



PHI Systems Pty Ltd

SOA: Multiple Perspectives

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A little about Myself

- Project Director at SESAHS, NSW Health - looking after large clinical information systems and interoperability across heterogeneous systems in early 90s
- PhD in the area of interoperability in clinical information systems
- Principal Research Scientist at CSIRO leading the Health Data Integration Project
- And now...
- Health IT Consultant - PHI Systems - *still dealing with interoperability !!!*



A simple view of a Service

- A bunch of capabilities
 - Bunch of messages is a capability
 - An information package with ways to interact with - is a capability
- Self contained business function - includes semantics and behaviour



Ground Rules

- Premise: Need to improve health outcomes through better information and better access to (distributed) information
- Existing HL-7 v2.x implementations need not change
- Existing Investments need to be protected
- Services can grow organically - need based
- All Services need not be active all the time
- Step Back from a **p-p messaging** mind set



SOA : Organisation Perspective

- Planning Phase - Audit
 - Who needs what service? Who has the required information? Who has the capability to publish the service? Who is going to own/manage the service?
- Services Roadmap - Identification and Definition of Services aligned to business requirements
 - services with high impact
 - low hanging fruit - something easy to implement
- Agreement on policies around scope, creation, consumption, usage, management and governance of agreed services



SOA Information Perspective

- Categories of services (infrastructure, identity, terminology, application, information, metadata, aggregation/analytics)
- Service Description - Definition of structure (for the information content) of the services
- Agreement on Service behaviour - reflecting business practice
- User/Usage models to create, publish, consume and manage services
- Relationships and dependencies among services - ability to compose new services



Information Perspective - Contd

- Infrastructure robust enough to support Addition, Substitution, Retiring of services,
- Governance around use and reuse (consumption - in what form and by whom)
- Icing on the cake - Well defined workflow models (to facilitate reuse) - assemble and compose new services
- Metadata Services - Yellow pages of available Services
- Discovery

SOA : Technical Perspective

