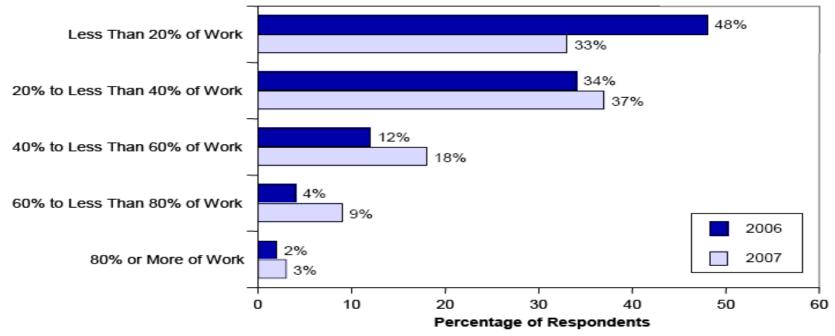
Moving towards Enterprise SOA: How do you do that?

Massimo Pezzini



How Do Commercial Organizations Use SOA Today?

Figure 2. Percentage of Application Work Using SOA and Web Services



Source: Gartner (October 2006)

Spending on Web Services related projects is now 12.9% of IT budgets

Service oriented is becoming the default architecture

Gartner.

Why Service-Oriented Architecture? Business Drivers Prevail Over IT Drivers

- M&A/divestitures
- Multichannel sales/support
- Time to market
- Continuous innovation
- Process flexibility
- Process visibility

"Top Down" Enterprise Drivers

SOA CONTRACTOR OF THE PROPERTY OF THE PROPERTY

"Perennial" IT Challenges

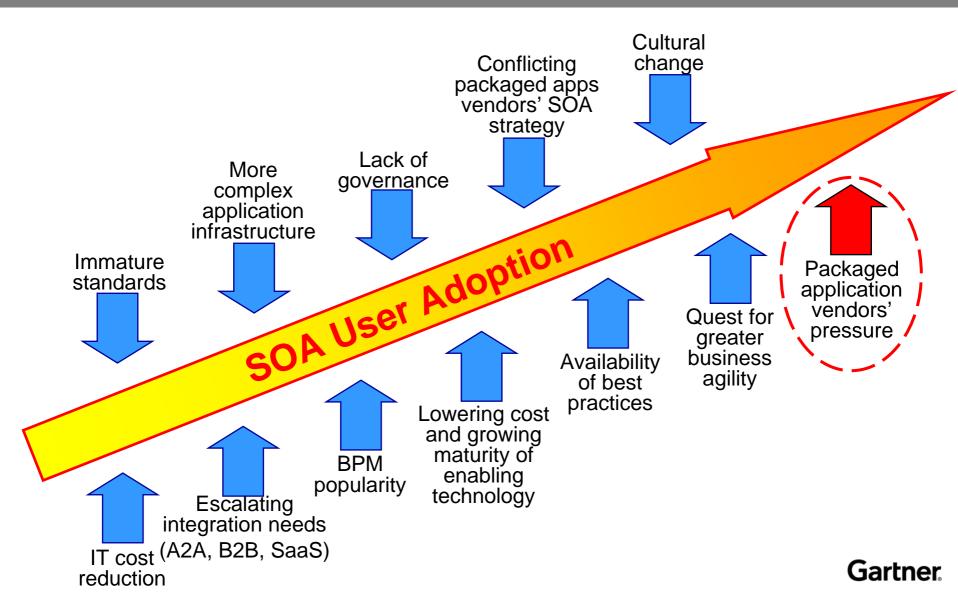
- "Doing more with less"
- Business/IT alignment
- Data consistency/quality
- Time to deployment

- Call center integration
- Single face to clients, suppliers, employees
- Process integration
- Real-time B2B

