

SOA - Service Oriented Architecture Enterprise Roadmap

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SOA Awareness Session - 0.5 day

A comprehensive overview meant to give a high-level insight into the different advantages and challenges that an SOA poses to the organization. We will examine the capabilities of SOA in the area of alignment of business with IT and how to change the mindset all through the different levels within the company. Where do you start? And what level of SOA maturity is the organization currently in?



SOA Essentials for Business Managers & Architects - 2 days

The key components of an SOA are discussed on a level accessible to business members and architects. The OASIS reference architecture is used as a working design for an enterprise-wide SOA implementation. This module categorizes the services, positions the ESB (enterprise service bus) and the service Registry. The training then continues to explain the different criteria to find those services that provide real business value.



Service Oriented Analysis and Design with UML and Agile - 4 days

How to read detailed architecture diagrams? Or component descriptions? This module handles detailed requirements, design patterns and service oriented analysis and design. The efficient and proven development process which is used in this module will lead to cohesive services defined at exactly the right level of granularity. Developers can use the analysis and design artifacts to develop the actual services.



XML, XSL and XSD for SOA Applications - 4 days

Learn the fundamentals necessary to use XML in the data-driven applications in SOA and services. Through lecture and hands-on lab exercises, you will learn the essentials of data interoperability using XML, write well-formed XML documents, enforce document validity, use XSLT and stylesheets to transform XML documents, and get an introduction to XML programming options.



BPM Business Process Management and BPMN - 2 days

Insight into an organizations' business processes can yield interesting advantages, ranging from detecting bottlenecks and streamlining activities to real-time monitoring of performance and SLA compliance checking. What techniques are used to monitor a business process? How is a process modeled? How can we orchestrate the services defined in the analysis and design phases? What about automated BPMN to BPEL transformations?



Executing BPEL Processes on an Application Server - 3 days

When it comes to automate our business processes, an application server will prove indispensable. What exactly is an application server used for? Where does the ESB fit in? Overview of commonly used application servers such as Microsoft BizTalk or the Oracle SOA Suite. What about compile/deploy stages? We will take the output from the Business Process Management (BPM) activities, automate the organization's business processes and provide exciting hands-on experience with BPM and ESB.



(web) Services: from design to implementation - 2 days

What is a good level of granularity for a service? What patterns can be applied for efficient services? The newest developments in the area of service choreography, WS-CDL, WS-Transaction, WS-Addressing and many others get exposed during this course. Don't be fooled into thinking that business users will see any value in a WSDL, so the business-level service contracts expressed in human language will certainly get our attention.