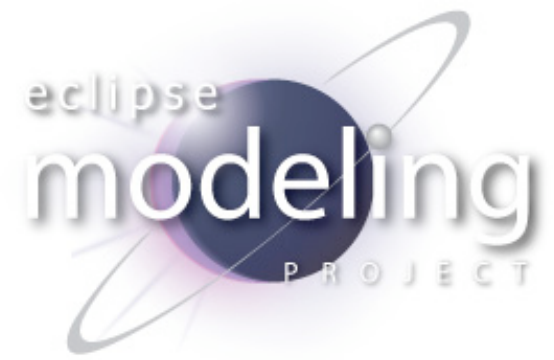


# Object Constraint Language (MDT OCL) 1.2.0 Ganymede Simultaneous Release Review

4 June, 2008



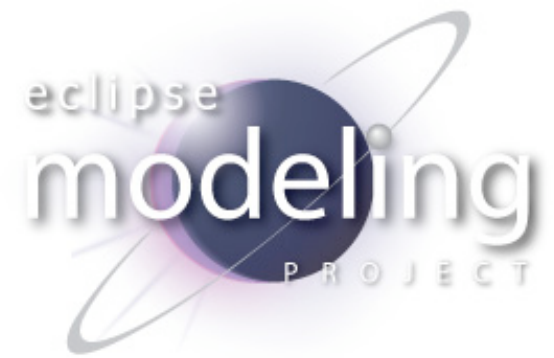
# Agenda

- **Talking Points**
- Features
- Non-Code Aspects
- APIs
- Architectural Issues
- Tool Usability
- End-of-Life
- Bugzilla
- Standards
- UI Usability
- Schedule
- Communities
- IP Issues
- Project Plan



## Talking Points

- OCL 1.2.0 Themes (from MDT)
  - End-to-End MDSD
  - Improved Usability
- 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.
- All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance
- 1 committer from two companies (IBM, Zeligsoft) in one country (Canada)
- 4 contributors from four organizations (Thales, OpenCanarias, IBM, student)



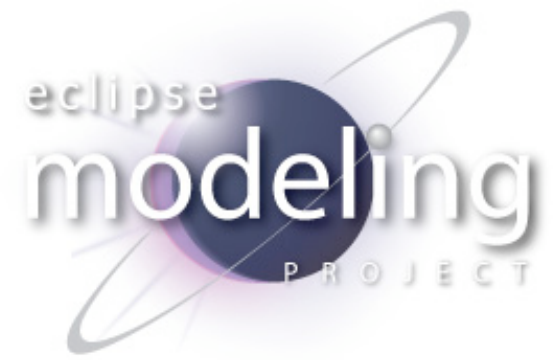
# Features

- 1.2.0 development plan available at [http://www.eclipse.org/modeling/mdt/docs/plans/mdt\\_project\\_plan\\_1\\_1.html#\\_OCL\\_component](http://www.eclipse.org/modeling/mdt/docs/plans/mdt_project_plan_1_1.html#_OCL_component)
- 5 committed, 0 deferred
- New & Noteworthy documentation at [http://wiki.eclipse.org/MDT\\_1.1\\_New\\_and\\_Noteworthy#Object\\_Constraint\\_Language\\_.28OCL.29\\_Component](http://wiki.eclipse.org/MDT_1.1_New_and_Noteworthy#Object_Constraint_Language_.28OCL.29_Component)
- Release notes available at <http://www.eclipse.org/modeling/mdt/news/relnotes.php?project=ocl&version=1.2.x>



## Features – Details

- End-to-End MDSD
  - **Grammar Extensibility.** Refactored the grammar definition and API for extensibility, esp. for QVT. Contribution from the community.
  - **Problem Reporting.** Enhanced problem reporting for construction of OCL™ and QVT editors. Contribution from the community.
  - **EValidators for OCL.** Implementation of EValidators for extensible validation of OCL abstract syntax models.
- Improved Usability
  - **Ecore Reflection.** Provide access to the implicit Ecore APIs for reflection. Contribution from the community.
  - **Unnamed association ends.** Implement navigation of unnamed association ends (advanced OCL specification compliance point).



