

SAP HANA® + LUMIFY = When Open Source Data Analysis Meets Real-Time Data Flow

LUMIFY

Altamira LUMIFY is an open source big data fusion, analysis, and visualization platform which enables users to discover connections and explore relationships in their data via a suite of analytic options, including 2D and 3D graph visualizations, full-text faceted search, dynamic histograms, interactive geospatial views, and collaborative workspaces shared in real-time.

LUMIFY was designed with cloud-based architectures in mind. It works out of the box on Amazon's AWS environment and can also run on most on-premise Hadoop stacks.

SAP HANA®

SAP HANA is a revolutionary "in-memory" database and computation engine that enables major performance improvements in complex computing operations, including those typically found in U.S. defense, national security and cyber security missions.

SAP HANA combines database, data processing, and application platform capabilities "in-memory," which means that memory on spinning disks is not part of the computational chain. Instead, HANA uses the CPU itself to enable processing speeds that are 60 to 100,000 times faster than what is possible with traditional computing architectures.

SAP HANA OFFERS A HUGE RANGE OF CAPABILITIES IN AN INTEGRATED, COST- SAVING PLATFORM:

- Predictive analysis library of formulas and algorithms
- Natural Language Processing for unstructured text
- Geospatial analysis
- Graph engine for link analysis
- In-memory calculation engine for mission-specific functions and algorithms
- Event Stream Processing for real-time streaming data
- Seamless Smart Data Access™ to Hadoop and on-disk databases
- Open Standards connectivity to existing front-end tools
- Multi-billion record queries at the speed of thought.

SAP HANA® + LUMIFY = AMPLIFYING INTELLIGENCE

SAP HANA amplifies LUMIFY's capabilities by providing the ability to rapidly ingest, store and retrieve the bulk data needed by analysts at incredible speeds. LUMIFY takes advantage of these fast retrieval capabilities to quickly fuse data and information from human, sensor, and/or open source information to create actionable intelligence. Together, LUMIFY and SAP HANA provide the backbone of anticipatory intelligence capabilities.

For example, in financial fraud cases, LUMIFY helps identify connections among potential suspects amid large volumes of case material. HANA supplements LUMIFY's automatic analysis capabilities with its in-memory text analytics, which rapidly distill bulk text data into more useful relationship-based entities for analysts.

ABOUT SAP NS2

SAP National Security Services, Inc. (SAP NS2*) is an independent, 100% U.S. subsidiary of the global enterprise software company, SAP, offering a full suite of world-class enterprise applications, analytics, database, cyber security, cloud, and mobility software solutions from SAP, with specialized levels of security and support to meet the unique mission requirements of U.S. national security and critical infrastructure customers. In addition to software solutions, SAP NS2 offers secure support and consulting services from credentialed experts in the national security space. Learn more at www.SAPNS2.com.

ABOUT ALTAMIRA

Altamira Technologies Corporation provides its national security customers the information advantage through full-spectrum engineering, analytic services, and open source software solutions. Altamira brings a commercial mindset to solving the most complex national security problems by delivering mission application development, multi-intelligence analysis, and data science technologies to defense, intelligence, and our homeland security communities. Altamira's culture of innovation and excellence, and mid-market size, positions it as the premier next generation leader bringing technology to mission. Learn more at www.altamiracorp.com

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LUMIFY OFFERS THE OPEN SOURCE ALTERNATIVE TO PROPRIETARY DATA ANALYSIS PLATFORMS:

- **Open Source**
In addition to leveraging popular open source technologies like Hadoop and Accumulo, LUMIFY itself is also open source under the Apache 2.0 license.
- **Map Integration**
View your data geographically with map overlays. Pluggable map providers allow you to integrate your preferred GIS solution.
- **Graph Visualization**
Analyze relationships, automatically discover paths between entities, and establish new links in 2D or 3D.
- **Live, Shared Workspaces**
Organize your work into separate workspaces you can share with colleagues. Updates are pushed to everyone viewing the workspace in real-time.
- **Fine-Grained Security**
Protect your data with separate access controls on entire entities, individual properties, and each relationship.