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# Hibernate

Release Notes

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## Abstract

This document provides the release notes for Hibernate .

## 1. Overview

These release notes contain important information regarding Hibernate release. This document lists the necessary software that must be installed before using Hibernate. Users of previous versions of Hibernate may refer to Section 4, "Issues" to find the latest JIRA issue fixes. In addition, the latest Section 5, "Documentation", product support and license links are also provided.

### 1.1. Background

Hibernate is a powerful object/relational mapping tool and a query service for building Java applications. Hibernate offers a sophisticated object-oriented HQL (Hibernate query language) allowing the programmer to make use of polymorphic queries. Queries can be expressed in native SQL or using Java-based Criteria and Example queries. However, please read these release notes for more information on software that are compatible with this version of Hibernate release.

## 2. Installation And Migration Guide

This section lists the software that must be installed on your local machine before beginning to use Hibernate. Migration notes are also listed in this section for users who will be using existing databases along with Hibernate.

### 2.1. Prerequisites

The software listed in this section needs to be installed before using Hibernate, running unit tests or running the demo.

#### 2.1.1. Using Hibernate

JDK 1.5

To build Java applications with Hibernate you must have JDK 1.5 version installed. While this version is compatible with Hibernate, version 1.4 is no longer supported. Once installation of JDK 1.5 version is completed, you must set the environment variables.

#### 2.1.2. Testing Hibernate and Running the demo

To test Hibernate and run the demo, you will need Apache Ant 1.7.0 and JUnit 3.8.1.

- Apache Ant 1.7.0

Apache Ant can be downloaded from this link [<http://ant.apache.org>]. You must set the ANT\_HOME environment variable to point to the Apache Ant install location. You may refer to the manual available on their website for installing and setting up Apache Ant for use.

- JUnit 3.8.1

To run JUnit tests, you may use JUnit 3.8.1 version which can be downloaded from here [<http://www.junit.org/>]. After installation, copy

`junit.jar` to `$ANT_HOME/lib` directory. Section 3, “Running JUnit Tests” provides further notes on running JUnit tests.

## 2.2. Installation Notes

Extract files from the Hibernate `ZIP` file to the desired location. Open the directory where you have extracted these files. To use Hibernate, you must configure the project's classpath settings to point to these `jar` files. Settings for individual IDEs differ, but normally you would add the `jar` files as external library files.

## 2.3. Migration Notes

### 2.3.1. Configuring your database

To use your database with Hibernate, copy your `JDBC` driver into the `lib` directory. Then edit the `hibernate.properties` file in the `etc` directory. Additional configuration notes are available in *Hibernate Reference Guide*, chapter 3: Configuration. The Hibernate supported databases are: Oracle9i, Oracle10g, MS SQL 2005, PostgreSQL and MySQL.

#### 2.3.1.1. Oracle users

`OracleDialect` and `Oracle9Dialect` have been deprecated. `Oracle8iDialect`, `Oracle9iDialect`, or `Oracle10gDialect` should be used instead.

## 3. Running JUnit Tests

It is recommended that the Hibernate unit tests be executed using the same dialect and version of `JDBC` that will be used in production, to ensure that the configuration setting, `hibernate.jdbc.batch_versioned_data`, is set properly. The value for `hibernate.jdbc.batch_versioned_data` determines if Hibernate will use batches for updating versioned data (an optimization).

Optimistic locking relies on the ability to obtain the number of rows updated. If the `JDBC` driver does not return update counts for each command in a batch, then `hibernate.jdbc.batch_versioned_data` should be set to `"false"`.

The unit tests use the settings in `etc/hibernate.properties`. The value for `hibernate.jdbc.batch_versioned_data` is set to `true` in that file. If the unit tests involving optimistic locking fail, then the appropriate value for this flag is `false`. Some versions of Oracle `JDBC` do not support returning update counts for each command in a batch, so it is particularly important to test using the same version of `JDBC` as will be used in production.

## 4. Issues

### 4.1. Issue type: Bugs

[HHH-2683]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-2683>]

- **"datediff" is declared as `NoArgSQLFunction` in `H2Dialect`, but actually accepts 3 arguments.** This issue is now resolved. It has been changed from `NoArgSQLFunction` to `StandardSQLFunction`.

