

ANIMAS

Actionable Intelligence at the Speed of Thought...

With Artificial Neural Intelligence Modular Analytics System (ANIMAS), it is possible to literally “talk to the data” and to very quickly and effectively extract answers and solutions to complex problems.

- ▶ A Fully Integrated Solution for Multi-Int Data Ingestion and Interrogation using Generative AI
- ▶ An OnPrem AI tool in the arsenal for the next generation warfighter
- ▶ Let the AI draw connections, evaluate options, and guide you through critical aspects of a mission with unprecedented speed, accuracy, and efficiency

Zingest Data Management

ETL

HARVEST

CONDITIONING

Data Source

UNSTRUCTURED

- ▶ Multimedia (Audio/Video)
- ▶ Sensor Data
- ▶ Communications
- ▶ Word / PowerPoint

SEMI-STRUCTURED

- ▶ XML / JSON
- ▶ NoSQL
- ▶ Email
- ▶ Reports

STRUCTURED

- ▶ Relational Databases
- ▶ Proprietary Databases
- ▶ Spreadsheets, emails, documents, reports, presentations

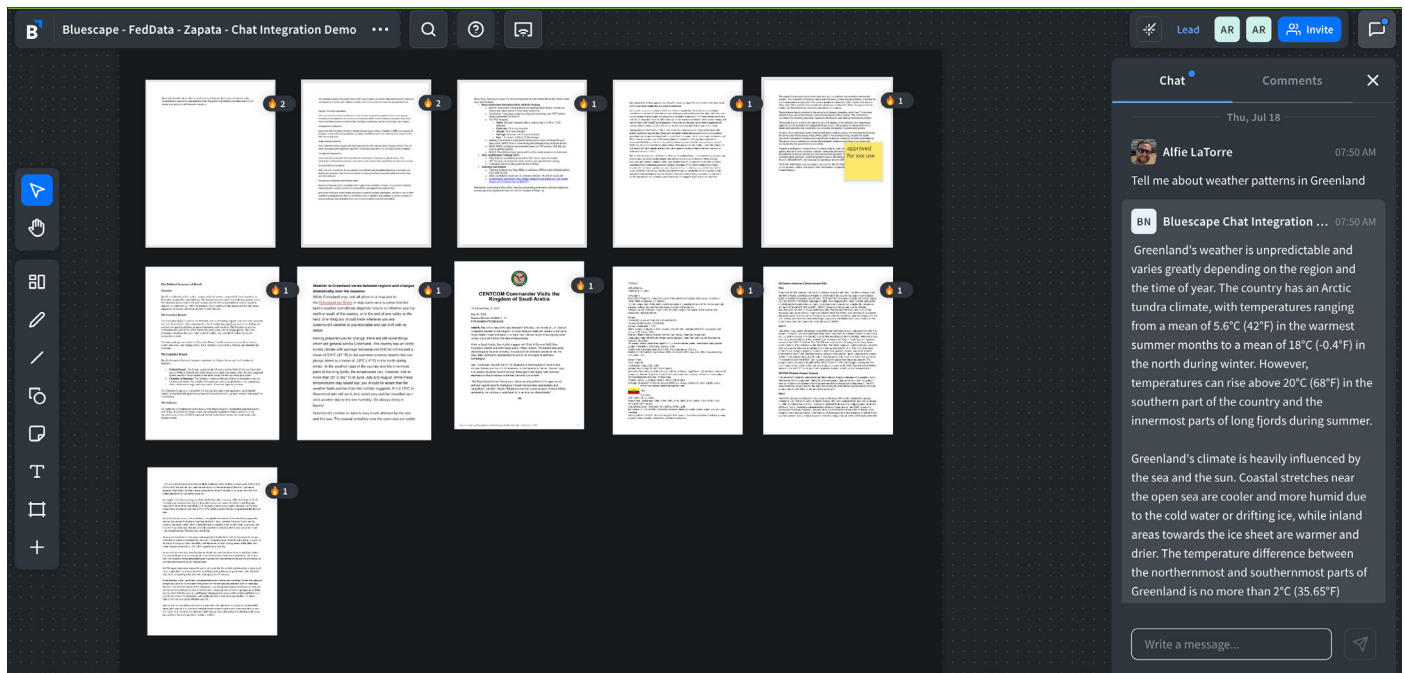
Benefits of ANIMAS OnPrem AI

- ▶ The customer has total control over the hardware infrastructure, data content and localization, configuration, and security, with no required access to third-party resources (e.g., Large Language Model [LLM] providers or third party services requiring an API key).

