:SABEL SYSTEMS

sabelsystems.com

DATA ANALYTICS OF NATIONAL BAGGAGE SCREENING

Transportation Security Administration

Sabel Systems developed the capability to utilize the information stored in Explosives Detection System (EDS) Field Data Reporting System (FDRS) reports to provide operational reporting and metrics for the entire Transportation Security Administration (TSA) EDS fleet of over 1800 machines. Sabel Systems team members have previous experience with EDS manufacturers and are keenly aware of the abundant analysis possibilities provided by FDRS data. Sabel Systems worked with TSA's Electronic Baggage Screening Program stakeholders to deliver this business intelligence capability using TSA's own Security Technology Integrated Program (STIP). STIP is an agency-wide Enterprise Management System that provides a centralized focal point connecting passenger and baggage screening security technologies to one network. Sabel designed a database schema to optimize performance and built a reporting framework using the IBM Cognos platform. Additional business intelligence and reporting capability have been developed using Microsoft Power BI.

The tool provides data management and data analytics in a user-friendly web-based platform and allows TSA's own designated personnel to create and run reports as needed. Sabel Systems is also integrating data from multiple TSA data sources such as Contract Status Accounting Report (CSAR) and Government Property Management (GPM) to provide a comprehensive view of the EDS install base. Sabel validates and evaluates the completeness of data delivered each month and identifies anomalies. Future development plans include adding data from carry on baggage screening equipment as well as information from the Performance Information Management System (PIMS) and Enhanced Staffing Model (ESM) to provide enhanced multi-variable analytics.

The tool also provides graphical reporting of operational performance characteristics as well as dashboarding of specific data elements and can be completely customized to meet the user's needs.

Email Brandon Sorrell at brandon.sorrell@sabelsystems.com

FEATURES & BENEFITS

BIG DATA ANALYTICS
Turn billions of bag records from over 1800 machines at more than 250 airports nationwide into meaningful information

TRACK KEY PERFORMANCE INDICATORS
Provide a true understanding of operational capability by delivering EDS alarm rate, OSR clear rate, and throughput analyses

TRACKING OPERATIONAL IMPACT
Analyze the impact of deploying new detection algorithms and a breakdown of the threat types identified by the EDS machines

IDENTIFY OPPORTUNITIES
Help inform the opportunity and expected results of proposed Concept of Operations (CONOPS) changes

OPERATOR PERFORMANCE TRENDING
Perform monthly evaluation of On Screen Resolution (OSR) operator performance nationwide

MACRO TO MICRO ANALYSIS
View data at the nationwide, airport, bag zone, EDS model and individual machine level

CONNECTING WITH SABEL

Contact Brandon Sorrell at brandon.sorrell@sabelsystems.com | 202.684.8335 | sabelsystems.com - LinkedIn -YouTube

SABEL FACTS

Sabel Systems Technology Solutions LLC was founded in 2001. We are an Economically Disadvantaged Woman-Owned Small Business (EDWOSB) 8(a) designated company (CAGE:5Z2A6 DUNS:131784725) with an Interim Top Secret facility clearance.

CONTRACT VEHICLES:
• GSA PSS
• GSA STARS II
• SOSSEC OTA
• C5 OTA
• TReX OTA
• Phase III SBIR

CERTIFICATIONS:
• Certified SBA 8(a): 2011
• CMMI Level 2 Services
• ISO 9001:2015
• WOSB
• NYC MWBE

OFFICES:
• Washington D.C.
• Dayton, OH
• New York, NY
• Oklahoma City, OK
• Warner-Robins, GA

NAICS:
541330, 541430, 541490, 541511, 541512, 541513, 541519, 541611, 541612, 541614, 541618, 541690, 541720, 541810, 541990, 561110, 561990, 611430, 611710, 624190

ANALYZE | DESIGN | DELIVER