



ALTAIR® GRAPH STUDIO™: SEAMLESS DATA INTEGRATION POWERED BY SEMANTICS

Altair® Graph Studio™, part of the Altair® RapidMiner® data analytics and artificial intelligence (AI) platform, is a comprehensive data discovery and integration toolset that applies a semantic, graph-based data fabric over diverse enterprise data sources. Unlike other data discovery and integration tools, Graph Studio applies a semantic layer to add real-world meaning to structured and unstructured data. Graph Studio creates a single pane of glass for an enterprise's data, eliminates data silos, activates unused data, and enables on-demand business insights. With knowledge graph technology, Graph Studio provides understandable, comprehensive organizational context to all enterprise solutions, especially those that employ generative AI (genAI).

Key Capabilities

- **Functionally Rich Application Platform:** The accessible graphical user interface (GUI) has built-in onboarding, modeling, blending and access tools, and comprehensive data management capabilities. Users can quickly combine enterprise data into business-friendly [graph data models](#) and analytic-ready data sets.
- **Enterprise-Grade Performance and Scalability:** [Graph Studio's](#) high-performance database engine can scale to model, blend, and query billions of triples quickly. Users benefit from faster, deeper data insights.
- **Built on Open Standards:** Graph Studio leverages open World Web Consortium (W3C) standards, such as Web Ontology Language (OWL), Resource Description Framework (RDF), and the SPARQL Protocol and RDF Query Language (SPARQL). Onboarding data is modeled, connected, and queried into interconnected graphs.
- **Simple Automated Model Development:** Graph Studio's tools quickly automate semantic graph data modeling development. This includes modeling components, connecting to data that use sources' metadata to begin the model development process, data profiling for smarter data matching, and a metadata hub for merging and mapping data across sources.
- **Built-In Data Exploration and Visualization Tools:** Graph Studio allows users to explore and analyze all data onboarded, modeled, and blended into graphmarts. Users can export datasets for use with other desktop business intelligence (BI) or analytics tools through JDBC/ODBC or OData, which automatically accesses data in any BI tool.

Benefits

- **No Vendor Lock-In:** Built on open industry standards, such as RDF, OWL, SPARQL, OSGi, and more.
- **Overlay Architecture:** Designed to integrate with new and existing data science and advanced analytics ecosystems.
- **Enterprise Scale Graph:** Altair® Graph Lakehouse™, our MPP graph engine, allows for trillions of facts to be explored in real time.
- **Hybrid Cloud Architecture:** Kubernetes and OpenShift support for on-premises and cloud deployments.
- **All Enterprise Data Available for Analytics:** Catalog and integrate data from all enterprise sources – structured and unstructured data alike – in highly blended, analytics-ready datasets.
- **Identify Relationships in Data:** Identify relationships between individual data points across siloed sources and blend related data.

Graph Studio Is an Open, Effective Data Integration and Transformation Tool

End-to-End Transparency

Graph Studio gives users visibility into all data and activities across the end-to-end data discovery and integration process.

Graph Studio collects, creates and exposes metadata to help users understand and drive the data discovery and integration process on their own – without requiring assistance from IT experts.

Increased Self-Sufficiency

Altair's goal is to empower our customers along with their preferred solution partners to use Graph Studio to create their own high value blended analytic data sets.

We're always ready to assist clients as needed with a full range of training, support, and consulting and customization services.

Use Cases

- 360° customer view
- Accelerate research and development
- Fraud and insider threat detection
- Blending complex structured and unstructured data for large scale analytics
- Clinical trials and real-world evidence
- Unify data sources across the enterprise
- Integrated view of a complex business

About Altair RapidMiner

[Altair RapidMiner](#), our data analytics and AI platform, helps overcome challenges obstacles in your data journey. We offer a path to modernization for established teams and a path to automation for teams just getting started. Altair RapidMiner's enterprise-ready data science platform is scalable, secure, and features no-code, low-code, and full-code options to cater to users of all skill levels.