

TTEK SUCCESS STORY



"Spire Aviation data is a key component for TTEK clients who require clear visibility into the aviation risk landscape."

Chris Thibedeau, CEO | TTEK

TTEK's risk management products for aircraft and passenger tracking

TTEK incorporates Spire Aviation's flight-tracking ADS-B data to help them deliver their state-of-the-art solutions for customs and border processing.

TTEK (pronounced "Tee-Tek") is a company with a mission to provide innovative, state-of-the-art software and border management solutions.

To do this, they require accurate, reliable sources of data, and easy-to-use APIs, that they can easily incorporate into their solutions.

RiskLab Passenger Targeting System™ (PTS)

RiskLab Aircraft Targeting System™ (ATS)

PRODUCT

TTEK's two RiskLab products, **Passenger Targeting System™ (PTS)** and **Aircraft Targeting System™ (ATS)**, work in concert to provide government and state departments with real-time, easy-to-understand information on risks associated with passengers and flights.

PTS™ uses Advance Passenger Information System (APIS) data and Passenger Name Record (PNR) data to analyze and quantify potential passenger risks.

ATS™ uses flight-tracking data and other sources of data to risk-assess flights entering or leaving sovereign territories or airspace.

CHALLENGE

Government clients demand risk management solutions that give them a common operational picture: a standardized way to visualize situations and threats across teams and jurisdictions. This standardization helps them better manage decisions during times of large-scale crises that cross many team boundaries (e.g., natural disasters, 9-11, Covid-19).

To meet these needs, TTEK must make intelligent decisions around what third-party organizations they get their data from, how that data is aggregated and delivered to meet a wide range of goals.

Using unreliable sources of data, or using inflexible, out-of-date APIs, can lead to problems with service delivery, and technical debt and churn.



SOLUTION

To meet one of its primary data needs, TTEK incorporates Spire Aviation flight tracking data into its Aircraft Targeting System (ATS) software. Government teams can use ATS to display customized displays of aircraft on a map view, such as only showing aircraft currently located in a sovereign airspace (or other defined boundary), or only showing aircraft that departed from, or are destined for, specific countries or regions.

Behind the scenes, Spire Aviation gives TTEK accurate aircraft tracking data like aircraft type, flight number, routing information, departure and arrival times, and other flight details. And more importantly, Spire provides modern, flexible APIs that can be easily used by software development teams. Spire Aviation data is a key component for TTEK clients who require clear visibility into the aviation risk landscape, and who need standardized systems and visualizations.



UNLOCK THE DATA

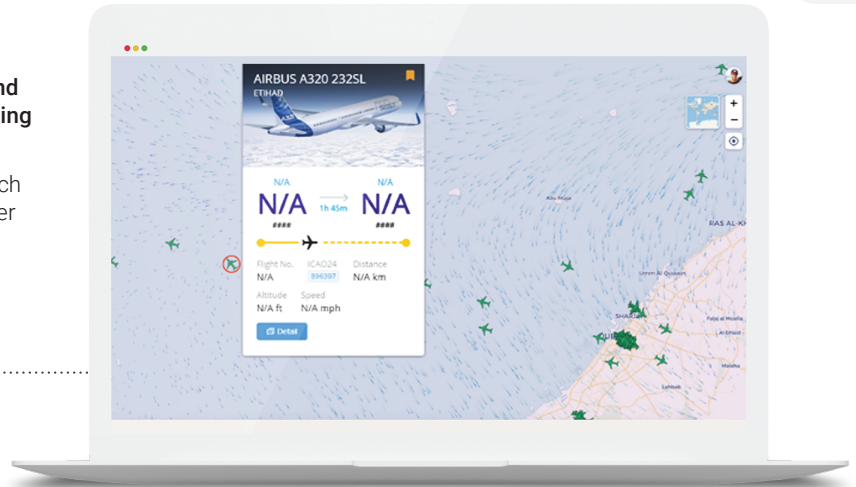
OR VISIT US AT
<https://spire.com/aviation/>

TTEK'S RISKLAB AIRCRAFT TARGETING SYSTEM™

Government analysts have the ability to monitor all inbound and outbound flights using TTEK's RiskLab Aircraft Targeting System™ (ATS).

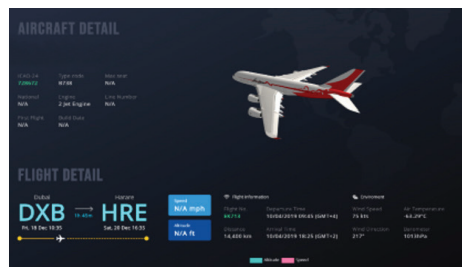
This module seamlessly integrates with the RiskLab PTS™ which provides the ability to identify high risk passengers for closer scrutiny and inspection.

Screen shot: Area of Responsibility (AOR) view within the ATS



Virtual borders and Areas of Responsibility (AORs) can be created within the map layer to meet operational needs.

Aircraft destined to/from a sovereign state will have linked API data in RiskLab PTS™ and a summary risk score that color codes all aircraft as red (high risk), yellow (medium risk), and green (low risk) based on the overall risk presented by the passengers on that plane.



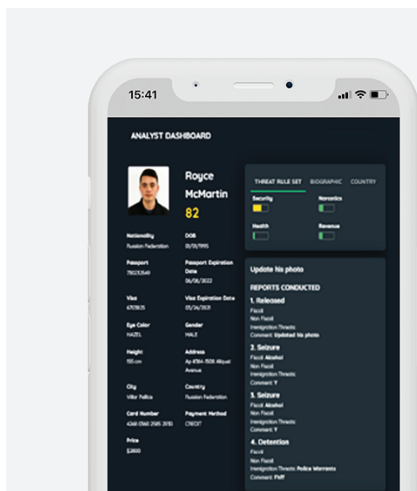
By selecting the highest risk aircraft, the analyst is then able to review the flight details, aircraft type, flight number, routing, departure and arrival times, weather and environment, passenger count, and other details associated with the flight.

All inbound flights will be ranked within the PTS and grouped in order of risk. An analyst dashboard will provide a total count of flights, passengers, and an ability to sort on passengers by nationality, departure and arrival country, and departure and arrival airports, male/female, and more.



After the analyst selects a flight for review, the PTS will provide details associated with all passengers on that flight.

To facilitate an effective triage for decision support, the passengers are ranked from highest to lowest risk. A risk scorecard is attached to each passenger including a link to the seat map where passengers are color coded as red (high risk), yellow (medium risk), and green (low risk).



DYNAMIC MOBILE DISPLAY

Once a high-risk passenger is selected for inspection, the analyst can refer the passenger to the appropriate officer for interdiction and inspection purposes.

Field officers can use a mobile handheld to view the details and threat associated with the referred passenger and instructions on where the person may be intercepted (check in, pre boarding, security, departure or arrival gate, passport control, immigration, Customs, or baggage carousel, etc.)

Spire Aviation data is a key component of TTEK offerings; it helps them deliver to their government and state clients a common operational picture and improved decision support capabilities.



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