

Claims Risk and Diagnostic Coding Data

For large health care and insurance organizations, the accuracy of claims data about patient care exchanged with CMS and payers is mission critical. It's here that an insurer's data fabric most directly impacts bottom line revenue and the Knowledge Graph can improve this priority in two ways. First, the Knowledge Graph allows reporting and analytics teams to query across lines of business and markets in real time. Second, the Knowledge Graph allows providers to more quickly adopt the newest data and diagnostic code standards at query time without costly data migration efforts to modernize classification from older IDC coding to current versions. This means better coding and decreased claims risk for providers.

Patient and Population Knowledge Graph

Large HMOs already have substantial data assets around patient populations, clinical history, and claims. Using a Knowledge Graph platform to model everything the organization knows about the patient, the population, and morbidity creates massive competitive advantage. It also leads to improved understanding of comorbidity in patients, clinical decision support, and next best actions for providers and streamlined experience at the point of care – whether in telehealth or in the exam room. The result of building the patient knowledge graph is improved patient satisfaction and reduced readmission—the future state of data-driven healthcare.

Enterprise Knowledge Graph Services

Like any large enterprise, healthcare providers face IT and systems challenges that arise from data silos. To provide uninterrupted services and care requires a world-class understanding of equipment, users, and network assets. IT needs to understand dependencies and vulnerability in the infrastructure and critical business processes, and the Knowledge Graph makes this as easy as writing a single query. Creating a single point of data access for analysis, applications, and machine learning with the Knowledge Graph is a best practice that Stardog uniquely enables in a single platform.

WHY KNOWLEDGE GRAPH BEATS RELATIONAL IN HEALTHCARE AND INSURANCE PROVIDERS

Virtual Graph Capability

RDBMS often act as systems of record. Stardog can query existing silos in place, including 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, which conveys huge speed-to-benefit advantage and slashes ETL and data migration costs.

Machine Learning

Stardog is the only platform that lets you to create, train, and update machine learning models at the level of graph query language against live data silos rather than stale “training data” or copies of copies. This enables Stardog's machine learning capabilities to act over a virtual graph, with the benefit of data enriched by inference and logical reasoning. So Stardog 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. And all of that is deeply integrated in the Knowledge Graph. 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.

—Data Architect, Global 2000 Insurance Provider

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

—Senior Director, Fortune 500 Healthcare Provider