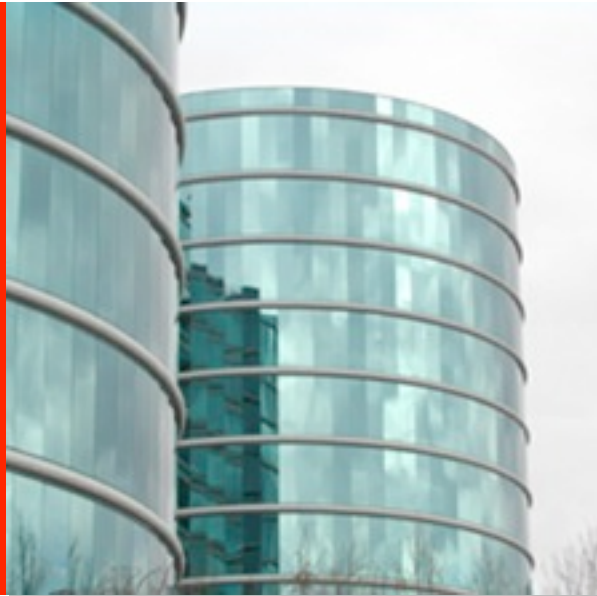



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## **JDK 7 Updates in OpenJDK LinuxTag, May 23rd 2012**

Dalibor Topić (@robilad)  
Principal Product Manager



The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

# Audience Survey

- Downloaded a JDK 7 (update) release?
  - Using it?
- Downloaded a JDK 7 Developer Preview Release build from [jdk7.java.net](http://jdk7.java.net)?
- Downloaded a JDK 8 Developer Preview Release build from [jdk8.java.net](http://jdk8.java.net)?
- Following @OpenJDK or @Java on Twitter?

# June 2011: Moving to OpenJDK as RI

“In its role as the specification lead, Oracle is responsible for delivering the Java SE 7 Reference Implementation.

In line with our strategy towards a more open Java ecosystem, we are going to provide a Reference Implementation that is based entirely on the OpenJDK open source code and make it available under the GPL open source license.”

Henrik Ståhl, Sr. Director of Product Management in the Java Platform Group at Oracle, in a blog post at [blogs.oracle.com/henrik/entry/moving\\_to\\_openjdk\\_as\\_the](http://blogs.oracle.com/henrik/entry/moving_to_openjdk_as_the)

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# Java SE 7 Reference Implementation

- Available at <http://jdk7.java.net/java-se-7-ri/>
- Based solely upon open-source code available from the [JDK 7 Project](#) in the [OpenJDK Community](#).
- Binaries are provided for both the linux-x64 and windows-i386 platforms.
  - These binaries are provided primarily for use by implementors of the Java SE 7 Platform Specification and are recommended for reference purposes only.
- The Reference Implementations have been approved by the JCP and will receive no further updates, not even for security issues.

# July 28th, 2011: Java SE 7 is GA

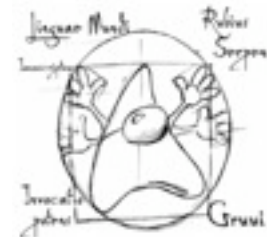
“Oracle today announced the availability of Java Platform, Standard Edition 7 (Java SE 7), the first release of the Java platform under Oracle stewardship. The Java SE 7 release is the result of industry-wide development involving open review, weekly builds and extensive collaboration between Oracle engineers and members of the worldwide Java ecosystem via the OpenJDK Community and the Java Community Process (JCP).”

Oracle Press Release at <http://www.oracle.com/us/corporate/press/444374>

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# Java SE 7 Release Contents

- Java Language
  - Project Coin (JSR-334)
- Class Libraries
  - NIO2 (JSR-203)
  - Fork-Join framework, ParallelArray (JSR-166y)
- Java Virtual Machine
  - The DaVinci Machine project (JSR-292)
  - InvokeDynamic bytecode
- Miscellaneous things
- JSR-336: Java SE 7 Release Contents





# JDK 7 Updates in OpenJDK

- Goal: Develop JDK 7 Updates in the open
  - JDK 7 Updates Project in OpenJDK
    - [openjdk.java.net/projects/jdk7u](http://openjdk.java.net/projects/jdk7u) : Website
    - [hg.openjdk.java.net/jdk7u/jdk7u](http://hg.openjdk.java.net/jdk7u/jdk7u) : Source code
  - Oracle JDK 7 updates are based on it
    - That was **not** the case for OpenJDK 6
- Transparent development process
  - Public commit approvals & reviews
  - Bug fixes typically go into JDK 8 first,
    - then get backported to JDK 7 Updates
- Always open for fixes mainline forest
  - Additional forests as needed (jdk7u-osx, jdk7u4, ...)