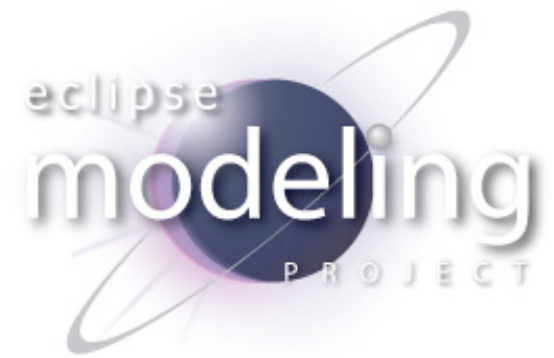
## Non-Code Aspects

- Documentation hosted at MDT [Web site](#), [Wiki](#)
- [Documentation](#) (FAQ, Javadoc™, articles, etc.) available; updated for the 1.2.0 release as appropriate
- Example feature/plugin available; minor enhancements

# APIs



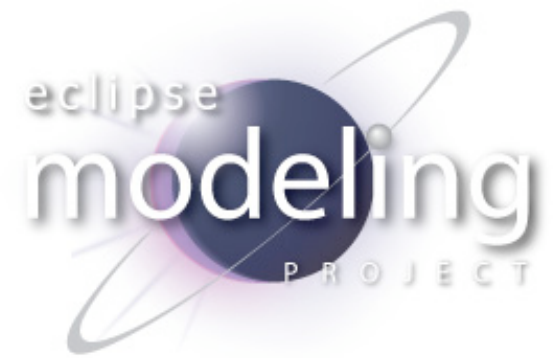
- The component lead certifies that the requirements for **Eclipse Quality** APIs have been met for this release
- Non-API in “internal” namespace
- Some ‘discouraged access’ warnings in cases of metamodel extension (plug-in compatibility restricted to minor version)
  - Ecore and UML<sup>®</sup> bindings extend corresponding metamodel implementations
- Previously internal API for the OCL concrete syntax (grammar and parser) refactored for extensibility and published for consumption by QVT and other consumers.
  - Dependency on SourceForge LPG 3rd-party library exposed to clients
- Deprecated APIs from 1.0 release continue to be fully supported



## Architectural Issues

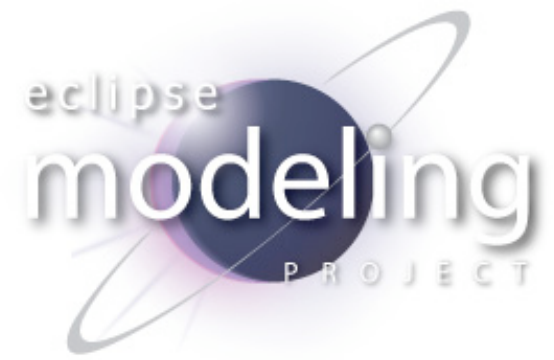
- Grammar/parser refactorings contributed in support of language extensibility
- Extensible validation is provided by new EValidators for the abstract syntax model (validation visitor was not extensible)
- Outstanding issues in reusability/extensibility of the OCL Standard Library implementation for clients such as QVT





## Tool Usability

- Implementation of an additional OCL specification compliance point (navigation of unnamed association ends) improves usability of OCL for UML models, especially in working with profiles



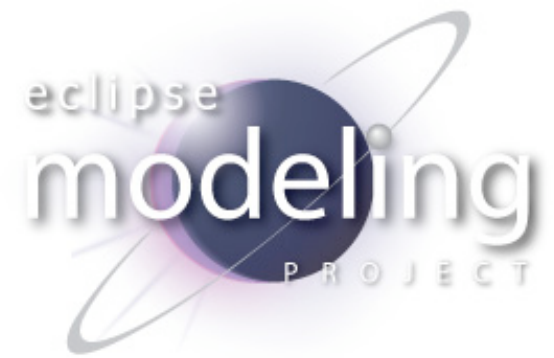
## End-of-Life

- No end-of-life concerns

## Bugzilla (as of May 12, 2007)

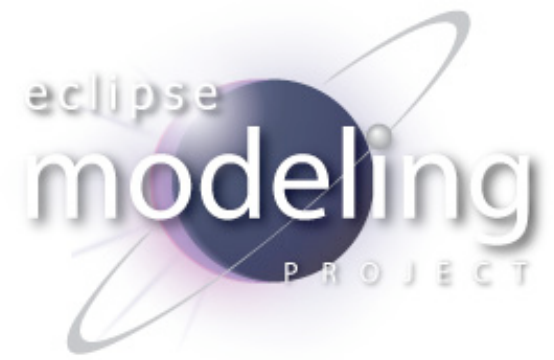
- Bugs raised during and/or resolved in the Ganymede release

