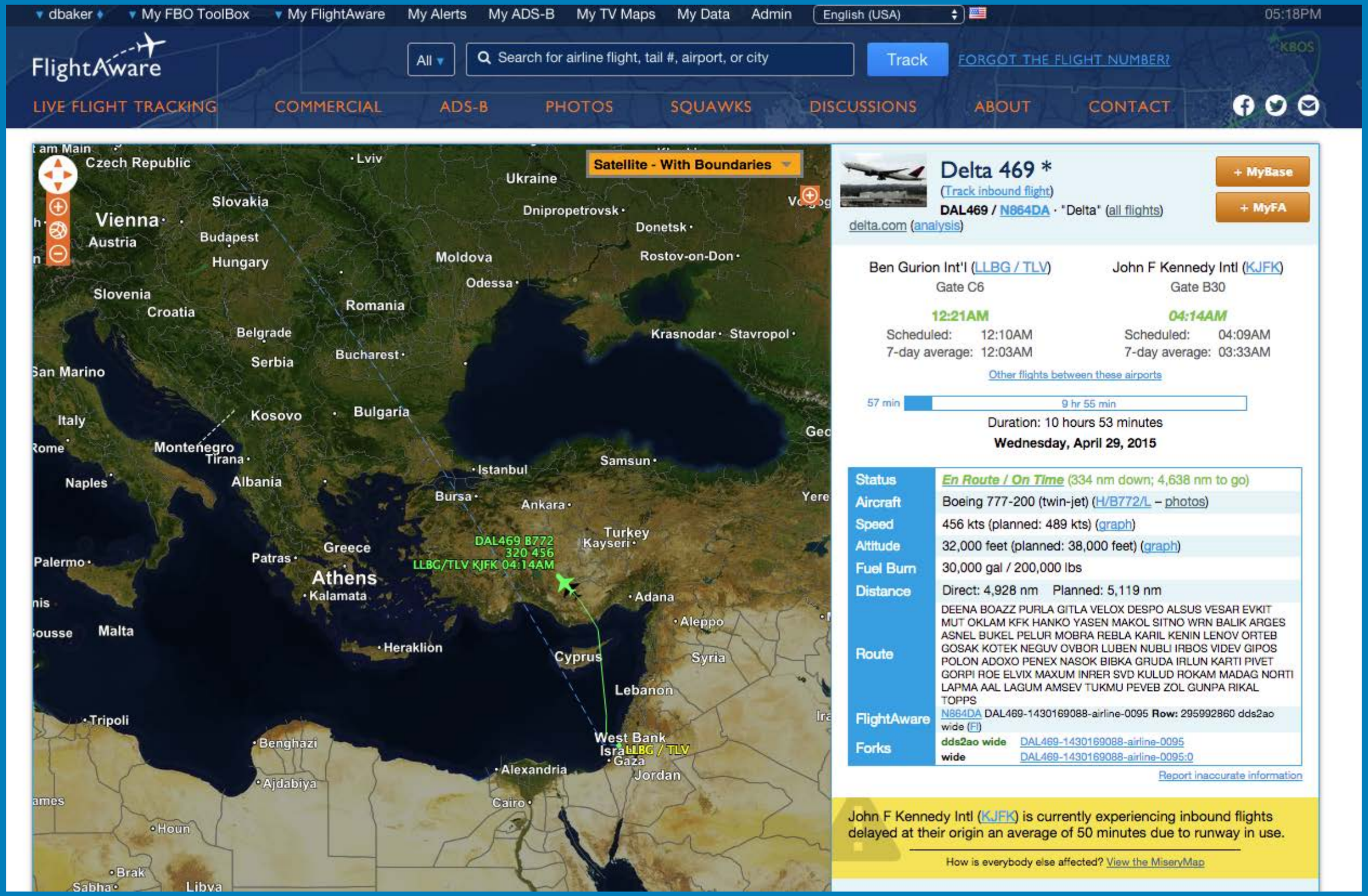
Next-Generation Flight Tracking



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Gateway to Industry & The World

- FlightAware aggregates over 50 real-time data feeds from government sources including FAA, Eurocontrol, NOAA, Airways New Zealand
- Data is fused with private industry data like flight plan data, ACARS, ADS-B
- It is not practical for each end-user (e.g., an airline) to aggregate so many sources
- FlightAware then integrates into over a dozen products

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Gateway to Industry & The World - Examples

- Web-based, graphical flight tracking system used by over 10,000 business aviation aircraft operators
- Fused data feed provided to SITA for use in operational flight tracking system used by airline operations
- In-flight tool providing connecting gate and delay information to Southwest Airlines passengers via Row44
- “MiseryMap” delay map and forecast used by NBC’s “Today” show
- Downlinking pre-departure route amendments and delay programs to cockpit (pilot EFBs)

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Value of Data

- Aircraft operators are facing data overload and “portal” overload
- FlightAware breaks through this and creates efficiencies by:
  - Aggregating data sources
  - Creating tools that answer questions
  - Leveraging historical data to predict the future

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Availability of Aviation Data

Format over Content

SWIM registries place great emphasis on the format of data with less information about the content and sources.

