

Illuminating the Dark Side of Web Services

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Context

- What the analysts said:
 - “Web Services are projected as being in mainstream usage within enterprises by 2002 and between enterprises in 2003-04.” [Gartner, Jan. 2001].
 - “By 2005, 50% of all transaction delivery networks and EDI value-added networks will implement Web Services and thus will become Web Service networks.” [Gartner, 2002]
 - “Web Services foreshadow the next big thing for the Internet: a network of things, not people. By 2006, the bulk of the Internet’s traffic will be digital chatter between software, not e-mail or Web pages aimed at human users.” [Forrester, Nov. 2002]
- What is the reality? Are the predictions coming to pass, or were the analysts way off base?
 - What is the state of the art in Web Services standards and technologies?
 - Are there large-scale deployments? What is the prognosis for large scale deployment?
 - What research challenges exist? What deployment/adoption challenges exist?
Composition? Management? Persistent data? Transactional properties?
Business processes/workflow? Semantics? Optimization? Security?