

Service Oriented Architectures:

Technology, Products & Best Practices for Designing SOAs

Rick van der Lans

13-14 October 2008,
2-3 March 2009, London

Fee Days 1 & 2 = £995 & VAT
(£174.13) = £1169.13
Day 1 or 2 only = £645 & VAT
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Overview

High on the agenda of many organisations is the integration of their vast number of isolated information systems. The integration technologies are based on XML, (web) services, and other standards: the Service Oriented Architecture (SOA). SOA will become the backbone of many IT departments and with that it will become the information backbone of organisations themselves. All information exchange will pass through this architecture.

Due to mergers, new regulations and market changes, companies are looking at what SOA could mean for them. For some, SOA will be the basis for the automation of business processes. Others see it as a means to gradually remove their legacy systems, and others see it as a means to transform their organisation into an agile organisation – one that can adapt quicker to market changes and opportunities.

Day 1 of this seminar presents an in-depth overview of the products and the technologies that are available today to develop SOA. Day 2 will describe the crucial guidelines when designing SOA. It is based on experiences gained at several SOA projects. Delegates have the option of attending Day 1 or Day 2 only or both days.

Learning Objectives

Day 1

- Learn how an organisation could benefit from SOA
- Learn how different technologies are needed to develop SOA
- Understand what the differences are between SOA-related technologies and other older integrations solutions
- Learn how an Enterprise Service Bus speeds up the development of SOA

Day 2

- Learn how to design SOA
- Avoid well known pitfalls
- Learn from real life experiences and understand the best practices for designing services and interfaces
- Learn about the different service layers that make up a loosely coupled SOA

Seminar & Workshop Outline

Day 1 – SOA: Technology & Products

Advantages and disadvantages of SOA

- Business reasons for adopting SOA
- From web services to SOA
- Overview of the web services stack of standards

Overview of basic standards

- How do SOAP, UDDI and WSDL work together?
- Reliable messaging and long-running transactions

Orchestration of services

- Automating business processes using BPEL
- Overview of commercially available BPEL-engines
- Impact of BPEL on application development

The Enterprise Services Bus

- A new generation of integration product
- Differences between EAI and ESB
- Overview of ESB's - advantages and disadvantages

SOA Governance

- Interface and version management
- Service management, monitoring, service level agreements, and security

The future of service oriented architectures and enterprise services busses

- Vendor overview

Day 2 – Guidelines & Best Practices for Designing SOAs

Designing service interfaces and transformations

- Design rules for the interfaces of individual services
- XML schema for analysis of interfaces

Designing basic service

- Connectors and adapters
- From parameter to document oriented interfaces
- Aggregating small, data oriented services

Designing composite services

- Designing services for business processes
- How large should the interface be?
- Efficient manipulation of XML documents

Generic services

- The role of cleaning tools when matching data
- Disconnecting services through content based routing
- The added value of a business rules service
- Designing an object state service

Designing transactions in SOA

- Working with compensating transactions

General design guidelines for SOA

- Designing a loosely coupled architecture
- Testing legacy applications
- Integrating batch applications within SOA

Delegates have the option of attending Day 1 or Day 2 only

Audience

- IT Managers
- Technical Architects
- Enterprise Architects
- Solutions Architects
- Data Architects
- IT Consultants
- IT Strategists
- Business Analysts
- Systems Analysts
- Systems Developers
- Systems Designers
- Database Developers
- Database Managers

and all those considering using Service Oriented Architecture to integrate their systems.

Enterprise Architecture Series

Zachman Enterprise Architecture Part 1: Framework Fundamentals

7-8 October 2008,
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SOA: Technology, Products and Best Practices

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4th course	20%

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'Very good speaker. Articulate and knowledgeable'

Douglas Liddell, Solution Architect, EDS

'Excellent lecturing style with right balance between light hearted and serious'

John Welsh, Technical Architect, Serco

'Very good. Good pace.'

Knowledgeable. Good examples.'
Nick Ouston, Business Analyst Team Manager, BAA

Presenter



Rick van der Lans is an independent consultant, author and lecturer. He has advised many large companies worldwide on defining their internet, client/server and data warehouse architectures.

In-House Training

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Seminar Timetables

08.30 – 09.00 Registration (first day only) 09.00 – 12.30 Event

12.30 – 13.30 Lunch 13.30 – 17.00 Event

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