

MoDisco/HeliosReview

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< MoDisco

< To: MDT

This page provides the required *docuware* for the **MoDisco v0.8.0 Release Review**, as part of the upcoming **Helios Simultaneous Release**.



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Overview

MoDisco stands for Model Discovery.

It provides a generic and extensible MDE framework to support different reverse engineering scenarios such as modernization, quality assurance, retro-documentation, architecture improvement, etc.

Thus, the focus of MoDisco is on Model Driven Reverse Engineering.

It is an Eclipse Model Development Tools (MDT) project, inside the Eclipse Modeling Project (EMP).

IMPORTANT: MoDisco was formerly part of the Generative

MoDisco

Website (<http://www.eclipse.org/MoDisco/>)

Download (<http://www.eclipse.org/MoDisco/downloads/>)

Community

Mailing List (<https://dev.eclipse.org/mailman/listinfo/mdt.dev>) • Forums (<http://www.eclipse.org/forums/eclipse.modisco>)

Bugzilla

Open ([https://bugs.eclipse.org/bugs/buglist.cgi?query_format=advanced;bug_status=UNCONFIRMED;bug_status=NEW;bug_status=ASSIGNED;bug_status=REOPENED;bug_status=VERIFIED;component=MoDisco;component=MoDisco-Contribution;component=MoDisco-Infrastructure;component=MoDisco-Technologies;component=MoDisco-UseCases;classification=Modeling;product=MDT&keywords=helpwanted](https://bugs.eclipse.org/bugs/buglist.cgi?query_format=advanced;bug_status=UNCONFIRMED;bug_status=NEW;bug_status=ASSIGNED;bug_status=REOPENED;component=MoDisco;component=MoDisco-Contribution;component=MoDisco-Infrastructure;component=MoDisco-Technologies;component=MoDisco-UseCases;classification=Modeling;product=MDT))

Help Wanted ([https://bugs.eclipse.org/bugs/buglist.cgi?query_format=advanced;bug_status=UNCONFIRMED;bug_status=NEW;bug_status=ASSIGNED;bug_status=REOPENED;bug_status=VERIFIED;component=MoDisco;](https://bugs.eclipse.org/bugs/buglist.cgi?query_format=advanced;bug_status=UNCONFIRMED;bug_status=NEW;bug_status=ASSIGNED;bug_status=REOPENED;bug_status=VERIFIED;component=MoDisco;component=MoDisco-Contribution;component=MoDisco-Infrastructure;component=MoDisco-Technologies;component=MoDisco-UseCases;classification=Modeling;product=MDT&keywords=helpwanted)

Modeling Technologies (GMT) project, also inside EMP, and has successfully undergone a **Move Review on the 27th of April 2010**: the corresponding docuware can be found from the Eclipse past reviews page (<http://www.eclipse.org/projects/previous-release-reviews.php>)

Features

New in this release

For the first time, MoDisco is part of an Eclipse Simultaneous Release. The different features provided by **MoDisco v0.8.0**, as part of Helios, are of two categories.

Infrastructure

- The EMF reference implementation of **Knowledge Discovery Metamodel (KDM)**, an *OMG/ADM* standard), corresponding discoverers and a transformation to UML2;
- The EMF reference implementation of **Software Metrics Metamodel (SMM)**, an *OMG/ADM* standard);
- The customizable **Model Browser** for more efficiently navigating large and complex models discovered from legacy systems;
- The **Discovery Manager** for fastest integration of new or existing discoverers;
- The **Discovery Workflow** for more easily building discovery chains (including discoverers and transformations);
- The **Query Manager** for allowing language-independent querying on models of legacy systems;
- The **Facet Manager** for dynamically extending the metamodels used at different steps of the processes;
- The **Metrics Visualization Builder** for automatically generating HTML, SVG or Excel representations of metrics stored in a model.

Technologies

- **Java**
 - The EMF implementation of a metamodel for the full Java language;
 - The corresponding specific Model Browser customization;
 - The complete discoverer for automatically creating Java models from Java source code;
 - The complete generator for automatically creating Java source code from Java models;
 - The transformation from Java models to KDM models.
- **XML**
 - The EMF implementation of a metamodel for XML (*W3C* definition);
 - The corresponding specific Model Browser customization;
 - The complete discoverer for automatically creating XML models from XML documents/files.

