1

FlightStats Data and Platform
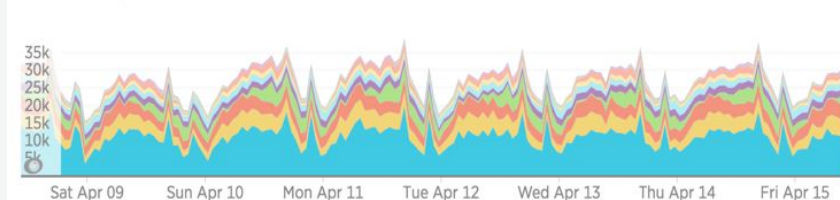
FLIGHTSTATS

Who is FlightStats?

FlightStats is the leading provider of global real-time flight status data.

- Over 500 sources of data
- Daily ingress
    - ~15M flight events
    - ~260M aircraft positions
    - ~1M PNRs
- Daily egress
    - ~2M FlightStats.com requests
    - ~1M mobile app requests
    - ~15M Flex API requests
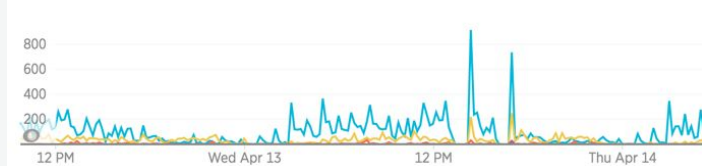   - ~1.5M flight/trip notifications

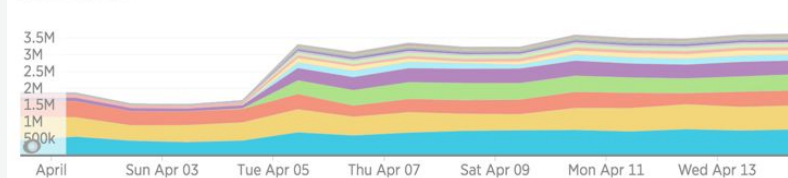Direct Data Feed Volume By Hour
Since 1 week ago

