



Analytics as a Service

Expert intelligence to meet evolving mission needs

Threats to national security are continuously evolving, as is the amount and type of data available to inform the analysis of those threats. Until now, the use of unclassified, commercially or publicly-available data has been limited by resource and access constraints.

At BAE Systems, we anticipated and prepared for the transformational changes to data brokering and collection, analytic techniques, and stakeholder consumption. Today, we offer fully-functional, unclassified Analysis-as-a-Service and Data-as-a-Service capabilities

available through our Advanced Analytics Lab. These capabilities serve as an extended resource to government missions operating in evolving environments.

BAE Systems' methodology promotes flexible, multi-phase intelligence output options such as enriched data feeds, data files (JSON, KML, CSV, etc.), dynamic data visualizations and narrative documents capturing initial observations. These tiers of analytic offerings and enriched data form the core of our Analysis-as-a-Service and Data-as-a-Service capabilities.

Proven Methodology

We transform large volumes of unstructured and semi-structured data into relevant and actionable intelligence. Our solution is moving the intelligence community closer to its goal of spatial-temporal dominance, and is designed to be repeatable for use in multiple theaters simultaneously.



Analyst-driven collection

Analysts identify sources of consistently reliable information, rather than relying on irregular keyword-based searches.



Custom ontologies

Analysts with subject matter expertise work with developers to create models for identifying geospatial, temporal, and thematic information.



Automated processing

Data is automatically collected and tagged, entities extracted, and information tied to a geographic point – all before an analyst looks at it.



Analyst Review and Analysis

Analysts review and validate data, and can then export data to a variety of analytic tools for further investigation and production.

Analysis-enabling Resources

Analysts at the Lab have access to a robust collection of premium and niche data feeds, conduct non/mis-attributable research in a secure cloud-based environment, and leverage a mix of cutting-edge in-house and commercial technology to address complex intelligence questions. Our work demonstrates the potential for significant increases in analytic efficiency through use of the Analysis-as-a-Service model.

Flexible Outputs

We use a flexible schema to give structure to any unstructured or semi-structured web data. We make our data available within a shared data repository via RESTful API, and is exportable in CSV, JSON, shapefile, or KML for transmission to classified networks if required. This provides for full data interoperability with a variety of common analysis and visualization tools, including BAE Systems' GXP Platform.

Cloud-based Collection And Storage

We conduct data collection from a variety of cloud-based virtual machines, ensuring reliable access from anywhere in the world. We also store data in a secure cloud-based environment as a cost-effective solution while ensuring reliable accessibility.

Activity-based Intelligence Integration

We are actively integrating open sources into the multi-INT, activity-based intelligence (ABI) environment while adhering to Structured Observation Management (SOM) standards. BAE Systems is developing capabilities to help intelligence analysts discover abnormal observations, trends and patterns by correlating multiple sources of information together in space and time. Integrating an appropriate layer of open source and social media data ensures a more complete representation of an environment of interest, and may lead to new insights into events and transactions undetectable by other means.

BAE Systems, Inc.
Intelligence & Security
Advanced Analytics Lab

703-873-5307
analyticslab.is@baesystems.com
www.baesystems.com

Disclaimer and copyright

This document gives only a general description of products and services and except where expressly provided otherwise shall not form part of any contract. From time to time, changes may be made in the products or conditions of supply.

© 2019 BAE SYSTEMS. All rights reserved.

The information contained in this document is proprietary to BAE SYSTEMS unless stated otherwise and is made available in confidence; it must not be used or disclosed without the express written permission of BAE SYSTEMS. This document may not be copied in whole or in part in any form without the express written consent of BAE SYSTEMS which may be given by contract.

BAE SYSTEMS is a registered trade mark of BAE Systems plc

0719-781