MoDisco/HeliosReview

From Eclipsepedia

< 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


### Bugzilla

- Open (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; component=MoDisco-Contrib;component=MoDisco-Infrastructure; component=MoDisco-Technologies;component=MoDisco-UseCases; classification=Modeling;product=MDT&keywords=helpwanted)
- Bug Day (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;
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)


### Non-Code Aspects
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**


**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):
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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Communities

- Strong collaboration with the OMG Architecture Driven Modernization (ADM) Task Force (http://adm.omg.org/)
- Several presentations and demos at EclipseCon (2009 & 2010) and Eclipse Summit Europe (2009)

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**


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).

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