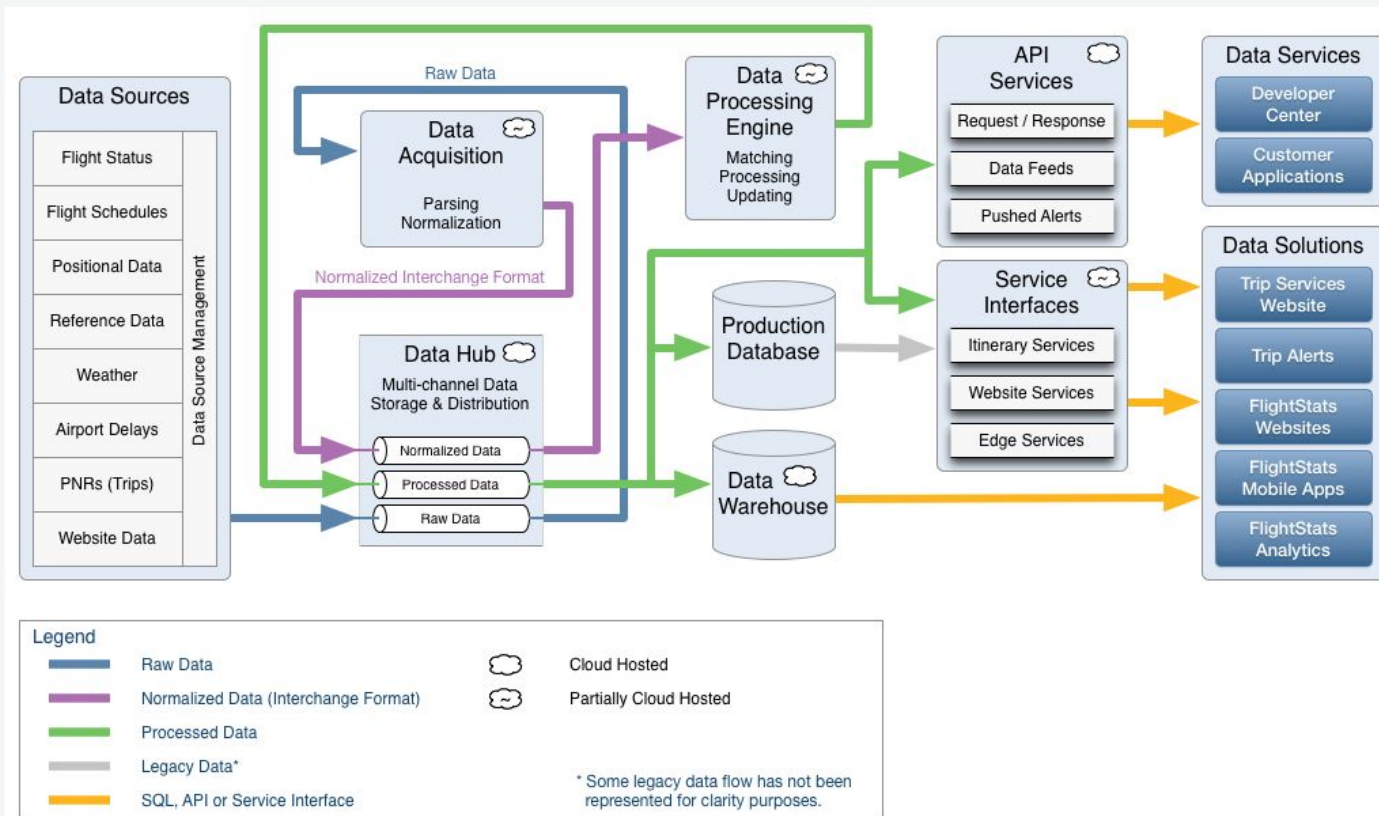New Alerts Delivered (TAD)
Since 3 days ago
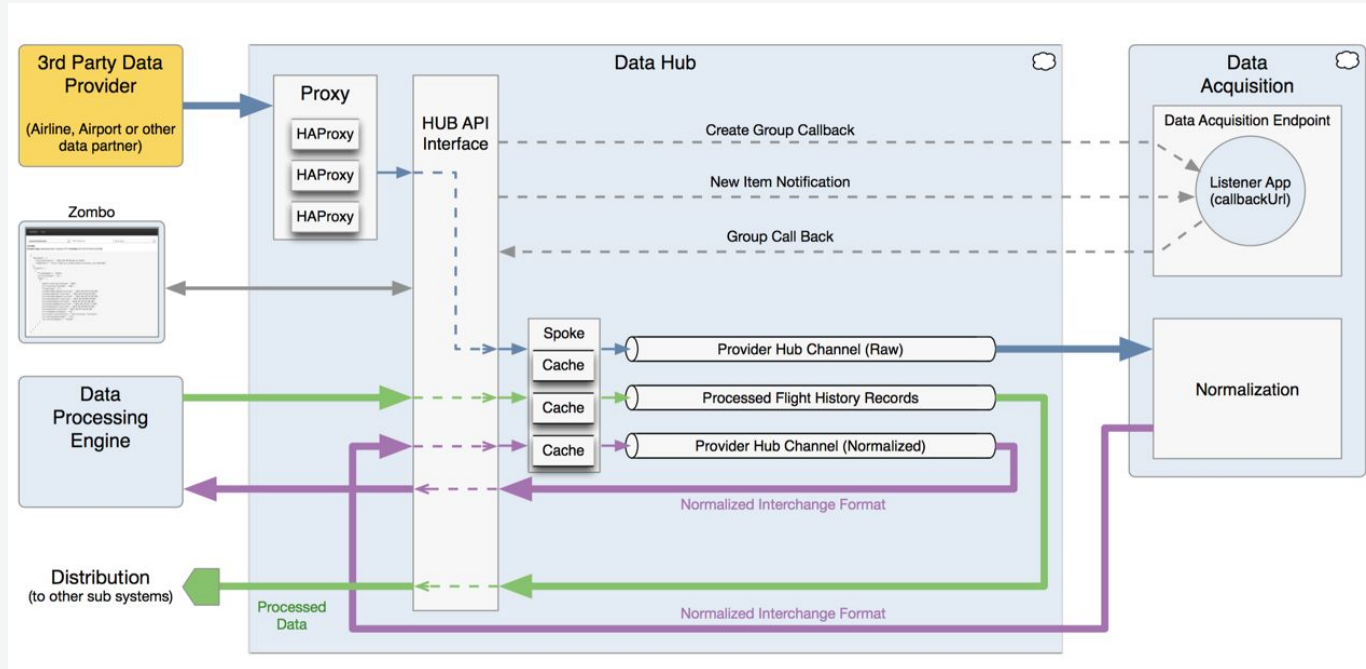

Flight Status API Requests
Since 15 days ago

4

Data Pipeline

5

Object storage based, scalable, highly available, multi-channel data queuing and eventing system.

