

Topic: Semantics

Overview

Technologies developed for the Semantic Web can be an important part of a product development or IT strategy. This OnePager will provide a brief overview of semantic technologies.

What are Semantics?

- Techniques and technologies to represent and compute with meanings rather than words
 - Inferencing is used to make implicit knowledge explicit
- The data model for the Semantic Web is RDF (Resource Description Framework).
- The language for encoding the semantics of a domain is OWL (Web Ontology Language).

Why use Semantics?

- Ensure meaning-based consistency within and across systems
 - Encode knowledge and rules in data rather than code
 - Allow distributed databases with RDF
 - Discover hidden knowledge with inferencing
- Through ontology matching, data encoded for use in one domain can be made accessible to other domains.

How to Get Started?

- Review existing data structures for potential for encoding in OWL
 - Consult with experts
 - Identify where semantics-enabled technologies need to be introduced
 - Identify all objectives
- Archaeology and Anthropology: dig through the ruins and talk to the natives.
- Like all significant development and IT projects, executive sponsorship is a must.

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