

EMF 2.3.0 Europa Simultaneous Release

6 June, 2007

Release Review revision 2.3.1 – 17 January, 2007

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EMF - Europa Release Talking Points

- Noteworthy New Features:
 - Java 5.0: Generics are now fully supported in EMF's metamodel, Ecore, and in the EMF code generator. Other important Java 5 language features are also supported, including enumerated types, annotations, and the enhanced for loop. Developers still have the option to generate 1.4-compatible code, which can be run on the EMF 2.2 runtime.
 - Complete validation of Ecore models
 - All the rules that defined a valid Ecore model are implemented as constraints using the EMF Validation framework
 - The objects in a reference can now be identified by a defined set of attributes
 - EMF can now be used in probably any Eclipse configuration
 - The EMF bundles are now defined in small features



EMF - Europa Release Talking Points

- Noteworthy New Features (cont.):
 - Ant task and headless application to generate code from Annotated Java
 - EMF now provides this support for all model importers
 - Numerous improvements to the Resource framework
 - New option to ensure that only the resources with a new serialized contents are saved
 - New option to use XML Entities to reduce the number of duplicated strings
 - The classes that are used to customize the code generation behavior are fully documented with Java Docs
 - Also, there is a new example that shows how to use these classes to generate an additional artifact
 - Several performance improvements, in both the runtime and code generation tools



EMF - Europa Release Talking Points

- Quality of APIs
 - No "provisional" APIs
- End of Life Issues:
 - None
- IP Issues:
 - None
- Committer Changes
 - Elena Litani gave up her status.

Features & Non-Code Aspects



- Features
 - The EMF Release Notes presents all the bugzillas implemented in a given build
 - All the changes in EMF are described by at least one bugzilla
 - http://www.eclipse.org/modeling/emf/news/relnotes.php?project=emf&version=HEAD
 - Plan Items (as of 25 May 2007)
 - 3.8 of 6 plan (keyword) items resolved, as of 25 May 2007
 - 337 bugzillas addressed in the 2.3.0 release
- Non-Code Aspects
 - Improved the documentation (Java Doc) of several parts of the code
 - Added new examples to demonstrate how developers can exploit specific features



Features & Non-Code Aspects

- 496 JUnit tests
 - Combined with SDO and XSD
 - On every build, about 200 of these JUnit tests are invoked both as plug-in and stand-alone tests



APIs

- No "provisional" APIs were added and there is no 'discouraged access' warnings (internal usage)
- Historically, clients of EMF have treated every class in EMF as API. Therefore, we are left with no choice but to try our best to treat every class as API
 - There are a few classes that we consider non-API code, which are properly identified by the word "internal"
- Deprecated API
 - All the deprecated methods were properly marked with the @Deprecated annotation
 - If appropriate, the alternative API is also indicated
 - Continues to be fully supported



API Changes

- Minor binary incompatibilities introduced when adopting Java 5 Generics
 - This only affects subclasses of
 - EPackageRegistryImpl
 - BasicFeatureMap and DelegateBasicFeatureMap
 - ETypedElement
 - Details at <u>http://wiki.eclipse.org/index.php/EMF_2.3_Generics</u>



Architectural Issues, Usability, End-of-Life

- Architectural Issues
 - EMF 2.3 requires a 5.0 JVM or greater
 - More details about JVM requirements can be found at http://wiki.eclipse.org/index.php/EMF_2.3_JVM_Requirements
- Usability
 - Added mnemonics to every wizard and dialogs
- End-of-Life Issues
 - Continuing viability of deprecated API guaranteed



Bugzilla

 As of 25 May 2007 (since the end of the 2.2.0 release with Callisto):

5		NEW	ASSIGNED	RESOLVED	VERIFIED	CLOSED	Total
	blocker		•	<u>13</u>			<u>13</u>
	critical	•	19	<u>8</u>	1		<u>9</u>
	major	•	14	<u>49</u>	<u>4</u>	<u>4</u>	<u>57</u>
Severity	normal	<u>8</u>	3	353	3	<u>6</u>	373
	minor	1	2	<u>13</u>	1	1	<u>18</u>
	trivial		1	11		2	<u>14</u>
	enhancement	<u>73</u>	•	<u>193</u>	1	1	268
	Total	<u>82</u>	<u>6</u>	<u>640</u>	<u>10</u>	14	752

Status

Standards and UI Usability



- Standards
 - OMG[™]'s EMOF and XMI used/supported
- UI Usability
 - Internationalization
 - EMF uses Eclipse Platform standard i18n support
 - ICU4J and Java 5 codepoint support are used when necessary
 - Localization
 - Tested for localization (awaiting readiness of Babel, the Eclipse Globalization Project)
 - Accessibility
 - Standard Eclipse capabilities

Schedule

- Our commitment was to provide a stable EMF driver no later than one week after Eclipse Milestone driver is available. We have met this goal
- 2.3 Release Plan
 - ✓ 2.3 M3: 09 November, 2006
 - ✓ 2.3 M4: 21 December, 2006
 - ✓ 2.3 M5: 12 February, 2007
 - ✓ 2.3 M6: 29 March, 2007
 - ✓ 2.3 M7/RC0: 11 May, 2007
 - ✓ 2.3 RC1: 23 May, 2007
 - 2.3 RC2: 30 May, 2007
 - 2.3 RC3: 13 June, 2007
 - 2.3 RC4: 20 June, 2007
 - 2.3: 29 June, 2007

- 2.2 Release Plan
 - 2.2.1: 21 September, 2006
 - 2.2.2: 13 February, 2007
 - 2.2.3: 14 May, 2007





Communities

- Very active newsgroup
 - eclipse.tools.emf
- Conference Participation (using EMF 2.3.0)
 - EclipseWorld 2006
 - OOSPLA 2006
 - Long Tutorial at EclipseCon 2007



IP Issues

- About and license files are complete and correct
- Project log complete and has been reviewed by Eclipse Legal
 - The URL is <u>http://www.eclipse.org/modeling/emf/eclipse-project-ip-log.csv</u>
- All significant and third-party contributions have been reviewed by Eclipse Legal (none, at present)
- Contributor contact list maintained by Project Lead and sent to EMO

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IP Issues

- The contributions for this release were recorded in these bugzillas
- 129874 Default encoding for XML save doesn't preserve Unicode characters
- 136881 JET override/inserts for ItemProvider.javajet
- 147594 JET Compiler doesn't create missing target folder
- 149770 JETBuilder should call IWorkspace.validateEdit(..) before file updates
- 150500 bugs in merge algorithm in AdapterFactoryContentProvider\$ViewerR efresh
- 156783 Add AES implementation of URIConverter.Cipher
- 161744 getReachableObjectsOfType StackOverFlow on Large Instance DataClick to add an outline

- 165770 Enhance combo box cell editor to support typing a prefix filter
- 166112 Support XML Processing Instructions
- 166967 When serializing XML documents, trailing comments don't get placed on a new line
- 170204 ID of Plugin containing a generated EPackage
- 170223 eNameToFeatureMap in EClassImpl is not being updated, after structural feature name had changed
- 179004 [Compatiblity]JDOM-based JMerge facade NPEs standard JMerge rules
- 185971 EMF RegistryReaders need to be dynamic

