



EclipseLink 2.6.0 Release Review
Proposed Release Date: March 10th 2015

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Project Overview



- Complete persistence framework that is both comprehensive and universal
- Supported in the following containers:
 - OSGi, Java EE, Java SE, Spring Framework
 - Equinox specific fragments included for extended usage
- Read and write objects to virtually any type of data source
 - Including Relational Databases, NoSQL, XML, JSON, ...
- Standards Based
 - Java Persistence API (JPA)
 - Java Architecture for XML Binding (JAXB)
 - Java API for JSON Processing (JSON-P)
 - Service Data Objects (SDO)



Project Overview (cont'd)

■ Milestones

- Creation Review – May 30th, 2007
- Initial Source Drop – Aug 23rd, 2007
- Major releases
 - ...
 - 2.2.0 Release Feb 22 2011
 - 2.3.0 Release: June 22 2011 - Indigo
 - 2.4.0 Release: June 22 2012
 - 2.5.0 Release: May 27 2013
 - 2.6.0 Release: March 10 2015



EclipseLink 2.6.0 New Features

- Performance, Maintenance
 - Several performance improvements on all components
 - >220 bugs fixed
- JPA
 - Pluggable Serializers
 - JGroups support
 - Server Auto-detection
- JPA-RS
 - Pagination, Versions, Filtering, ...
- MOXy
 - Bean Validation integration
 - JSON-P (Java API for JSON Processing) integration

Project Health



- Active Code Base
- Testing
 - JUnit test cases for regression testing
 - Continuous build
 - Run if code changes
 - Compile and Smoke tests
 - Over 60,000 tests run nightly on Eclipse Foundation servers
 - Additional configurations run regularly on Oracle servers
 - EclipseLink is tested as a part of Java EE Compatibility Test Suite
 - Java Persistence API TCK tests

Project Health (cont'd)



- Documentation
 - Full Technical Docs on Wiki
 - <https://www.eclipse.org/eclipselink/documentation/>
 - Javadocs hosted online:
 - <http://www.eclipse.org/eclipselink/api/latest/index.html>
 - Other documentation on wiki
 - FAQ
 - Examples - <http://wiki.eclipse.org/EclipseLink/Examples>
 - Over 25 How to examples

Open Source



- Permeable
 - Issue discussions
 - mailing lists (eclipselink-dev and eclipselink-users)
 - Eclipse Bugzilla
 - All code available through anonymous Git
 - Architecture described on project Wiki along with feature design docs
- Receptive
 - Bug fixes and features implemented in a timely manner
 - Newsgroup and mailing list questions fielded promptly

Community



- Developers
 - >30 committers: Oracle, IBM, >10 active
 - Several Code contributions from individual contributors
- Users
 - Growing community of enterprise development orgs
 - Oracle
 - SAP
 - TmaxSoft
 - SpringSource
- Distributions
 - GlassFish, Spring Framework, JOnAS, and Oracle (TopLink & WebLogic)

Community (cont'd)



- EclipseLink Continues to upgrade on line documentation and website to make adoption easy
 - Updated Wiki Pages
 - Javadocs available online and updated with every milestone
 - Wiki used to facilitate open communication

- Supported Spec APIs
 - Implements:
 - JPA 2.1, JPA 2.0, JPA 1.0, JAXB 2.0, JAXB 2.1, SDO 2.1, SDO 2.1.1
 - JPA 2.1 Reference Implementation (JSR 338)
 - JPA 2.0 Reference Implementation (JSR 317)
 - SDO 2.1.1 Reference Implementation (JSR 235)
 - Integrates with: JDBC, JCA, JAXP, JTA, JSON-P, Bean Validation
- Native API
 - Extensive API for Persisting Java Objects
 - Migration tools and strategy from earlier Oracle TopLink releases

Architectural Features



- Basic Architecture built on Product over 14 years of commercial usage
 - Stable and Performant
- Adaptable architecture - easily add/modify features in EclipseLink
 - Database Platform – add/modify support for specific database
 - Server Platform - add/modify support for specific Application Server
 - Events triggered on data store access
 - Policies – most features implemented with pluggable policies
 - Optimistic Locking
 - Caching
 - Object Instantiation
 - and many more

- IP Log
 - http://www.eclipse.org/projects/ip_log.php?projectid=rt.eclipselink
 - All IP (except 3rd Party jars) dual licensed under EPL and EDL
 - All 3rd party dependencies are approved
- IP log approved
- Project Plan
 - <http://www.eclipse.org/projects/project-plan.php?projectid=rt.eclipselink>



End Of Life Strategy

- 2.6.0 Release
 - No features are being deprecated

Schedule



- EclipseLink 2.6.0
 - *Start date: June 2013*
 - Currently planned for: March 10th 2015
 - <https://wiki.eclipse.org/EclipseLink/Development>

Feedback



- **Newsgroup:** `http://www.eclipse.org/newsportal/thread.php?group=eclipse.rt.eclipselink`
- **Mailing lists:**
 - eclipselink-dev@eclipse.org
 - Release Review communication channel
 - eclipselink-users@eclipse.org
- **Eclipse Bugzilla**
 - RT
 - Product: EclipseLink