U.S. intelligence agency

U.S. INTELLIGENCE AGENCY

Billions of records, analyzed inside the mission's own cloud.

A U.S. intelligence agency needed a big data tool with an Authority to Operate in its Commercial Cloud Enterprise. Syntasa now runs there in production, at terabytes a day, with analysts building their own analyses and dashboards.

SECTOR
Public sector

INDUSTRY
National security: a U.S. intelligence agency

REGION
United States

DEPLOYMENT
Syntasa Data + AI Platform, with an Authority to Operate (ATO), in the agency's Commercial Cloud Enterprise (C2E)

DATA
Billions of records, batch and streaming, at terabytes a day

USE CASES
Big data engineering, Analytics and dashboards, Natural language processing, Geospatial analysis

RECORDS IN PRODUCTION
15B+
records in one production workload, at 1.5 TB a day

DAILY VOLUME
2 TB
a day in another workload, across 1B+ records

BENCHMARK
15%
better performance than a proprietary Spark platform

ACCREDITATION
ATO
Authority to Operate in the agency's C2E environment

> **We are proud to have partnered with this agency to bring our advanced data and AI capabilities to their mission. Our platform's ability to handle complex, large-scale data challenges and provide actionable insights in a user-friendly way demonstrates our commitment to empowering our customers to achieve their missions.**
>
> Jay Marwaha, Founder and CEO, Syntasa

CONTEXT

Vast datasets, and a mission that can't wait.

The agency employs thousands of people, including civilians, military members and contractors, and its analysts work with vast datasets inside the agency's Commercial Cloud Enterprise (C2E) environment.

It needed a big data tool that could process that data at scale, and let analysts create complex analyses, visualize them and improve their datasets, without waiting on engineering for every change.

CONSTRAINT

Accredited, at scale, inside C2E.

- **An Authority to Operate.** Any tool had to hold an ATO to run in the agency's environment.
- **Inside the agency's cloud.** Processing had to happen in C2E, on the agency's own cloud services, not in an outside platform.
- **Massive, mixed workloads.** Billions of records in batch and streaming, across data engineering, data science and analytics.
- **Costs hard to see.** Cloud processing costs needed to be visible and controlled, job by job.

TIMELINE

How the work grew.

THE NEED
A big data tool with an ATO
The agency looks for a tool that can process vast datasets inside its C2E environment.

EVALUATION
Side by side
Syntasa is compared with a proprietary Spark platform for data engineering, data science and analytics.

ACCREDITATION
Authority to Operate
Syntasa runs with an ATO in the agency's C2E environment.

PRODUCTION
Workloads live
Three workloads in production, from streaming data to 15B+ records.

SEPT 2025
Announced
Syntasa announces its data and AI platform at a U.S. intelligence agency.

ABOUT U.S. INTELLIGENCE AGENCY

A U.S. intelligence agency that employs thousands of personnel, including civilians, military members and contractors. Its analysts work with vast datasets in the agency's Commercial Cloud Enterprise (C2E) environment. The agency isn't named, as is usual for national security customers.

DEPLOYMENT

One platform, from raw data to the dashboard.

Syntasa was evaluated side by side against a proprietary Spark platform for data engineering, data science and analytics workloads, then deployed with an ATO in the agency's C2E environment.

01
Run on native cloud services
The platform uses the cloud services already in C2E, so it scales with each workload.

02
Build without code
Analysts build their own workflows and complex analyses in the interface, without writing code.

03
Validate mission use cases
Natural language processing, geospatial analysis (mobility, trip and proximity with H3, AIS) and image processing such as object detection.

04
Automate and govern
New data is brought in and every dataset and dashboard refreshed automatically, with per-job cost reporting and usage guardrails.

ARCHITECTURE

Syntasa in C2E

Mission data
Batch and streaming sources

→

Native cloud services
Inside the agency's C2E

→

Syntasa Data + AI Platform
No-code workflows, with an ATO

→

Analyses and models
NLP, geospatial, imagery

→

Dashboards
Refreshed automatically for analysts

HOW IT WORKS

What the evaluation covered

Syntasa was evaluated on the agency's own workloads, and many mission use cases were validated.

1 **Data engineering**
Batch and streaming pipelines at terabytes a day, on C2E's native cloud services.

2 **Natural language**
Topic modeling, sentiment analysis and entity extraction.

3 **Geospatial**
Mobility data, trip and proximity analysis with H3, and Automatic Identification System (AIS) data.

4 **Imagery**
Image processing, including object detection.

RESULTS

The numbers.

MEASURE	BEFORE	WITH SYNTASA
Authority to Operate in C2E	Required	**Granted**
Benchmark against proprietary Spark	Baseline	**+15%**
Building analyses	Code	**No code**
Cloud processing costs	Hard to see	**Per job**

WHY SYNTASA

What made the difference.

- **Accredited.** Runs with an Authority to Operate in the agency's C2E environment.
- **Native to the agency's cloud.** Uses the cloud services already in C2E, and scales with each workload.
- **Proven at scale.** 15B+ records at 1.5 TB a day in one production workload.
- **Faster than proprietary Spark.** A 15% improvement in a side-by-side benchmark.
- **Costs in view.** Per-job cost reporting by user or group, with guardrails and alerts.
- **Built for analysts.** No-code workflows and automatically refreshed dashboards.

About Syntasa

Syntasa is the data and AI platform that runs inside your own cloud, turning first-party data into models, audiences and real-time decisions without copying it anywhere else.

Talk with our team
syntasa.com/contact