

7 Problems
uniquely solved by
OpenLink Virtuoso

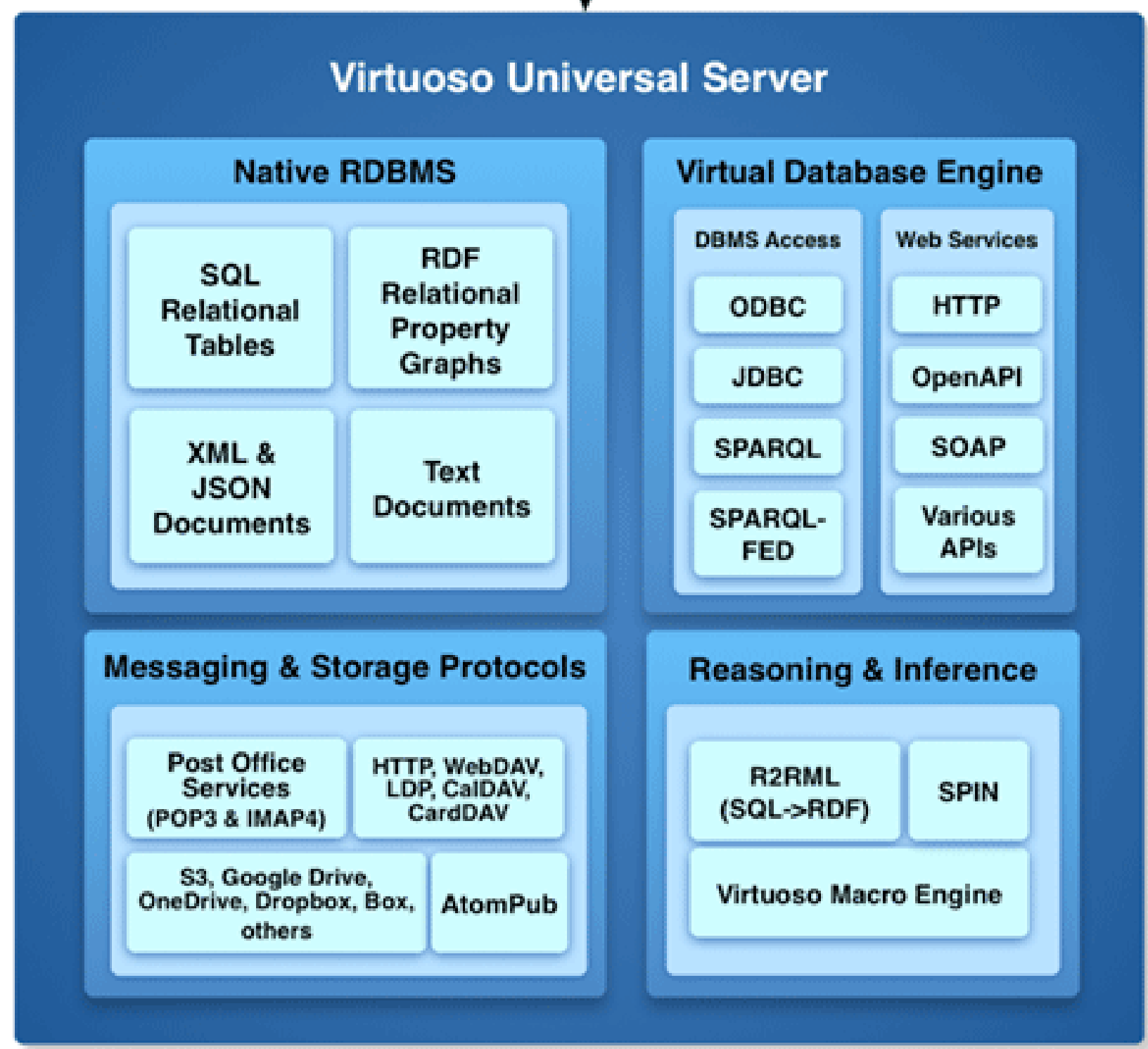
A stylized illustration of a person with dark hair and a beard, wearing a purple long-sleeved shirt, looking towards a network graph. The graph consists of several blue circles of varying sizes connected by thin lines, set against a blue background.

