



## Requirements

### SOA Design, Development & Deployment : Methods & Tools working session

**Mark Sherman**  
**IBM Software Group**  
**Strategy & Technology**



Hard Problems in SOA Workshop  
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Hard Problems in SOA Workshop – SOA Design, Development, and Deployment: Methods and Tools



## Potential issues for SOA Requirements discussion

- Role of packaged applications in an enterprise and its implications for using SOA
  - Single instance vs multiple instances vs multiple packages vs custom applications
- Role of information in an SOA
  - Most discussion has been about process/workflow/choreography
  - What about access to ETL, cleansing services, federation, master data, analytics, warehouses?
- Role of human interaction in SOA
  - What does SLA mean?
  - What does failure and recovery mean?
  - How do unified communications fit in?
  - How does user generated content fit in?
- Role of the application processing in the network for SOA?
  - Routers can inspect and modify traffic in application specific way (e.g., Juniper AppRules)
- Role of efficiency vs reusability
  - Implementation vs maintenance costs
  - Infrastructure costs (bandwidth, servers, clients)
  - SLA impact

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## Conventional Technical Design Questions

- Target Platform
- Sync vs Async services
- Granularity of services
- Exception handling & fault recovery
- Security
- XML optimization
- Use of registry or services
- Legacy systems integration
- BPEL and service orchestration
- Service versioning



From: Evaluating a Service-Oriented Architecture, Bianco, Kotermanski, Merson, CMU/SEI-2007-TR-015

## IBM's SOA Guidelines – Any suggested requirement research?

- 1 Evaluate the “as-is” application landscape and the “to-be” application landscape if embarking on a major transformation initiative
    - *Like walking with a blindfold on without this*
  - 2 Understand the integration strategy and the integration technology needed before starting the application implementation
    - *One of the biggest mistakes of many large packaged application implementations*
  - 3 Establish I/T infrastructure “blueprints” and consolidate the number of software vendors
    - *Without this, the I/T organization will not be an enabler of the “agile enterprise” or be able to help the business innovate*
  - 4 Implement a governance strategy to stay on track and ensure maximum ROI
    - *Near impossible to lower TCO and maximize ROI without governance*
  - 5 Choose a set of core partners who can assist and validate your SOA strategy
    - *Different perspectives are healthy for your business*
- ➔ Think big, Start small, Execute fast