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# JDK 7 Updates Timeline So Far

- June 2011: Project proposed & approved
- July 2011: Mainline jdk7u Mercurial forests created
- August 2011: Development processes put in place
- September 2011: 7u2 release forest created
- October 2011: 7u1 released (Critical Patch Update)
  - Fixes for issues reported by Apache Lucene devs
- November 2011: jdk7u-osx merge forest created
- December 2011: 7u2 released
- February 2011: 7u3 released (CPU)
  - Mac OS X Port merged & 7u4 forest created
- April 2011: 7u4 released
- May 2011: 7u4 is default JRE on Java.com

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# OCTLA for Java SE 7

“The OCTLA for Java SE 7 is now posted on the [OpenJDK Legal](#) page.

The version for Java SE 7 is fundamentally the same as was for Java SE 6 with a few changes (mostly for clarification purposes related to FAQ’s from the SE 6 version).

In particular, there are more details in the confidential information section clarifying some common use cases.”

Donald Smith, Director of Product Management in ‘OpenJDK Community TCK License for Java SE 7 Available’ blog post at

<http://openj.dk/2012/01/10/openjdk-community-tck-license-for-java-se-7-available/>

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# DLJ

“Now, with OpenJDK 7 serving as the basis for Oracle JDK 7 releases, and moving to run much closer in sync than OpenJDK 6 and Oracle JDK 6 did, the DLJ is no longer necessary.

As a consequence, further Oracle JDK 6 (or Oracle JDK 7) releases on Linux and Solaris will not be provided under the DLJ. They will continue to be provided under the familiar Oracle JDK license, the BCL.”

Dalibor Topić, last jdk-distros project lead in ‘Retiring the DLJ’ blog post at

<http://robilad.livejournal.com/90792.html>

# DLJ Retirement Feedback

“Over the course of time the OpenJDK project became really good and it was no longer necessary to maintain the DLJ project.

There's nothing EVIL here .. it's simply that the DLJ project became irrelevant.”

David Herron, previous jdk-distros project lead in ‘The DLJ Project is Dead - Long live OpenJDK’ blog post at <http://weblogs.java.net/blog/robogeek/archive/2011/12/19/dlj-project-dead-long-live-openjdk>

# Java SE 6 EOL

“The [Java SE Support Roadmap](#) reflects an updated timeline for the EOL of public support and public releases for JDK 6.

The EOL date has been extended from July 2012 to November 2012, to allow some more time for the transition to JDK 7.

We have also updated the EOL policy to clarify our intent for this, and future major releases.”

Henrik Ståhl, Updated Java 6 EOL date blog post at [blogs.oracle.com/henrik/entry/updated\\_java\\_6\\_eol\\_date](http://blogs.oracle.com/henrik/entry/updated_java_6_eol_date)

# OpenJDK 6

“As the vast majority of Oracle’s maintenance contributions in the OpenJDK community is for Java SE 7, users of the previous release, OpenJDK 6, should consider upgrading to OpenJDK 7, or - of course - to Oracle JDK 7, depending on their requirements.

In line with no longer posting updates of Java SE 6 after November 2012 to Oracle’s public download sites, we don’t have plans to contribute further changes to the OpenJDK 6 Project after November 2012.”

Henrik Ståhl, Moving to Java 7 blog post at [blogs.oracle.com/henrik/entry/moving\\_to\\_java\\_7\\_as](http://blogs.oracle.com/henrik/entry/moving_to_java_7_as)

# OpenJDK 7u2 Release

- First ever JDK Update release in the open
- Released in December 2011
  - New HotSpot (v 22), reliability & performance ++
  - Support for Oracle Solaris 11
  - Olson time zone data 2011l
  - Bug fixes for Project Coin features
  - Includes fixes from 7u1
  - In total: 318 issues fixed in OpenJDK in 13 builds



# 7u4 Release


- OpenJDK 7u4
  - Source bundle at <http://jdk7.java.net/source.html>
  - Mac OS X Port (developer preview - jdk)
  - New HotSpot, v23
  - New supported GC: Garbage First (G1)
  - JAXP upgraded to 1.4.6
  - Includes fixes from 7u3
  - Many bug fixes & other improvements

# OpenJDK 7u6 (Work in Progress)

- HotSpot updated to 23.2
- XML component upgrades:
  - JAXB 2.2.4-2, SAAJ 1.3.16, JAX-WS 2.2.4-1
- Full debug symbols as build option
- Many (Mac OS X) bug fixes & other improvements
- Planned OpenJDK 7u6 Release timeline
  - From Edvard Wendelin's (Technical Lead) post to [jdk7u-dev@openjdk.java.net](mailto:jdk7u-dev@openjdk.java.net) mailing list:
    - Current focus is on stabilizing 7u6 release
    - Open for general bug fixes up until mid-June
    - Followed by P1-P3 bugs until early July
    - Followed by critical fixes only

# Oracle JDK 7u6 (Work in Progress)

- Mac OS X Port for end users
  - JRE
  - Plugin & Java WebStart
  - Improved OS integration & auto-update
- Early access developer preview builds
  - <http://jdk7.java.net>



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