



SAS® for Military Intelligence

Holistic and comprehensive insight for producing timely, accurate national intelligence

Policymakers, military leaders and warfighters need to have the most timely, accurate national intelligence if they are to provide the level of national security our citizens and allies demand. They depend on the expertise of highly skilled analysts to make sense out of the petabytes of data flooding in per month.

With ever-increasing amounts of data sources, identifying, validating, collecting, manipulating, and delivering the right data can be an expensive and unreliable process, especially aggregating data from numerous data silos that are scattered throughout the intelligence community.

Data sources only continue to grow, and volume keeps expanding. Some of the information is structured data stored in transaction-oriented relational databases. Increasingly, more data is unstructured in text formats, video and audio. Foreign languages or transliteration adds to the level of complexity in understanding the big picture.

Data integrity or data quality continues to be one of the biggest challenges. Eighty percent of data warehousing efforts fail due to poor data quality. No matter how advanced your analytics solution, if your data is bad, your results won't be meaningful.

In order to provide information, indications and warnings, with real-time visibility to national military and civilian leaders and analysts, it is critical that a solution provide 24/7 support with constantly increasing capacity and workloads. To



What if...

- You could fuse multi-INT data seamlessly?
- You could uncover indications and warnings, tipping and cueing, hidden patterns and anomalies?
- You could predict and mitigate threats?
- You could disseminate situational awareness through reporting and visualization?
- You could have at your fingertips and in one place all the necessary information to assist you in targeting?
- You could have a complete "card catalog" of all data sources, their owner, who uses them and where they might be accessed?

make the best tactical and strategic decisions, policymakers and military leaders must have ***the right information delivered at the right time in the right form.***



From mountains of data, reveal hidden insights

How SAS® can help

SAS can help military intelligence organizations achieve next-generation capabilities with a complete framework that can integrate, process, correlate, analyze and visualize enormous amounts of multi-INT data into usable information to provide holistic situational awareness for the US military:

- Ingest and process huge amounts of data with SAS® Data Integration and data quality solutions that provide analysts with a repeatable process to access all source data. With SAS, you can integrate multi-INT data, structured or unstructured, from a multitude of sources, to make horizontal integration a reality.

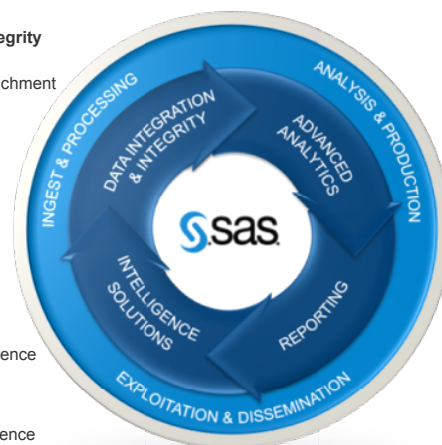
- Analyze data using advanced analytic techniques that reveal insight hidden in mountains of data such as patterns of behavior and relationships. Improve insight and mitigate risks using advanced analytic methodologies and techniques that can scale to the required levels. SAS helps provide the intelligence required for kinetic and non-kinetic targeting, as well as mitigating threats and potential threats around the world.
- Exploit and disseminate high-quality intelligence products with SAS reporting and visualization solutions that present results in graphical or geospatial formats that resonate with consumers.

Data Integration & Integrity

- Connectivity
- Data Cleansing & Enrichment
- ETL
- Synchronization
- Migration
- Data Federation
- Master Data Mgmt
- Data Inspection
- Data Quality

Intelligence Solutions

- Customer Intelligence
- Human Capital Intelligence
- Financial Mgmt
- Grid Computing
- Cyber Intelligence
- IT/Data Center Intelligence
- Strategy Intelligence
- Supply Chain Intelligence



Advanced Analytics

- Statistics
- Data & Text Mining
- Taxonomy/Ontology Mgmt.
- Model Mgmt. & Deployment
- Forecasting
- Econometrics
- Quality Improvement
- Optimization

Reporting

- Reporting
- Query & Analysis
- OLAP
- MS Office Integration
- Integrated Analytics
- Business Visualization
- Metadata Management
- Guided Analysis
- Application Development

The SAS Business Analytics Framework of data integration, analytics, reporting and business solutions: For better flexibility and rapid results, intelligence organizations can evolve to improve performance and solve more and more intelligence problems by growing the SAS Business Analytics Framework over time, building a platform that is tailored to the organization's needs in an iterative fashion.

- Implement the total solution and repeatable processes to be up and running in months rather than years with the expertise of SAS' highly skilled professionals.

