



Service-Oriented Architecture: Best Practices for Successful Adoption

Do you need to get started with SOA?

Would you like to know the realities about SOA, not just the vendor promises?

Do you wonder if there is a way to manage the risk of SOA adoption?

Who Will Gain Most from this Introductory Course

- Technical managers, managers, and software engineers
- Individuals tasked with development and deployment of service-oriented systems or with migration of legacy systems to SOA environments
- Individuals who make decisions about SOA strategy and implementation

Build a Firm Foundation for SOA-Based Development

You'll get a well-rounded view of SOA in the SEI course *Service-Oriented Architecture: Best Practices for Successful Adoption*. In just one day, you'll learn

- basic concepts and common misconceptions of SOA and service-oriented systems
- what you can gain with SOA
- what you should avoid in SOA adoption
- what others have found to be successful in SOA adoption

Drill into SOA Implications

You'll gain this valuable grounding through a series of successively more specific *snapshots*. The first, from “50,000 feet,” introduces the basic components of service-oriented systems: services, service consumers, and SOA infrastructure.

Next, at “5,000 feet,” you'll learn about the basic operations of service discovery, composition, and invocation and about common technologies for implementation. Web Services is presented in detail as one approach for implementing SOA.

Then at “1,000 feet,” you look into SOA development issues from three perspectives: the service developer, the application developer, and the infrastructure developer.

Examine SOA Realities

As these viewpoints reveal more about SOA concepts and issues, the pitfalls, potential, and common misconceptions about SOA become clear.

SOA pitfalls and potential in areas such as the following are discussed: cost efficiency, adaptability, and leveraging of legacy investments.

Also, some common misconceptions about SOA are introduced, including the belief that it is possible to buy an SOA solution *off the shelf*.

Learn How Four Keys Improve the Chances for Successful SOA Adoption

While these keys cannot be said to guarantee success, most SOA-adoption success stories show that they should be acknowledged and addressed:

1. Align SOA strategy with high-level mission and business goals.
2. Address SOA governance, the greatest obstacle you'll face.
3. Adopt a context-based approach to evaluating technologies for your SOA environment.
4. Follow an approach based on the reality that developing SOA-based systems is different from developing traditional systems.

Make the most of your travel and course time: couple this course with our Legacy Systems Migration one-day course—they are conveniently offered on back-to-back dates.



Service-Oriented Architecture: Legacy Systems Migration

Do you need to know whether it is cost-effective to migrate your legacy systems to an SOA environment?

Do you wonder if it is truly as easy to integrate legacy systems into an SOA environment as vendors tell you it is?

Would you like to be sure your approach is right?

Who Would Gain the Most from this Course

- Technical managers, managers, and software engineers
- Individuals tasked with development and deployment of service-oriented systems or with migration of legacy systems to SOA environments

Migrating legacy systems to an SOA environment is neither automatic nor easy.

In the one-day, SEI *Service-Oriented Architecture: Legacy System Migration* course, you'll learn how to identify the factors that influence a decision to pursue migration and get an introduction to a proven technique for forming a migration plan.¹

The course builds on the common misconception that it is easy to integrate any legacy system into an SOA environment.

Learn about a Proven Method for Determining Whether Migration is Feasible

Following an introduction of how business and technical considerations that can influence migration, the course introduces the SOA Migration, Adoption, and Reuse Technique (SMART).

SMART provides a way to analyze the viability of reusing legacy systems in SOA environments by answering these questions:

- Does it make sense to migrate the legacy system to an SOA environment?
- What services make sense to develop?

- What legacy system components can be used to implement these services?
- What changes to components are needed to accomplish the migration?
- What migration strategies are most appropriate?
- What are the preliminary estimates of cost and risk?
- What is an ideal pilot project that can help address some of these risks?

Related Web Sites

www.sei.cmu.edu/go/soaofferings/

For Course Registration

- **Best Practices:**
www.sei.cmu.edu/training/p81.cfm
- **Legacy Systems Migration:**
www.sei.cmu.edu/training/P83.cfm

Interested in an eLearning Option?

The SEI offers an online course, *Migrating Legacy Systems to SOA Environments*. For more information, visit www.sei.cmu.edu/go/soatraining/.

For More Information

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¹ Our Best Practices course is a prerequisite for this Legacy Systems Migration course