Virtuoso unleashes the power and promise of:

- Conversational Agents when loosely coupled with Knowledge Graphs.
- Knowledge Graphs deployed using Linked Data Principles.
- Semantic Layering over Data represented as Tables or Graphs, accessible via HTTP, ODBC, or JDBC.

HTTP,
 WebDAV,
 XMLA,
 SPARQL,

ODBC,
 JDBC,
 ADO.NET,
 OLE DB

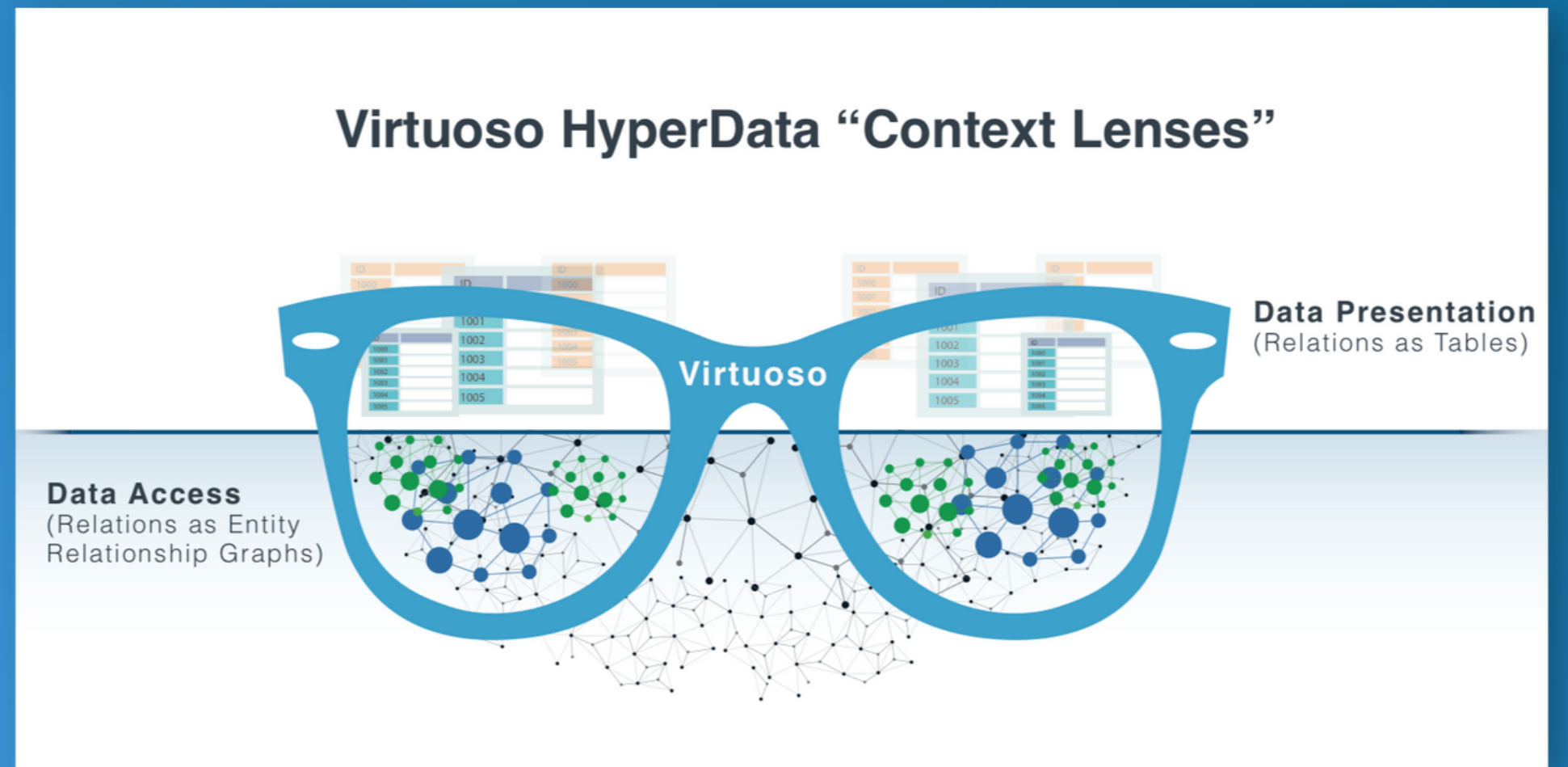


Only Virtuoso lets you fully utilize —

- Multi-Model data interactions using SQL, SPARQL, or GraphQL over line-of-business data sources
- Conceptual Integration of Data from Disparate Data Sources via a Semantic Layer
- Open standards such as HTTP, ODBC, or JDBC, for loosely-coupled Data Access between front-end Applications and DBMS back-ends
- Data Security using fine-grained Attribute-based Access Controls (ABAC), at Web and Internet scales
- Faceted Search & Browsing at Web-scale
- Reasoning & Inference at Web-scale

