



Expert intelligence to meet  
evolving mission needs

## Analysis as a Service

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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 (AaaS) and Desktop as a Service (DaaS) 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 our AaaS and DaaS capabilities 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 Advanced Analytics 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 AaaS 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.

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