		Status				
		NEW	RESOLVED	VERIFIED	CLOSED	Total
Severity	blocker	.	.	<u>1</u>	.	<u>1</u>
	critical	.	.	<u>3</u>	.	<u>3</u>
	major	.	<u>3</u>	<u>7</u>	.	<u>10</u>
	normal	<u>3</u>	<u>7</u>	<u>35</u>	<u>1</u>	<u>46</u>
	minor	.	<u>1</u>	<u>4</u>	.	<u>5</u>
	trivial	<u>1</u>	.	.	.	<u>1</u>
	enhancement	<u>9</u>	<u>1</u>	<u>10</u>	.	<u>20</u>
	<b>Total</b>	<u>13</u>	<u>12</u>	<u>60</u>	<u>1</u>	<u>86</u>



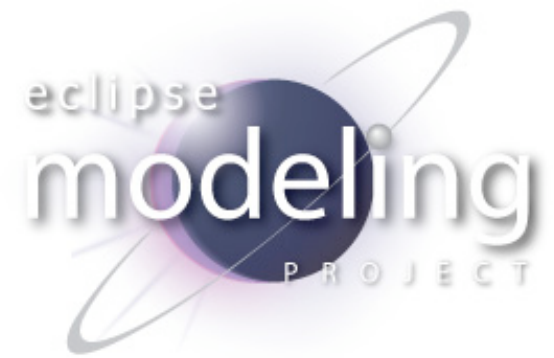
## Standards

- Object Constraint Language (OCL) 2.1 revision underway; MDT OCL 1.2.0 compliant (with extensions) with [2.0 formal version](#)



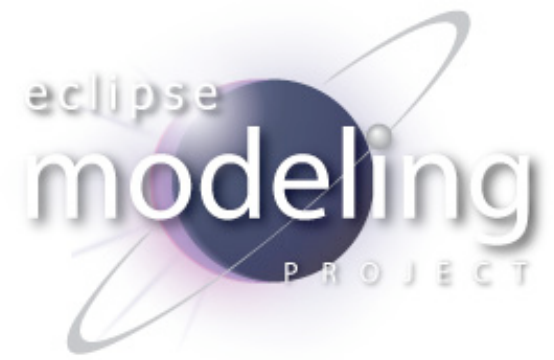
## UI Usability

- No significant changes over previous release.



## Schedule

- MDT OCL is a “+1” component in the simultaneous release (changed from +2 for the M4 milestone)
- M3 met on 14 November
- M4 met on 17 December
- M5 slipped from 11 February to 12 February
- M6 slipped from 31 March to 2 April
- M7 slipped from 5 May to 6 May



## Communities

- Steady interaction in [Bugzilla](#) and on [newsgroup](#)
- MDT OCL represented at EclipseCon 2008 (long talk, BoF) and Eclipse/OMG Symposium
- Collaboration with QVT projects at Eclipse (M2M QTVo, GMT UMLX) and elsewhere (OpenCanarias)

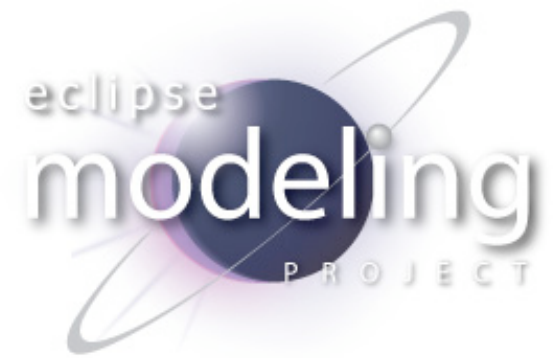


# IP Issues

The MDT OCL 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.
- 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.
- any third-party logos or trademarks included in the distribution (icons, help file logos, etc) have been licensed under the EPL.
- any fonts or similar third-party images included in the distribution (e.g. in PDF or EPS files) have been licensed under the EPL.
- The MDT project IP log is located at <http://www.eclipse.org/modeling/mdt/eclipse-project-ip-log.csv>
- Committer Christian W. Damus changed employment (IBM to Zeligsoft, Inc.)





## Project Plan

- Draft development plan for MDT OCL 1.3.0 is not yet available



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