Powerful Multi-Model Data Access, Integration, and Management

By supporting Declarative
Data Definition and Data
Manipulation operations
scoped to Tables and/or
RDF Graphs.



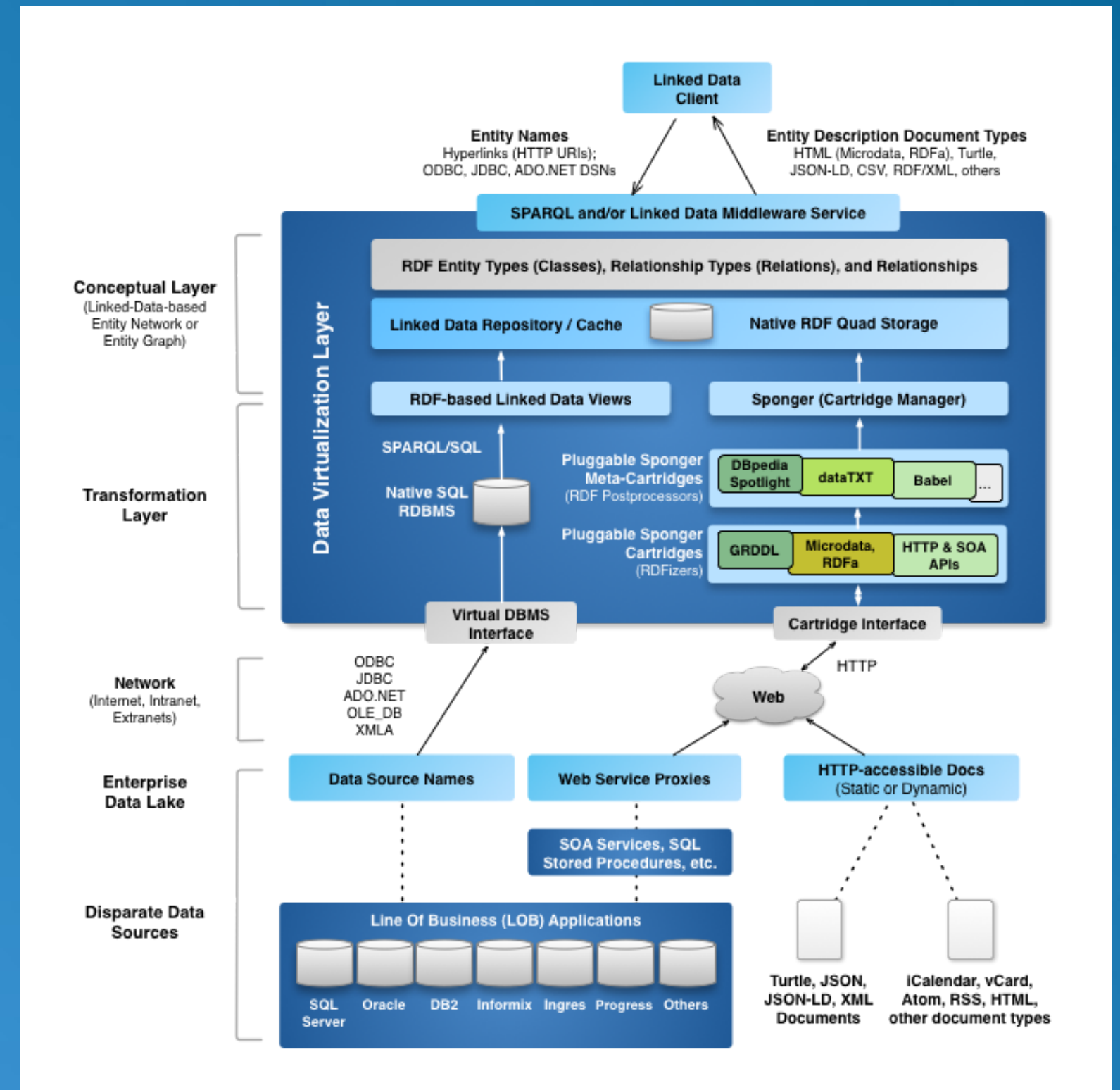
Conceptually Integrate Data from Disparate Data Sources

Use Conceptual Data Virtualization to blend data from different databases with SQL and/or SPARQL as the basis for predefined query templates that aid hallucination minimization in AI-based Smart Agents (Assistants & CoPilots).



