# EMF Project
# Ganymede Simultaneous Release Mini Deck

June 4th, 2008
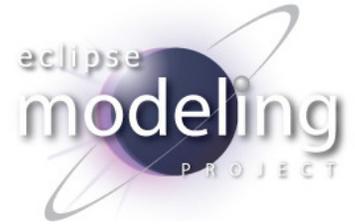
# What is the EMF Project?

- The Eclipse Modeling Framework (EMF) Project is an Eclipse Modeling sub-project
  - http://www.eclipse.org/modeling/emf/
- The project hosts the EMF component and other closely related components that have graduated from EMFT (the EMF Technology project) or that are based on reliable and quality-proven technologies
- Committers currently from Embarcadero Technologies, IBM, and Zeligsoft in addition to individuals contributions

# Current Components

## EMF

EMF is a modeling framework and code generation facility for building tools and other applications based on a structured data model. From a model specification described in XMI, EMF provides tools and runtime support to produce a set of Java classes for the model, a set of adapter classes that enable viewing and command-based editing of the model, and a basic editor. Models can be specified using annotated Java, XML documents, or modeling tools like Rational Rose, then imported into EMF. Most important of all, EMF provides the foundation for interoperability with other EMF-based tools and applications.

## SDO

Service Data Objects (SDO) is a framework that simplifies and unifies data application development in a service oriented architecture (SOA). It supports and integrates XML and incorporates J2EE patterns and best practices. EMF includes an EMF-based implementation of Service Data Objects.

## Teneo

Teneo is a database persistency solution for EMF using Hibernate or JPOX/JDO 2.0. It supports automatic creation of EMF to Relational Mappings. EMF Objects can be stored and retrieved using advanced queries (HQL or JDOQL).

## Query

The query component provides capabilities to specify and execute queries against EMF model elements and their contents.

## Transaction

The transaction component provides a model management layer built on top of EMF for managing EMF resources. It provides API that include extensions to the EditingDomain and related APIs of the EMF.Edit framework, and an internal model of transactions. It consists of two layers: a non-Eclipse core, providing primarily the "transaction model", and an Eclipse workspace integration layer.

## Validation

The validation component provides capabilities used to ensure model integrity.
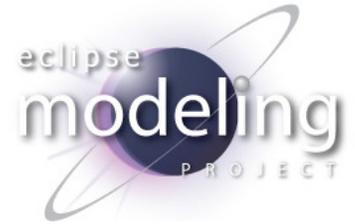
# Ganymede Release Talking Points

- Quality of APIs

  - The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release

  - A few classes were marked as "provisional" (this is further detailed on the EMF presentation)

- End of Life Issues:

  - No significant deprecations, deletions, or other end-of-life changes

- IP Issues:

  - All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance

  - The IP Log is located at http://www.eclipse.org/modeling/emf/eclipse-project-ip-log.php

# Ganymede Release Talking Points

- Committer Changes

    - Kenn Hussey now works for Embarcadero Technologies

    - Christian Damus now works for Zeligsoft

    - Martin Taal is now a committer as Teneo has been moved from EMFT to EMF
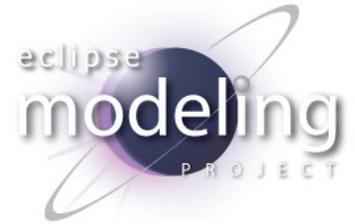
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