

SPEM

Software Process Engineering Metamodel



A standards-based approach for modeling software development processes

The new SPEM specification from the Object Management Group (OMG) offers your software development organization a standards-based approach for modeling end-to-end development processes. Modeling your processes in SPEM leads to effective communication and acceptance of these processes across your entire development team. You will have a reference point from which you can improve, manage, and automate your development processes. The result is well-established processes to help you reach your quality, cost and time-to-market goals. Your process investment is protected by not being locked into proprietary vendor specifications.

Created Specifically for the Software Development Industry

Software development, like any other business undertaking, is supported by a set of processes. If implemented correctly, these processes essentially define the workflow, roles, activities, and work products that combine to produce the final product (application). Design, execution and monitoring of software development processes are of huge importance, since they have a direct impact on the quality, cost and time-to-market characteristics of the end application. Before being executed (enacted) and monitored (managed), these processes need to be designed (modeled) in such a way that they are easy to document and communicate, and simple for development staff to follow.

Rooting software development in well-managed processes has taken on a new importance with industry quality programs, such as CMM, ISO and Six Sigma, and the general movement towards offshore development and outsourcing. Furthermore, the new iterative and agile development methodologies and the emerging Model Driven Architecture (MDA) framework need a set of sound, flexible and well-managed processes.

The SPEM specification by OMG is specifically aimed at addressing the software industry's unique and complex process requirements. The specification offers a common framework for modeling software development processes and their components. It provides a common syntax and structure for every aspect of your development process, including:

- Roles
- Tasks
- Artifacts
- Checklists
- Work products
- Techniques and tools
- Work breakdown structures
- Traceability and refinements
- Context-specific help and guidelines
- Textual description of elements

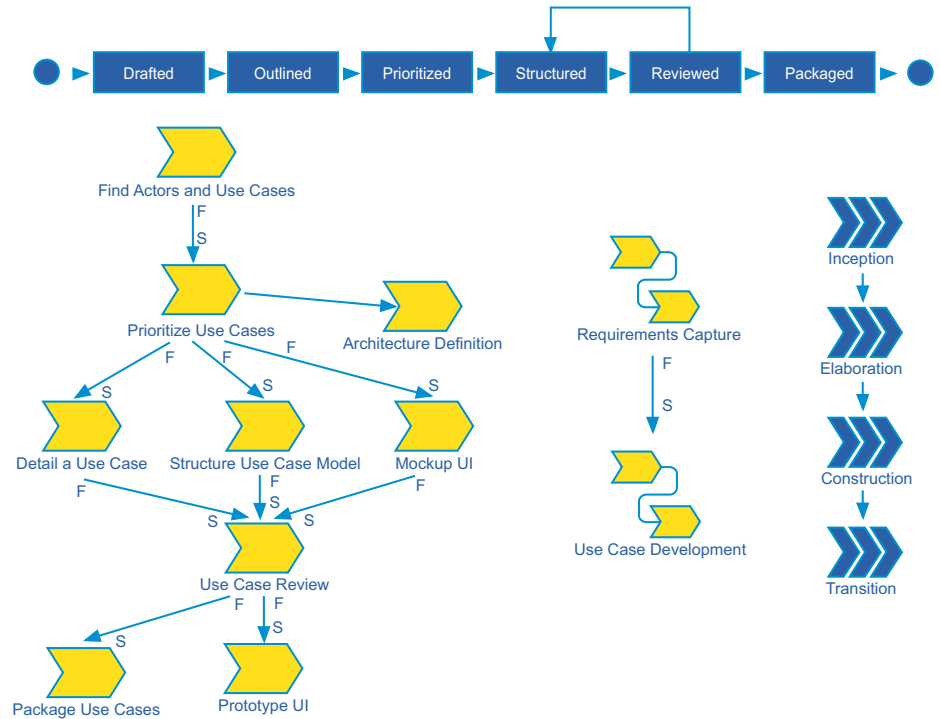
OMG's latest software process modeling specification is an open standard for developing simple to complex software process models.

Find Out More

To obtain additional information about SPEM, go to www.omg.org/technology/documents/formal/spem.htm or visit www.osellus.com.

About Osellus

Osellus is a leading provider of process improvement and automation solutions for the software development industry. Osellus helps software development organizations select, enhance, model and automate the underlying processes that support their application development efforts. By adopting a process-centric development model, Osellus customers are better positioned to meet time-to-market, quality and cost objectives.



Methodology Agnostic. SPEM is a metamodel for defining processes, from which other processes can be built. Your choice of development methodology will influence the type of process you adopt. But no matter what your process, you can use SPEM to model the process in a comprehensive unambiguous manner that is easy to communicate, implement, and manage.

Based on UML. SPEM uses an object-oriented approach and UML notation that are familiar to most software development professionals. The specification utilizes a graphical approach for a more expressive way of modeling development processes.

Technology Agnostic. SPEM provides a complete abstraction of the process from the underlying implementation infrastructure. This means that you can model the processes that best support your chosen methodology without undue concern about the implementation technology.

First Step Towards Process Automation. The intended benefits of automating your software development processes can only be realized if these processes are modeled properly. SPEM offers an open standards-based approach to modeling your development processes so that you can use the process automation solution from any vendor that supports the standard. Selecting a vendor solution will not require remodeling your processes.

Increased Developer Acceptance. Team acceptance is key to the effective implementation and management of any process. SPEM offers a comprehensive and documented view of your processes, in a way that your development team members can understand, and more importantly, internalize.



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