"Bottom Up" Business Unit Drivers

Gartner

Irresistible Forces Push Organizations Towards SOA Adoption



Stages of SOA Adoption

	Stage 1	Stage 2	Stage 3	Stage 4
	Introduction	Spreading	Exploitation	Plateau
Business Goals	Address Specific Pain (e.g., Customer Portal)	Process Integration (e.g., B2B)	Process Flexibility (e.g., Time to Market)	Continuous Adaptation & Evolution
IT Goals	Proof of Concept	Establish Technology Platform	Leverage Services Sharing	Enterprise SOA Infrastructure
Scope	Single Application	Multiple Applications (Single BU)	Multiple Applications (Cross BUs)	Virtual Enterprise
No. of Published Services*	<25	<100	<500	>500
No. of Service Consumers*	<5	<25	<50	>50
No. of Service Calls/Day*	<10,000	<100,000	<1,000,000	>1,000,000
No. of Service Developers*	<10	<20	<100	>100
Enabling Technology (cumulative)	Application Server, Portal, Adapters	ESB, WSM Integr. Suite, B2B	SOA Reg/Rep BPM Policy Mgmt.	Enterprise SOA Backplane

^{* =}These figures represent typical scenarios, but they may vary considerably depending on the specific organization's requirements.

SOA Best Practices: What you Need to do to Succeed

Reg	quired
Managen	nent Buy-in

Required Skills

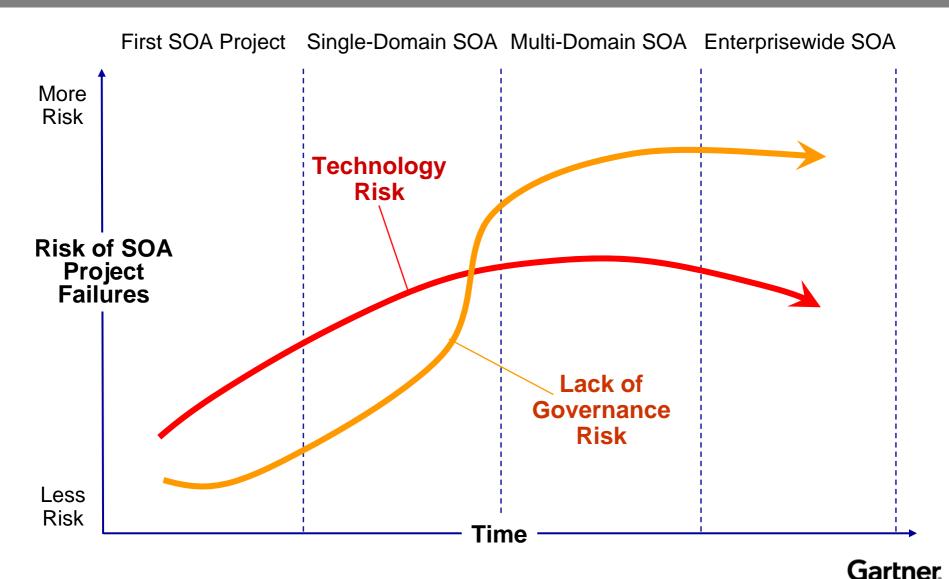
Required Organizational Capabilities

√ = Imperative
× = Recommended

			HHHH	
	Stage 1 Introduction	Stage 2 Spreading	Stage 3 Exploitation	Stage 4 Plateau
Head of Development or Head of Integration	✓	✓	✓	✓
CTO/Head of Architecture	Х	✓	✓	✓
Head of IT Operations		Х	✓	✓
CIO/Business Units		X	✓	✓
CEO			X	\checkmark
Basic Middleware	✓	✓	✓	✓
Web Services	✓	√	✓	√
Integration Middleware	X	✓	\checkmark	\checkmark
Service-Oriented Development of Applications (SODA)		Х	✓	✓
Business Process Management		X	✓	✓
SOA Operations Management		X	✓	✓
SOA Center of Excellence	Х	✓	\checkmark	\checkmark
Service Life Cycle Management		X	✓	✓
Service Design Methodology		Х	✓	✓
Planning Control and Quality Management		X	✓	\checkmark
Service Reuse Methodolog		Х	✓	✓
Operation Management		Х	√	√
Domains			X	√
Cost Allocation Schema			X	\checkmark
Consistent Enterprisewide Governance Processes			X	✓
Enterprisewide SOA Backplane			X	✓

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Why SOA Initiatives Fail: Technology or Governance?



