EMF Core 2.5 Release Review
Galileo Simultaneous Release

Planned Review Date: June 10, 2009
Communication Channel: eclipse.tools.emf
Dave Steinberg and Ed Merks
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
Features

- Minimal footprint EObject implementation
  - New, optimally memory-efficient base EObject implementation available for use in generated models
  - Adopted in Ecore to reduce footprint of metadata
- Generate models command
  - Convenient new UI for generating one or more models
- New code generator options
  - Flexible interface/implementation naming
Features

- Old-runtime XML types support
  - New generator support for XML types (date, time, duration, QName, etc.) when targeting EMF 2.2 runtime

- Implementation of property-based data binding
  - Support for JFace's new data binding API, providing model-agnostic creation of observables and bindings
Non-Code Aspects

- No significant new documentation or examples
- Minor updates to existing documentation (overviews, tutorials, and API reference)
  - Mostly new Javadoc and accessibility-related changes
- Changes with the potential for significant impact documented in The Bleeding Edge
  - [http://www.eclipse.org/modeling/emf/docs/#whatsnew](http://www.eclipse.org/modeling/emf/docs/#whatsnew)
- Two major EMF publications this year
  - *Essential EMF* Refcard
**APIs**

- The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release
- Due to historical use, most of EMF is treated as API
  - Increasingly, more recent code is identified as internal
- Provisional API
  - Generate models command
  - Data binding implementation
  - Accessible table editing
  - Binary resource implementation
- Deprecated API continues to be supported
Architectural Issues

- No new architectural issues in this release
- EMF continues to be highly extensible and finely componentized
Tool Usability

- New generate models command improves generator usability by simplifying regeneration
End-of-Life

- EMF's SDO implementation, which was previously delivered as part of EMF core, has been removed in this release.
## Bugzilla

- Over Galileo timeframe (as of May 27, 2009)

<table>
<thead>
<tr>
<th>Severity</th>
<th>Status</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NEW</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>68</td>
<td></td>
</tr>
<tr>
<td></td>
<td>181</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>316</td>
<td></td>
</tr>
<tr>
<td>blocker</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>critical</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>major</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>normal</td>
<td>152</td>
<td></td>
</tr>
<tr>
<td>minor</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>trivial</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>enhancement</td>
<td>126</td>
<td></td>
</tr>
</tbody>
</table>

![Bugzilla Status Table]
Standards

- No standards-related changes
- EMF continues to support OMG XMI 2.0 and 2.1 for serialization and EMOF 2.0 interchange
UI Usability

- Small usability improvements
  - Better organization of New Project/Model wizards
  - Galileo capabilities

- Accessibility
  - Reviewed for Section 508 compliance
  - Keyboard navigation added to tables in wizards

- Internationalization
  - All strings externalized using Java message bundles
  - Babel participant
  - Translatability verified with Babel Pseudo-Translation Test
Schedule

- EMF followed the Galileo schedule as a +1 component

Completed

- M1 2008/08/11 (as planned)
- M2 2008/09/24 (as planned)
- M3 2008/11/03 (two days early)
- M4 2008/12/15 (two days early)
- M5 2009/02/03 (as planned)
- M6 2009/03/16 (as planned)
- M7 2009/05/04 (as planned)
- RC1 2009/05/18 (as planned)
- RC2 2009/05/25 (as planned)

Planned

- RC3 2009/06/01
- RC4 2009/06/08
- RC5 2009/06/15
- GA 2009/06/24
Communities

- Active interaction in EMF's newsgroup and Bugzilla
- Several committers are active bloggers
- Significant cross-project collaboration
IP Issues

- The project leadership verifies that the Eclipse IP policies and procedures have been followed.
- A frozen copy of the Project Log is part of the Release Review documentation
  - The “live” version is also available at [eclipse.org/modeling/emf/eclipse-project-ip-log.php](eclipse.org/modeling/emf/eclipse-project-ip-log.php)

- Would any Member like to assert that this release infringes their IP rights?
Project Plan

- EMF 2.5 development plan available at eclipse.org/projects/project-plan.php?projectid=modeling.emf

- Draft plan for EMF 2.6 is not yet available