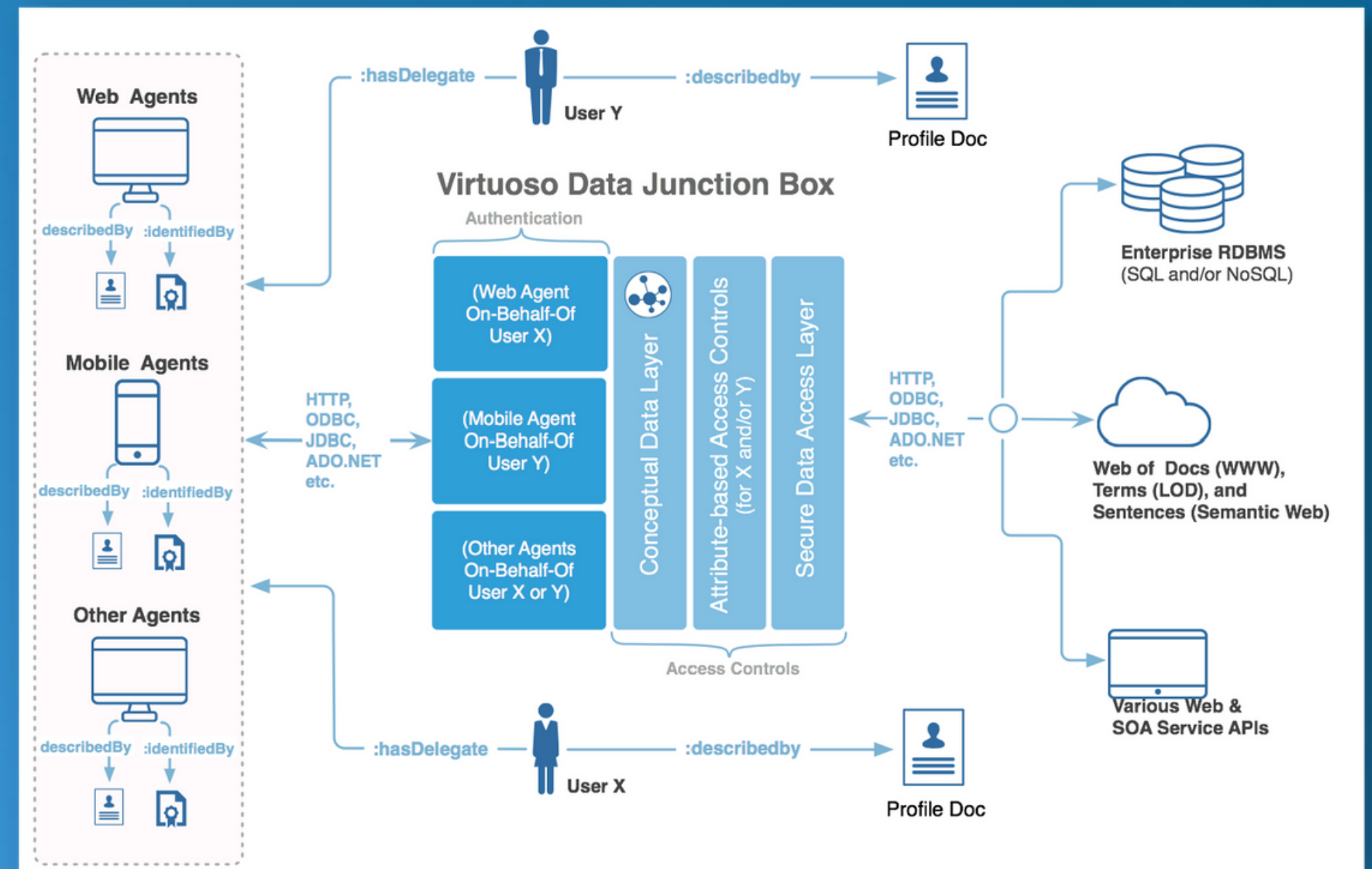
Use ODBC, JDBC, ADO.NET, and/or OLE DB connections from existing Applications and Services

Access local and public remote Knowledge Graphs across private data silos or across the massive Linked Open Data Cloud comprising reference data sources like of DBpedia, Wikidata, and many more.