SAS helps defense intelligence analysts more productively perform analysis and produce high-quality intelligence products. The end result is usable intelligence that helps warfighters and policymakers make better decisions.

The SAS® Difference

SAS combines advanced analytic capabilities with easy-to-use, Web-based reporting solutions – empowering analysts to discover answers to their intelligence questions and even discover information and relationships about their subject that they didn't know how to inquire about. Results are presented in high quality visual formats and easily shared with others. Only SAS offers:

- **Unparalleled scalability:** SAS has demonstrated an ability to not only manage, but optimize, the enormous amounts of data prevalent through defense organizations – quickly, SAS can handle the velocity and veracity of the ever-growing volumes of multi-INT data.

- **Strong commitment to excellence in advanced analytics.** To be proactive, not reactive, you must seize opportunities to thwart aggression. SAS is unique in its ability to help organizations make proactive, forward-looking decisions using forecasting, predictive modeling and optimization. With its deep resource pool of talent, SAS has proven repeatedly that it can solve the most complex problems by applying the newest statistical and mathematical techniques.
- **Integrated platform.** SAS is the only advanced analytics vendor with a platform engineered to seamlessly deliver data integration, reporting and analytics through a single framework that can flexibly grow with an organization. All of these capabilities can help improve performance and manage change throughout the enterprise.
- **Flexibility for maximized return on IT Investments.** SAS enables optimal integration of individual technology components already existing within an organization's current IT infrastructure, and provides a complete, truly integrated analytics framework that will allow you to expand, grow and modify as threats change.

Proven Success

- **Preventing cyber attacks:** A military cyber-defense organization analyzes masses of real-time information to stop attacks in progress. By having a clearer picture of threats, analysts can recognize threats sooner and make more informed decisions on where to focus assets and how to best prepare for the future.
- **Preventing terrorism and illegitimate travel and trade:** Charged with screening enormous amounts of data from bills of lading, ship manifests and passenger travel lists, a large defense agency uses SAS to efficiently flag suspicious data and reduce data errors resulting in heightened threat awareness and terrorism prevention.
- **Exceeding expectations and improving accuracy in name checking:** A civilian agency was able to decrease false positives by more than 98 percent and reduce the backlog of customer requests using SAS data integration and phonetic algorithms.
- **Reducing terrorist threats:** An international law enforcement agency fights terrorism, human trafficking, cybercrime and transnational crime by using SAS. By having an automated and centralized information platform, analysts have experienced a 20 percent time savings and can now easily access and manage criminal data from any source without manual coding.

- **Improving border security and control:** An international border agency uses SAS to manage border control and enforce immigration and customs regulations. By collecting and analyzing data on all travelers and passengers entering or leaving the country by air, sea or rail, the agency can identify passengers who are potential risks to alert authorities.
- **Increasing public safety and reducing recidivism:** A federal executive branch agency responsible for supervising parolees and probationers uses SAS Analytics to manage staff workload more efficiently, study recidivism patterns and keep residents safe.
- **Identifying fraud:** Using the SAS Fraud Framework solution, which includes SAS Social Network Analysis, a state government department of labor expects to recover millions of dollars in workman's compensation premiums in the first year alone.
- **Improving customs management:** A large international agency turned to SAS to modernize duty collection, reduce smuggling across borders and improve trade processing and customs logistics. After implementing and using the SAS solution for less than two years, hidden administrative risks have been detected, \$20 million in duty has been retrieved, and the solution has been distributed to 37 regional customs districts.

- **Providing quick, easy access to public health data:** A health care agency uses SAS to provide credible information to enhance health decisions and ensure that the best health and safety information is accessible to the communities and individuals who need it every day.
- **Revolutionary advanced analytics implementation:** A defense agency used SAS technology to revolutionize the way it does predictive analysis. The most compelling result – they were able to more effectively perform timely analysis in a fast-paced, high intensity environment.

SAS Facts

- SAS' customers include all 15 federal departments, all military departments and the joint commands.
- Approximately 85 percent of independent US government agencies and commissions use SAS.
- SAS solutions are used at more than 45,000 sites in over 100 countries – including 92 of the top 100 FORTUNE Global 500® companies.

About SAS

SAS is the leader in **advanced analytics** software and services, and the largest independent vendor in the business intelligence market. Through innovative solutions delivered within an integrated framework, SAS helps customers at more than 45,000 sites improve performance and deliver value by making better decisions faster. Since 1976 SAS has been giving customers around the world THE POWER TO KNOW®.



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