SOA Governance Defined

SOA governance identifies decision-making authority for:

- Defining or modifying the business processes that will be supported with SOA techniques
- Defining, designing, accessing, executing, operating and maintaining reusable services
- Identifying the service levels (including performance) required and the access rights
- Determining service ownership and cost allocation
- Setting policies, responsibilities and rules for all of the above
- Measuring use and compliance, and specifying incentives to promote the adoption of those rules

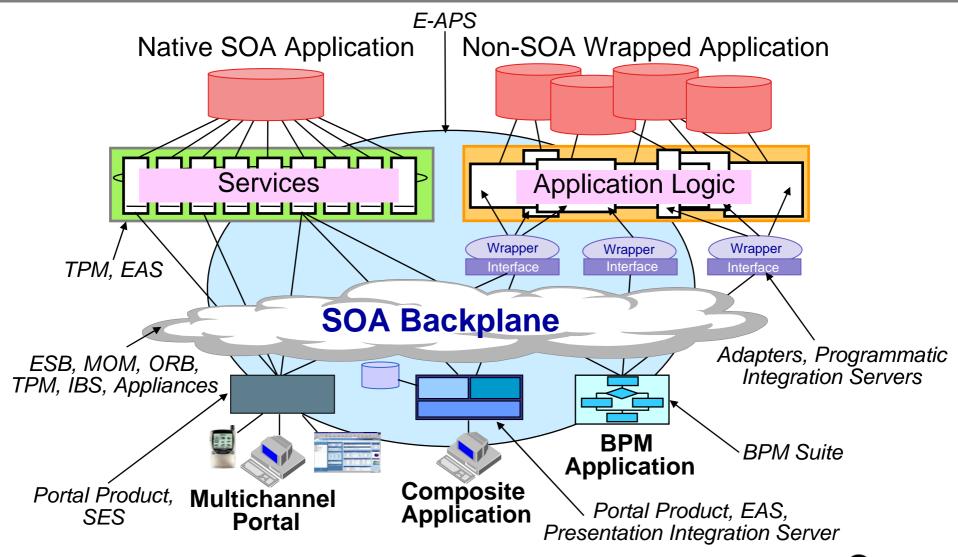






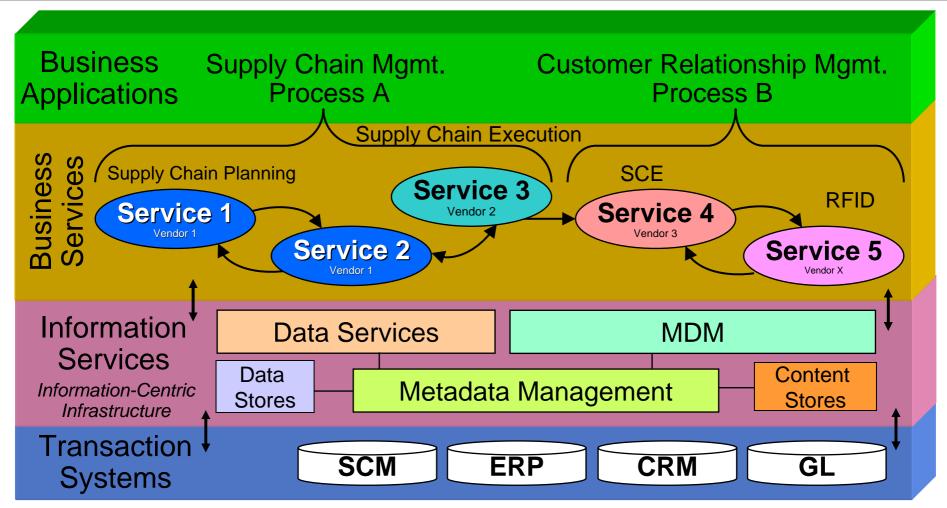
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SOAP and WSDL Are Not Enough: Orient Yourself Through the Middleware Bazaar



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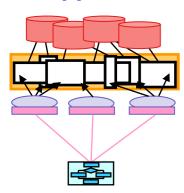
SOA Demands New Approaches for Management and Architecture of Information Assets



You need to know where data is, what it means, how it's used and who's involved Gartner.

