



*EclipseLink 2.6.0 Release Review*  
*Proposed Release Date: March 3<sup>rd</sup> 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 30<sup>th</sup>, 2007
- Initial Source Drop – Aug 23<sup>rd</sup>, 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 3 2015



# *EclipseLink 2.6.0 New Features*

- Performance, Maintenance
  - Several performance improvements on all components
  - >200 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
  - Weekly Open Project Status Meeting
  - All code available through anonymous SVN
  - 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](http://www.eclipse.org/projects/ip_log.php?projectid=rt.eclipselink)
  - All IP (except 3<sup>rd</sup> Party jars) dual licensed under EPL and EDL
  - All 3<sup>rd</sup> 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 3<sup>rd</sup> 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](mailto:eclipselink-dev@eclipse.org)
    - Release Review communication channel
  - [eclipselink-users@eclipse.org](mailto:eclipselink-users@eclipse.org)
- **Eclipse Bugzilla**
  - RT
  - Product: EclipseLink