

# EMF/Transaction/HeliosReview

## From Eclipsepedia

< EMF | Transaction

This page provides the required *docuware* for the **EMF Transaction 1.4.0 Release Review**, as part of the upcoming **Helios Simultaneous Release**.

## Contents

- 1 Overview
- 2 Features
  - 2.1 New in this release
  - 2.2 Accordance with project plan themes and priorities
- 3 APIs
- 4 Architecture
- 5 Tool Usability
- 6 End-of-Life
- 7 Bugzilla
- 8 Standards
- 9 UI Usability
- 10 Schedule
- 11 Communities
- 12 Committer Changes
- 13 IP Issues
- 14 Project Plan

## Overview

The EMF Transaction project provides the following capabilities.

- Multi-threading - Supports a protocol for clients to read and write EMF models on multiple threads.
- Model Integrity - Semantic integrity is ensured by automatic validation to detect invalid changes and semantic procedures to proactively maintain correctness of semantic dependencies.
- Batched Events - Clients are notified of groups of related changes in batches, rather than as a stream of EMF notifications. In particular, this allows applications to analyze change sets in their entirety.
- Undo/Redo - For a simplified programming model, the API automatically tracks changes applied to models without the need for client code to use EMF edit Commands. These changes are encapsulated in transactions/operations that can undo and redo themselves.
- Editing Domain - Support cooperative editing of models by multiple editors/applications. EMF resources can be shared amongst different editing domains.
- Eclipse Workspace - The API provides traceability between EMF resources and workspace resources. Multi-threaded access is coordinated via the Eclipse jobs API and its integration with the workspace.
- Eclipse Operations - The API supports the Eclipse operation history as an undo stack for undo/redo of resource changes. The API provides a framework for undoable operations that automatically capture undo/redo information, which can be interleaved on the same history with dependent operations that do not modify the EMF model.

## Features

### New in this release

EMF Transaction is undergoing it's participation in the Eclipse Simultaneous release as it has for each and every release. This is the fifth yearly June release of EMF Transaction.

### Accordance with project plan themes and priorities

See the EMF Transaction project plan at <http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emf.transaction>

## APIs

APIs have not changed this release.

- The project lead certifies that the requirements for Eclipse Quality APIs have been met for this release.
- Metamodel definitions and corresponding implementations are considered APIs.
- API Tooling has been employed.

## Architecture

- No change.

## Tool Usability

- Tools haven't changed.

## End-of-Life

Nothing has been deprecated.

## Bugzilla

Bugzilla snapshot for the Helios release.

		Status					
Severity		NEW	ASSIGNED	REOPENED	RESOLVED	CLOSED	Total
	critical	.	<u>1</u>	.	.	.	<u>1</u>
	major	<u>1</u>	.	<u>1</u>	.	<u>1</u>	<u>3</u>
	normal	<u>11</u>	.	.	<u>6</u>	.	<u>17</u>
	enhancement	<u>5</u>	<u>1</u>	.	.	.	<u>6</u>
	Total	<u>17</u>	<u>2</u>	<u>1</u>	<u>6</u>	<u>1</u>	<u>27</u>

## Standards

Not applicable.

## UI Usability

Nothing has changed.

## Schedule

EMF Transaction is a “+1” component in the simultaneous release.

M1	08/17/2009	
M2	09/28/2009	
M3	11/09/2009	
M4	12/14/2009	
M5	02/01/2010	
M6	03/15/2010	API freeze
M7	05/03/2010	Feature Freeze
RC1	05/17/2010	
RC2	05/24/2010	
RC3	05/31/2010	
RC4	06/07/2010	
RC5	06/14/2010	
Helios	06/23/2010	

## Communities

- Interaction in Bugzilla
- Activity on the EMF newsgroup
- Collaboration with other projects at Eclipse
- Attendance at EclipseCon 2010

## Committer Changes

No committers changes on EMF Transaction for Helios.

## IP Issues

The EMF Transaction 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 Modeling Project".
- the "copyright" field of each feature is set to the copyright owner (the Eclipse Foundation is rarely 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 EMF Transaction Project IP log in located at [http://www.eclipse.org/projects/ip\\_log.php?projectid=modeling.emf.transaction](http://www.eclipse.org/projects/ip_log.php?projectid=modeling.emf.transaction)

## Project Plan

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

Draft development plan for next release is not yet available.

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

Category: EMF

- 
- [Home](#)
  - [Privacy Policy](#)
  - [Terms of Use](#)
  - [Copyright Agent](#)
  - [Contact](#)
  - [About Eclipsepedia](#)

Copyright © 2010 The Eclipse Foundation. All Rights Reserved

This page was last modified 20:53, 31 May 2010 by Anthony Hunter.

This page has been accessed 31 times.