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Availability of Aviation Data

Service Level Agreements

Industry customers (aircraft and airport operators) expect data providers like FlightAware to guarantee SLAs but we are at the mercy of upstream data feeds, many of which can’t guarantee availability, so we need to work together to set expectations.

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Availability of Aviation Data

Prioritize API over Portal

CDM is the future, but even with standards, it will require an industry solution to aggregate every ANSP and airport CDM solution.

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Availability of Aviation Data

Data exchange can be bidirectional!

Industry is happy to share back to ANSPs

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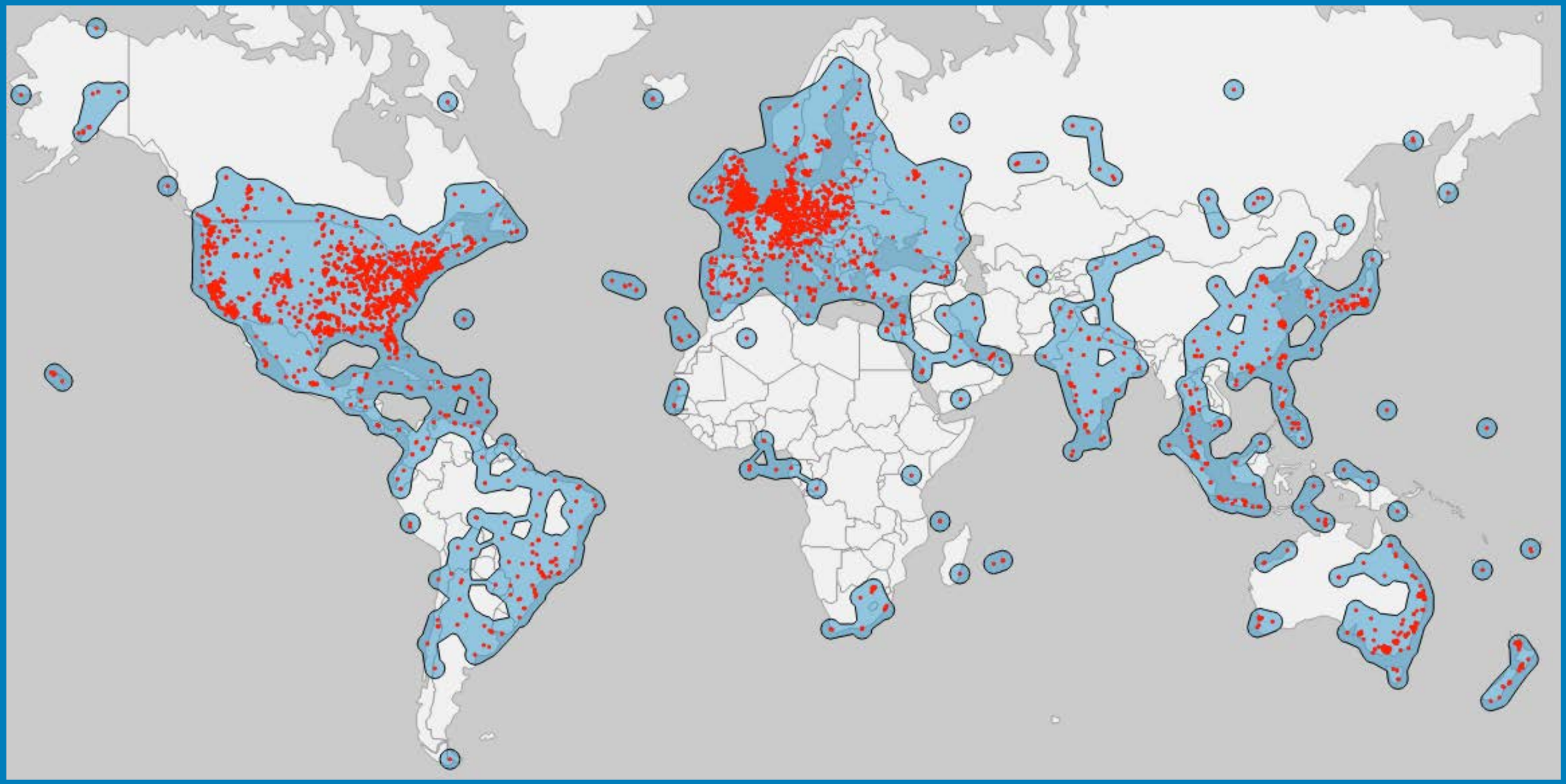
FlightAware ADS-B Network



Available in Eurocontrol SWIM Registry

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FlightAware CSD Program

Operators that use call sign similarity (CSS) tools to operate flights as a call sign rather than a flight number can send their ident/flight # mappings to FlightAware. We create a global mapping database.

https://flightaware.com/about/improve/

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Public/Private Partnership

These government organizations, this group and this industry demonstrates what’s possible.

How can we expand that around the world?

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Let’s improve aviation with more open data

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