



Stock Group Analytics TSA Safer Air Travel

The Customer

The Transportation Security Administration (TSA), through its Secure Flight Program, Vetting and Analysis Division (VAD), plays a critical role in protecting U.S. airspace. Every day, TSA vets millions of passenger itineraries across all airports to adapt to emerging threats with real-time intelligence. To meet the rising complexity of this mission, TSA partners with trusted analytics providers like Stock Group Analytics (SGA).



The Challenge

- **Integrate risk-based data sources across multiple platforms.**
- **Improve the speed and accuracy of threat detection.**
- **Predict passenger volumes** to optimize staffing at the National Transportation Vetting Center (NTVC).
- **Predict passenger reservations at each airport** to optimize staffing Transportation Security Officers (TSOs) at airports.
- **Provide leadership** with timely, actionable operational insights.



Stock Group Analytics's Solution



SGA supports TSA's mission by delivering tailored analytics, AI-powered modeling, and performance dashboards to empower TSA leadership. Core contributions include:

- **AI/ML Modeling:** Development of predictive models to forecast passenger reservations and prioritize workload distribution.
- **Operational Analytics:** Workflow optimization and impact analysis to support system adaptability to new policies or threats.
- **Executive Dashboards:** Power BI dashboards that provide TSA leadership real-time insights into performance, staffing, and readiness.
- **Access Controls:** Alignment with DHS cybersecurity standards for Identity and Access Management (IAM) enforcement.



Benefits

SGA's solutions transformed TSA's operations, delivering measurable outcomes:

- **Enhanced Security Awareness:** Improved visibility into threat indicators via analytics-driven insights.
- **Mission Continuity:** Sustained 24/7 vetting operations during major system and policy transitions.
- **Staffing Optimization:** Data-driven workforce planning to align NTVG capacity with forecasted volumes.
- **Leadership Readiness:** Actionable insights through visualized data, enabling faster, more informed decisions.
- **Resource Efficiency:** Reduced operational inefficiencies through proactive system tuning and forecasting.