

***EMF Core 2.5 Release Review Mini Deck
Galileo Simultaneous Release***



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Communication Channel: eclipse.tools.emf

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Eclipse Modeling Framework



- Framework and code generation facility for model-driven development and data integration
- Core component of the Eclipse Modeling Project
- Supports conversion between different model formats (Ecore/EMOF, XML Schema, UML) and generation of Java code
- Merging generator allows alternating between modeling and programming
- Editor generation for rapid tool prototyping in Eclipse

The screenshot displays four Eclipse IDE windows illustrating the EMF workflow:

- Library.java:** Shows the generated Java code for the `Library` interface, which extends `EObject`. It includes methods for `getName()`, `setName(String value)`, `getWriters()`, and `getBooks()`.
- library.xsd:** Shows the XML Schema definition for the `Library` model, including elements for `name`, `writers`, and `books`.
- library.ecore:** Shows the Ecore model structure, including classes like `Book`, `BookCategory`, `BookCategoryObject`, and `Library`.
- Library.xml:** Shows the reflective editor instance, displaying the `Library` object with its `writers` (Greg Mortenson, Michael Connelly) and `books` (Three Cups of Tea, The Scarecrow).

Callouts identify the following components:

- Generated Java code:** Points to the `Library.java` window.
- XML to Java Binding:** Points to the `library.xsd` window.
- Sample Ecore Editor (Model):** Points to the `library.ecore` window.
- Reflective Editor (Instance):** Points to the `Library.xml` window.

What's New

■ Features

- Minimal footprint EObject implementation available for use in generated models and adopted in Ecore
- Generate models command
- Generator options for flexible interface/implentation names
- Support for XML types when targeting EMF 2.2 runtime
- Implementation of property-based JFace data binding API

■ Non-Code Aspects

- Minor updates to existing documentation
- Publication of *Eclipse Modeling Framework*, Second Edition and *Essential EMF* Refcard

Other

- Usability
 - Generate models command improves tool usability
 - Minor UI and accessibility improvements
- End-of-Life
 - SDO removed from EMF
- Bugzilla
 - 55 enhancements, 139 bugs fixed
 - 0 critical, blocker, or major bugs open