

Opportunities for Semantics Web Services in Service Oriented Architectures

Dr. Michael L. Brodie

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Dr. Michael L. Brodie is Chief Scientist of Verizon IT. He works on large-scale strategic Information Technology (IT) challenges for Verizon Communications Corporation's senior executives. His primary interest is in the optimal use of IT, with an emphasis on emerging and advanced technologies and practices, to enable organizational and business objectives, including organizational change. In addition to Computer Science he investigates the relationships between economics, business, and technology, and computing-communications convergence.

Abstract

The 1999 inception of Web Services and Service-Oriented Architectures (SOA) marked the beginning of a decade movement to the Next Generation of Computing that directly supports integration. In 2005, the halfway point, many vendors will release SOA infrastructure and development products, in turn launching one of the steepest migration and learning curves in the history of IT. Still in its infancy, Service-Oriented Computing has much evolution ahead with many challenges and opportunities demanding innovative solutions.

While the services concept is three-plus decades old, today's SOA technology is addressing many limitations of its predecessors including lightweight, loose coupling, internet-wide remote invocation, implementation-neutral interfaces, and the potential of composable services to achieve reuse and ease of integration. As with the predecessors, advances focus on plumbing – engineering integration - and not on semantic integration based on machine understanding of services that remains one of the largest challenges to achieving the level of automation required by the forthcoming explosion of services.

This talk presents an industry view of the potential role of Semantic Web Services (SWS) in future SOAs. We will review the current state of SOA technology products and practice, including a Very Large SOA in production for two years; and the current reality that differs significantly from the original vision (e.g., dynamic discovery, orchestration, and execution). Guided by previous attempts to address industry challenges with semantics, this talk proposes key aspects of SOA technology that SWS must address.

Outline

- 1 What Semantic Web Services Might Do for SOA
- 2 Services and SOA In Industry
- 3 VLSOA in Practice at Verizon
- 4 SWS Opportunities in SOA
- 5 Conclusions

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To: kinoshita@ae.keio.ac.jp

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