



## Standards and SOA

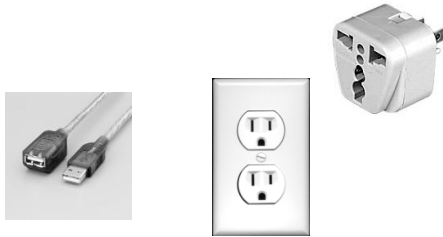
Glen Daniels  
Standards Strategist  
Sonic Software, Inc.

## Agenda

- The Ubiquitous Standards Slide
- Why SOA Needs Standards
- Web Services and SOA
- Extensibility
- Mediation as an architectural touchstone
- Wrapup



## The Ubiquitous Standards Slide™



## Why SOA Needs Standards

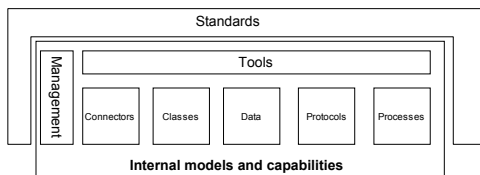
- Standards == Agreement
- Agreement == Interoperability
- In order to get your Services to work with each other, they need to agree on:
  - Protocols (SOAP, HTTP, MQ, Email, etc)
  - Data formats (XML, Schema)
  - Metadata (WSDL, Policy)
  - QoS
- Semantics



## What You Need Beyond Standards

- Products have architectures, and “special sauce”
  - Tools, implementation models, “ilities”
- Make sure they're the best fit for your needs

External Models



## Web Services and SOA

- Web Services are SOA enablers
  - They don't force you to do good SOA design, but they are great SOA plumbing
  - WSDL is a very capable SOA description framework
- SOA has architectural benefits that go beyond what Web Services define
  - Granularity
  - Reuse



## Key Web Service Standards for SOA

- XML
- Contracts are key!
  - WSDL
  - Schema
  - BPEL
  - Policy
  - Semantic Web?
- SOAP
- WS-Addressing

7

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## The MustUnderstand Extensibility Model

- Different services have different needs
  - Layer and compose QoS / extension specs
- SOAP and WSDL both offer extensibility, and both offer a "MustUnderstand" bit
- This is important not for cases where everyone speaks the same vocabulary, but for those where they **don't**
  - "Hey, what's this myNS:Foo extension?"
- Fast-fail allows evolving channels and descriptions in a uniform and manageable way
- Capabilities/requirements (Policy, F&P) expands this into slightly richer, but still simple, semantics

8

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## Extensibility

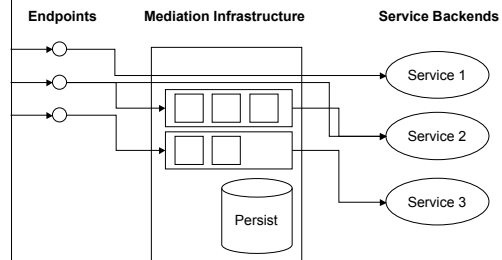
- Standards are not forever
  - Innovation and evolution are to be embraced, not shunned
  - USB 2.0, 802.11G/N, WSDL 2.0, etc.
- Good architecture can last a lot longer than any particular interoperability standard
  - Don't clutter your service implementations
- Mediated processing architectures are built for this stuff
  - Virtual addressing/redirection
  - Adapters
  - Interceptors/Handlers
  - ESB, Indigo, Axis, etc...

9

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## Mediation



10

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## Conclusions / Summary

- Web Services are SOA enablers, but:
  - You still need a developer experience you like
  - You will need an extensible and appropriate architecture for your needs
- A mediation infrastructure is critical for flexibility and evolution
  - Change is inevitable
- "Standards don't make great technology. They make great technology interoperate."

11

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## Q&A

Thanks for coming!

12

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