Open Source: https://github.com/flightstats/hub

Collected and Aggregated Data (FLIFO)

Gate Departure

Gate Arrival

Runway Departure

In-flight Positional Tracking

Runway Arrival

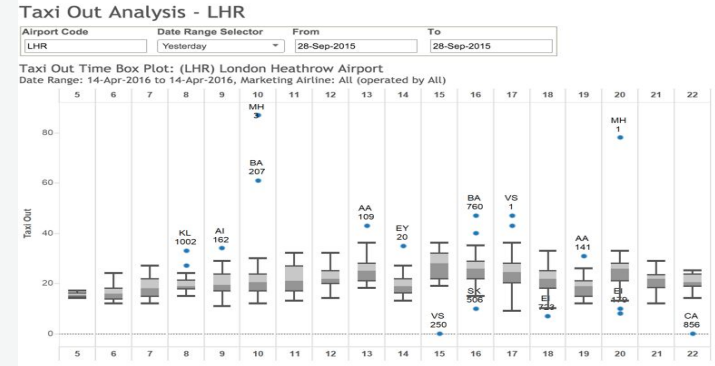## Special Incidents

Synthetic Positions
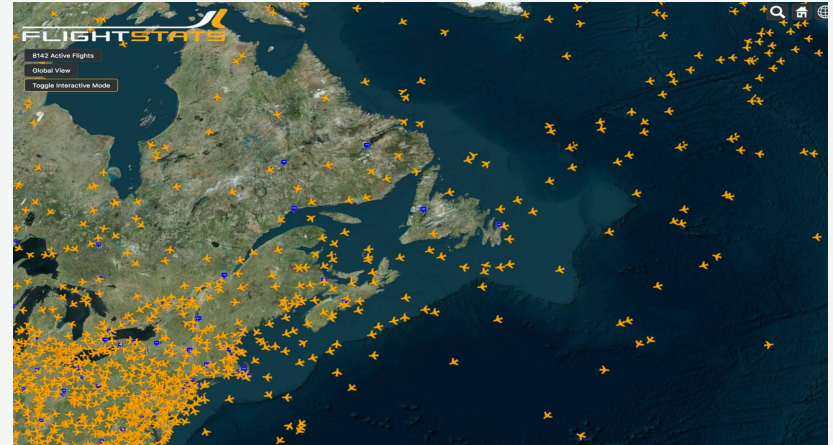
Delay Prediction

Flight Notifications

- ## Data warehouse with 6 Years of historical flight data
- ## Analytics Products
    - ### Airline competitive analysis
    - ### Airline route analysis
    - ### Airport operations analysis
    - ### On time performance metrics


Taxi Out Analysis - LHR

- Resources hosted in our private data center and with Amazon Web Services (AWS)
  - Core data processing and service layer resides in the private data center
  - API endpoints that require low latency connections live in AWS
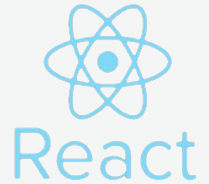- Private infrastructure virtualized with VMWare

- Agile development
  - Small, fast teams
  - Product centric
  - Customer interactive
  - Semi-autonomous
- Automate everything
- Measure everything
- Total system awareness
- Industry best practices and tools
- Recruit and hire the best talent
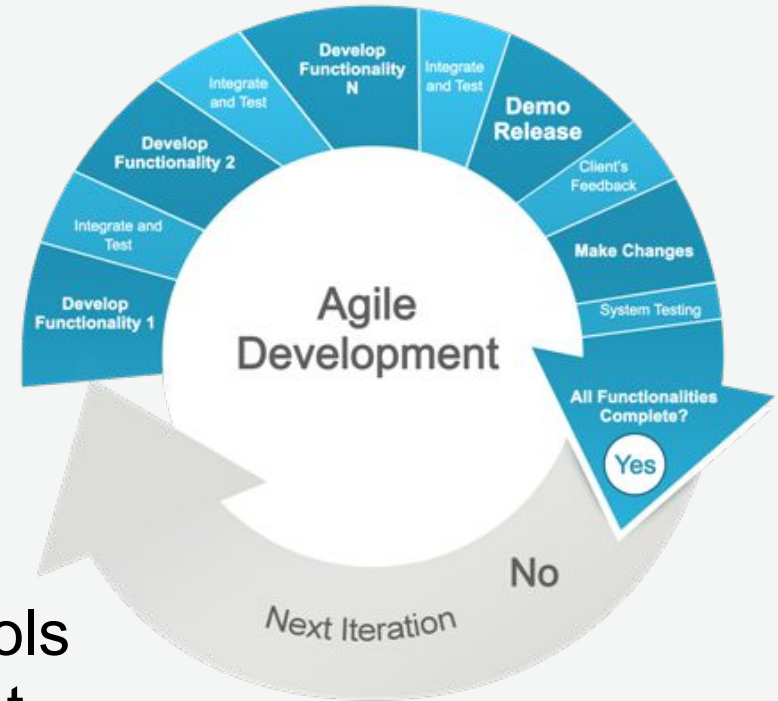
- Java 8 backend
- Node.js micro-service edge layer
- PostgreSQL, MongoDB databases
- Web - HTML5, React, Redux, Elasticsearch
- Mobile - iOS/Android

- http://flightstats.com
- Data for your apps: http://developer.flightstats.com
- The Hub: https://github.com/flightstats/hub
- email: chad@flightstats.com