[HHH-3257]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3257>]

- **Content images not displayed.** This issue affects the use of `jdocbook` plugin. `useRelativeImageUris` is now set to `false` to fix this error.

[HHH-3260]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3260>]

- **Hibernate wraps a listener init or destroy exception into an `AssertionFailure`.** `AssertionFailure` is now replaced with `HibernateException` to catch `listener` exception errors.

[HHH-3261]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3261>]

- **Do not wrap exceptions raised by event listeners (at init or destroy time).** Use of `AssertionFailureExceptions` has been removed.

[HHH-3265]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3265>]

- **change license url in pom to <http://www.gnu.org/licenses/lgpl-2.1.html>.** The license information has been updated to version 2.1 of LGPL.

[HHH-3266]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3266>]

- **distribution bundle missing `jta` dependency.** The missing dependency set has been updated in the `dist.xml` file.

[HHH-3272]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3272>]

- **use of `Integer.valueOf(int)` which is not available in JDK 1.4.** This has been updated for the compatible JDK version. Instead of `Integer.valueOf(int)`, `new Integer(int)` is used.

[HHH-3282]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3282>]

- `DB2Dialect` **should report** `supportsLobValueChangePropogation()` **as false**. This change has been incorporated.

## 4.2. Improvement

[HHH-1786] -

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-1786>]  
`JTASessionContext.CleanupSynch` does not remove sessions from `currentSessionMap`.

[HHH-2060]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-2060>]  
- **To be able to use** `<generator>` **with** `<composite-id>`. Functionality to use `<generator>` has been incorporated.

[HHH-2506]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-2506>]  
- **Make** `javassist` **the default** `ByteCodeProvider`. This has been incorporated into this release.

[HHH-2875]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-2875>]  
- **repackage** `cglib/asm` **under** `org.hibernate` namespace. This issue is also associated with the above issue.

[HHH-3229]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3229>]  
- **Make cascade rules more transparent/explicit/deterministic**.

[HHH-3269]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3269>]  
- **upgrade to jDocBook plugin version 2.1.1**. Upgrade for jDocBook plugin version from 2.1.0 to 2.1.1 has been enabled for this release

[HHH-3276]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3276>]  
- **review proposed new doc styling**. Hibernate going to have a new look soon!

[HHH-3283]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3283>]  
- **protect**  
`BulkManipulationTest#testInsertWithGeneratedTimestampVersion`  
where `Dialect#supportsParametersInInsertSelect == false`.

[HHH-3286]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3286>]

- Move ACTION\_PERSIST\_SKIPLAZY from HEM to Core in CascadingAction.

### 4.3. New Feature

[HHH-3279]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3279>]

- create series of maven plugins offering functionality of the ant tools.

### 4.4. Task

[HHH-3270]

[<http://opensource.atlassian.com/projects/hibernate/browse/HHH-3270>]

- follow up on documentation license questions. License information has been modified to reflect LGPL licensing.

## 5. Documentation

- The *Hibernate reference guide* is a comprehensive source of material for learning about Hibernate. It kicks off with an example to get you started with Hibernate, lists the major functionality of Hibernate, offers design solutions and suggests best practises.
- The *Hibernate Core API Reference* guide will be helpful during application development.

## 6. Product Support and License Website Links

**Support Processes.**    <http://www.redhat.com/support/process/>

**Production Support Scope of Coverage .**

<http://www.redhat.com/support/policy/soc/production>

**Production Support Service Level Agreement .**

<http://www.redhat.com/support/policy/sla/production/>

**Developer Support Scope of Coverage .**

<http://www.redhat.com/support/policy/soc/developer/>

**Developer Support Service Level Agreement .**

<http://www.redhat.com/support/policy/sla/developer/>

**Product Update and Support Policy by Product .**

[http://www.redhat.com/security/updates/jboss\\_notes/](http://www.redhat.com/security/updates/jboss_notes/)

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**JBoss End User License Agreement .**

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