User Controlled Identity Authenticity

Use Profile oriented Knowledge Graphs to inform Data Access Policies in the form of Attribute-based Access Controls (ABAC), rather than Role-based Access Controls (RBAC).



Employ Faceted Search & Browsing, at Web-Scale

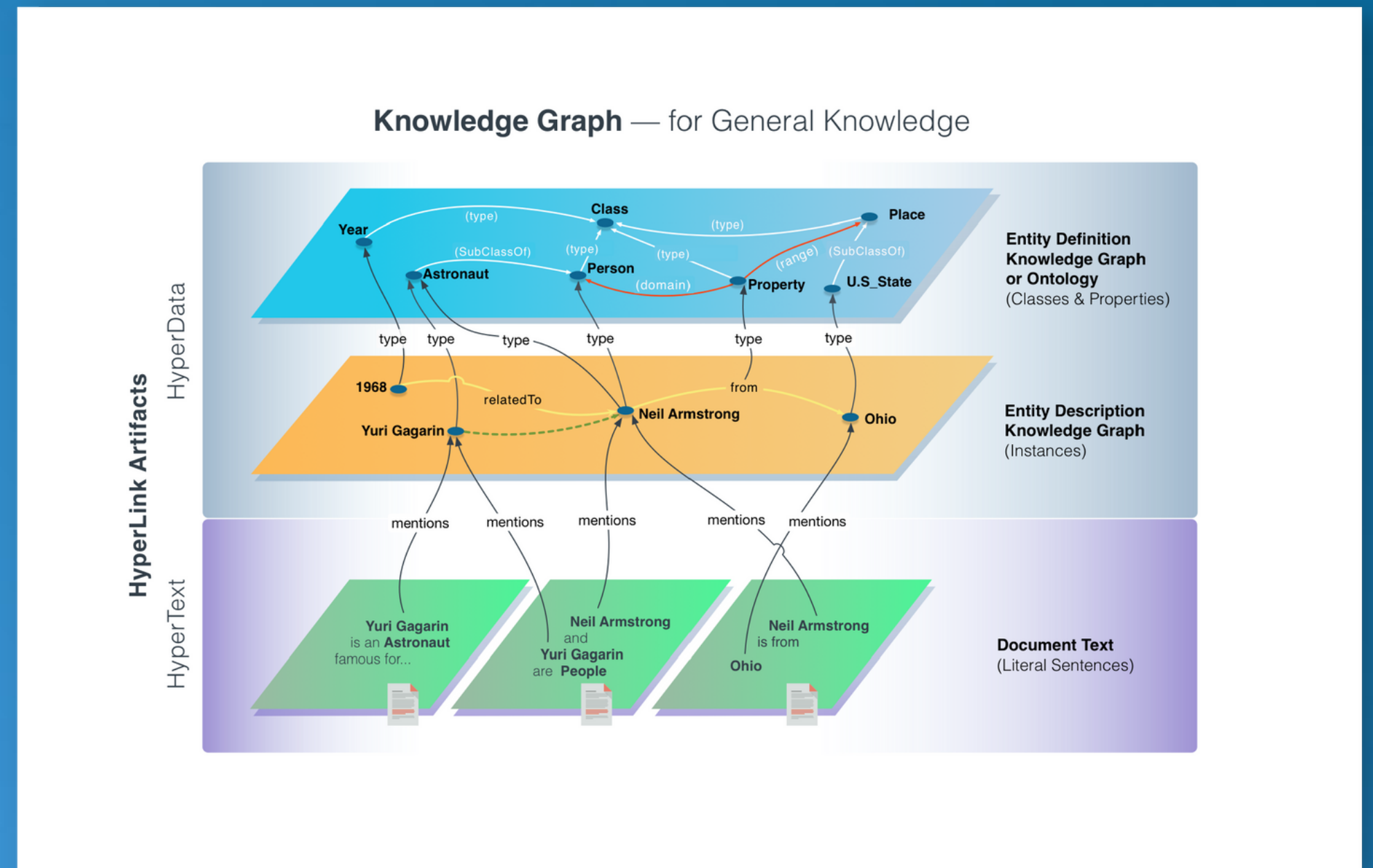
Utilize high-performance and scalable Faceted Search and Browsing over Knowledge Graphs that are constructed progressively, as you explore.

