



Object Constraint Language (MDT OCL) 1.3 Galileo Simultaneous Release Review

June 10, 2009



Agenda

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- Non-Code Aspects
- APIs
- Architectural Issues
- End-of-life
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Talking Points

- OCL 1.3 Themes
 - ◆ 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.
- 4 committers from 4 companies (Borland, OBEO, OpenCanarias, Thales) in 4 countries (France, Russia, Spain, UK)
- 6 contributors



Features

- 1.3 development plan available at

<http://www.eclipse.org/projects/project-plan.php?planurl=>

<http://www.eclipse.org/modeling/mdt/ocl/project-info/plan.xml&component=OCL>

- ◆ 10 committed, 5 deferred

- New & Noteworthy documentation at

http://wiki.eclipse.org/MDT/OCL/New_and_Noteworthy/Galileo

- Release notes available at

<http://www.eclipse.org/modeling/mdt/news/relnotes.php?project=ocl&version=1.3.x>



Features - Details

- End-to-End MDSD
 - ◆ **Extensibility.** Refactored OCL type checking system, evaluation visitor and standard library for extensibility.
Escape-sequences in String Literals. Control characters like '\n' or '\r' are now supported by OCL.
- Improved Usability
 - ◆ **Error Recovery in OCL Grammar.** Backtracking-parser based error recovery allows to report multiple errors in the OCL input.
 - ◆ **Enhanced Tracing.** Finer-grained control is available using system properties named according to the OCL plug-in's trace options.



Non-Code Aspects

- Documentation hosted at [MDT Web site](#), [Wiki](#)
- [Documentation](#) (FAQ, Javadoc, articles, etc.) available
- Example feature/plug-in available; a more powerful example of OCL console is being developed



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 evaluation visitor refactored for extensibility and published for consumption by QVT and other consumers.



Architectural Issues

- Grammar/parser supports language extensibility
- Extensible validation provided by EValidators for the abstract syntax model
- Evaluation visitor supports exception propagation for exception support in extending languages such as QVTO
- OCL type system made extensible to introduce new types in languages such as QVTO
- OCL standard library made extensible



Tool Usability

- OCL is used for model validation as a constraint definition language as well as in downstream projects like QVTO where it is used for model navigation and extended for model updates.



End-of-Life

- No end-of-life concerns



Bugzilla (as of May 28, 2009)

		Status					Total	
		NEW	ASSIGNED	REOPENED	RESOLVED	VERIFIED	CLOSED	Total
Severity	critical	.	.	.	1	1	.	2
	major	.	1	.	3	2	.	6
	normal	24	.	2	28	13	1	68
	minor	1	.	.	.	1	.	2
	trivial	.	.	.	2	1	.	3
	enhancement	23	.	.	13	8	.	44
	Total	48	1	2	47	26	1	125



Standards

- Object Constraint Language (OCL) 2.1 revision underway; MDT OCL 1.3 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
 - ✓ M1 8/13/2008
 - ✓ M2 9/24/2008
 - ✓ M3 11/5/2008
 - ✓ M4 12/18/2008
 - ✓ M5 2/5/2009
 - ✓ M6 3/18/2009 API freeze
 - ✓ RC1 5/20/2009
 - ✓ RC2 5/27/2009



Communities

- Steady interaction in Bugzilla and on newsgroup
- Collaboration with QVT projects at Eclipse (M2M QTV Operational, M2M QVT Declarative, GMT UMLX, M2T MTL (Acceleo)) 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.
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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 1.4 is not yet available



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