



Training in the SOA Migration, Adoption, and Reuse Technique (SMART)

Learn to plan for successful legacy system migration to SOA

Does your organization need a strategy for migrating legacy systems to an SOA environment?

For your organization, what are the risks of migrating to an SOA environment?

What services make sense for your organization to develop?

Who Will Gain Most from this Course

- Technical managers and software engineers who need to understand the details of the SMART process
- Individuals tasked with the migration of legacy systems to SOA environments
- Individuals who wish to become SMART Team Leads

Make the Most of Your Legacy Systems Investment

It is commonly believed that more than two-thirds of business information resides in mainframe databases.¹ Put another way, in an estimate by the International Data Corporation, there are 200 billion lines of legacy codes on “more than 10,000 large mainframe sites” in use.²

For organizations with a heavy investment in legacy systems, there are considerations such as

- It would be costly to redesign a system as large and complex as the legacy system.
- Users require nearly constant availability from the systems: to design a new system with the same level of availability would be costly.
- No one really knows how the legacy system works, and often, full documentation is not available.³

As a result, organizations do not want to—indeed often *cannot*—replace their legacy systems. At the same time, they increasingly want to realize the benefits of the service-oriented architecture (SOA) paradigm—such as cost-efficiency, agility, and adaptability.

One solution is to migrate legacy systems to an SOA environment.

Learn How to Develop a Legacy System Migration Strategy

Before launching a migration effort, an organization needs to make a realistic assessment of the cost, risk, and feasibility of migrating a specific set of legacy systems to a specific SOA environment.



Legacy computer systems house the mission-critical information that organizations need to conduct their business processes. In the SMART Training Course, you learn how to harness the power of SOA to make better use of that information.

The SEI SOA Migration, Adoption, and Reuse Technique (SMART) has a growing track record of helping organizations to develop realistic and successful strategies for migrating legacy systems to their targeted SOA environments. The SMART approach considers the specific characteristics of the target SOA environment and any changes that must be made to the legacy systems in order to adapt to the environment.

The two-day **SMART Training Course** enables you to develop and practice the skills needed to guide your organization toward developing a migration strategy. By participating in carefully designed activities and case studies, you gain hands-on experience using the templates of the SMART process.

Furthermore, the realistic scenarios and seven exercises used in the course let you practice SMART methods, demonstrate your grasp of concepts important to legacy migration strategy, and prepare to participate in pilot projects in your organization.

Training in the SOA Migration, Adoption, and Reuse Technique (SMART)

Learn to plan for successful legacy system migration to SOA

Course Builds Skills in Developing a Migration Strategy

The SMART Training Course is designed specifically for

- technical managers and software engineers who need to understand the details of the SMART process
- individuals tasked with the migration of legacy systems to SOA environments
- individuals who wish to become SOA-SMART Team Leads. SEI Certification is available for individuals sponsored by SEI Partner organizations. SOA-SMART Team Leads can conduct SEI-authorized SMART Workshops.
- This course blends lectures, discussions, and exercises into an effective, fast-paced, skills-development environment. Through lectures, you will learn
- an overview of SMART
- an explanation of the SMART family of approaches. The SMART family is a set of variations of the SMART approach designed to address multiple entry points to SOA adoption.

Activities complement the lectures. So, in addition to hearing about SMART, you will

- participate in hands-on exercises for each step in the SMART process
 - establish the migration context
 - determine the feasibility of migration
 - define the candidate services
 - describe the existing capability
 - describe the target SOA environment

- analyze the “gap” between legacy and target environment states
- develop a migration strategy
- practice using the SMART Interview Guide that contains 62 categories of questions that enable you to gather in-depth information about the migration context, the legacy system, the candidate services, and the target SOA environment

In addition, you’ll get a chance to practice what you’ve learned through a case study exercise that simulates a common organizational situation.

Part of the SEI SOA Training Product Suite

The SMART Training Course is complemented by other training and educational products from the SEI:

- Migrating Legacy Systems to SOA Environments course—arms you with the basics of SOA and fundamentals of SOA adoption; also introduces SMART (offered as an eLearning course)
- SOA Governance Workshop—provides the knowledge and skills needed to plan for overcoming a primary obstacle to successful SOA adoption
- SOA Strategy Workshop—shows how SOA is about more than technology alone; focuses SOA decision making on mission and business priorities

For Course Registration

- ✓ www.sei.cmu.edu/training/p73b.cfm

This course may also be offered by arrangement at customer sites. Email course-info@sei.cmu.edu or call +1 412-268-7622 for details.

For More Information on SOA Courses

- ✓ www.sei.cmu.edu/go/soaofferings/
- ✓ www.sei.cmu.edu/go/soatraining/ (for information about eLearning course offerings)

For General Information about the SEI

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¹ www.informationweek.com/641/41iuleg.htm

² www.developer.com/mgmt/article.php/1492531

³ en.wikipedia.org/wiki/Legacy_system