



service-oriented architecture

implementing shared services SOA for the agile enterprise
adaptive architectures reuse reduced costs responsive solutions
strategic business capabilities

Bring this course to your organization.
Call us to schedule an on-site session: 1-800-397-9744.



1. Services-oriented Strategies for Enterprise Transformation.

Enabling services innovation.

- Service thinking: Why it matters to the business, clients/citizens, and IT
 - Leveraging business capabilities for services innovation
- Business and technical perspectives of a service
 - Business-aligned capability and discoverable services asset
- An emerging perspective in service design
 - The client/citizen service journey
 - Critical encounters over multiple paths
- Evolving roles in the service-oriented enterprise

2. The evolution of the Service-Oriented Enterprise.

Faster, cheaper, and more responsive.

- The promise of the agile enterprise
 - Reusable services to render business-aligned capabilities
- Enterprise cost benefits
 - Reducing IT costs
 - Achieving re-use & ROI
 - A portfolio of assets
- Cloud computing – Cost and responsiveness implications
- Service-oriented enterprise maturity and adoption

3. Characteristics of the Cloud Environment.

Interaction with the environment.

- What is a service?
 - Business-aligned capability – interfaces, functionality, protocols, policies, constraints and quality
 - Services layering
 - Producers and consumers of services
 - Some examples of services
- SOA design principles
 - Loose coupling
 - Coarse granularity
 - High cohesion
 - Information hiding
- Components of a Service-Oriented Architecture
 - A run time perspective
 - Repository, messaging, mediation systems, and service platform

4. A World of Services.

Service identification from up here.

- What's the immediate business problem?
- Services centricity – Process, Data, Consumer, and Legacy Applications
- Services identification approaches:
 - Top-down – business domain decomposition
 - Meet-in-the-Middle – the focus on asset analysis
 - Bottom-up – legacy wrapping
- The services lifecycle:
 - From business transformation to SOA deployment and operation
- The critical role of business processes and enterprise semantics

5. Business Capability Analysis. Modeling business processes.

The starting point for detailed services identification.

- The rise of Business Process Management and BPM tools
 - Abstracting the business
 - Why it's much, much more than workflow diagrams
- Analyzing the business:
 - Modeling and simulating current and future business processes
 - Lean analysis for enhanced business processes
 - Models – business process, use cases, data, user interface, etc.
- From business models to software design models (UML)
 - Abstracting the IT solution
 - Complex transformations to business-driven service specifications
 - The emerging Service-oriented Architecture Modeling Language (SoaML)

“ Great overview and very stimulating presentation on SOA. Three days of course provides great conceptual and practical understanding of SOA. ”

Sukhwant Nannan
Enterprise Architect
Service Canada

”

“ Informative and engaging.

Derek Rutherford
Director, Application Architecture & Standards
Province of British Columbia

1. SOA Strategy & Opportunity Roadmap.

Hot Spot Analysis.

- The business process portfolio
- Value chain analysis
- The challenges of SOA:
 - Stove piped applications
 - Data sharing
 - Replacing point to point interfaces
 - Why standards are key
- SOA Life Cycle: What's so different about services?

2. Implementing the Service-oriented Enterprise.

Balancing short term and long term deliverables.

- A pre-flight check
 - Strategy development
 - Governance and technical reference
 - Developing a reference model
 - Implementation
 - Organization
 - Roles and responsibilities

3. Services modeling and decomposition.

Creating agile structures.

- Service Design: High level design
- Quad Model of SOA
- Services layers and taxonomy
- Overview of a service modeling technique

4. Service Design and Implementation.

From service to composite applications.

- Elements of service design governance
 - Separation of concerns
 - Design principles – loosely coupled services
 - Choreography and orchestration – BPEL to the rescue
- Service implementation steps & technologies:
 - Namespaces, XSD, XSL, Xpath, SOAP, etc.
 - WSDL – Web Services Description Language
 - The service contract
 - Security policies
- SOA Integrated Development Environments (IDEs)

5. Optimizing SOA performance.

A look at enabling enterprise tools.

- Design time: Registry and Repository
- Run time: Enterprise service management

6. Design time: Registry and Repository

Run time: Enterprise service management

A look at IT capability with the cloud.

- A governance process- understanding policy enforcement points
- An example review and approval process
- Services consumption
- The challenge of service version management

7. An SOA governance model.

Developing a sustainable framework.

- SOA Governance Reference Model
- Four tiers of governance
- Model design
- Enterprise governance processes & portfolios
- The governance organization - who does what?
- Governance implementation roadmaps
- Security and data issues for cloud computing

8. Service Portfolio Management.

Establishing lifecycle values.

- Evaluate your SOA initiative
- Value-creating processes
- Value thresholds
- ROI for service re-use
- The value of a service
- Portfolio analysis

9. Managing the services enterprise.

Evolving your ecosystem.

- Services as a portfolio of assets
- Determining the role of cloud computing in the portfolio
- Value profile of a service
- Evaluating services in the portfolio
- SOA funding & budgeting maturity model

Your course leader

Bill Clarke



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the nation, he is a reliable, vendor-neutral resource you can count upon to enlighten your knowledge on Service-Oriented Architecture.

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