SOA Adoption Path

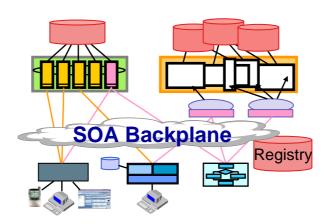
Wrapped-SOA



Pre-2007

- Pre-SOA packages/custom apps
- Vendor-provided or custom service wrapped interfaces
- Packaged and custom processes and composite applications
- Minimalist or no SOA Backplane
- Informal registry and governance

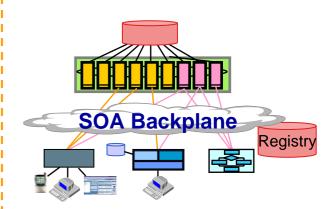
Hybrid-SOA



2007 - 2012

- Coexistence of full-SOA and pre-SOA packages/custom apps
- Coexistence of vendor standardized interfaces and wrapped interfaces
- Packaged and custom processes and composite applications
- •Full SOA Backplane
- Formal registry and governance

Full-SOA

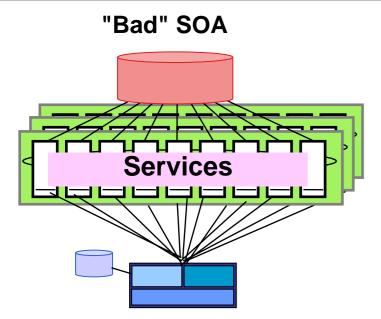


Post 2012

- Full-SOA packages/custom apps
- Standardized interfaces
- Packaged and custom processes and composite applications
- Full SOA Backplane
- Formal registry and governance

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How Do You Enforce Sharing of Services?

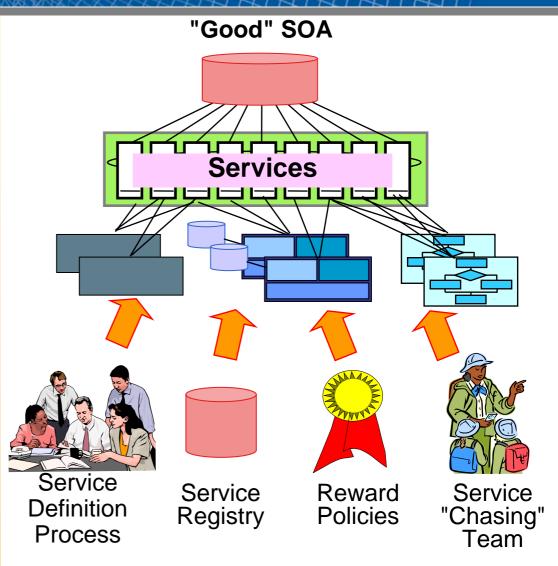


Metrics:

- # Services/# Consumers >>20
- # of reused services <10%

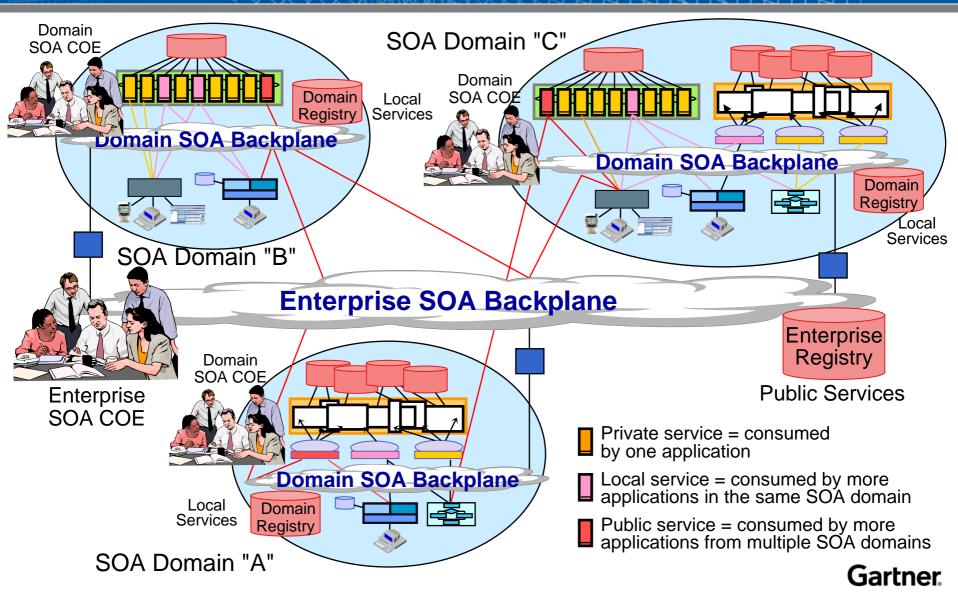
Potential Issues:

