



MIMOS Semantic Technology Platform (Mi-Semantic)

Semantic platforms currently available in the market consist of proprietary systems that often result in long software development schedules and developing programs from scratch in creating integrated information systems. MIMOS Mi-Semantic is a software platform for the development of semantic applications via modular and web service-based components.

Overview

MIMOS Mi-Semantic aims to connect intelligence through federated knowledge. All components in this platform are modular, web service-enabled and Service-Oriented Architecture (SOA) compliant.

This enables a high level of scalability and performance, lending its ability to solve complex problems via interaction between the semantic components and knowledge bases.

Features

Mi-Semantic comprises the following features:

■ Structured Development Platform

Structured with platform components, client applications and support tools; developers can intuitively create semantic solutions.

■ Reliable and Scalable Components

Mi-Semantic provides an infrastructure that is flexible and supports semantic feature add-ons with semantic components that produce consistent results.

■ Adopts Open Web Standards

Designed according to SOA and W3C standards, Mi-Semantic makes interoperability of the final web solution integratable with other semantic solutions and the Linked Open Data Semantic Cloud.

Technology Benefits

The main impacts of Mi-Semantic are:

■ Enhanced Education Management

Vertical applications to track student learning performance can be built using the Semantic Assessment Engine and the Semantic Profiling Engine from Mi-Semantic.

■ Streamlined Healthcare/Life Sciences Management

Medical records of patients, disease databases, clinical and medical forensics, and new medical discoveries can be structurally organised for future data entry, search and archiving.

■ Optimised Risk Management

Finance sectors can use Mi-Semantic in their risk portfolio system for better-informed decisions based on linked knowledge bases. The analysis and extraction of valuable hidden information from unstructured web data creates intelligence. Social Network Analytics provides the ability to navigate, analyse and visualise the social network.

■ Intelligent Manufacturing

In electronics manufacturing, data such as yield, failure, reliability and customer return can be processed in one unified system to help pinpoint root causes and address issues.

■ Enterprise Data, Content and Asset Management

Enterprises can intelligently monitor data and related content across multiple knowledge base sources using various dashboards to facilitate systematic, easier benchmarking and measurement of performance indicators.

Technology Summary

Mi-Semantic

An SOA-based semantic technology platform that supports the development of various kinds of intelligent applications that interface via the W3C web service standard.

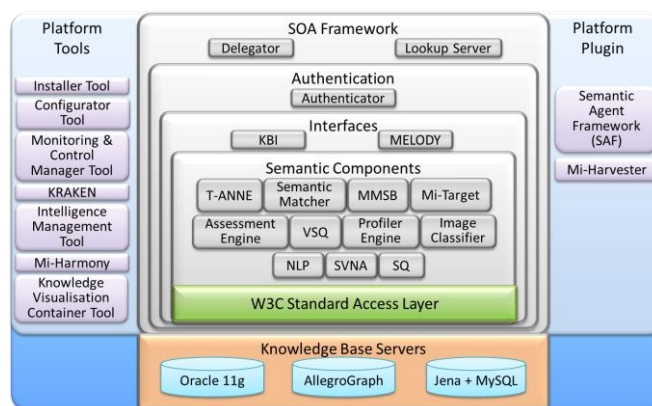
Industries: Government, Education, Enterprise, Agriculture

Features

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- Reliable and scalable components
- Adopts open web standards

Technology Benefits

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- Streamlined healthcare/life sciences management
- Optimised risk management
- Intelligent manufacturing
- Enterprise data, content and asset management



MIMOS Mi-Semantic system architecture

System Requirements

Mi-Semantic	
Hardware Requirements	
Processor	Intel® Xeon Dual Quad-Core, 3.6GHz
Memory	Minimum 32GB of memory
Disk Storage	Minimum 80GB of hard disk space
Software Requirements	
Operating System	Windows® 2008 Server 64-bit; or Linux™ CentOS 5.x x64
Programming	Java™ SE 6, 64-bit version (Update 25) or above
Web Server	Apache 2.2 as Load Balancer, Apache Tomcat 6.0.32 or above
Ontology Editor	TopBraid Composer
Knowledge Base Server	AllegroGraph® Server or MySQL® + Jena Framework for RDF

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