The screenshot displays the OpenLink Virtuoso Faceted Search & Find service interface. At the top, three callout boxes provide context: 'Attributes of Entity (Each Identified by a HyperLink [HTTP URI])', 'Entity Described by this Document (Identified by a HyperLink [HTTP URI])', and 'Values of Entity Attribute (Each Identified by a HyperLink [HTTP URI] or Literal)'. The main content area shows a detailed view of an entity, including its type, URI, and various attributes such as 'mentions', 'alternate', 'has related', 'described by', 'creator', 'description', and 'links to'. The interface also features a faceted search bar, navigation controls, and footer information about the service version and hardware specifications.

Attributes	Values
Type	CreativeWork
sameAs	http://www.wired.co.uk/article/the-web-s-greatest-minds-on-how-to-fix-it#this
about	The RDF Concepts Vocabulary (RDF) Schema.org vocabulary WIRED UK http://www.wired.co.uk/article/the-web-s-greatest-minds-on-how-to-fix-it http://www.wired.co.uk/article/the-web-s-greatest-minds-on-how-to-fix-it/DataCreation#this
mentions	Culture arts&crafts science Software United Kingdom #this
alternate	http://www.wired.co.uk/usa/article
has related	[data:text=Tim Berners-Lee] [data:text=Jimmy Wales] [data:text=Wendy Hall] [data:text=WIRED (magazine)] [data:text=Internet] #this
described by	http://www.wired.co.uk/article/the-web-s-greatest-minds-on-how-to-fix-it
creator	WIRED
description	Tim Berners-Lee, Jimmy Wales, Wendy Hall and more on how we can reset the net
Title	The web's greatest minds explain how we can fix the internet WIRED UK
links to	http://www.condenast.co.uk/privacy/ http://www.wired.co.uk/about-us http://www.wired.co.uk/contact-us http://www.wired.co.uk/newsletters http://www.wired.co.uk/podcasts #this