- Too-fine services granularity
- Duplicated services
- Over-specified SOA

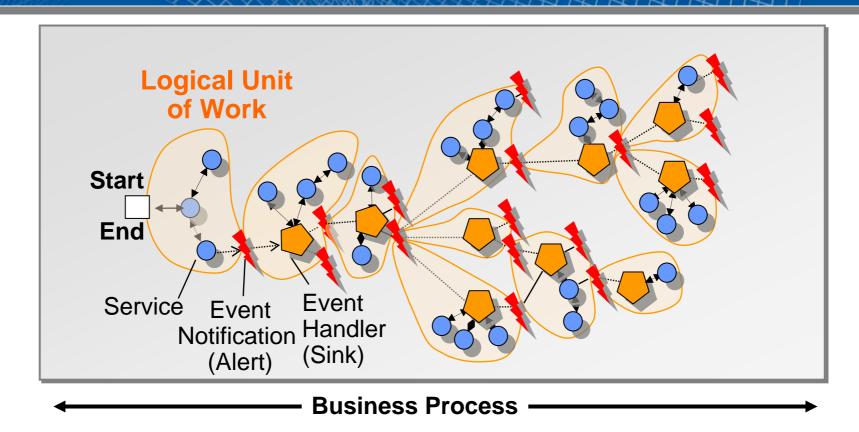


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Enterprisewide SOA Is Multiowned and Multilayered

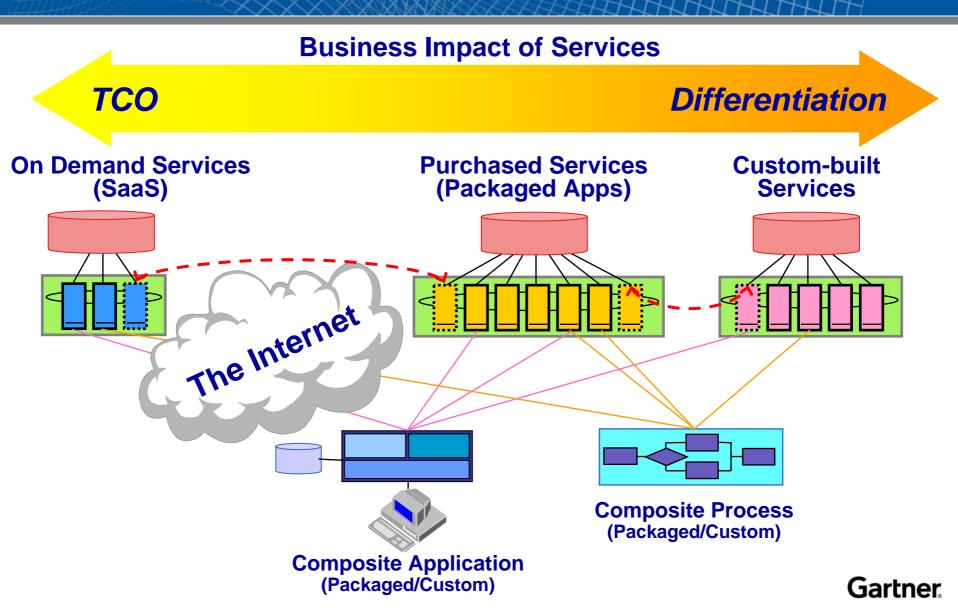


The future of SOA: Mixing Classic SOA, Events and BPM



Event-Style Services: Activated on managed schedule; intermediated; autonomous **Request-Style Services:** Activated immediately by client request; direct; subordinate

The future of SOA: Where will I Source my Business Services From?



Recommendations

- ✓ Be realistic about SOA.
 - Quantify the benefit. Determine when and where it makes sense. Determine what you would you need to do to prepare
 - Understand what old problems SOA-based package applications solve and what new problems they create.
- ✓ Start readying your software infrastructure for SOA. Determine the steps that you need to take
- ✓ If buying: Talk to your package application vendors and find out their road maps for SOA. Determine when will they will really be ready and your attitude to early adoption
- ✓ If building: Start designing and building your business services and work out how you will create composite applications and processes.



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