Progress® Semaphore™

Semaphore

Make Sense of Your Data with the Power of Semantics

Encoding What We Know About Data

To achieve success in digital transformation, organizations are going beyond simply integrating existing data. Instead, they're enriching it to make it more complete – make it better, more consumable and more trustworthy. Progress® Semaphore™ excels in helping organizations achieve this by providing contextual, high quality, integrated and more operational metadata to downstream systems to drive customer experience, product innovation, trusted intelligence and support for AI initiatives.

Bringing Data Closer to People

Semaphore is a semantic AI platform that allows organizations to maximize the value from their information, and address data problems like language ambiguity, vocabulary gaps and data silos.

- **See all your data in context and discover unknowns.** Semantically enrich and contextualize data to its business use-case and its intended audience to uncover hidden insights and gain better understanding of your unstructured data.

- **Extract value from complex information.** Automatically extract meaning from your structured and semi-structured assets, like document types, document locations, retention policies and other relevant facts from each information asset.

- **Create a 360-degree view of enterprise information.** Apply standard metadata that aggregates and links disparate data sources to provide a complete picture of enterprise information; organizations can make informed key decisions and drive personalized experiences and recommendations.

- **Drive relevant search and discover across complex data.** Leverage model and metadata information to deliver a compelling search and retrieval experience. Integrate with major search engines to find, discover, analyze and govern content.

- **Leverage your data for generative AI.** Provide long-term model-independent semantic memory for generative AI systems, providing context, meaning and insight into the data used by AI while improving and contextualizing results.
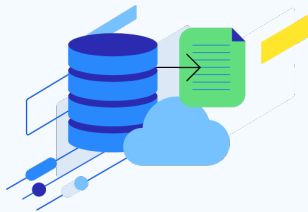
Modular Semantic AI Platform

Semaphore is a collection of business analysis and data science tools that create automated workflows within your data architecture that augment, extend and manage enterprise knowledge (concepts, terminology, reference data, taxonomies, ontologies, etc.) to eliminate information silos and provide an authoritative knowledge base. Adding Semaphore to your digital ecosystem provides a semantic layer that works with the full breadth of organizational data, captures and enhances that data with semantic relationships and metadata to transform your information into meaningful, actionable intelligence.
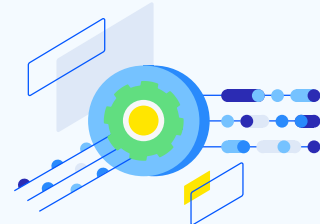
Knowledge Model Management
Build and manage semantic knowledge models.

Classification and Language Services
Enrich text, extract data and apply meaning to hidden information - giving you context.

Semantic Integration Services
Apply semantics to existing systems and use visualization tools.

Why Semaphore

Visionary organizations turn to Semaphore to solve problems faster and achieve more with their information. With Semaphore, organizations get an enterprise scalable, business-oriented and feature-rich solution that allows them to generate and apply knowledge rapidly and accurately. It's a collaborative semantic middleware product, where various stakeholders participate in model development to enhance buy-in from subject matter experts.

- **Unlimited support for knowledge models** – Concepts, labels, relationships, languages and users can be quickly added.

- **Collaborative solution** – Empower subject matter experts to enrich enterprise knowledge without the time and cost of machine-learning techniques.

- **Scalable** – Expand the platform as needs and data volumes evolve, with development, business and enterprise adoption models.

- **Easy to use** – Onboard new users quickly with web-based, feature-rich software that supports model development processes.

- **Ease of connection** – Integrate with existing data sources, repositories, applications and workflows. Out-of-the-box integrations with standard industry software and integration tool kits.

Trusted Enterprise Capabilities

Embracing semantics not only enhances the quality and reliability of decision making but also positions organizations to thrive in an era where agility and data-driven insights are fundamental for success.

- **Knowledge modeling**. Leverages knowledge organization systems like ontologies, taxonomies, business glossaries, controlled vocabularies and reference data, to create knowledge models and harmonize enterprise subject matter expertise and business language. This allows organizations to create a centralized source of truth used across systems, applications and business users to make intelligent decisions.

- **Model governance.** Task-centric model development that drives workflow and lifecycle management to improve feedback loops.

- **Support for linked data.** Incorporates reference information from linked data sources (industry, internal and subject models) to rapidly enrich managed models and accelerate time to value.

- **Classification quality.** Scales to classify multiple millions of digital assets per day. Auto-generates rules for use with algorithms based on semantic models to classify digital assets and derive metadata values associated with structured and unstructured data – internal and external to the enterprise.

- **Fact extraction precision.** Provides text mining, entity identification and extraction capabilities based on AI, NLP and ML in a cooperative approach between human supplied knowledge and software to extract valuable pieces of information in a precise and consistent manner. As a result, it creates enriched metadata that incorporates hidden facts and relationships.

- **Repeatable and compliant outcomes.** Classification outcomes are reproducible for a point in time, and classification on a single asset using the same model and rule-based result in the same outcome.

- **Data trust.** Subject matter experts review and control approvals of model and classification enrichment as well as have the ability to transparently trace evidence, which results in explainable and trustworthy outcomes.

- **Flexible deployment.** Run Semaphore wherever you want, whether in the cloud, on-premises, on-demand or in a hybrid environment. Supports your technical enterprise architecture, regardless of organizational size or type.

Make sense of your data and power new opportunities www.progress.com/semaphore

About Progress

Progress (Nasdaq: PRGS) provides software that enables organizations to develop and deploy their mission-critical applications and experiences, as well as effectively manage their data platforms, cloud and IT infrastructure.

As an experienced, trusted provider, we make the lives of technology professionals easier. Over 4 million developers and technologists at hundreds of thousands of enterprises depend on Progress. Learn more at www.progress.com

Worldwide Headquarters

f facebook.com/progresssw
X twitter.com/progresssw
▶ youtube.com/progresssw
in linkedin.com/company/progress-software
◉ progress_sw_

Progress