

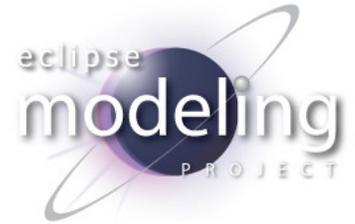
XSD 2.4.0 Ganymede Simultaneous Release

June 4th, 2008



Ganymede Release Talking Points

- Noteworthy New Features
 - Several performance and usability improvements, including
 - Reduction of the number of objects created when parsing a XSD file
 - Performance improvements when validating big elements
 - Reduction of the memory footprint due to the use of the packaged Enum feature introduced in EMF 2.4 (see bugzilla 226815 for details)
 - This information can also be seeing at http://wiki.eclipse.org/MDT_1.1_New_and_Noteworthy#XML_Schema_Definition_.28XSD.29_Component



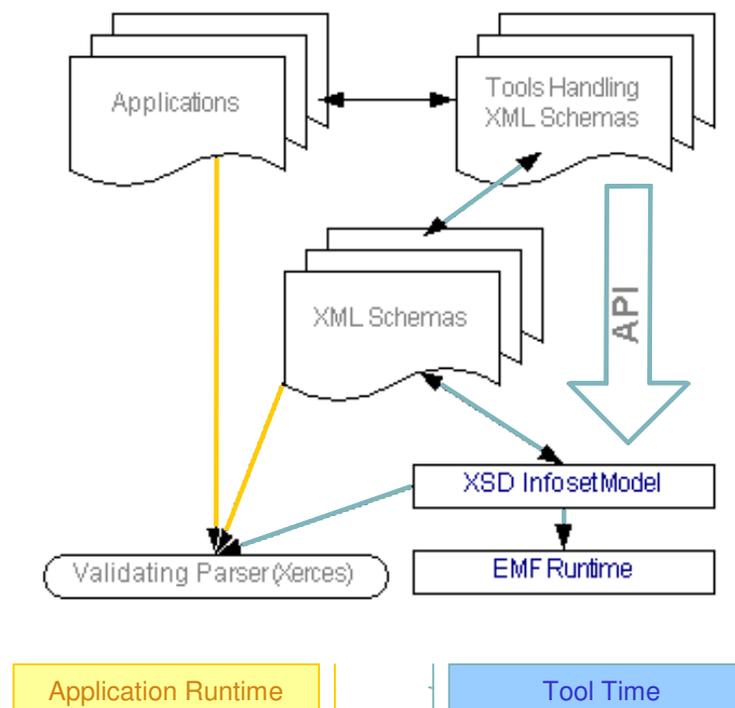
Ganymede Release Talking Points

- Quality of APIs
 - The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release
- End of Life Issues:
 - No significant deprecations, deletions, or other end-of-life changes
- IP Issues:
 - All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance
- Committer Changes
 - None



XML™ Schema Definition Model (XSD)

- XSD is a reference library that provides an API for use with any code that examines, creates or modifies W3C XML Schema (standalone or as part of other artifacts, such as XForms or WSDL documents)
- XSD provides APIs for...
 - manipulating components of an XML Schema
 - manipulating the DOM-accessible representation of XML Schema as a series of XML documents
 - keeping these representations in agreement as schemas are modified



Non-Code Aspects

- Change Management
 - Every change in XSD is described by at least one bugzilla
 - The XSD Release Notes presents all the bugzillas implemented in a given build:
<http://www.eclipse.org/modeling/emf/news/relnotes.php?project=xsd&version=HEAD>
- Plan Items
 - Release plan document:
http://www.eclipse.org/modeling/mdt/docs/plans/mdt_project_plan_1_1.html#_XSD_component
 - There is no planned items as “XML Schema 1.1. Investigate support for XML Schema 1.1” was deferred for a future release
 - 61 bugzillas addressed in the 2.4.0 release as of May 13th, 2008

Non-Code Aspects

- 75 JUnit Tests
 - Combined with a few tests from EMF
- Packaging
 - The XSD zips were changed in the M5 milestone, which happened on February 11, 2008. Since then, to both save bandwidth and make it easier to add source & docs to an existing installed runtime, the SDK zips include only source and doc.
- Documentation
 - The documentation is available at <http://wiki.eclipse.org/index.php/MDT-XSD>

APIs

- The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release
- Historically, clients of XSD have treated every class in XSD 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”
 - It is widely known that users are not expected to extend the EMF code generated for the XSD model

APIs

- 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

Architectural Details, Usability, End-of-Life

- Architectural Details
 - As the 2.3 version, XSD 2.4 requires a 5.0 JVM or greater
- Usability
 - Users can now install the examples through wizards located under the “Example” category
 - The names of the XSD bundles and features were modified to better match other Eclipse features and to increase their homogeneity
 - We’ve revised the categories of the XSD wizards to simplify the user’s out-of-box experience
- End-of-Life Issues
 - Continuing viability of deprecated API guaranteed

Bugzilla

- As of May 14th, 2008 (since the end of the 2.3.0 release with Europa):

