From Science to Solutions™

Semantic Services-Oriented Architecture

Dynamic, Reconfigurable Service-Oriented Intelligence Architecture

Time-critical missions demand that warfighters and analysts effectively employ all the tools at their disposal. SAIC's Semantic Services-Oriented Architecture (SSOA) provides a malleable, event-driven framework that enables users to transcend technology-related tasks and focus on operations.

SSOA transforms current tradecrafts from human-centric, manually intensive processes into automated, adaptive and intelligent processes. It presents a viable approach for real- or near-real-time capability sharing and collaboration that compresses the decision cycle. Users themselves become resources on the network.

SSOA is based on the premise that every application is composed of loosely coupled, reusable elements. Using system definition documents (SDD), SSOA can combine and recombine these elements—dynamically and automatically—to form services, systems and applications. This approach means that SSOA is:

- Self-assembling
- Self-healing
- Self-managing
- Self-scaling
- Self-auditing.

SSOA enables systems architects and users to rapidly assemble business services from libraries of in-house or approved third-party software components. Users can manage all systems and applications simply by modifying the relevant SDD, which eliminates the need for expensive discovery, configuration, audit and management tools.

SSOA sustains and adapts to arbitrary resource failures and other unscheduled environmental changes without catastrophic disruption to operations. It also protects running applications by taking advantage of underused or new resources and mitigating the damage caused by lost resources.

Timely intelligence is an essential tool for warfighters and analysts. With SSOA, SAIC can help intelligence users generate, use and share crucial information. Contact us today to learn more.

Capabilities:

- Secure, highly scalable integration framework for systems, agents, applications, models and simulations, etc.
- Automatic, dynamic service creation and reconfiguration
- Self-healing to prevent interruption of mission-critical operations
- Aggregation and correlation of large, disparate data sets
- Real-time and near-real-time collaboration
- Semantic service indexing for automatic reconfiguration
- Automatic data relation from multiple sources

For more information, contact:

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