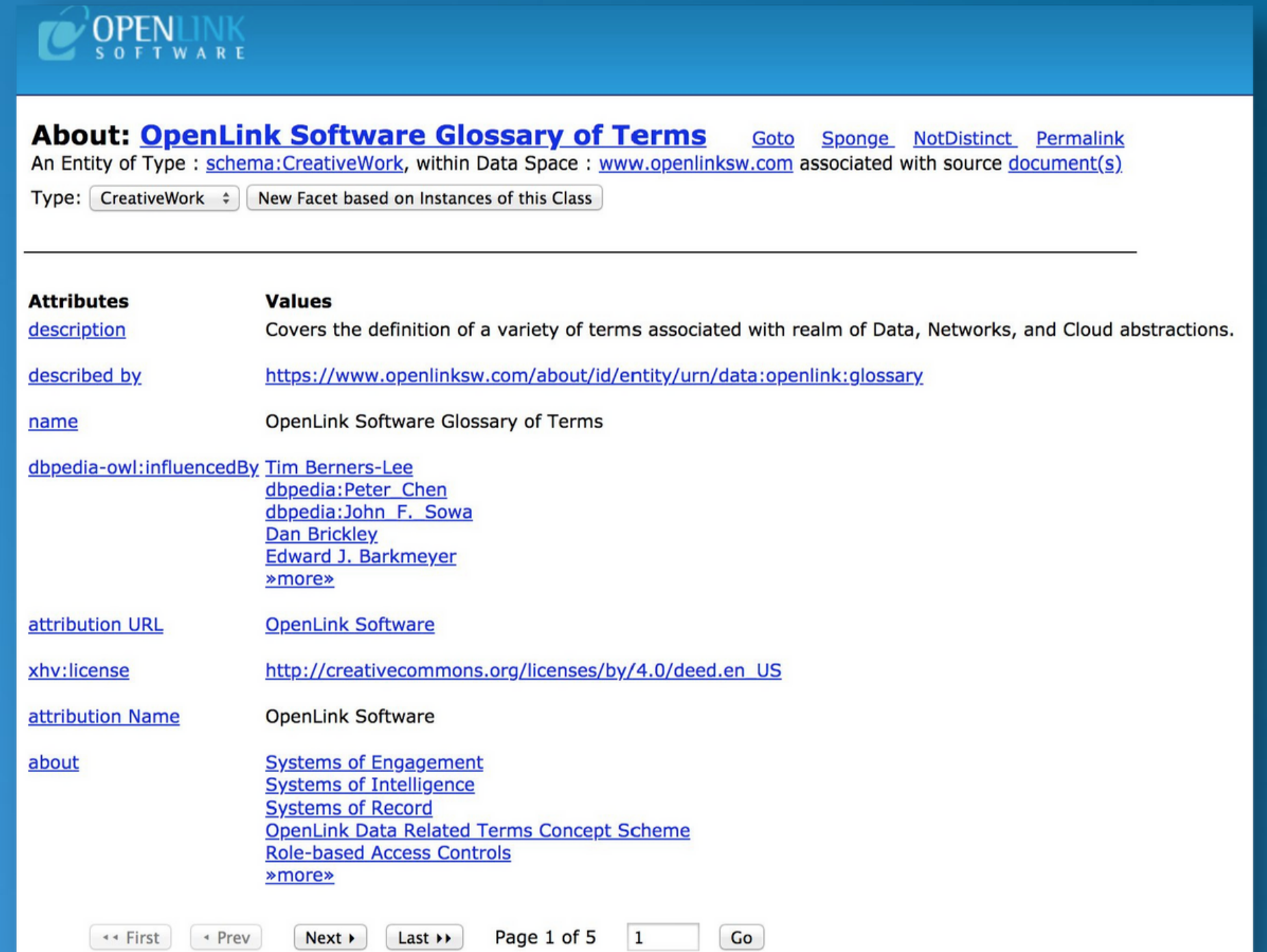
Gain Insight through Reasoning & Inference, at Web-Scale

Use Ontologies to inform high-performance and scalable reasoning and inference.



Build Glossaries

Build powerful glossaries of terminology that leverage Linked Data principles for easy look-ups and cross-referencing — enabling enhanced sharing of information and knowledge.



The screenshot shows the OpenLink Software Glossary of Terms page. At the top, the OpenLink Software logo is visible. Below it, the page title is "About: OpenLink Software Glossary of Terms" with navigation links for "Goto", "Sponge", "NotDistinct", and "Permalink". The page content includes a description of the glossary as an entity of type `schema:CreativeWork` within the data space `www.openlinksw.com`. A table lists various attributes and their values, such as "description", "described by", "name", "dbpedia-owl:influencedBy", "attribution URL", "xhv:license", "attribution Name", and "about". The "about" attribute lists several related systems and schemes. At the bottom, there are navigation controls for "First", "Prev", "Next", "Last", and "Page 1 of 5".

Attributes

Attributes	Values
description	Covers the definition of a variety of terms associated with realm of Data, Networks, and Cloud abstractions.
described by	https://www.openlinksw.com/about/id/entity/urn/data:openlink:glossary
name	OpenLink Software Glossary of Terms
dbpedia-owl:influencedBy	Tim Berners-Lee dbpedia:Peter Chen dbpedia:John F. Sowa Dan Brickley Edward J. Barkmeyer »more»
attribution URL	OpenLink Software
xhv:license	http://creativecommons.org/licenses/by/4.0/deed.en_US
attribution Name	OpenLink Software
about	Systems of Engagement Systems of Intelligence Systems of Record OpenLink Data Related Terms Concept Scheme Role-based Access Controls »more»

Navigation: << First < Prev Next >> Last Page 1 of 5 1 Go

HOW DO I GET GOING?

- **On Premise** — get installer and 30-day Free Evaluation licenses from our [Download Site](#)
- **Docker Container** — get various containers from [Docker Hub](#)
- **Cloud** — launch Bring-Your-Own License (BYOL) or Pay-As-You-Go (PAGO) instances in the [Amazon Web Services \(AWS\)](#), or [Microsoft Azure Clouds](#)



ADDITIONAL INFORMATION

- [Virtuoso Home Page](#)
- [Virtuoso Weblog](#)
- [Virtuoso Community Forum](#)

