

Improve Reuse and Control Rogue Services within SOA

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What are Web Services?

- Standards-based interfaces to software functionality
- Represented by a *contract*
- Not all Services are Web Services
- Services should be composable & reusable
- *Web Services are not SOA*



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What is SOA?

- SOA is *architecture* – a set of best practices for the organization and use of IT
- Abstracts software functionality as loosely-coupled, business-oriented *Services*
- Services can be composed into *business processes* (which are also *Services*) in a declarative manner



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SOA Starting Point?

*Put Service wrappers
around existing applications*



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Surfeit of Services

- Pros:
 - Services reduce cost of integration
 - Improve business agility
- Cons:
 - May not be reusable
 - May be redundant
 - Hard to manage
 - May proliferate in an ungoverned manner



Rise of Rogue Services

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SOA Missing Link: Architecture

Create architectural plan & detailed design

- Provides agility, reuse, & flexibility
- Metadata-enabled Modeling & Governance framework prevents rogue Services



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Bottom-Up or Top-Down?

- Bottom-up alone:
 - Redundancy
 - Rogue Services
- Top-down alone:
 - May not be implementable
 - Difficult to budget



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SOA *Must* be Both

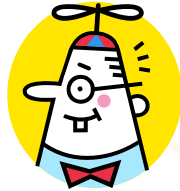
- Develop the vision (but not the details) ahead of time
- Decompose some processes to identify target coarse & fine-grained Services
- Build modest set of Services
- Compose applications to enable flexible processes
- Refine architectural plan
- Repeat

SOA should be iterative

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Bring Together Different Mindsets



- Developer Mindset: “Bottom-Up”
 - Everything is a Service or an Interface
 - Goal: connect Services
 - Method: Use objects and App Servers
 - Problem: Too many things to connect, manage & maintain



- Business Mindset: “Top-Down”
 - Everything is a Process
 - Goal: Run business efficiently by managing processes; achieve agility & visibility
 - Method: Use diagrams and flowcharts
 - Problem: How can you turn “shelf-ware” into software? How do I remove the IT bottleneck?

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SOA Pilots

- A few high ROI Services
- Build acceptance for SOA
- Get team up to speed
- Work out the kinks
- Pilot the governance model
- Part of an iterative approach to SOA



DANGER! Avoid the SOA Pilot Pitfall

- Piloting only the *Services* instead of the *architecture*
- Remember, the pilot is one step on the roadmap

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Leverage Service Contracts



- Decompose existing processes to identify reusable Services
- Define Service contracts as metadata that specify required functionality to IT and provided functionality to the business
- Represent the clearinghouse for information about IT environment
- Contracts go beyond WSDL:
 - Usage policies
 - Security policies
 - Consumer delivery contracts
 - Service-level agreements, etc.

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Enable Service Domains

- A *Service Domain* is a logical grouping of shared Services with a common *business context*
- Examples: customer-facing Services, purchasing-related Services
- Manage Services by managing the Domains
- Move away from traditional IT silos



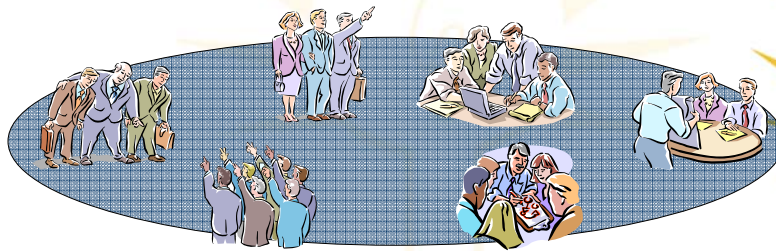
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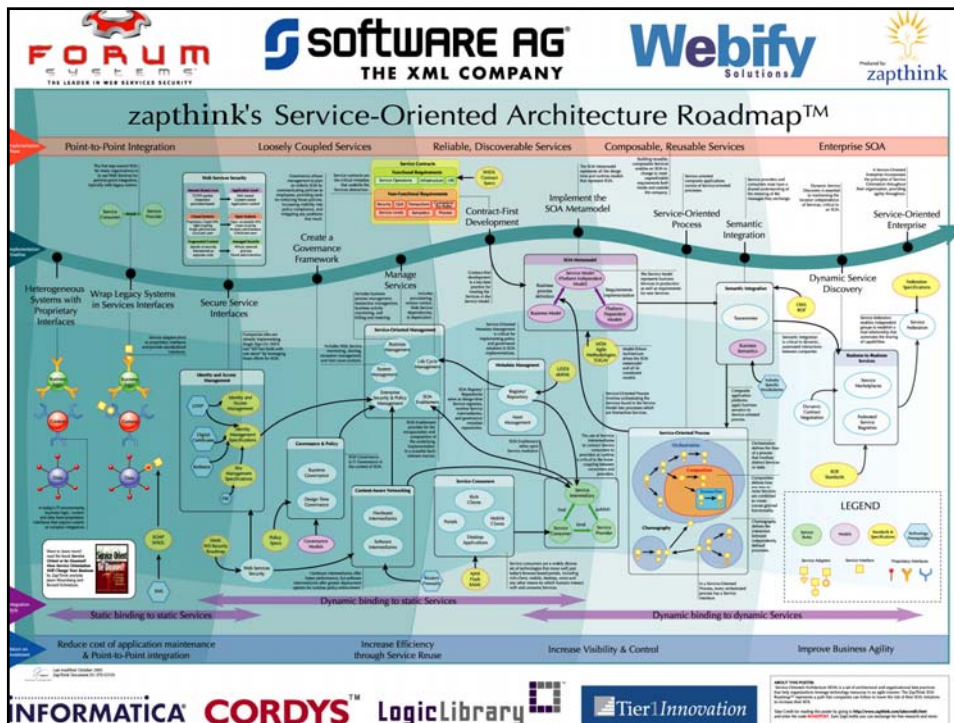
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Cross-Departmental SOA

- Organizational issues of governance and control become paramount
- Long-term architectural plan critical
- Increased focus on semantic issues



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ZapThink is an industry analysis firm focused exclusively on XML, Web Services, and Service-Oriented Architecture.



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Read our new book, *Service Orient or Be Doomed! How Service Orientation Will Change Your Business*, due from Wiley in spring 2006.

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