

The Power of Semantic Technology for Expressing and Utilizing Enterprise Architecture

TopQuadrant offers a one and a half days workshop to provide a broad overview of how semantic technologies can be used for enterprise architecture capture and decision support. The program covers topical semantic technology areas and emphasizes interactive participation and hands-on exercises. The course combines an overview of the Semantic Technology and Enterprise Architecture with an in-depth introduction to its underlying languages and models.

Enterprise Architecture

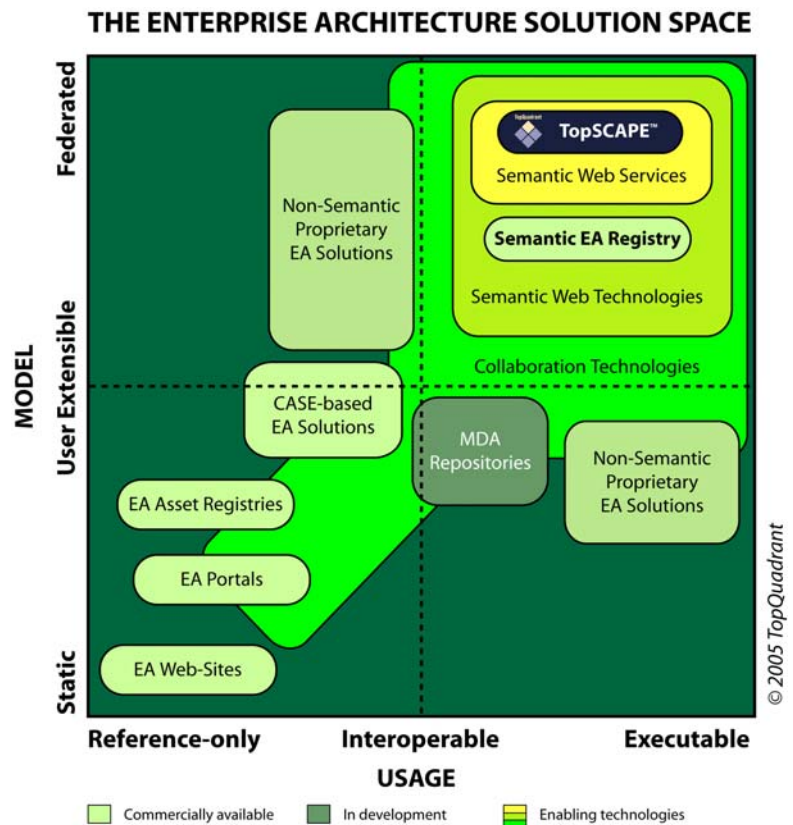
Enterprise architecture (EA) captures “*what is happening*” in the enterprise. How the enterprises’ activities, processes, capabilities, systems and components, information resources and technologies relate to the enterprise’s mission, goals and measurement system.

Why Semantic Technology for Enterprise Architecture

The acquisition and aggregation of EA knowledge requires a representation that is both, semantically rich and unambiguous. Until now EA repositories (and case tools) have used ‘*home-grown*’ approaches to knowledge representation. In addition to being proprietary, these approaches have a number of other shortcomings. Although capable of capturing complex conceptualizations, current versions are far from being semantically rich. They lack formal semantics. As the result, a standard model from such a language, no matter how perfect, can still be open to any number of interpretations and inconsistent use.

The figure opposite shows the EA solution space from the perspectives of modeling (flexibility and extensibility) and usage. The lighter color indicates systems currently available while the darker color identifies systems that are still in the early stages of development.

With the advent of standard languages for web-based knowledge representation, Semantic Web languages can be used to express enterprise architecture. They bring a key advantage in improving the ability to govern, manage and use IT resources by bringing together and analyzing diverse models and enterprise information sources.





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"Semantic Integration for Enterprise Architecture"		
<i>One and a half days of tutorials and workshops</i>		
Day 1 AM	Overview of Semantic Technologies, Enterprise Architecture, Collaborative Technologies, Semantic Integration and Interoperability	\$5,000
Day 1 PM	Using Semantic Standards, Languages and Tools for Semantic Interoperability and Enterprise Architecture in your enterprise, putting EA Models to work,	
Day 2 AM	Business Capability Exploration, Solution Capability Envisioning, Readiness and Next Steps	

Who Should Attend

The content is suitable for business managers, technical managers, and architects of the information, solution, system and data kind, taxonomists and enterprise ontologists.

Skills and Knowledge Gained

- Understand Enterprise Architectures in relationship with FEA-RMO and DoDAF ontologies
- Appreciate differences between object modeling and ontology modeling
- Explore interoperability strategies between case tools and ontologies
- Understand Semantic Capabilities: Application Areas, Business Value, Success Stories
- Learn and use semantic web languages
- Experience approaches for merging and integrating ontologies
- Create an OWL ontology using development tools: Protégé 2000, SWOOP, TopBraid™
- Understand how inferred statements are generated by reasoners
- Learn about W3C standards: OWL-S (Semantic Web Services) and SWRL (Rules)

About the Series Designers and Instructors

TopQuadrant provides a full range of Semantic Web Solution services expertise and tools to support customer needs throughout the Semantic Solution Lifecycle--from concept to deployment. Our Federal Solutions Practice has in depth experience with the Federal Enterprise Architecture and develops solutions based on the FEA Ontology Models. We maintain a constant watch on semantic technology products, vendors and standards to support our semantic technology projects with practical evaluations of the current state of practice combined with a strategic view of the role and value these technologies. In addition to our semantic services and trainings, other activities and offerings are: Semantic application discovery and requirements services with *Solution Envisioning with Capability Cases*; *TopConnexion* semantic technology market-making consortium; *TopDrawer™* semantic web research & analysis.

Contact us at 724-846-9300 or workshops@topquadrant.com for more information