		Status				
		NEW	RESOLVED	VERIFIED	CLOSED	Total
Severity	blocker	.	<u>1</u>	<u>2</u>	.	<u>3</u>
	critical	.	.	<u>4</u>	.	<u>4</u>
	major	.	<u>1</u>	<u>11</u>	.	<u>12</u>
	normal	<u>1</u>	<u>19</u>	<u>141</u>	<u>4</u>	<u>165</u>
	minor	.	.	<u>7</u>	.	<u>7</u>
	trivial	.	.	<u>3</u>	.	<u>3</u>
	enhancement	<u>4</u>	<u>1</u>	<u>29</u>	.	<u>34</u>
	Total	<u>5</u>	<u>22</u>	<u>197</u>	<u>4</u>	<u>228</u>

Note: the high number of “verified” bugzillas is partially due to a change in our development process (see bugzilla 206558 for further details)

Standards and UI Usability

- Standards
 - W3C XML Schema 1.0 used/supported
 - The plan item to investigate 1.1 support was deferred
- UI Usability
 - Internationalization
 - XSD 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

- XSD is a “+1” component in the simultaneous release
- We missed the dates for these Milestone builds
 - M6 slipped from 31 March to 2 April and M7 slipped from 5 May to 6 May

2.4 Release Plan

- ✓ M2: 2007-09-26
- ✓ M3: 2007-11-07
- ✓ M4: 2007-12-16
- ✓ M5: 2008-02-09
- ✓ M6: 2008-04-02
- ✓ M7: 2008-05-06
- RC1: 2008-05-16
- RC2: 2008-05-23
- RC3: 2008-05-30
- RC4: 2008-06-06
- 2.4: 2008-06-13

2.0 Release Plan

- ✓ 2.0.6: 2007-10-03

2.1 Release Plan

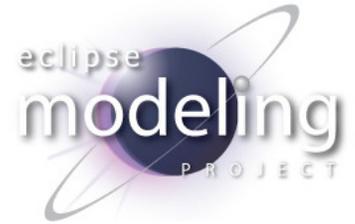
- ✓ 2.1.3: 2007-10-03

2.2 Release Plan

- ✓ 2.2.4: 2007-10-03

2.3 Release Plan

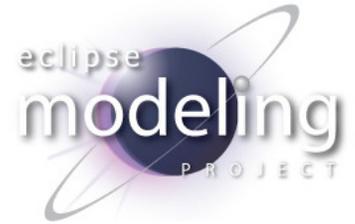
- ✓ 2.3.1: 2007-09-26
- ✓ 2.3.2: 2008-02-05



Communities

- Fairly active newsgroup
 - `eclipse.tools.xsd`
- Steady interaction in both Bugzilla and on newsgroup
- Draws a lot of attention due to the close integration with EMF
- Is benefiting from the fantastic momentum that the components of the Eclipse Modeling project are experiencing



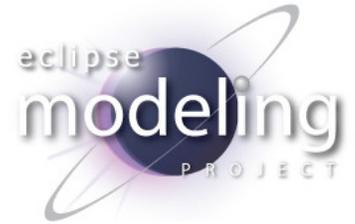


Communities

- Conference Participation (using XSD 2.4.0)
 - EclipseWorld 2007
 - Tutorial and several talks at EclipseCon 2008

❖ XSD is used by EMF whenever an Ecore model is created from a XML Schema, hence it usually “participates” in the conferences in which EMF is presented.



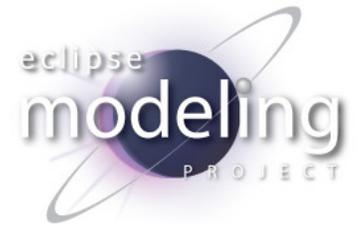


IP Issues

- The XSD component leadership verifies that
 - The about files and use licenses are in place as per the Guidelines to Legal Documentation.
 - All contributions (code, documentation, images, etc) have been committed by individuals who are either Members of the Foundation, or have signed the appropriate Committer Agreement. In either case, these are individuals who have signed, and are abiding by, the Eclipse IP Policy.
 - All significant contributions have been reviewed by the Foundation's legal staff.
 - All non-Committer code contributions, including third-party libraries, have been documented in the release and reviewed by the Foundation's legal staff.

IP Issues

- The XSD component leadership verifies that (cont.)
 - All Contribution Questionnaires have been completed.
 - The "provider" field of each plug-in is set to "Eclipse.org".
 - The "copyright" field of each feature is set to the copyright owner (the Eclipse Foundation is rarely the copyright owner).
 - Any third-party logos or trademarks included in the distribution (icons, help file logos, etc) have been licensed under the EPL.
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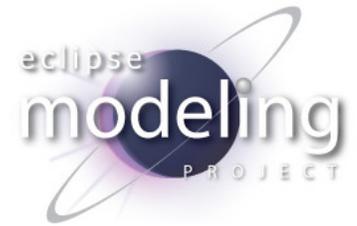
IP Issues

- The XSD project IP log is located at <http://www.eclipse.org/modeling/mdt/eclipse-project-ip-log.php>



IP Issues

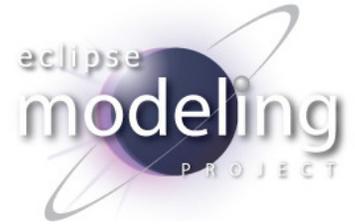
- The contributions for this release were recorded in these bugzillas
 - [166112](#) - Support XML Processing Instructions
 - [229998](#) - EMOF™ Comment and Property.oppositeRoleName support



Project Plan

- A draft development plan for XSD 2.5 is not yet available





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