Accordance with project plan themes and priorities

- Stabilize the architecture of the framework infrastructure
- Integrate other Eclipse technologies (done for ATL, Acceleo, CDO)
- Provide an intensive support for the Java legacy technology
- Extend the support to other legacy technologies (done for XML)
- Develop the MoDisco team and community (done through Eclipse events, conferences, books)

See <http://www.eclipse.org/projects/project-plan.php?projectid=modeling.mdt.modisco>

Non-Code Aspects

```
component=MoDisco-Contribution;
component=MoDisco-Infrastructure;
component=MoDisco-Technologies;
component=MoDisco-UseCases;
classification=Modeling;product=MDT&
keywords=bugday)
```

Contribute

Browse Source (<https://dev.eclipse.org/svnroot/modeling/org.eclipse.mdt.modisco/>) • Project Set File (<http://download.eclipse.org/modeling/mdt/modisco/modisco.psf>)

The complete MoDisco documentation is available from the MoDisco Wiki page (<http://wiki.eclipse.org/index.php/MoDisco>) :

- General documentation on the various components;
- Version specific information;
- Additional information on available use cases, as well as incubation and deprecated components.

The Help plugins are automatically generated from the content of the Wiki.

The MoDisco website (<http://www.eclipse.org/MoDisco/>) provides a direct access to all the related resources.

APIs

As this is the first time MoDisco is part of an Eclipse Simultaneous Release, there are no API related issues.

Architecture

The MoDisco architecture is detailed from <http://wiki.eclipse.org/MoDisco/Architecture>.

Testing & Packaging

MoDisco uses the **Modeling Project Releng** system to build and promote versions.

Each new build is tested at least with Eclipse 3.6 (Helios).

Core plugins are provided with dedicated test plugins checking their valid behavior.

MoDisco is integrated into the **Helios Release Train** since December 2009.

It is also part of the **Amalgamation Modeling Package for Helios**.

Tool Usability

MoDisco is used for building Model Driven Reverse Engineering solutions to different scenarios such as:

- Legacy Modernization
- Quality Assurance
- Retro-documentation
- Architecture Improvement
- Etc

End-of-Life

No components from the MoDisco previous release builds (0.7.1) have been deprecated.

Bugzilla

- Bugzilla (v0.8.0 only, snapshot taken on the 27th of May 2010):

		Status				
		NEW	ASSIGNED	RESOLVED	CLOSED	Total
Severity	blocker	.	.	2	1	3
	critical	.	.	.	1	1
	major	.	.	1	1	2
	normal	26	2	97	119	244
	minor	.	.	.	3	3
	trivial	.	.	.	1	1
	enhancement	14	3	8	35	60
	Total	40	5	108	161	314

Standards

The MoDisco project is working in close collaboration with the OMG Architecture Driven Modernization (ADM) Task Force (<http://adm.omg.org/>), which results in the EMF implementation of the **Knowledge Discovery Metamodel (KDM)** and **Software Metrics Metamodel (SMM)** specifications.

UI Usability

MDT MoDisco is conforming to the user interface guidelines.

Schedule

MDT MoDisco is a "+3" project in the simultaneous release

```

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M4      01/19/2010
M5      02/05/2010
M6      03/19/2010      API freeze
M7      05/05/2010      Feature Freeze
RC1     05/19/2010
RC2     05/26/2010
RC3     06/02/2010
RC4     06/09/2010
RC5     06/16/2010
Helios  06/23/2010
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```

Communities

- Strong collaboration with the OMG Architecture Driven Modernization (ADM) Task Force (<http://adm.omg.org/>)
 - MoDisco book chapter in *Information Systems Transformation: Architecture-Driven Modernization Case Studies* by The Morgan Kaufmann/OMG Press (pages 365-400)
 - Presentation at upcoming 2nd Biannual Symposium On Eclipse Open Source Software & OMG Open Specification (<http://www.omg.org/news/meetings/tc/mn/special-events/Eclipse.htm>) on June, 22 2010
- Several presentations and demos at **EclipseCon** (2009 & 2010) and **Eclipse Summit Europe** (2009)
- Dedicated MoDisco newsgroup (http://www.eclipse.org/forums/index.php?t=thread&frm_id=21&)

Committer Changes

No committer change.

IP Issues

The Eclipse IP Process has been strictly followed and all plugins contain the appropriate *about.html* and license files. The MoDisco IP Log is available from http://www.eclipse.org/projects/ip_log.php?projectid=modeling.mdt.modisco

- Some third-party libraries are used (cf. corresponding validated CQs)

All MoDisco content is released under EPL.

Project Plan

The current project plan is available from <http://www.eclipse.org/projects/project-plan.php?projectid=modeling.mdt.modisco>.

Next **MoDisco** version (**v0.9.0**) is planned to include:

- Consolidated core components (various enhancements on the Model Browser, Customization & Query mechanisms, Discovery Manager & Workflow);
- More extensive support for the Java technology;
- Dedicated support to several J2EE frameworks (Hibernate, Struts, etc).

Retrieved from "<http://wiki.eclipse.org/MoDisco/HeliosReview>"

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