OnPrem AI Planning & Analytics

- ▶ Integrates with diverse data sources and destinations
- ▶ Supports fine-grained access control and data encryption
- ▶ Real-time data ingestion, transformation, and processing
- ▶ Scales horizontally to handle large data volumes
- ▶ Language translation (i.e., Korean and Japanese)

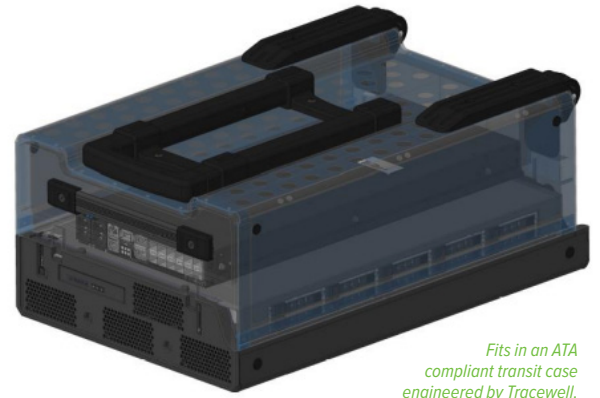
VISUAL WORKSPACE



ANIMAS Tracewell & Dell 6615 Box

Form Factor Highlights

Ground-breaking compute capability (64 cores and 2TB of RAM) in a highly compact platform footprint, making it the ideal platform for high-performance computing at the edge. Available in an Air Transportation Association (ATA) carry-on compliant case. Can be scaled to accommodate additional components and technology.



Fits in an ATA compliant transit case engineered by Tracewell.

Maximum Configuration

- ▶ Processors: 64 cores
- ▶ Memory: 2TB
- ▶ Storage: 10, 2.5" drives (8 SATA/SAS or 10 NVMe)
- ▶ PCIe Slots: 2 (capable of holding Nvidia L4 GPU or equivalent form factor GPUs)
- ▶ SYSTEM: 18"D, 13" W, 3.47"H

Note: AMD EPYCTM processor

Performance Highlights

- ▶ Support for 20 concurrent users with latencies under 10 seconds for large context queries (average of 20 tokens)
- ▶ Throughput of 300 queries per minute (QPMs) for 10 concurrent users
- ▶ Average ingest time for PDF documents: 170 pages/minute

Solution Hardware

- ▶ We have Subject Matter Experts that can assist with full spectrum hardware & software solutions; for tactical & strategic solutions.
- ▶ Benchmarking and validation conducted on industrial-grade architectures with Nvidia GPU accelerators (H100 and L40S)
- ▶ Capable of supporting customer requirements from small Tactical-Edge deployments to large-scale enterprises

Tested on x86_64 architectures such as:

Dell PowerEdge XE9680
Dell PowerEdge R760xa



Zapata Technology's ZIngest Features

- ▶ **ZERO Trust Data Encryption at Rest and in Transit** – MPO-approved process ensures the security of data both at rest and during transit, enabling both encryption and decryption
- ▶ **All Purpose Data Processing Management** – All types of data, structured, semi-structured, and unstructured, are processed and moved among diverse data sources and systems
- ▶ **Visualized Data Processing** – The complete cycle of data processing pipelines including design, maintenance and monitoring is managed in a web-based GUI
- ▶ **High Throughput, Data Provenance, Reliability, & Security** – Schedule-based data stream processing pipelines are distributed, prioritized, and tracked which assures delivery
- ▶ High level of modulization supported by a large library of readily used components, expression language, and scripting extension increases pipeline development productivity and adaptability to change

FEDDATA's OnPrem-GPT AI Features

- ▶ Enterprise-level RAG AI for multi-user environments, on-prem solution with no external resources needed, supporting thousands of concurrent users on multiple nodes
- ▶ Proven and customizable LLMs (e.g., Mistral, Mixtral), with a bring-your-own LLM option available
- ▶ Data retrieval augmented with reference sources and document images, with AI responses filtered using relevance scores from semantic search
- ▶ Advanced text embedding models and vector store databases with fine-tuning capabilities for specific use cases, and AI data management for large volumes of data
- ▶ Separate data collections with ad-hoc user access policies, supporting various data formats (PDF, Microsoft Suite, raw text, web scraping)
- ▶ Integration capabilities with other data sources and prompt engineering and guard-railing for accurate context-specific answers

ZAPATA
TECHNOLOGY

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