Stardog

ENTERPRISE KNOWLEDGE GRAPH

STARDOG UNION

FINANCIAL SERVICES

Global Regulations and Compliance

SR-14, GDPR, MiFID II, FSB2013b. Each new global regulation of banking and financial services demands unprecedented visibility into firm and market information, provision of data to regulators with little notice, and high legal stakes. Using Stardog to create a single, unified view of firmwide data, regardless of format, line of business, data velocity, or data type, is the first step to meeting these compliance challenges. Stardog's Enterprise Knowledge Graph offers the speed, data modeling, and detailed data lineage required to satisfy regulators at enterprise scale.

Anti-Money Laundering and Know Your Customer Programs

Today's financial services industry faces increasingly complex attacks on the integrity of clients and assets. Graph databases are a natural solution to mining the connections between the 'nodes and edges' of a complex financial network, but Stardog goes beyond plain graph database capability. With the Knowledge Graph, banks can use a single platform to gain a comprehensive view of firmwide parties and transactions and automate the recognition of potential fraud cases using integrated reasoning and machine learning.

Firmwide Data Management

Like many large enterprises, financial services firms struggle to gain consensus between lines of business that own data and IT as the data management organization. Stardog Knowledge Graph offers a functional metadata layer for managing all metadata, including the firm's reference data master and business glossary, while reconciling critical data elements and definitions with regulatory requirements and third-party market and risk data. What's unique about the Stardog approach is that the metadata solution is completely integrated with the Knowledge Graph, which streamlines and enables adoption of data internal standards and compliance.

WHY KNOWLEDGE GRAPH BEATS RELATIONAL IN FINANCIAL SERVICES

Virtual Graph Capability

Relational databases usually act as system of record. Stardog can query-in-place existing silos, that is, mixed and diverse databases, data sources, and data sets, to create a powerful virtual graph in real time, leaving data and domain schemas in place. This flexibility conveys huge speed-to-benefit advantage and slashes ETL and data migration costs.

Machine Learning

Stardog is the only platform that allows you to create, train, and update machine learning models at the level of the query language against live data silos rather than stale "training data" copies of copies. The Knowledge Graph also enables Stardog's machine learning capabilities to act over a virtual graph, with the benefit of data enriched by inference and logical reasoning. This solves one of the biggest problems of machine learning in the enterprise: speed. Data scientists can create curated datasets for training models faster, then train and query them immediately.

Semantic Reasoning

Stardog has the most advanced combination of graph data modeling, logical and statistical inference, and declarative rules integrated into the Knowledge Graph that can be found anywhere. That means that virtual graphs built in Stardog flow through a declarative model that enriches the data and makes implicit facts explicit. Being able to apply logical inference and rules at query time means that users can consume data through the lens of a subject matter expert's understanding and context.

Virtual Graphs

Query existing mixed and diverse databases, data sources, and data sets to create a powerful virtual graph in real time, leaving data and domain schemas in place. This flexibility conveys huge speed-to-benefit advantage and slashes ETL and data migration costs

Semantic Reasoning & Standards

Most advanced combination of logical reasoning, inference and rules integrated into the Knowledge Graph

Machine Learning

Create, train, and update models from Stardog's query language and solve one of the biggest problems of machine learning in the enterprise: speed

GraphQL

Load RDF and run GraphQL queries right away

Powerful Data Model

Supports a rich modeling language and user-defined rules

High Availability Cluster

Collection of server instances behave like a single instance for uninterrupted operations, redundancy and high query volume

BITES

Bring unstructured content in through external processors

CUSTOMER TESTIMONIALS

" Stardog is incredibly easy to use. I learned to launch the platform and begin integrating data sources **in a single day**. **FINRA**

—**Data Architect**

We onboard data from all of the bank's back office systems... and convert it to higher level models in the Stardog Knowledge Graph. It's like Google."

BNY MELLON

—**Senior Director/Architecture Fellow**

Download Stardog now and see what we can do for you: **stardog.com/#download**

Questions? Contact us: 1-202-408-8770 or sales@stardog.com