

Eclipse is an Open Source platform that is well-known in the world of Java software development. But today, Eclipse is also used more and more for model-driven systems engineering. In this workshop, you will learn how to use Eclipse for Systems Engineering. You will learn about its capabilities as an integration platform, and the added value it provides.



Content

Eclipse was created over ten years ago by IBM, as a standardized development platform for application software. Creating such a platform as Open Source was revolutionary back then. Today Eclipse is a prime example of successful Open Source software.

In this workshop, you will learn about the value of Open Source in general and Eclipse in particular; e.g., components that offer no direct competitive advantage are maintained by the community in a cost-effective fashion, which eases problems like commercial support or long-time maintenance.

Next, you'll get a high-level overview of this ecosystem which consists of over 60 projects and 45 million lines of code. We will focus on those projects that are relevant for systems engineering—specifically, this includes Papyrus (UML/SysML), RMF (requirements), and EPF (process description). A foundation for many projects is the Eclipse Modeling Framework (EMF), which allows the integration of independent components. With EMF, you can create your own domain-specific data models which can then be easily integrated. Domain-specific languages (DSLs) are well-proven to describe data easily and precisely, both graphically and textually.

Added Value

Participants have a high-level understanding of the available Eclipse technologies. This foundation's participants can analyze their concrete situation, to explore whether an Eclipse-driven development approach can generate value.

At a Glance

This workshop provides an overview of the possibilities and limitations of **Eclipse for systems engineering**.

Duration: 1 day (recommended), ½ day or 2 days possible.

Type: On-site interactive workshop.

Prerequisites: Basic systems engineering knowledge; relevant experience with modeling tools is useful.

Target Groups: System engineers and developers, heads of development, product managers.

Equipment: Personal computers, with Java 7 installed.

Languages: English or German (Teaching Materials in English).

Cost: Upon request.

Dates: Upon agreement.

Formal Mind actively contributes to the development of Eclipse software, as a committer and as project lead.

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