Object Constraint Language (MDT OCL) 1.2 Ganymede Simultaneous Release Review

4 June, 2007

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 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 development plan available at 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

- 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 release as appropriate

- Example feature/plug-in 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 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

Architectural Issues

- Grammar/parser refactorings in support of language extensibility

- Extensible validation 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)

Status

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

Standards

- Object Constraint Language (OCL) 2.1 revision underway; MDT OCL 1.2 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 (the Eclipse Foundation is *rarely* the copyright owner).
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- The MDT project IP log is located at http://www.eclipse.org/modeling/mdt/eclipse-project-ip-log.csv

Project Plan

- Draft development plan for MDT OCL 1.3 is not yet available

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