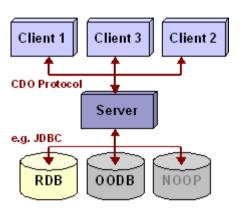




# **CDO Model Repository**

4.0 Release Review

### Introduction



The CDO (Connected Data Objects) Model Repository is a distributed shared model framework for EMF models and meta models. CDO is also a model runtime environment with a focus on orthogonal aspects like model scalability, transactionality, persistence, distribution, queries and more.

CDO has a 3-tier architecture supporting EMF-based client applications, featuring a central model repository server and leveraging different types of pluggable data storage back-ends like relational databases, object databases and file systems. The default client/server communication protocol is implemented with the Net4j Signalling Platform.

Project URL: <a href="http://www.eclipse.org/cdo">http://www.eclipse.org/cdo</a>

old: <a href="http://wiki.eclipse.org/CDO">http://wiki.eclipse.org/CDO</a>

### Major New Features in 4.0

- SSL connections
- MongoDB database integration
- DB4O database integration
- DB2 database integration
- Remote cross referencing
- Thread-safe views and transactions
- Commit handlers and loggers
- Notifications for branch switch / rollback
- Mapping of EModelElements
- Remerging of branches



# Major New Features in 4.0 (cont'd)

- Generic backup / restore with XML format
- Direct XMI export from CDOResources
- CDO Server Browser through HTTP
- URIs with connection info
- Fail-over monitors / agents
- Load balancing
- Streaming of large objects
- Containment cycle detection
- Referential integrity enforcement option

### Major New Features in 4.0 (cont'd)

- Sticky views and transactions
- Fault tolerant sessions
- Server-side views and Eobjects
- Scalable EContentAdapter
- Scalable ModificationTrackingAdapter
- OCL query language handler
- Dawn: EcoreTools diagramming support
- Dawn: EMF tree editing support

# Other Release Highlights

- Net4j is now a component of CDO
- Quality of APIs
  - 4.0 API is partly incompatible with 3.0
  - API Tooling has been used consequently
- IP
  - IP Log URL: <u>http://www.eclipse.org/projects/ip\_log.php?projectid</u> =modeling.emf.cdo
- Committer Diversity
  - 10 committers from 9 different companies (+1)
  - One addition to the team is pending

### Project Activity Since 3.0

#### Bugzilla

- 111 of 274 enhancements done (163 left open)
- 172 of 229 bugs fixed (57 left open)

#### Source repository

Successful migration from CVS to SVN

#### Communication

- 1283 newsgroup posts over last year
- Talks at EclipseCon, ESE, JAX, several demo camps

### Schedule

#### Indigo

- All release train schedules were met
- Continuous integration builds on Hudson

#### Plan URL

http://www.eclipse.org/projects/projectplan.php?projectid=modeling.emf.cdo